



UNDERGRADUATE BULLETIN 2015 - 2016

Business Administration | Economics | Arts | Nursing Science | Science and Technology | Engineering Communication Arts | Law | Blotechnology | Architecture | Music



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UNIVERSITY CALENDAR ACADEMIC YEAR 2015

Month	Activities	Undergraduate	Graduate	Month	Activities	Undergraduate	Graduate
January	New Year's Eve (Holiday)	1	1	Мау	Coronation Day (Holiday - no classes)	5	5
Sundary	GSPsy: Orientation Day	1	1		GSB: Oral Comprehensive Examination Period		8
	Instruction Begins	5			GSB: Induction Day for student admission ID 573-xxxx		9
	GSPh, GSPsy, GSLaw, and MSFE: Instruction Begins		5		GSB and GSSc: Instruction Begins		11
	PhD.BA: Instruction Begins for Semester 2/2014 (Batch8-9)		5		GSLaw: Final Examination		14-29 14-15
	GSB: Registration for New students (ID 572xxxx)		5-10		MSFE: Registration Period for Summer/2014 [Batch 6] Final Examination (till May 29, 2015)	14	14-15
	GSEng: Registration for new MA in ELT & MA in PEMS student (ID 572 xxx	(X)	6		GSB: Instructions begins for trimester 3/2014 (For Weekend Program)	14	16
	GSB: Induction Day for student admission ID 572-xxxx		10		GSeL: Pre-Registration Period (M.S.MGT, M.S.ICT, M.Ed.T&T)		10
	GSEd: First Orientation		10		for Summer 2014 Session		18-24
	GSB, GSEd, GSSc & GSEng: Instructions begins for Trimester 2/2014 (Weekday Program)		12		GSB: MBA Written Entrance Examination (English)		26
	GSPh and PhD.BA: Last day for late registration and adding classes,		12		GSeL: Registration and Payment Period (M.S.MGT, M.S.ICT, M.Ed.T&T)		26-31
	last day to withdraw without record and to have 50% of tuition fees refu	nded	13		Semester ends	31	
	Last day for late registration and adding classes,						
	last day to withdraw without record and to have 50% of tuition fees refu	nded 13		June	GSEd: June 2015 Session begins		1
	GSB: Instructions begins for trimester 2/2014 (Weekend Program)		17		June 2015 Session begins GSPsy: Mid-term Examination	I	1-8
	Retrieve and download registered student namelists via internet	19			GSSc: Registration payment period for Comprehensive examination		1-8
	GSeL and GSPsy: Last day to Late registration, Adding/				GSEng: Application Deadline		2
	Changing with fine and withdrawing courses		19		GSEng: Registration for new student MA in ELT and MA PEMS trimester 3/2014	1	5
	GSEd and GSEng: Last day for late registration and adding classes, last day to withdraw without record and to have 50% of tuition fees refu	ndod	20		GSB: Written Comprehensive Examination (MM)		7
	GSB and GSSc: Last day to late register, adding/changing with fine and	nded	20		GSEd, GSeL, GSEng, and GSLaw: Instruction Begins		8
	withdrawing courses withdraw without record and to have 50% of tuitio	n fees refunded	23		Instruction Begins	8	
	······································				Last day for late registration and adding classes, last day to withdraw without		
February	GSEng: Registration for new PhD in ELT		2		record and to have 50% of tuition fees refunded	11	
	GSeL: Tentative Research Workshop (MSMGT)		8		GSEd: Last day for late registration and adding classes, last day to withdraw		11
	Submission of Mid-term Examination Papers	9			without record and to have 50% of tuition fees refunded Retrieve and download registered student namelists via internet	12	11
	GSSc: Mid-term Examination		9		GSB: Freshmen Seminar	12	13-14
	GSeL: Comprehensive Examination (Core Courses) with Proctor		15		GSeL: Last day for Late Registration		15
	GSSc: Written Comprehensive Examination (All Programs)		15		Submission of Mid-term Examination Papers	19	
	GSPsy: Mid-term Examination Ash Wednesday	18	16-23 18		Last day of classes before Mid-term Examination	19	
	GSB and GSSc: Freshmen seminar (for 572-xxxx students)	10	21-22		GSEng: Last day for late registration and adding classes, last day to withdraw		
	GSB and GSSc: Mid-term Examination period		23-28		without record and to have 50% of tuition fees refunded		19
	Last day of classes before Midterm Exam	28			Mid-term Examination (till June 23, 2015)	22	
					GSSc and GSB: Mid-term Examination Classes resume	24	22-29
March	PhD.BA: Qualifying Exam 2014		1		GSSc and GSB: Written Comprehensive Examination (GM 1: MA, MIS, ME)	24	28
	GSPh: Mid-term Examination		2-6		Submission of Final Examination Papers	29	20
	PhD.BA and MSFE: Midterm Examination Period for Semester 2/2014		2-8 2-9		Submission of final Examination Fapers	25	
	GSB: Mid-term Exams Mid-term Examination	2-12	2-9	July	Mid-term grades due	1	
	Makha Bhucha Day (Holiday - no classes)	4	4		Last day to withdraw with "W" grade	3	
	GSB: Written Comprehensive Examination (SM)		8		GSeL: Midterm Examination Period		5
	Classes resume	13			GSPsy: Final Examination		6-13
	GSeL: Midterm Examination Period M.S.ICT (On Campus/ Test Center)		14-15		GSeL: Pre-Registration Period for next semester (1/2015)	14	10-19
	GSB: Written Comprehensive Examination (FM)		15		Last day of classes before Final Examination Final Examination	14	
	GSEng: Written Comprehensive Examination		16		GSeL: Tentative Research Workshop (MSMGT)	15-17	19
	GSB: Pre-registration period for May trimester (Online)		17-18		GSB: Online Pre-registration period for September trimester		21-22
	GSPsy: Entrance examination and interview GSEng: Oral comprehensive exam		18 20		GSeL: Registration and Payment Period		21-31
	GSPsy: Final examination		23-30		GSB: Registration period for Oral Comprehensive Examination		27
	Mid-term grades due	27	25 50		GSLaw: Final Examination		27-29
	PhD.BA: Research Forum 2015 - 1st round (Batch 3-8)		29		Asalha Bhucha Day (Holiday - no classes)	30	30
	GSPsy: Registration Period (till 10 April 2015)		30		Buddhist Lent Day (Holiday - no classes)	31	31
	GSEng: Final examination trimester 2/2014		30		Session and Academic Year 2014 ends GSEd: Session and Academic Year 2014 ends	31	31
					osea, session and Academic real 2014 ellus		10
April	Submission of Final Examination Papers	1	2	August	Academic Year 2015 and August 2015 Semester begins	1	1
	Good Friday Chakri Memorial Day (Holiday - no classes)	3	3		GSB: Oral Comprehensive Exam Period for MBA students		3
	GSB: Application Deadline	0	10		GSSc: Instruction begin period 1/2015		7
	Songkrn-Festival (Holidy - no classes)	13-15	13-15		GSEd: Orientation		8
	GSB: Submission of final exam papers	10 10	16-21		Instruction begins	10	
	GSB: Last day to withdraw with "W" grade		17		GSLaw, GSeL & GSEd: Instruction begins		10
	GSSc: Submission final Master Project for 2/2014 (All Programs)		18		H.M. the Queen's Birthday (Holiday - no classes)	12	12
	GSPsy: Orientation Day		18		Assumption of the Blessed Virgin Mary GSSc: Period final defense master project	15	15 17-21
	GSPsy: Instruction Begins		20		GSEd: Last day for late registration and adding classes, last day to withdraw		17-21
	GSB: Final Exams GSSc: Period Final Defense Master Project (All Programs)		20-27 20-24		without record and to have 50% of tuition fees refunded		19
			20-24 23-30		Last day for late registration and adding classes, last day to withdraw		
	GSB: Registration payment period for May 2015 Trimester GSB and GSSc: Final Examination Period		23-30 23-30		without record and to have 50% of tuition fees refunded	19	
	GSB and GSSC Final Examination Period GSeL: Tentative Final Examination Period (Hua - Mak Campus)		25-26		GSB: Final Examination Period		21
	GSPh: Final Examination (till May 1, 2015)		27		GSB: Registration ePayment for 1/2015 Trimester		24
	Last day to withdraw with 'W'	30			GSSc: Final Examination period		24-28
					GSSc: Registration and tuition fee payment (till September 4, 2015)	24	24
					Retrieve and download registered student namelists via internet GSB: Final Exams	24	24-31
May	GSSc: Registration and payment period for Summer 2014 Session		1-9		GSB: Induction Day for student admission ID 581-xxxx		24-31
	GSeL: Tentative Final Examination Period (Hua - Mak Campus)		2-3				27
	PhD.BA & MSFE: Final Examination Period for Semester 2/2014		4-10				

Month	Activities	Undergraduate	Graduate
September	GSB: Instructions begins for trimester 1/2015 (Weekend Program) Submission of Mid-term Examination Papers GSSc: Instruction begins period 1/2015 GSB and GSEng: Applicaion Deadlines	7	5 7 11
	GSB: Last day to late register, adding/changing with fine and withdrawing courses without "W" on the transcript & to refund 50% of tuition fee (all MBA Programs) GSeL: Comprehensive Examination (Core Courses) with Proctor GSEng: Register new student trimester 1/2015 GSSc: Last day to late register, adding/changing with fine and withdrawing courses without "W" on the transcript & to refund 50% of tuition fee GSEng: Instruction begins GSB: Induction Day for student admission ID 581-xxxx		13 14 20 21 21 28
October	Last day of classes before Mid-term Examination	2	
	GSeL: Midterm Examination Period (M.S.MGT and M.Ed. T&T (Online/take home) Mid-term Exam GSB: Freshmen Seminar (for 581-xxxx students) GSeL: Midterm Examination Period M.S.ICT (On Campus/ Test Center)	5-14	3-4 10 10-11
	Classes resume GSB: Freshmen Seminar GSB and GSSc: Mid-term Examination period	15	17-18 19-26
	King Rama V Memorial Day (Holiday - no classes) GSSc: Written comprehensive examination (All Programs) GSEng: Eligible student who take Written Comprehensive Examination	23	23 25 26
	Mid-term grades due	30	
November	Submission of Final Examination Papers GSB: MBA Online Pre-registration period for trimester 2/2015 (Only MBA Day/Evening Students)	9	2
	Last day to withdraw with 'W' GSEng: Last day for register in Written Comprehensive Examination (2/2014	20	20
	GSB: Oral comprehensive exam (till Ocember 13, 2015) GSB: Oral comprehensive exam (till December 13, 2015) GSEL: Tentative Final Examination Period (Hua - Mak Campus)	21	21 21-22
	GSE: Terrative final chaminator rendo (fida - Max Campus) Loy Kratong Day GSEng: Last day for submit project for Oral Comprehensive (2/2014) GSB: Late Mid-term Examination Day GSB: Registration period for Oral Comprehensive Examination GSeL: Semester Ends	25	21-22 25 27 29 30 30
December	Last day of classes before Final Examination GSEng: Registration for new PhD in ELT	1	1
	GSEL: Pre-Registration Period for next semester (2/2015) H.M. the King's Birthday (Holiday - no classes) GSEng: Oral comprehensive exam GSLaw: Last day of classes before Final Examination	5	1-10 5 4 4
	Final Examination GSLaw: Final Examination GSLaw: Final Examination GSB: Submission of final exam papers	7-23	7-18 8-14
	Thai Constitutions Day (Holiday - no classes) GSeL: Registration Period for next semester (2/2015) GSEng: Final examination trimester 1/2015 GSB: Final Examination Period	10	10 12-21 14 16
	GSSc: Final Examination for 1/2015 Christmas Eve	24	21-25 24
	Christmas Day (Holiday) GSSc: Registration and tuition fee payment period 2/2015 (fill peruse (2.2014)	25	25
	(till January 9, 2014) Semester ends / New Year's Eve (Holiday)	31	31

UNIVERSITY CALENDAR ACADEMIC YEAR 2016

Month January

February

March

April

May

	Activities	Undergraduate	Graduate
	New Year's Day (Holiday)	1	1
	January 2016 Semester begins	1	
	Instruction begins	4	
	GSEd, GSLaw, and GSeL: Instruction begins		4
	GSB: Registration for New students (ID 582xxxx)		4
	GSEng: Registration for new MA in ELT & MA in PEMS student (ID 572 xxxx)		8
	GSB: Induction Day for student admission ID 582-xxxx		9
	GSEd: Orientation		9 11
	GSB, GSSc, and GSEng: Instructions begins Last day for late registration and adding classes, last day to withdraw withou		11
	record and to have 50% of tuition fees refunded	14	
	GSEd: Last day for late registration and adding classes, last day to withdraw		
	without record and to have 50% of tuition fees refunded		14
	Retrieve and download registered student namelists via internet	18	
	GSB: Final examination grades release for 1/2015		22
,	Submission of Mid-term Examination Papers	1	
	GSEng: Registration for new PhD in ELT		5
	GSeL: Tentative Research Workshop (M.S.MGT)		7
	Ash Wednesday	10	10
	GSB: Freshmen Seminar (for 582-xxxx students)		20-21
	Makha Bhucha Day (Holiday - no classes)	22	22
	GSB: Mid-term Examination period		23-26
	GSeL: Midterm Examination Period (Online/take home)		27-28
	Last day of classes before Midterm Exam	1	
	Mid-term Examination	2-11	
	GSB: Mid-term Exams		2-11
	GSeL: Midterm Examination Period (On Campus/ Test Center)		5-6
	GSEng: Last day for submit project for Oral Comprehensive (2/2015)		11
	Classes resume	14	
	GSB: Pre-registration period for May trimester (Online)		17-19
	GSEng: Oral comprehensive exam		18
	GSB: Oral comprehensive exam (till April 12, 2016)	20	19 20
	Palm Sunday Good Friday	20	20
	Mid-term grades due	25	25
	Easter	25	27
	GSEng: Final examination trimester 2/2015		28
	Chakri Memorial Day (Holiday - no classes)	6	6
	GSB: Application deadline		9
	Submission of Final Examination Papers	11	
	Songkran-Festival (Holiday - no classes)	13-15	13-15
	GSB: Final Exams (till April 26, 2016)		21
	GSeL: Tentative Final Examination Period (till May 1, 2016)		23
	GSB: Registration payment period for May 2016 trimester		25-30
	Last day to withdraw with 'W'	25	25.20
	GSB: Final examination period	28	25-30
	St. Louis Marie De Montfort Feast Day	28 30	28
	Last day of classes	50	
	Final Examination	2-18	
	Coronation Day (Holiday - no classes)	6	6
	Ascension of Jesus	6	6
	GSB: Oral Comprehensive Examination Period for MBA students GSB: Induction Day for student admission ID 583-xxxx		7 7
	GSB: Instruction Begins		, 9
	GSLaw: Final Examination		9-20
	Pentecost	15	15
	GSB: Instructions begins for trimester 3/2015 (Weekday Program)		16
	Wisakha Bhucha Day (Holiday)	20	20
	GSB: Registration e-payment for 3/2015 trimester		21
	GSB: MBA Written Entrance Examination (English)		28
	GSB: Semester ends		31
	Semester ends	31	

Month	Activities	Undergraduate	Graduate
June	June 2016 Session begins	1	
	Instruction Begins	6	
	Last day for late registration and adding classes, last day to withdraw		
	without record and to have 50% of tuition fees refunded	9	
	Retrieve and download registered student namelists via internet	10	
	GSB: Freshmen seminar		11
	Submission of Mid-term Examination Papers	13	
	Last day of classes before Mid-term Examination	17	
	Mid-term Examination	20-21	
	Classes resume	22	
	GSB: Mid-term Examination		25-29
	Mid-term grades due	29	
July	Submission of Final Examination Papers	4	
	Last day of classes before Final Examination	13	
	Final Examination	14-18	
	Asalha Bhucha Day (Holiday - no classes)	19	19
	Buddhist Lent Day (Holiday - no classes)	20	20
	GSB: MBA Online Pre-registration period for trimester 1/2016		23
	GSB: Pre-registration period for September trimester (Online)		23
	GSB: Oral comprehensive exam		27
	GSB: Late mid-term examination day		28
	GSB: Registration period for Oral Comprehensive Examination		28
	Academic Year 2015 ends	31	





GENERAL INFORMATION



HISTORY & DEVELOPMENT

Assumption University was initially originated from Assumption Commercial College in 1969 as an autonomous higher education institution under the name of Assumption School of Business. In 1972, with the approval of the Ministry of Education, it was officially established as Assumption Business Administration College or ABAC. In May 1975, it was accredited by the Ministry of Education. In 1990, it was granted new status as "Assumption University" by the Ministry of University Affairs.

The University is a non-profit institution administered by the Brothers of St. Gabriel, a worldwide Catholic religious order, founded in France in 1705 by St. Louis Marie De Montfort, devoted to education and philanthropic activities. The congregation has been operating many educational institutions in Thailand since 1901.

The University is an international community of scholars, enlivened by Christian inspiration, engaged in the pursuit of truth and knowledge, serving the human society, especially through the creative use of interdisciplinary approaches and cybertechnology.

MOTTO: LABOR OMNIA VINCIT

PHILOSOPHY

In loyalty to its Christian mission, Assumption University stands for

- the inculcation of respect for the three institutions of the Nation Religion, Country, the King and a democratic way of life.
- the belief that a man justifies himself and his existence by the nobility of his work: LABOR OMNIA VINCIT
- the commitment to be a light that leads men towards the true source of all knowledge and life: LUX VERITAS

OBJECTIVES AND POLICIES

Assumption University exists for the main purpose of serving the nation by providing scientific and humanistic knowledge, particularly in business education and management science through research and interdisciplinary approaches.

To this end, it aims at forming intellectually competent graduates who:

- are morally sound, committed to acting justly, and open to further growth.
- appreciate freedom of expression, and are imbued with attitudes and ideologies through a carefully integrated curriculum of ethics, science, languages and business management.
- achieve academic excellence through hard work, critical thinking, and effective decisionmaking.

ACCREDITATION

The University is fully accredited by Commissions on Higher Education. Its graduates enjoy the privileges accorded to State University graduates. Its academic standards are accepted by the Civil Service Commission of Thailand.

Assumption University is recognized in the USA and other countries and transfer of credits from the University is accepted abroad. Graduates from the University can pursue advanced Degrees anywhere in the world. Assumption University is listed in the Handbook of Universities and other Institutions of the INTERNATIONAL ASSOCIATION OF UNIVERSI-TIES in Paris, France.

- The University is recognized by:
- The Association of Christian Universities and Colleges in Asia (ACUCA)
- The Association of Southeast Asian Institution of Higher Learning (ASAIHL)
- The International Federation of Catholic Universities (IFCU)



MEDIUM OF INSTRUCTION

English is the officially approved medium of instruction at Assumption University. Five courses are in the Thai language but only for Thai speaking students. Students whose native tongue is not Thai follow the same courses in English.

NON-DISCRIMINATION

Assumption University does not discriminate in its programs and activities against any person because of race, color, ethnic origin, ancestry, religion, age or sex. This non-discrimination policy applies to admissions, employment, treatment of individuals, and access to programs. Inquiries concerning this policy may be directed to the Office of the University Registrar.

Assumption University of Thailand | General Information

FACILITIES AND SERVICES



CAMPUSES

Assumption University maintains two campuses: the original campus located at Hua Mak in the city, and the new campus at Suvarnabhumi, some thirty minutes from the South of the city campus and twenty minutes from Suvarnabhumi Airport on the way to the Eastern Seaboard. The original campus is a compact, vertical campus comprised of 17 buildings with the tallest having a total of 16 floors. A small lake surrounded by lush gardens and seating is a focal point of beauty and tranquility. Food, convenience, and service shops to support student needs surround the campus. This will become the home of the postgraduate faculties.

The Suvarnabhumi Campus, constructed as a "University in a Park", comprises 200 acres of a beautifully landscaped assembly of mixed architecture surrounded by lush tropical gardens and trees. Designed to host the university's undergraduate degree programs, it offers everything: a meeting/exhibition center, hotel, non-coeducational dormitories, a magnificent chapel, a museum, eleven academic halls, and much more. The centerpiece of the campus is the Cathedral of Learning, a 39-story tower, which houses student support services, the library, reception halls, seminar rooms and offices. Transportation between the two campuses is convenient and inexpensive. Shuttles run throughout the day between various points in Bangkok and the Suvarnabhumi Campus.

LIBRARIES

Each Assumption University campus maintains a large library with over 500,000 volumes total and periodicals. In addition to the study facilities provided for students and instructors in the main libraries, there are reading areas in many other locations. These include the Catholic Education Council library and the Catholic library.

HEATH SERVICES

Assumption University provides health services on both campuses. Students are responsible for making arrangements for their own health care, except in cases of emergency. Registered nurses are on duty Monday through Friday from 8.00 a.m. to 4.30 p.m. and are available for emergencies, first aid, and medical counseling.

Students, faculty and staff members with medical problems are encouraged to keep their files active at the Health Center regarding the nature of their problems so that appropriate action can be taken in the event of an emergency.

FOOD SERVICE AND CAFETERIAS

Catering facilities are available to faculty, staff and students throughout both campuses. Contractor-operated facilities are in operation daily from 7.00 a.m. to 8.00p.m. (Hours may change during semester breaks).

THE RESEARCH INSTITUTE ASSUMPTION UNIVERSITY (RIAU)

The Research Institute of Assumption University (RIAU), originally known as the Center for Research in Business or CRIB, has been serving the Thai business community and international corporations since it was established in 1982. Since its inception, the CRIB has continued to grow into other research areas in response to demands for services. The center began by conducting social science research and in 1993, was recognized and known as the Center for Research in Business and Social Science (CRIB & SSc.). In 1998, the center was incorporated into the Research Institute of Assumption University (RIAU). This organizational change reflects the advancement of information technology as well as the academic diversity of research work conducted by the CRIB & SSc.

Research Services: a present, the RIAU includes four major functional areas: business research, social science research, educational research and information systems research.

OFFICE OF INFORMATION TECHNOLOGY SERVICES

The Assumption University ITS Center strives to acquaint students with the use of computers as tools for working with large quantities of information in high technology environments. Its general activities are supervised by the Director of the ITS Center. In addition to supplying instruction in the use of computers to students and faculty, the Center also assists with classwork and research activities involving complex computations and intricate data processing.

PUBLICATION

The AU Press prints all of the University publications such as the AU Journal, Newsletter, etc., and offers opportunities and facilities for publication of outstanding research papers as an incentive for both faculty and students to conduct research and to publish reports.



BOOKSTORES

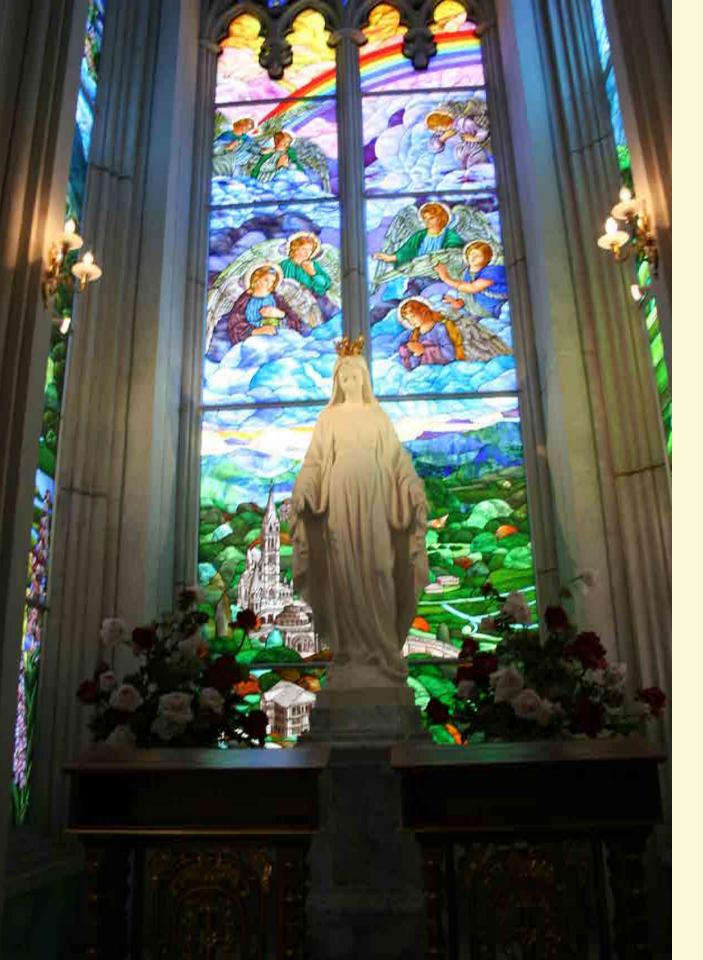
Bookstores on each campus provide a wide range of magazines, periodicals, educational equipment, textbooks and professional books usually not available at regular commercial bookstores. In addition, they offer a wide range of Thai style gifts for friends and visitors.

CAMPUS MINISTRY, CHAPEL AND RELIGIOUS CENTER

The Campus Ministry on each campus is designed for the Catholic community and makes use of the spacious and beautiful Chapels. The Religious Center is a multi-religion house of prayer, meditation, congregation, preaching, and for soul-searching pursuit of the true source of all knowledge and life. Space is provided for each community applying to establish a house of meditation and prayer.

SECURITY

Assumption University takes its responsibility seriously when it comes to protecting its students, its instructors and its facilities. At both campuses, teams of security staff are at every gate as well as throughout the campus to provide aid, to monitor activities and in general to provide for the well-being of everyone on campus.



ADMISSIONS AND FINANCIAL INFORMATION



ADMISSIONS

There are two modes of admission to Assumption University: transfer from an accredited university or college (see Transfer of Credits), and freshman admission. Admission to Assumption University is based on the student's personal and academic records/achievement. All available information is considered; including high school records, evidence of academic maturity and personal character, scores on standardized tests, extracurricular activities, and general contributions to school and community.

QUALIFICATIONS

Applicants must possess:

- M.6 certificate or High School grade 12 graduation diploma and transcript.
- If I.G.C.S.E/G.C.S.E./G.C.E "O" Level graduation diploma then at least 5 subjects with grades no less than "C" is required.
- If G.C.E "A" Level then at least 3 subjects with grades no less than "E" is required.
- If G.E.D. Certificate and Diploma
- If IB certificates then at least 5 subjects with grades no less than "4".
- Minimum first year university completion certificate and transcript (For applicants that graduated from the Philippines and Myanmar only).
- Other equivalent Diploma and Certificate that must be authorized by the Ministry of Education.
- Applicants must be free from infectious diseases that can hinder their study.
- Applicants must have good manners and testify to the university that they will be attentive, make the fullest use of their capability in their study, and strictly conform to the university's rules and regulations.

DOCUMENTS AND FEES FOR APPLICATION

- A photocopy of M.6 Certificate or its equivalent.
- Two 3x4 cm. Photographs.
- Application fee of 500 Baht.
- Copy of Resident Registration (Thais Only)
- Copy of Identity Card (Thais Only)
- Copy of Passport (non-Thai)
- A copy of a name/surname change certificate, if applicable.

PLACEMENT TESTS AND INTERVIEWS

All applicants must take placement tests in English and/or Mathematics. The English placement test is given to applicants whose native language is not English and/or those for whom the primary language of instruction has not been English and who did not produce the required TOEFL and IELTS scores. Some faculties and majors require additional tests and interviews. Some faculties and majors require additional test and interviews e.g. Music, Architecture, Communication Arts, and Nursing Science. Exceptions will be made on an individual basis.

EXEMPTION

The university will consider applications with a TOEFL score of 190 (CBT), 520 (PBT), 70 (iBT) and above or an IELTS of 5.0 or SAT1 (Critical reading & writing) total score of 600 or above to be exempted from the English Placement test and English Intensive course(s). SAT1 (Mathematics) scores of 500 or above are exempted from the Mathematics Placement Test and Mathematics Intensive course or Pre-Calculus.

INTENSIVE COURSE POLICY

The university will consider applications with a TOEFL score of 500 (PBT), 70 (iBT) and above or an IELTS of 5.0 or SAT1 (Critical reading & writing) total score of 600 or above to be exempted from the English Placement test and English Intensive course(s). SAT1 (Mathematics) scores of 500 or above are exempted from the Mathematics Placement Test and Mathematics Intensive course or Pre-Calculus.

NON-THAI APPLICANTS FROM NON-THAI HIGH SCHOOL

Accepted candidates will receive an acceptance letter. They must present this letter to the Royal Thai Consulate in their home country and obtain a Non-Immigrant ED visa with a 90-day permit. Tourist visas are not acceptable. Entering Thailand without the proper visa necessitates exit and reentry.

TRANSFER OF CREDITS

- Assumption University accepts transfer students provided that they are in good standing with the last institution attended, and that they meet admission standards. To insure proper processing of applications for admission, each candidate is asked to request each College or University previously attended for an official transcript and forward it to the Office of the University Registrar. The transfer of credits will be approved only under the following conditions:
- Must have at least a GPA of 2.00 out of 4.00 scale;
- The course was completed at an institution accredited by the Civil Service Commission;
- The course content is equivalent to that specified in the University's curriculum;
- The course must have been taken within 5 years prior to the time of application;
- Only a course with an earned grade of "C" or higher in a general education course or an earned grade of "B" or higher in a professional core course will be accepted as transfer credit;
- A maximum of 70 credits can be transferred. To expedite the process of transferring credits, one true copy of each previous tertiary institution's educational bulletin should be brought with the applicant.

FEES ARE AS FOLLOWS:

•	Matriculation fee (Thai students)	Baht	9,000
	(Non Thai students)	Baht	21,500
•	Physical Check up	Baht	400
•	Photograph	Baht	100
•	Au Newsletter	Baht	400
•	Life Insurance (per year)	Baht	150
•	Health Insurance (Non Thai student)		
	(per year)Baht	3,000	
•	Annual University fee	Baht	27,700
•	Tuition fee (per credit hour)		
•	General Education course	Baht	1,600
•	Professional course	Baht	2,000
•	Practicum course	Baht	2,500
•	Computer and Science Lab fee		
	(per hour)	Baht	1,100
•	Intensive/Pre course		
	(No credit/study period is		
	Equal to credit hour)	Baht	1,600
•	Computer Network (per year)	Baht	2,400
•	Intensive English Textbook	Baht	2,000
•	Air-condition fee (per hour)	Baht	50
•	Summer Session fee	Baht	2,500

Remarks:

- Item 1-4 are paid once only as part of Enrollment and Intensive Fees. (see table on the next page)
- 2. Fees are subject to change without prior notice.

	3						Sen	Semester / Year	ar						
	500 20 31		1ª Year			2 nd Year			3rd Year		44	4th Year	Sta 7	Sth Year	
Faculty/Department	Enrollmer Intensiti A səzruo	la Semester	2 nd Semester	Sammer I	la Semester	2014 Semester	Summer 2	In Semester	2nd Semester	£ 19mmn2	I ^{n.} Semester	Z ^{ad} Semester	la Semester	Zad Semester	Total (Baht)
tion	31.185	55,475	61.575	-	59,075	\$7,475	6	60,225	55.525	ŧ	\$5,525	49,775		R.	485,835
	31,185	54,875	65,175	,	60,875	62,475	3	\$3,725	53,725	8	55,525	56,525			494,085
	31,185	50,625	53,875	×	57,075	57,475	ž	55,525	56,275		55,525	55,525	×	X	473,085
	37,785	61,875	65,175	,	60,175	61,975	ž	53,725	55,525	8	55,525	48,775		ż	500,535
	37,785	62,575	69,025	*	64,225	66,025		62,275	55,525	4	55,525	51,925	•	ē	524,885
	37,785	64,125	65,625	3	64,225	66,025	8	62,275	54,525	X	55,525	45,175	×	3	515,285
onty and Trade	24,585	73,875	72,875	a	72,875	72,875	3	70,725	70,725		55,575	52,825		14	566,935
	34,485	75,325	73,625		77,625	77,625	ē	73,875	60,925	9,250	54,125	54,125		¥	590,985
Music-Music Performance	34,485	76,975	327,275	a	75,475	33,825	3	69,925	72,125		59,175	58,675	3	ā	602,485
	24,585	67,025	73,325	22,200	70,625	71,925	21,550	61,675	66,325	20,000	68,275	55,075		10	622,585
	24,585	60,775	71,025	31	72,075	74,725		61,225	61,225	3	67,675	56,275	3	9	549,585
chnology	24,585	60,775	71,025	3	71,725	69,725	×	61,225	61,225		67,675	56,275			544,235
	27,885	79,525	73,375	5	79,525	73,375	3	54,925	58,075		57,475	60,325	•		564,485
agneering	27,885	79,525	73,375	0	71,575	63,625	1	59,875	61,675		61,075	60,325	0		558,935
	27,885	79,525	73,375		71,575	212.15		60,775	518,62	X	54,925	60,325		X	559,835
	37,885	87,525	74,625	403,150	80,775	120,225	242,500	386,775	705,175	8	1,103,425	1,264,025	ĸ	2	4,520,735
	37,885	77,725	94,375	370,500	291,125	631,175	•	332,075	434,525	•	307,825	284,875	•	3	2,862,685
mg(Aircraft Maintenance Engineer)	37,885	102,725	116,725	×	137,875	194,925	8	227,125	347,525	2	223,475	208,475		Ř	1,596,735
	25,585	62,575	59,875	x	64,425	72,425	×	61,025	58.525	-	50,975	53,775	1 × 1	÷.	509,185
	25,585	62,575	59,875	t.	65,425	70,125		62,025	59,525	4,100	51,975	56,275			517,485
	25,585	62,575	59,875	æ	67,925	74,225	8	70.075	68,925	4,700	60,725	70,525		ð	565,135
	25,585	62,575	59,875	a	65,425	71,425		62,025	56,275	N.	59,225	58,775	y T	8	521,185
	40,435	67,275	69,275	a	71,075	76,975	8	65,725	59,425	4,700	63,725	64,725			583,335
munication Arts-Computer Generated Imagery	40,435		72,275		80,325	80,475	2	70,725	61,475	4,700	63,425	59,975		ā	608,335
	24,585	54,725	52,075	34	55,425	55,325	Щ. 1	49,675	48,025	100	46,375	34,825	3	18	421,035
130	24,585	74,875	65,275	a.	64,075	65,825	100	59,525	57,325	371	51,775	52,675	2	242	515,935
ún.	24,585	74,875	65,275		64,075	65,825		58,525	57,325		51,775	52,675	(1)	1	514,935
	31,185	64,425	62,575	5	70,925	71,075		67,625	66,425		61,425	60,175	62,225	58,175	676,235
ecture	31,185	64,425	62,575	6	70,925	72,975	1	66,025	67,275	•	61,425	526,975	62,225	561,85	677,185
	31,185	62,625	65,825	U	68,675	72,825	R	66,225	67,975		56,175	50,725	-	×.	\$45,235
Architecture-Product Design	31,185	62,625	65,825	0	71,525	68,725	1	65,175	69,775	-	57,575	50,925	-		543,335





ADMISSION FOR PROSPECTIVE STUDENTS FROM NON-THAI HIGH SCHOOLS:

WHO CAN APPLY?

- 1. Applicants with any of the following qualifications:
- High School or grade 12 graduation diploma and transcript.
- If I.G.C.S.E/G.C.S.E./G.C.E "O" Level graduation diploma then at least 5 subjects with grades no less than "C" is required.
- If G.C.E "A" Level then at least 3 subjects with grades no less than "E" is required.
- G.E.D. Certificate and Diploma
- If IB certificates then at least 5 subjects with grades no less than "4".
- Minimum first year university completion certificate and transcript (For applicants that graduated from the Philippines and Myanmar only).
- Other equivalent Diploma and Certificate that must be authorized by the Ministry of Educa-tion**.
- Applicants must be free from infectious diseases that can hinder their study.
- Applicants must have good manners and testify to the university that they will be attentive, make the fullest use of their capability in their study, and strictly conform to the university's rules and regulations.

Remark: **

Other equivalent certificates or diplomas must be translated to English and issued or certified by their own government's Ministry of Education, Foreign Ministry, or Embassy or issued in English by their school of graduation.

- 2. Applicants must be free from infectious diseases that can hinder their study.
- 3. Applicants must be able to bear all expenses related to their study.
- 4. Applicants must have good manners and testify to the university that they will be attentive, make fullest use of their capability in their study, and strictly conform to the university's rules and regulations.

If found lacking in any of the conditions listed above, the applicant will have his or her admission declined or his or her student's status nullified immediately.



WHAT IS NEEDED TO APPLY?

- Freshmen
- One copy of high school certificate or diploma or any other equivalent qualification as authorized by their country's Ministry of Education or other assigned government agency, which must be translated to English and be confirmed by their own goverment's appropriate Ministry or Embassy or issued in English by the school that issued the graduation record, diploma, or transcript.
- 2. High school transcripts (translated to English and get confirmed by their own Embassy or issued in English by their high school or equivalent graduated school.)
- 3. One copy of identification card and residence registration for Thai students and one passport copy for foreign applicants.
- 4. Four 3x4 cm. photos.
- 5. A copy of a name/surname change certificate, if applicable issued by competent authority in English.
- Transfer Students:

Assumption University accepts transfer students from institutions where English is the principal language of instruction. In addition to the above, transfer students must also submit:

- 1. Latest Official Transcript from the University/College attended; and
- 2. Description of courses taken from that University/College

HOW TO APPLY?

Assumption University offers four methods of application to prospective students. They are:

- Walk-In application: On arrival at Assumption University (any of the university campuses) students must:
- Produce a Thai ID or passport and original copies of all the admission documents mentioned above.
- (ii) Fill out the Admission Application form, specify the faculty/major codes, sign their name, application date and attach one 3x4 cm. photo.
- (iii) Submit the Admission Application form and their documents to the Admission Center. The admission processing fee is 500 baht.
- Email application: to apply via email the applicant must scan and email the admission documents mentioned above to <u>abac@au.edu</u>
- (i) After assessment, the applicant will be informed via email the status of his application. If the applicant's documents are incomplete or are not in accordance with the Ministry of Education, Assumption University will ask applicants requirements, to send supplemental documents.
- (ii) International students applying from abroad whose applications are approved must send a bank draft of 1,000 USD payable to "Assumption University" as a deposit fee. The aforementioned amount will be adjusted against the enrollment fee during registration. Thai and non-Thai students who have completed their high school or equivalent in Thailand are not required to send the bank draft of 1000USD in order to receive an acceptance letter





Refund policy for deposit amount

- It is non-refundable, except in case of visa rejection.
- It will be refunded in form of adjusting with the enrollment and tuition fees.
- (iii) Upon the receipt of the draft along with other required documents the university will issue the student an Acceptance Letter, which will facilitate the issuance of Non-Immigrant ED Visa with a stay permit of 90 days. Applicants must produce the acceptance letter at the Royal Thai Consulate in their home country for a student visa and comply with the expected arrival date stipulated in the Acceptance Letter.
- 3. Mail application: Applicants may mail the admission documents to:

Office of the University Registrar, 592/3 Assumption University, Soi 24 Ramkamhaeng Rd., Hua Mak, Bangkapi, Bangkok 10240, Thailand

Applicants are requested to enclose a mailing address, email address, and other contact details with the admission documents.

Remarks: on approval note of the application, please refer to item 2. (i), (ii), (iii)

4. Fax application: applicants may fax the admission documents to +66 (2) 719 10 90

Please provide a mailing address, email address and other contact details with the admission documents.

Remarks: on approval of the application, please refer to item 2. (i), (iii), (iii)

Note: applicants applying via email, mail or fax must present original admission documents, photographs, passport / Thai ID/ Residence Registration on arrival at Assumption University.

ADMISSION CRITERIA

- Applicants must have graduated, or eligible to receive graduate status from their high school, and successfully completed Grade 12 or have other qualifications as stated above;
- 2. optional minimum test scores required:
- TOEFL score of 70 (iBT) / 500 (PBT);
- IELTS score of 5.0 and above in all bands with a validity of 2 years;
- SAT 1 (Critical reading & writing) total score of 600 or above; and
- SAT 1 (Mathematics) score of 500 or above.

Remark: the University will consider applications with a TOEFL score of 500 (PBT) / 70 (iBT) and above or an IELTS of 5.0 or SAT 1 (Critical reading & writing) total score of 600 or above to be exempted from the English Placement test and English Intensive course(s). SAT1 (Mathematics) scores of 500 or above are exempted from the mathematics placement test and Mathematics Intensive course or Pre-Calculus.

Kindly specify the score in the Application form for admission and attach copies of the official score (original required at the time of registration).

3. Transfer students

- The transfer of credits will be approved only under the following conditions:
- Must have at least a GPA of 2.00 out of 4.00 scale;
- The course was completed at an accredited institution;
- The course content is equivalent to that specified in the University's curriculum;
- The course must have been taken within 5 years prior to the time of application;
- Only a course with an earned grade of "C" or higher in a general education course and an earned grade of "B" or higher in a professional core course will be accepted as transfer credit;
- A maximum 70 credits can be transferred.

PLACEMENT TESTS AND INTERVIEWS

All applicants must take placement tests in English and/or Mathematics. The English placement test is given to applicants whose native language is not English and/or whose primary language of instruction has not been English and who did not produce the required TOEFL or IELTS scores. Some faculties and majors require additional tests and interviews. Exceptions will be made on an individual basis. Some faculties and majors require additional tests and interviews.

Faculty Department		Additional Testing / Interview Required		
Faculty of Music		Theory and History of Music	Audition	
Faculty of Communication Arts	Communication arts Visual Communication Design Computer Generated Imagery	Aptitude Test Part I: Drawing* Part II: Design*	Interview Interview	
Faculty of Architecture		Architecture Aptitude**		
Faculty of Nursing Science		Aptitude Test	Interview	
Faculty of Engineering		Physics	-	

Remark: : * Use black pencil No. EE, color and drawing board ** Use black lead pencil No. 2B or BB

Placement Test Process (Prospective students applying from abroad):

During the application period, students are requested to check the placement test schedule from our website and are expected to arrive in Thailand at least 2 working days prior to the test date to receive a temporary ID card and complete other necessary paperwork. Some faculties require applicants to take additional tests as shown in the chart above and applicants are advised to prepare accordingly.

On the test day, please bring your temporary ID card. The tests usually last for 2 hours for each subject and the students will be tested mainly on their proficiency and skills in certain subjects depending on the faculty/department applied for.

Interview Process: Not all the applicants have to face interviews though it is a must for all Communication Arts and Nursing Science Applicants. Others required to go through interviews will be informed of this requirement on their arrival and will be given on interview schedule.

Interviews usually last for 30 minutes and discussions could be on matters of personal interest or current world affairs.

Exemption

The university will consider applications with a TOEFL score of 70 (iBT) or above or IELTS of 5.0 or SAT1 (Critical reading & writing) total score of 600 or above to be exempted from the English placement test and English intensive course(s). SAT 1 (Mathematics) score of 500 or above are exempted from the Mathematics placement test and Mathematics intensive course or Pre-Calculus



INTENSIVE COURSE POLICY

Applicants who are not exempted from placement tests are required to take intensive courses to improve their knowledge in preparation to study in the University by improving their English skills, reviewing mathematics comprehension and other subjects, concerning the faculty / major to which the applicant has applied. When applicants have successfully completed the intensive course(s), Assumption University will examine the results of the intensive course(s) and properly place the applicants in the appropriate classes for the August semester.

- 1. Intensive English Courseis
 - is divided into 2 levels: a 60-hour course and a 120-hour course. Placement depends on the results of the English placement test.
- 2. Intensive Mathematics Course is divided is divided into 3 levels: a 15-hour course, a 30hour course and a 60-hour course. Placement depends on results of the Mathematics placement test.
- 3. Other Intensive Courses

are French, Chinese, Japanese, Creative Communication, Drawing, Architecture Preparation Workshop or Theory of Music. Courses taken depend on the applicants' academic performanc and the faculty/department applied for.







ACADEMIC INFORMATION



ACADEMIC SYSTEM

ATTENDANCE

Assumption University has adopted the semester system. An academic year is divided into two semesters and a summer session. A semester lasts for approximately sixteen weeks.

- First Semester-begins in August and ends in December.
- Second Semester-begins in January and ends in May.
- Summer Session June and August (optional).

One credit hour requires a minimum of 15 hours of class attendance; a subject involving 3 credit hours will require at least 45 hours in class. To qualify for the final examination in any subject, each student must be present for at least 80% of the class meetings. In some exceptional cases, at the discretion of the lecturer and/or the Dean of the Faculty concerned, this requirement may be waived.

NORMAL COURSE LOAD

A student's course load may vary from semester to semester. The minimum for all full-time students is four courses (12 credit hours) per semester; the maximum course load is six courses (18 credit hours) per semester. To enroll in more than six courses, written permission must be obtained from:

- The chairperson of the department concerned (if a graduating student, or junior and senior students with a cumulative G.P.A. of at least 3.25).
- In all other cases, the Dean of the Faculty con cerned must be consulted.

Students are required to attend all classes regularly. To qualify to take a final examination for any subject, a minimum of 80% attendance is mandatory. There are no authorized cuts from classes; irregular attendance may result in exclusion from classes. Any student who finds that he/she can no longer attend a class must officially withdraw in writing through the Office of the Registrar. Failure to withdraw officially may result in a grade of "F" for the course. In case of unavoidable absence, such as subpoena requirements, illness or death of a member of the family, all work missed must be satisfactorily made up and it is the responsibility of the student to arrange for this.

WITHDRAWAL

Students may withdraw (drop) officially from a course, or all courses during the first two weeks without any penalty. Thereafter, until the final day of withdrawals as indicated in the University calendar, students will receive "W" grades. An official withdrawal must be accomplished at the Office of the Registrar by the student personally (not by someone else on his/her behalf). Failure to withdraw officially will result in a "WF" grade.

GRADING SYSTEM

Letter grades are used to show the academic standing of all students with the following meanings and values.

GRADE	MEANING	VALUE
A	Excellent	4.00
A-	Almost Excellent	3.75
B+	Very Good	3.25
В	Good	3.00
В-	Fairly Good	2.75
C+	Fair	2.25
С	Satisfactory	2.00
C-	Minimum Satisfactory	1.75
D	Poor	1.00
F	Failure	0.00
R	Course repeated later	-
S	Satisfactory	-
U	Unsatisfactory	-
W	Withdrawal with Permission	-
WF	Withdrawal with F Withdrawal from course after	0 time limit
AUD	Audit and non-credit	-
I	Incomplete, used in case a stu fails to complete his/her assig within the time limit or is abse the examination with approva University due to exceptional	nment ent from al from the
WP/IP	Work in progress	
NR	No Report	
TR	Transfer Credits	

Student grades are computed at the end of each semester, and may include:

- Quizzes
- Term papers
- Book reports
- Assignments
- Recitation Class participation
- Attendance
- Midterm and final examinations

These requirements may vary with each course.

ACADEMIC ACTION

Academic action can be both favorable and disciplinary. When a student is performing well, all action on him/her in the academic area is said to be favorable to the student. For example, when a student obtains a high GPA he/she is put on the academic List of Honors; when he/she consistently achieves very high marks, he/she is given higher honors. However, if his/ her achievement is below standard, disciplinary action may be taken against him/her.

PROBATION

Students who obtain a cumulative GPA of less than 2.00 (1.99-1.50) but above the limits set for dismissal from the University will be put on probation, except during the first semester of the freshman year.

DISMISSAL

Undergraduate Students will be dismisses from the University under the following conditions:

- obtaining a cumulative GPA of less than 1.50 at the end of any semester except the first semester of the freshman year;
- obtaining a cumulative GPA of less than 1.75 for two consecutive semesters except the first semester of the freshman year;
- obtaining a cumulative GPA of les than 2.00 for four consecutive semesters except for the first semester of the freshman year. However, in certain cases, the President, in consideration of a student's potential to improve his/her academic performance and eventually graduate, may grant special permission for the student to carry on his/ her studies at the University on probation condition.



HONORS SYSTEM

The University, wishing to provide recognition to exceptional students, has established an Honors System. Undergraduate students are given awards for achievement measurable in grades beginning with semester grades and ending with cumulative grades until graduation.

GRADUATION WITH HONORS

Undergraduate students maintaining a high scholastic average are eligible for graduation with the following Honors:

Summa Cum Laude	Cumulative	GPA	3.80-4.00
Magna Cum Laude	Cumulative	GPA	3.50-3.79
Cum Laude	Cumulative	GPA	3.25-3.49

REQUIREMENTS FOR GRADUATION WITH HONORS

- Have fulfilled all the requirements for graduation within 4 years (5 years for Architecture).
- Have not been placed on probation in any condition.
- Have not received a grade lower than "C" for any course.
- Transfer students must have taken all the third and fourth year courses (or 72 credits) at Assumption University.
- Students who have graduated with a cumulative GPA of 3.25 or higher, regardless of a grade lower than "C" or "U" for non credit courses, or those who completed all requirements within 5 years of study for all 4-year undergraduate programs; and within 6 years for the Architecture program, are entitled to obtain an Award of Academic Excellence.

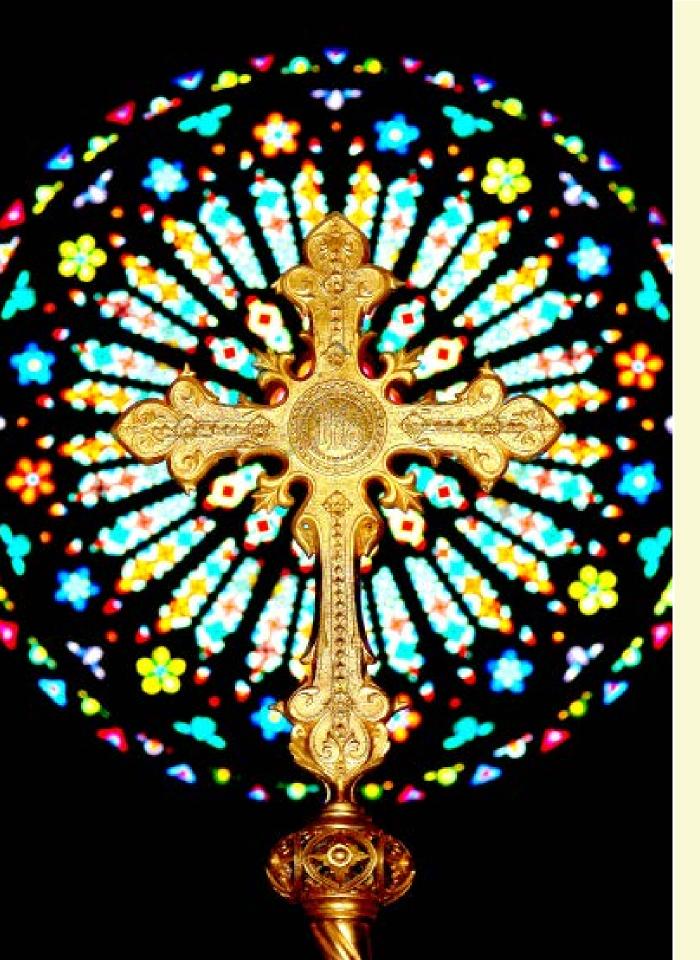
SPECIAL HONORS AND AWARDS

Students are given distinctions for their performance for a semester or an academic year as listed below:

- A Special Certificate of Honors from the University Council for those who obtain a 4.00 GPA for any academic year;
- A Special Certificate of Honors from the President of the University to all students who fall within the GPA range of 3.50-3.99 for any academic year;
- Students who obtain a GPA of 3.25 or above at the end of each semester will have their names published in the Academic List Honors.

Condition:

- 15 credits / semester required except for final semester.
- Grades must be "C" or higher.



STUDENT AFFAIRS



Being committed to the educational process of student character formation, Au Student Affairs exists for the well-being of students' lives, moral and value education, and out-of-classroom learning. On the basis of individual differences and preferences, centers and divisions under Student Affairs provide a wide range of interventions and services aiming at students' growth and satisfaction. The Office of the Vice President for Student Affairs is a core unit that coordinates all Student Affairs centers and divisions.

International Center

The center is a mentor to help foreign students to settle down and adjust to Thai surroundings. Nevertheless, students will never lose their national identity during their years in Thailand. Lots of events and activities to communicate their cultural heritage to colleagues from different countries have been encouraged which in turn has led to cross - cultural awareness, mutual understanding, the appreciation of other cultures and unity in diversity among people in our multinational community. Moreover, the center is more than a location; it is a home and a cradle in which international students can seek assistance and guidance regarding accommodation, transportation, etc.

Center for Residential Life

Three residential buildings at Suvarnabhumi Campus: King David, King Solomon and Queen of Sheba that accommodate 2500 Thai and international students stand for a community of scholars who dedicate their young lives to the pursuit of knowledge. The integration of excellent facilities with Internet technology removes all worries about living conditions and allows young scholars to access sources of knowledge anywhere around the world at anytime. The Center for Residential Life consists of instructors who help make it a home for all members by providing orientation and information, giving advice and assistance when they experience difficulties and encounter problems, creating a multicultural learning environment free from prejudice and discrimination, and promoting harmonious relations and peaceful living despite differences in language and culture, and preparing developmental programs to enable students to excel.

Center for Sports and Physical Fitness

High standard sport facilities and fitness equipments reflect the university's commitment to belief in the importance of students' physical development. The center is responsible for encouraging students to access these facilities and equipment for their physical fitness through professional services and management. Free access is to guarantee that it is open for all equally. Various sport lessons and training are designed for both beginners who need sports for enhancing their physical health or those who want to become university athletes.

Center for Mental and Personality Development

The center is responsible for fostering and enhancing students' emotional growth, which is regarded as one of the four core dimensions of the total development of a human person. Professional psychologists at the center are ready to provide counseling services to not only individuals and groups, but also their families. Various proactive sessions are continually organized so as to help students know their individual selves and cope with problems and anxiety. Peer counselors are students who pass advanced training conducted by professional counselors in the center who will embed groups of students so to assure that emergent needs will be responded to and students' emotional maturity is encouraged at all levels.

Financial Aid and Scholarships Division

Assumption University is committed to the policy that "no Au students will terminate their education due to lack of financial support". The Financial Aid and Scholarships Division exist in particular to assist students who are eligible for financial assistance or scholarships during their study. The University provides several types of financial aid programs and scholarships to cover the difficulties and needs of students, which can be grouped into the following.



- Scholarship: funds from the university or other sources granted to students who fulfill the university's requirements.
- Grant: form of financial aid offered to students who are in financial difficulty.
- Loan: the financial assistance offered to students on the basis of financial needs with repayment conditions. The conditions of repayment depend on loan agreements of each of particular source which includes University loan and Government loans.

Student Rights and Discipline Division

The Student Rights and Discipline Division has a joint mission with other units in the university to develop Au students to their true potential by inculcating a sense of deliberation and upholding self-discipline that will eventually enhance their moral maturity, creating an environment that fosters opportunities for students to develop their sense of self-responsibility and self- discipline, acknowledging their personal rights and each other's, exercising freedom of choice constructively, and maintaining proper social manners. The Student Rights and Discipline Division follow a student-centered approach and uses university guidelines for discipline formation as the cornerstones of the execution of its functions. The functions of the unit are to monitor student behavior. to reform students from improper behavior, to inculcate desirable social values, to rehabilitate desirable behavior, to encourage the process of behavior change, and to maintain student welfare and security inside the campuses.

Student welfares and services

Insurance

The division arranges Group Accident Insurance for all students and Health insurance for non- Thai students at registration each academic year. Non-Thai students who pay for health insurance fee will receive a health care card one month after registration. Students can request accident insurance compensation by filling in the relevant documents at the division. International students whose parents reside in Thailand or who have an insurance policy and do not need the university health insurance program must file an exemption request form.

Military Services

The R.O.T.C. Program is provided for Thai students who accept military training. Students can contact the University R.O.T.C. supervisor for application. Military service postponement for male students who have reached the age 20 and who have never been trained in the R.O.T.C. Program (Reserved Officer Training Corps) is possible following submission of the relevant documents during the specified period.

• Lost & Found

A Lost & Found service is available during working hours for students who have lost or found any property on campus. If advice is needed, students are to contact the Disciplinary Advisor directly. During non-working hours, they should report to the security guards.

• Letter of Recommendation

Students can request letters of behavioral recommendation by submitting the petition forms at the Student Rights & Discipline Division.

St. Martin Center for Professional Ethics

& Service Learning

St. Martin Center for Professional Ethic & Service Learning is responsible for fulfilling Assumption University's vision of 'continuous improvement', of students' personal integrity and professional ethics. The center utilizes both in classroom learning, and 'Service Learning' to facilitate students' growth in terms of self-discipline, self-control, personal and social responsibility, moral maturity, cognitive moral reasoning and social awareness. These programs and activities include:

- Business and Professional Ethics Seminar (BG1403) which is a requirement for graduation for all Au undergraduate students. Each student has to attend this class twice a semester,
- totaling sixteen classes in all during four years.
 Service-Learning is a special requirement for third year, first semester students. Through this program, each year Au students organize more than a hundred projects in many provinces, which contribute to Thai society.
 Moral Training is a special program to help students to reflect on their life, discover their moral orientation, and learn together in groups how to solve moral dilemmas systematically.



The Center for Student

Leadership and Experiential Learning

Realizing the fact that learning takes place both inside classrooms and outside classrooms, The Center for Student Leadership and Experiential Learning is assigned to create, develop, and maintain out-ofclassroom learning activities in different respects that fit students' individual differences, talents, and interests.

To promote a democratic way of life, and leadership on campus, the university encourages students to participate in and manage various kinds of extracurricular activities. Depending on different interests, students voluntarily choose to prepare themselves for later life through their involvement in the Student Organization, the student committee of faculties and majors, the resident student committee, clubs, activity groups and those projects or programs organized by these student activity units.

The Assumption University Student Organization, made up of an elected President and other executive members, is the governing body of student activities. It is empowered to supervise student committees, clubs, and other activity units.

The Categories of clubs and units under the Student Organization include Academic, Value and Ethics Promotion, Sports, Music and Art Performance, Recreation, Social and Environmental Development, Information and Public Relations.

More than 40 student clubs in the campus are gatherings of students of the same interest to share their talent and contribute to society. 'Activities for All' provides opportunities for students to form either a small, middle-sized, or big groups for any creative project or activity of their special interest. Advisors at the center are ready to advise, assist, coordinate students to, or disseminate information on student activities/ projects so as to ensure that even beginners can start projects/ activities on their own initiative.

Learning Support Center

The Learning Support Center (LSC) strives to help students 'learn how to learn', help solve learning problems; and promote the right attitude towards educational achievement. The center works closely with academic deans and chairpersons to facilitate effective study. The LSC believes that, through proper learning strategies and techniques, all students will achieve academic excellence. Services and activities include:

- counseling and advising for learning behavior;
- student development programs including short training sessions, workshops, and seminars to further develop study skills and time management skills in students.
- the LSC Mini Library which provides supplementary materials and educational media such as video cassettes, CD-ROMs and textbooks to enhance students' learning skills;
- on Educational Testing Service which includes Intelligence Testing and Learning Behavior Testing to help students to find out learning styles, strengths and weaknesses.

Career Development Center

Career development is an ongoing, life-long process. The Career Development Center (CDC) is prepared to assist students in applying their particular combination of interests, abilities, values, and motivations to a systematic search of the working world and potential professional and educational opportunities.

The center provides students and recent graduates with advice, information, and on-campus services regarding full-time and part-time employment, career planning and development. Services and activities include career-related programs and workshops, job placement, career week, summer job training program, alumni talk, career resources, company relations and services.

Moreover, so as to create a sense of entrepreneurship in students, the Career Development Center with the cooperation of ABAC School of Management, has established the Dummy Company Project that gives opportunities to students to form organizations. This project is run by students themselves as a real business enterprise. It enables students to have a direct experience in management as well as experience in a real business organization.



OFFICE OF INTERNATIONAL AFFAIRS



The Office of International Affairs reports to the Office of the President and is responsible for taking the lead in establishing international education exchanges and study abroad opportunities at both undergraduate and postgraduate level programs.

The Office provides guidance and counseling for students who wish to spend a semester abroad, to transfer as an undergraduate or to continue postgraduate studies at other international institutions. It is also charged to collaborate with the Office of Student Affairs, the International Students Center, the Office of Thai Art and Culture and with each faculty to enhance the care taking of international students.

OPPORTUNITIES ON STUDENT EXCHANGE PROGRAMS

Assumption University's Student Exchange Program gives students the opportunity to experience life in another country while still earning credits towards their degree.

Assumption University has numerous agreements of cooperation with institutions in 33 countries. Most agreements include elements for student exchange, faculty exchange, sharing of research and more.

32 Institutions from 14 countries send their students on Exchange study programs. Assumption University students can also go to these institutions on student exchange programs.

JOINT DEGREE PROGRAMS

Assumption University has several joint degree programs which allow students to study partially at Au and then to complete their degree at a western university. The degree, awarded by the western university, is thus obtained at a substantially lower cost than having to study at the overseas university fulltime. Au currently has seven Post-Graduate joint degree programs and two Undergraduate joint degree programs and is exploring others.

Assumption University of Thailand | Office of International Affairs

Bachelor Degree Programs

Au – Wollongong (Australia) Au – BLCU (China) Au – Rajagiri (India) Au – UCD (United States)

Master's Degree Programs

Business & Management Financial Management ** MSc-FM - Financial Management International Business * MSc-IB - International Business International Marketing * MSC-IM - International Marketing Biotechnology Food Biotechnology*** MSc. FB – Food Biotechnology Law International Business Law ** LLM - International Business Law Engineering Telecommun. & Computer Network Engineering * MScTeCNE - Tele. & Comp Net Engr Information Technology Internet and Multimedia Engineering * MSc-IME - Internet and Multimedia Engr. Education, Language, Philosophy, Religion & Tourism Teaching English as a Second Language * MA-TESL - Teaching English as a 2nd Lang. Doctoral Degree Programs

B.B.A. Twinning Program

Food Biotechnology***Ph.D.FBInternet & Multimedia Engineering *Ph.D.-IMETelecommun. & Computer Network Engr. *Ph.D. - TeCNE

* Joint program with South Bank University, UK

** Joint program with the University of Exeter, UK

*** Joint program with University of California, Davis

ACCEPTANCE MODES BY OVERSEAS UNIVERSITIES:

Assumption University has numerous agreements of cooperation with institutions in 33 countries. Most agreements include elements for student exchange, faculty exchange, sharing of research and more. Universities that have worked with Au on such arrangements include though not exhaustively, quite actively, include:

Australia:

- Griffith University
- The University of New South Wales
- University of Queensland
- University of Wollongong
- Australian Catholic University

Europe:

- ESCIP, France
- ESPEME Lille, France
- ESPEME, Nice, France
- FHS Kufstein Tirol University of Applied Sciences, Austria
- Hogeschool Utrecht, The Netherlands
- IESEG School of Management, France
- ISEP, France
- Jyvaskyea University of Applied Sciences, Finland
- Katholische University, Germany
- Laurea University of Applied Sciences, Finland
- Louvain Catholic University, Belgium
- Rotterdam University, The Netherlands
- Stockholm University, Sweden
- Tampere Polytechnic University of Applied Sciences, Finland
- The Catholic University of the West, France
- The Hague University, The Netherlands
- University of Applied Sciences Mainz, Germany
- Hogeschool Zuyd, Netherland

South East Asia:

- Gakushuin University, Japan
- Hong Kong Baptist University, Hong Kong
- Kansai Gaidai University, Japan
- Ryukoku University, Japan
- Seisen University, Japan
- Sogang University
- The Catholic University of South Korea, Korea
- University of the Sacred Heart, Japan

United Kingdom:

- London South Bank University
- Nottingham University

- University of Exeter
- Warwick University
- De Montfort University

United States:

- Ball State University
- De Paul University in Chicago
- Juniata College
- Loyola University Baltimore
- Monterary Institute in California
- Murray State University
- Pepperdine University, California
- Pittsburgh State University
- Tarleton State University
- The University of the Incarnate Word
- The University of Davton
- The University of Wisconsin Whitewater
- The University of California, Davis

AGREEMENTS AND LINKAGES

In terms of visiting Professors and study groups traveling abroad on short courses and internships as the result of agreements on Academic co-operation:

Australia:

- Griffith University
- The University of New South Wales
- University of Queensland
- Wollongong University

Finland:

- Jyvaskyea University of Applied Sciences, Finland
- Laurea University of Applied Sciences
- Tampere Polytechnic University of Applied Sciences, Finland

France:

- Catholic University of Lille
- Catholic University of the West
- ESCIP School of International Business
- IESEG School of Management, France
- IESEG School of Management, France

Germany:

- University of Applied Sciences Mainz
- University of Siegen

Japan:

- Kansai Gadai University
- Nihon University
- Ryokoku University
- University of the Sacred Heart
- Kansai University of International Studies



United Kingdom:

- London South Bank University
- University of Exeter

United States:

- Ball State University

- Ball State University
 De Paul University in Chicago
 Murray State University
 New Mexico State University
 Pittsburg State University, Kansas
 Tarleton State University Stephenville, Texas
 The University of California, Davis
 The University of Dayton
 University of Incarnate Word, San Antonio, Tavas Texas

DIRECT INDEPENDENT ADMISSIONS EITHER THROUGH TRANSFERS OR THROUGH POST GRADUATE ADMISSIONS

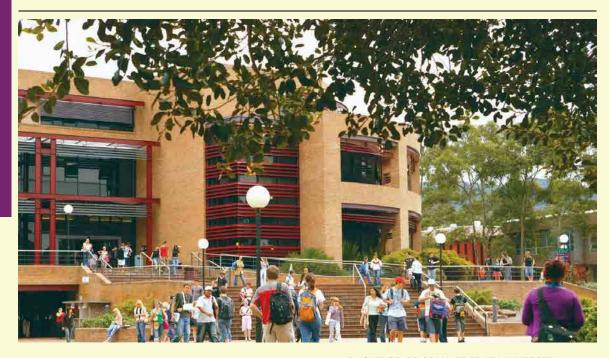
Over the past 42 years Assumption University gradu-ates have been accepted into programs of pride in Canada, United States, United Kingdom, Europe, Australia and Asia.

Such acceptances have been made possible through Assumption University's strong curriculum, English language instruction and rigorous testing methods.





Assumption University & University of Wollongong **Transfer Program For Business Administration Students**



STUDENT OPTIONS

The University of Wollongong; NSW Australia and Assumption University; Bangkok Thailand have entered into a historic agreement that will permit qualified BBA students to enter into the second year of Wollongong's 3-year Bachelor of Commerce (B.COM) degree program.

BACHELOR OF COMMERCE AT UNIVERSITY OF WOLLONGONG REQUIREMENTS

- Each ABAC subject must be at C- grade or higher
- TOEFL 213 (computer), 79 (Internet), and TWE 4.0
- OR IELTS 6.0 or above (Reading & Writing band must also be 6)
- There is a 18-week Wollongong University Directly Entry Course offered by the Wollongong College Australia for students who cannot initially score 213 on the TOEFL or 6.0 on the IELTS

Completion of the following subjects at Au is equivalent to the 60 credit points of advanced standing of the Bachelor of Commerce at UoW

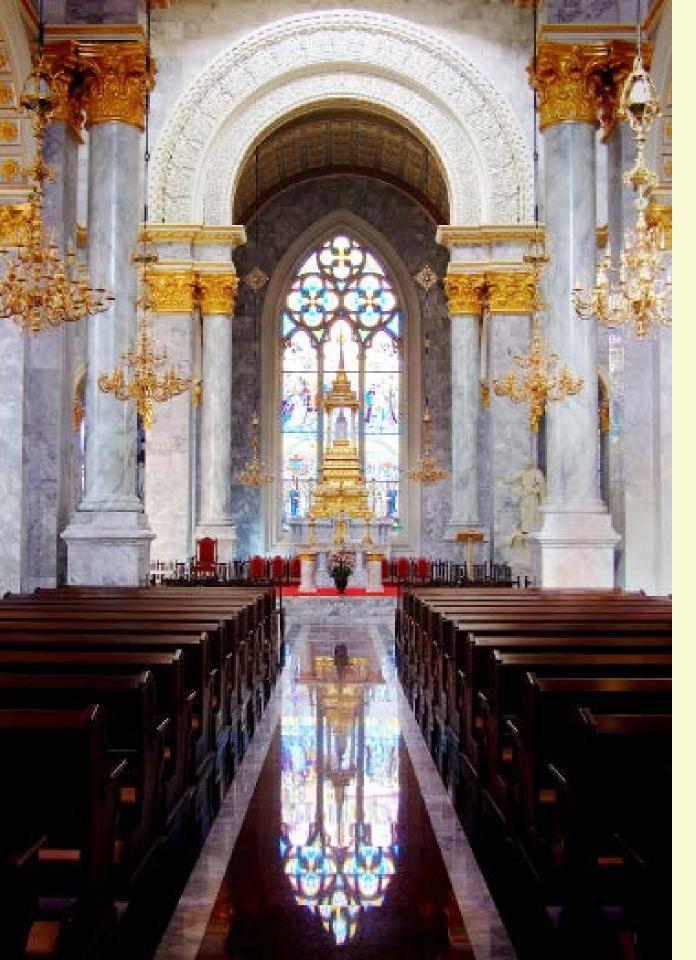
	Au Subjects	UoW Subjects	
1	ACT1600 Fundamentals of Financial Accounting	ACCY111 Accounting Fundamentals in Society	6
2	ACT2620 Fundamentals of Managerial Accounting	ACCY112 Accounting in Organisations	6
3	BG1201 Statistics I BG2200 Statistics II	COMM121 Business Statistics	6
4	BG2400 Macroeconomics FIN2700 Money, Banking and Financial Markets	ECON101 Macroeconomic Essentials for Business	6
5	BG1400 Business Law I BG1401 Business Law II	LAW101 Law, Business and Society	6
6	MGT2900 Principles of Management	MGMT110 Introduction to Management	6
7	MKT2280 Principles of Marketing	MARK101 Marketing Principles	6
8	BIS2180 Information Technology	COMM113 Business Oriented Information Systems	6
9	BG2401 Microeconomics MGT1101 Introduction to Business	ECON111 Introductory Microeconomics	6
10	BG1200 Mathematics for Business	ECON222 Mathematics for Business	6

Program of study required for the award from Faculty of Commerce

Bachelor of Commerce, in the following Major

- 1) Accountancy
- 2) Economics 3) Business Innovation 4) Management 5) Marketing 6) Finance 7) Financial Planning 8) Business Law 9) Human Resource Management 10) Public Relations 11) International Business 12) Supply Chain Management
- 13) Quantitative Analysis in Economics

Tuition fees for B.Com program at the University of Wollongong is AUD\$ 20,502.00/year (refer to year 2011), Overseas Student Health Cover AUD\$ 420.00/year. Living expense including accommodation is approximately AUD\$ 12,000/year. These will be estimate total AUD\$ 32,922/year.



MARTIN DE TOURS SCHOOL OF MANAGEMENT AND ECONOMICS

CURRICULUM STRUCTURE

Courses	MKT	MGT	FIN	ACT	BIS	HTM	IBM	IDM	REM	INS	ECO
A. General Education Courses	40	40	40	40	40	40	40	40	40	40	45
- Language Courses	15	15	15	15	15	15	15	15	15	15	15
- Social Science Courses	13	13	13	13	13	13	13	13	13	13	6
- Humanities Courses	6	6	6	6	6	6	6	6	6	6	9
- Science and Mathematics Courses	6	6	6	6	6	6	6	6	6	6	15
B. Specialized Courses	93	93	93	96	96	93	93	93	93	93	90
- Business Core Courses	48	48	48	48	45	48	48	48	48	48	33
- Major Required Course	30	30	30	36	42	30	30	30	30	30	30
- Major Elective Courses	-		-	-	-			-	-	-	12
Concentration Courses	15	15	15	12	9	15	15	15	15	15	15
C. Free Elective Courses	9	9	9	6	6	9	9	9	9	9	9
Total Credits	142	142	142	142	142	142	142	142	142	142	144



OBJECTIVES

Matin De Tours School of Management and Economics offers a wide range of undergraduate courses including the traditional disciplines of Marketing, Finance, Management and Accounting in conjunction with the emerging fields of study such as Business Information Systems for students wishing to work in private and public sectors. Through an innovative, practical, and high-quality teaching program, the students are allowed to:

- Develop sound knowledge and practical skills to adapt to the fast changing, highly competitive business world,
- Develop the ability to analyze and solve problems and make management decisions,
- Be equipped with communicative skills and the ability to handle advanced information and communication technology,
- Prepare themselves for a wide range of careers including working as professionals and entrepreneurs,
- Be leaders in the business community.

The School of Management and Economics offers Programs of study as follows:

- Marketing (MKT)
- Management (MGT)
- Finance and Banking (FIN)
- Accounting (ACT)
- Business Information Systems (BIS)
- Hospitality and Tourism
 Management(HTM)
- International Business
 Management (IBM)
- Industrial Management (IDM)
- Real Estate (REM)
- Insurance (INS)
- Business Economics (ECO)

GRADUATION REQUIREMENTS

- To be qualified for graduation, the student must
- Have completed the total number of credits of the curriculum
- Have obtained a cumulative grade point average of at least 2.00
- Have participated in 16 sessions of the Professional Ethics Seminar
- Have obtained library and financial clearance from the University
- Have demonstrated good behavior and discipline

DEPARTMENT OF MARKETING

Degree Conferred:	Bachelor of Business Administration (Marketing) B.B.A. (Marketing)
Program Objective:	 To produce graduates who have the characteristics, knowledge and skills as follows: Morally sound, committed to acting justly and open to further growth Knowledgeable of marketing principles, possess analytical tools and practical knowledge to make sound marketing decision Flexible competent and well-rounded in confronting and solving business problems Able to work as a team and motivate others to work Have positive attitude, interpersonal, communication and presentation skills, IT skills and entrepreneurial skills

<mark>A. General E</mark> Language C	ducation Courses ourses	40 Credits 15 Credits	
BG 1001	English I	3	
BG 1002	English II	3	1 Per
BG 2000	English III	3	
BG 2001	English IV	3	
GE 1403	Communication in Thai	3	B. Specialize
or GE 1401	Language and Communicatio	on Skills	Business Co
	(For international students)	3	
			ACT 1600
Social Scien	ce Courses	13 Credits	
			ACT 2620
BG 2400	Macroeconomics	3	
BG 2401	Microeconomics	3	BG 1201
GE 1204	Physical Education	1	BG 1400
GE 2202	-	3	BG 1401
MGT 1101	Introduction to Business	3	BG 2200
			BIS 1141
Humanities	Courses	6 Credits	BIS 2180
			BIS 3340
GE 2101	World Civilization	3	FIN 2700
MGT 2404	Managerial Psychology	3	
	5 7 57		FIN 3701
Science and	Mathematics Courses	6 Credits	IBM 2702
		_	MGT 2900
BG 1200	Mathematics for Business	3	MGT 3905
GE 1301		3	MGT 3907
			MGT 3940



Credits

3

3

3

3

3

3

3

3

B. Specialized	Courses	93 Credits
Business Core	e Courses	48 Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BIS 1141	Business Software Applications	5 0
BIS 2180	Information Technology	3
BIS 3340	Computer Tools in Research	0
FIN 2700	Money, Banking and Financial	
	Markets	3

Corporate Finance

Entrepreneurship

Principles of Marketing

Principles of Management

Operations Management

Business Communication

Business Research Methodology

International Business Environment

	Communications
MKT 3515	Purchasing and Supply Chain
	Management
MKT 3525	Sales Management
MKT 3530	Consumer Behavior
MKT 3620	Global Marketing
MKT 4725	Competitive Analysis and Strategy
MKT 4730	Marketing Management
MKT 4829	Marketing Decision Making
MKT 4855	Research in Marketing

BIS 3587

MKT 3102

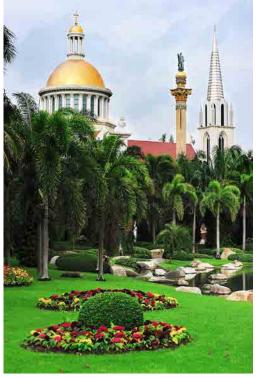
Concentration Courses

Major Required Courses

Students must choose one of the three following plans as their concentration courses. 15 Credits Plan A: Major Concentration Courses Or Plan B: Business Concentration Courses 15 Credits Or Plan C: Major Elective Courses 15 Credits

Principles of Electronic Commerce

Integrated Marketing



PLAN A – Major Concentration Courses 15 Credits

Students pursuing PLAN A must select a concentration in the major area and study the five specified courses.

Integrated Marketing Communications

MKT 3627	Sales Promotion	3
MKT 3628	Public Relations	3
MKT 4726	Advertising and Creative Strategy	3
MKT 4727	Integrated Media Planning	3
MKT 4849	IMC Campaign Planning	3

Strategic Marketing

30 Credits

3

3

3

3

3

3

MKT 3629	Pricing Strategy and Decisions	3
MKT 3823	Marketing Channel Strategy	
	and Decisions	3
MKT 4806	Product and Brand Management	3
MKT 4811	Seminar in Marketing	3
MKT 4848	Contemporary Issues in Marketing	3

Retail Entrepreneurship

MKT 3803	Retail Management	3
MKT 3836	Merchandising and Promotion	3
MKT 3837	Service and Customer Relationship	
	Management	3
MKT 4897	Marketing Internship	3
MKT 4898	Seminar in Entrepreneurship	3

PLAN B – Business Concentration Courses

55	concentration	
		15 Credits

Students pursuing PLAN B must select a concentration in other business areas and study the five specified courses.

Advertising

AD 3106	Art Direction	3
AD 3112	Brand Communication	3
AD 4108	Basic Copywriting (English)	3
CA 2004	Introduction to Advertising	3
CA 2013	Utilization of Multimedia Tools	3

Assumption University of Thailand | Department of Marketing

MGT 4914

MKT 2280



3 3

3

3

3

3

Business Information Systems

BIS 3315	Programming and Algorithms
BIS 3635	Database Systems
BIS 3655	Data Communications and
	Networking
BIS 3666	Information Systems Analysis and
	Design
BIS 4675	Information Systems Project
	Management

Finance and Banking

FIN 3711	Investment
FIN 3712	Money and Capital Markets
FIN 3713	Business Analysis and Valuation
FIN 4813	Financial Management
FIN 4815	Bank Management

Hospitality and Tourism Management

HTM 3101	Introduction to Hospitality	
	Management	3
HTM 3102	Introduction to Tourism Management	3
HTM 3103	Consumer Behavior in Hospitality	
	and Tourism Industry	3
HTM 3205	Marketing for Hospitality and Tourism	3
HTM 3211	Food and Beverage Management	3

International Business Management

IBM 3711	Comparative Management	3
IBM 3713	International Management	3
IBM 3714	Export-Import Policy and Strategy	3
IBM 4811	International Strategic Management	3
IBM 4820	International Cooperative Strategy	3

Industrial Management

IDM 3203	Logistics and Supply Chain	
	Management	3
IDM 3204	Industrial Safety and Risk	
	Management	3
IDM 4201	Manufacturing Planning and Control	3
IDM 4203	Quality Management	3
IDM 4206	Industrial Environmental	
	Management	3

Insurance Management

INS 3101	Principles of Risk Management	
	and Insurance	3
INS 3201	Property Insurance	3
INS 3202	Casualty Insurance	3
INS 3301	Principles of Life Assurance	3
INS 4302	Accident, Group and Health	
	Insurance	3

Management

MGT 3915	Project Management	3
MGT 3917	Innovation and Change Management	3
MGT 3922	Introduction to New Ventures	3
MGT 4910	Productivity and Quality Management	3
MGT 4916	Negotiation Strategy	3

PLAN C – Major Elective Courses

Students pursuing PLAN C must select any five major elective courses.

MKT 3627	Sales Promotion	3
MKT 3628	Public Relations	3
MKT 3629	Pricing Strategy and Decisions	3
MKT 3803	Retail Management	3
MKT 3804	Fashion Marketing	3
MKT 3823	Marketing Channel Strategy	
	and Decisions	3
MKT 3830	Direct Marketing	3
MKT 3836	Merchandising and Promotion	3
MKT 3837	Service and Customer Relationship	
	Management	3
MKT 3838	Event Marketing	3
MKT 3840	Digital Marketing	3
MKT 4726	Advertising and Creative Strategy	3
MKT 4727	Integrated Media Planning	3
MKT 4805	Business-to-Business Marketing	3
MKT 4806	Product and Brand Management	3
MKT 4807	Agricultural Marketing	3
MKT 4808	Advanced Marketing Presentation	3
MKT 4809	Marketing for Services	3
MKT 4810	Export-Import Management	3
MKT 4811	Seminar in Marketing	3
MKT 4812	Individual Research	3
MKT 4826	Contemporary Logistics	3
MKT 4845	IMC Research	3
MKT 4848	Contemporary Issues in Marketing	3
MKT 4849	IMC Campaign Planning	3
MKT 4856	Brand Building Strategy	3
MKT 4857	Qualitative Research in Marketing	3
MKT 4897	Marketing Internship	3

MKT 4898	Seminar in Entrepreneurship		3
MKT 4899	IMC Internship		3
FIN 3715	Personal Finance		3
FIN 3724	Financial Feasibility Planning		3
HTM 3101	Introduction to Hospitality		
	Management		3
HTM 3102	Introduction to Tourism Manage	ment	3
C. Free Elective Courses 9 Credits			

Students can select courses of 9 credits which are provided by their faculty or by the different faculties upon completion of the prerequisite.

STUDY PLAN

First and Second Years (Freshmen and Sophomore) During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all the disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/her ability, background, and preferences.

Third and Fourth Years (Junior and Senior) During the junior and senior years, students who select the Marketing Major follow the Marketing program of studies: 1. Ten Major Required Courses 2. Five Concentration Courses Plan A: Major Concentration Courses Or Plan B: Business Concentration Courses Or Plan C: Major Elective Courses 3. Three Free Elective Courses

Assumption University of Thailand | Department of Marketing

FIRST YEAR First Semeste	er	
Course Code	e Course Title	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication Sk	kills
	(For international students)	3
	Total	19

Second Semester

Course Code	Course Title	Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
BG 1002	English II	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BG 2401	Microeconomics	3
BIS 1141	Business Software Applications	0
MGT 1101	Introduction to Business	3
	Total	18



THIRD YEAR

First Semester

Computer Tools in Research

Total

Second Semester

Principles of Electronic Commerce

Credits

0

3

3

3

3

3

3

18

Credits



Second Semester

FOURTH YEAR First Semester

Course Cod	e Course Title	Credits
MKT 4725	Competitive Analysis and Strategy	/ 3
MKT 4855	Research in Marketing Two Plan A or Plan B	3
	or Plan C Courses	6
	Two Free Elective Courses	6
	Total	18

Course Code	Course Title	Credits
MGT 4914	Entrepreneurship	3
MKT 4730	Marketing Management	3
MKT 4829	Marketing Decision Making	3
	One Plan A or Plan B	
	or Plan C Course	3
	One Free Elective Course	-
	Total	15

SECOND YEAR First Semester

Course Cod	e Course Title	Credits	Course Code	Course Title
ACT 2620	Fundamentals of Managerial		BIS 3340	Computer Tools in Rese
	Accounting	3	BIS 3587	Principles of Electronic
BG 2000	English III	3	FIN 3701	Corporate Finance
BG 2400	Macroeconomics	3	MKT 3102	Integrated Marketing
BIS 2180	Information Technology	3		Communications
MGT 2404	Managerial Psychology	3	MKT 3530	Consumer Behavior
MGT 2900	Principles of Management	3	MKT 3620	Global Marketing
				One Plan A or Plan B
	Total	18		or Plan C Course
				Total

Second Semester

Course Code	e Course Title Cr	edits	Course Code	e Course Title
BG 2001 FIN 2700	English IV Money, Banking and Financial	3	MGT 3905 MGT 3907	Operations Management Business Communication
	Markets	3	MGT 3940	Business Research Methodology
GE 2101	World Civilization	3	MKT 3515	Purchasing and Supply Chain
GE 2202	Ethics	3		Management
IBM 2702	International Business Environment	3	MKT 3525	Sales Management
MKT 2280	Principles of Marketing	3		One Plan A or Plan B
				or Plan C Course
	Total	18		
				Total

DEPARTMENT OF MANAGEMENT

Degree Conferred:	Bachelor of Business Administration (Management) B.B.A. (Management)
Program Objectives:	 To produce graduates who have the characteristics, knowledge and skills as follows: Have a base of good ethical and moral values. Have knowledge and pragmatic managerial skills appreciated by international organizations. Have entrepreneurial knowledge and skills and able to apply the management knowledge in finance, marketing, human resources, and information technology. Have responsibility and good relationships which makes them a good team player Have positive attitude, interpersonal, communication and presentation

• Have positive attitude, interpersonal, communication and presentation skills, IT skills and entrepreneurial skills

A. General Education Courses 40 Credits Language Courses 15 Credits -----BG 1001 English I 3 BG 1002 English II 3 BG 2000 English III 3 BG 2001 English IV 3 GE 1403 Communication in Thai 3 Language and Communication Skills or GE 1401 (For International students) 3 Social Science Courses 13 Credits BG 2400 Macroeconomics 3 BG 2401 Microeconomics 3 GE 1204 Physical Education 1 GE 2202 Ethics 3 MGT 1101 Introduction to Business 3 6 Credits Humanities Courses GE 2101 World Civilization 3 Managerial Psychology MGT 2404 3 Science and Mathematics Courses 6 Credits

Mathematics for Business

Environmental Science

BG 1200

GE 1301



B. Specialized Courses	93 Credits
Business Core Courses	48 Credits

ACT 1600	Fundamentals of Financial	3
ACT 2620	Accounting	2
ACT 2020	Fundamentals of Managerial Accounting	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BIS 1141	Business Software Applications	0
BIS 2180	Information Technology	3
BIS 3340	Computer Tools in Research	0
FIN 2700	Money, Banking and Financial	
	Markets	3
FIN 3701	Corporate Finance	3
IBM 2702	International Business	
	Environment	3
MGT 2900	Principles of Management	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
MGT 4914	Entrepreneurship	3
MKT 2280	Principles of Marketing	3

Major Requi	red Courses 30 Cre	dits
for All Conce Concentratio	ntrations Except Commerce	
BIS 4875	Strategic Technology Management	3
FIN 3714	Business Condition Analysis	3
FIN 4813	Financial Management	3
MKT 4730	Marketing Management	3
MGT 3903	Leadership	3
MGT 3923	Strategic Human Resources	2
MCT 2045	Management	3
MGT 3945	Managerial Decision Modeling	3
MGT 4910	Productivity and Quality	2
MGT 4911	Management	3
MGT 4911 MGT 4951	Seminar in Management Strategic Management	3 3
101 4951	Strategic Management	5
Major Requi	red Courses 30 Cre	dits
for Commer	ce Concentration	
BIS 3588	Digital Business Enterprise	3
FIN 3714	Business Condition Analysis	3
FIN 4813	Financial Management	3
MGT 3901	Organization Theory	3
MGT 3923	Strategic Human Resources	
	Management	3
MGT 3945	Managerial Decision Modeling	3
MGT 4910	Productivity and Quality	
	Management	3
MGT 4911	Seminar in Management	3
MGT 4951	Strategic Management	3
MKT 4730	Marketing Management	3

Concentration Courses

Students	must	choose	one	of	the	three	following
plans as tl	heir co	ncentrati	on co	urse	es.		
Plan A: Ma	ajor Co	ncentrati	on Co	ours	es	15	5 Credits
or Plan B:	Busine	ss Conce	ntrati	on			
Courses						15	5 Credits
or Plan C:	Major	Elective (Course	es		15	5 Credits

PLAN A – Major Concentration Courses 15 Credits

Students pursuing PLAN A must select one of the following a concentrations in the major area and study the five specified courses.

Assumption University of Thailand | Department of Management

MGT 3915	Project Management	3
MGT 3917	Innovation and Change	
	Management	3
MGT 3922	Introduction to New Ventures	3
MGT 3928	Management for Growth and	
	Sustainability	3
MGT 4806	Management	
	Internship (240 Hours)	3
Strategic Hu	man Resources Management	
MGT 3924	Human Resources Development	3
MGT 3924 MGT 3942	Human Resources Development Organizational Behavior	3 3
		-
MGT 3942	Organizational Behavior	-
MGT 3942	Organizational Behavior Compensation and Performance	3
MGT 3942 MGT 4926	Organizational Behavior Compensation and Performance Management	3
MGT 3942 MGT 4926	Organizational Behavior Compensation and Performance Management Employment Relations and	3
MGT 3942 MGT 4926 MGT 4928	Organizational Behavior Compensation and Performance Management Employment Relations and Labor Law	3
MGT 3942 MGT 4926 MGT 4928	Organizational Behavior Compensation and Performance Management Employment Relations and Labor Law Human Resources Management	3 3 3

Commerce (For ACC Campus only)

Entrepreneurial Management

MGT 4945	Cooperative Education (720 Hours)	9
MKT 3525	Sales Management	3
MKT 4810	Export-Import Management	3

PLAN B – Business Concentration Courses 15 Credits

Students pursuing PLAN B must select a concentration in other business areas and study five specified courses.

Business Information Systems

BIS 3315	Programming and Algorithms	3
BIS 3635	Database Systems	3
BIS 3655	Data Communications and	
	Networking	3
BIS 3666	Information Systems Analysis	з
	and Design	3
BIS 4675	Information Systems Project	
	Management	3

Finance and Banking

FIN 3711	Investment	3
FIN 3712	Money and Capital Markets	3
FIN 3713	Business Analysis and Valuation	3
FIN 4815	Bank Management	3
FIN 4832	Entrepreneurial Finance	3

3

3



Hospitality and Tourism Management

HTM 3101	Introduction to Hospitality		Stud
	Management	3	jor e
HTM 3102	Introduction to Tourism Management	3	
HTM 3103	Consumer Behavior in Hospitality		FIN 3
	and Tourism Industry	3	FIN 4
HTM 3205	Marketing for Hospitality and Tourism	3	MGT
HTM 3211	Food and Beverage Management	3	MGT
			MGT
Industrial Ma	nagement		MGT
IDM 3203	Logistics and Supply Chain		MGT
	Management	3	MGT
IDM 3204	Industrial Safety and Risk		MGT
	Management	3	MGT
IDM 4201	Manufacturing Planning and Control	3	
IDM 4203	Quality Management	3	MGT
IDM 4206	Industrial Environmental		MGT
	Management	3	MGT
Insurance			MGT
			MGT
INS 3101	Principles of Risk Management		MGT
	and Insurance	3	MGT
INS 3201	Property Insurance	3	
INS 3202	Casualty Insurance	3	MGT
INS 3301	Principles of Life Assurance	3	MGT
INS 4302	Accident, Group and Health		
	Insurance	3	MGT
Marketing			MGT
			МКТ
MKT 3525	Sales Management	3	
MKT 3530	Consumer Behavior	3	MKT
MKT 3620	Global Marketing	3	MKT
MKT 4725	Competitive Analysis and Strategy	3	MKT
MKT 4809	Marketing for Services	3	MKT
Real Estate			C. Fr
REM 3111	Principles of Real Estate	3	Stud
REM 3112	Real Estate Law	3	its f
REM 3113	Real Estate Economics	3	com
REM 3114	Building Design and Construction		
	Techniques	3	Reco
REM 3211	Principles of Real Estate		Com
	Development	3	
			CN 0
			CN C
			MKT

PLAN C – Major Elective Courses

Students pursing PLAN C must select any five of major elective courses.

FIN 3724	Financial Feasibility Planning	3
FIN 4832	Entrepreneurial Finance	3
MGT 3801	Modern Office Management	3
MGT 3901	Organization Theory	3
MGT 3915	Project Management	3
MGT 3917	Innovation and Change	
	Management	3
MGT 3918	Sport Management	3
MGT 3922	Introduction to New Venture	3
MGT 3924	Human Resources Development	3
MGT 3928	Management for Growth and	
	Sustainability	3
MGT 3942	Organizational Behavior	3
MGT 4501	Wealth Management	3
MGT 4806	Management Internship	
	(240 Hours)	3
MGT 4909	Communication in Management	3
MGT 4912	Individual Research	3
MGT 4916	Negotiation Strategy	3
MGT 4926	Compensation and Performance	
	Management	3
MGT 4927	Human Resources Planning	3
MGT 4928	Employment Relations and	
	Labor Law	3
MGT 4943	Organizational Development	3
MGT 4946	Human Resources Management	
	Internship (240 Hours)	3
MKT 3102	Integrated Marketing	
	Communications	3
MKT 3525	Sales Management	3
MKT 3803	Retail Management	3
MKT 4805	Business-to-Business Marketing	3
MKT 4810	Export – Import Management	3

- C. Free Elective Courses 9 Credits
- Students can select free elective courses of 9 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

Recommended Free Elective Courses for Commerce Concentration

-	U	1		Ľ		e	:1	C	e	-	U	1	10	- "	2		ιι	1	a	u	U	1	1											
		-	-	-	-	-	-			 -	-	-	-	-	-	-					-	-	-	-	-	-	-	-	-	 	 	 	 	

CN 0400	Chinese for Beginners I	3
CN 0401	Chinese for Beginners II	3
MKT 3515	Purchasing and Supply Chain	
	Management	3

STUDY PLAN

First and Second Year (Freshmen and Sophomore) During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/her ability, background, and preferences.

Third and Fourth Year (Junior and Senior) During the junior and senior years, students who select the Management Major follow the program as mentioned below:

- Ten Major Required Courses
 Five Concentration Courses
 Plan A: Major Concentration Courses
 Or Plan B: Business Concentration Courses
- Or Plan C: Major Elective Courses
- 3. Three Free Elective Courses

FIRST YEAR First Semeste	r	
Course Code	Course Title	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication	n Skills
	(For international students)	3
	Total	19

Second Semester						
Course Code	Course Title	Credits				
ACT 1600	Fundamentals of Financial					
	Accounting	3				
BG 1002	English II	3				
BG 1401	Business Law II	3				
BG 2200	Statistics II	3				
BG 2401	Microeconomics	3				
BIS 1141	Business Software Applications	0				
MGT 1101	Introduction to Business	3				
	Total	18				

Assumption University of Thailand | Department of Management





1) Third and Fourth Year of Study for All Concentrations except Commerce Concentration

Credits

0

3

3

3

3

18

SECOND YEAI First Semester	r		THIRD YEAR First Semester	r	
Course Code	Course Title	Credits	Course Code	Course Title	Cr
ACT 2620 BG 2000 BG 2400 BIS 2180 MGT 2404 MGT 2900		3 3 3 3 3 3 18	BIS 3340 FIN 3701 MGT 3903 MGT 3905 MGT 3923	Corporate Finance Leadership	
Second Seme	ster		Second Seme	ster	
Course Code	Course Title	Credits	Course Code	Course Title	Cr
BG 2001 FIN 2700 GE 2202	English IV Money, Banking and Financial Markets Ethics World Civilization	3 3 3	BIS 4875 FIN 3714 MGT 3907 MGT 3940	Business Condition Analysis Business Communication	

DG 2001	English IV	2	BIS 4875
FIN 2700	Money, Banking and Financial		FIN 3714
	Markets	3	MGT 3907
GE 2202	Ethics	3	MGT 3940
GE 2101	World Civilization	3	MGT 3945
IBM 2702	International Business Environment	3	
MKT 2280	Principles of Marketing	3	
	Total	18	

11110/01	corporater married		-
MGT 3903	Leadership		3
MGT 3905	Operations Management		3
MGT 3923	Strategic Human Resources		
	Management		3
	One Plan A OR Plan B		
	OR Plan C Course		3
	One Free Elective Course		3
	Total	1	8
Second Seme	ster		
Course Code	Course Title	Credit	S
BIS 4875	Strategic Technology Manageme	ent	3
FIN 3714	Business Condition Analysis		3
MGT 3907	Business Communication		3

Managerial Decision Modeling

Total

One Plan A / Plan B / Plan C Course

FOURTH YEAI First Semester		
Course Code	Course Title	Credits
FIN 4813 MGT 4910	Financial Management Productivity and Quality	3
	Management	3
MGT 4914	Entrepreneurship	3
MKT 4730	Marketing Management	3
	One Plan A / Plan B / Plan C Cour	
	One Free Elective Course	3
	Total	18
Second Seme	ster	
Course Code	Course Title	Credits
MGT 4911	Seminar in Management	3
MGT 4951	Strategic Management	3
	One Plan A / Plan B / Plan C Cou	rse 3
	One Plan A / Plan B /Plan C Cou	rse 3
	One Free Elective Course	3
	Total	15

2) Third and Fourth Year of Study for Commerce Concentration

THIRD YEAR First Semester		
Course Code	Course Title	Credits
BIS 3340	Computer Tools in Research	0
FIN 3701	Corporate Finance	3
MGT 3901	Organization Theory	3
MGT 3905	Operations Management	3
MGT 3923	Strategic Human Resources	
	Management	3
MGT 3940	Business Research Methodology	/ 3
	One Free Elective Course	3
	Total	18
Second Seme		

Second Semester

Course Code	Course Title	Credits
BIS 3588 FIN 3714 MGT 3907 MGT 3945 MKT 3525 MGT 4910	Digital Business Enterprise Business Condition Analysis Business Communication Managerial Decision Modeling Sales Management Productivity and Quality Management	3 3 3 3 3 3
	Total	18

Summer Session

Course Code	Course Title	Credits
MKT 4810	Export-Import Management One Free Elective Course	3 3
	Total	6



FOURTH YEAR

Course Code	Course Title	Credits
MGT 4945	Co-operative Education (720 Hou	rs) 9
	Total	9

Second Semester

Course Code	Course Title	 Credits FIN 4813Finan-
cial Managem	nent 3	· · · · · · · · · · · · · · · ·
MGT 4911	Seminar in Management	3
MGT 4951	Strategic Management	3
MGT 4914	Entrepreneurialship	3
MKT 4730	Marketing Management	3
	One Free Elective Course	3
Total	18	





DEPARTMENT OF FINANCE AND BANKING

Bachelor of Business Administration (Finance and Banking) Degree Conferred: B.B.A. (Finance and Banking)

Program Objectives: To produce graduates who have the characteristics, knowledge and skills as follows:

40 Credits

15 Credits

- Have theoretical financial principles, analytical tools, and practical knowledge for making ethical and sound financial decisions
- Develop a critical vision towards making successful strategic decisions in the business and the finance industries
- Enhance a solid financial knowledge and analytical skills required for successful business professions, further studies as well as professional accreditations
- Have ethical and moral behavior, positive attitude and thinking, interpersonal and leadership skills, communication and presentation skills, IT skills and entrepreneurial skills

A. General Education Courses Language Courses

BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication (For International students)	Skills 3
Social Scienc	e Courses	13 Credits

BG 2400	Macroeconomics	3
BG 2401	Microeconomics	3
GE 1204	Physical Education	1
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
Humanities	Courses	6 Credits
GE 2101	World Civilization	- 3
		-
MGT 2404	Managerial Psychology	3
Science and	Mathematics Courses	6 Credits
BG 1200	Mathematics for Business	- 3
GE 1301	Environmental Science	3
GE 1501	Environmental Science	2



B. Specialize Business Co		<mark>3 Credits</mark> 3 Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BIS 1141	Business Software Applications	0
BIS 2180	Information Technology	3
BIS 3340	Computer Tools in Research	0
FIN 2700	Money, Banking and Financial	
	Markets	3
FIN 3701	Corporate Finance	3
IBM 2702	International Business Environme	ent 3
MGT 2900	Principles of Management	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
MGT 4914	Entrepreneurship	3
MKT 2280	Principles of Marketing	3

Major Requ	ired Courses	30 Credits
BIS 3589	Analysis Tools in Finance and	
	Accounting	3
FIN 3711	Investment	3
FIN 3713	Business Analysis and Valuatior	n 3
FIN 3714	Business Condition Analysis	3
FIN 4812	International Finance	3
FIN 4813	Financial Management	3
FIN 4815	Bank Management	3
FIN 4911	Quantitative Analysis of Financ	ial
	Decision	3
FIN 4921	Corporate Strategy and Financi	ial
	Policies	3
FIN 4922	Derivatives Securities	3
Concentrat	ion	15 Credits
Students must choose one of the three following		

st choose one of the three plans as their concentration courses. Plan A: Major Concentration Courses 15 Credits or Plan B: Business Concentration 15 Credits Courses or Plan C: Major Elective Courses 15 Credits



Assumption University of Thailand | Department of Finance and Banking

15 Credits

3

3

courses.	ajor area and study the five specified	
Investment		
FIN 3727	Real Estate Investment Analysis and Valuation	3
FINI 2720		-
FIN 3728	Fixed Income Securities	3
FIN 4811	Risk Management	3

Students pursuing PLAN A must select a concentra-

tion in the major area and study the five specified

PLAN A – Major Concentration Courses

FIN 4817	Portfolio Management and Security
	Analysis
FIN 4818	Seminar in Investment

Corporate Financial Management

Financial Feasibility Planning	3
Financial Statement Analysis	3
Risk Management	3
Contemporary Issues in Finance	3
Advanced Financial Management	3
	Financial Statement Analysis Risk Management Contemporary Issues in Finance

PLAN B – Business Concentration Courses 15 Credits

Students pursuing PLAN B must select a concentration in other business areas and study the five specified courses.

Accounting

ACT 3602	Intermediate Accounting I	3
ACT 3603	Intermediate Accounting II	3
ACT 3614	Taxation I	3
ACT 3622	Cost Accounting	3
ACT 3629	Profits Planning and Control	3

Business Information Systems

BIS 3315	Programming and Algorithms	3
BIS 3635	Database Systems	3
BIS 3655	Data Communications and	
	Networking	3
BIS 3666	Information Systems Analysis and	
	Design	3
BIS 4675	Information Systems Project	
	Management	3

Assumption University of Thailand | Department of Finance and Banking

Credits

3

3

3

3

3

3

18

International Business Management

	5	
IBM 3711	Comparative Management	3
IBM 3713	International Management	3
IBM 3714	Export-Import Policy and Strategy	3
IBM 4811	International Strategic Management	3
MKT 3620	Global Marketing	3
Industrial M	anagement	
IDM 3203	Logistics and Supply Chain	
	Management	3
IDM 3204	Industrial Safety and Risk	
1014 4204	Management	3
IDM 4201	Manufacturing Planning and Control	3
IDM 4203	Quality Management	3
IDM 4206	Industrial Environmental	2
	Management	3
Insurance		
INS 3101	Principles of Risk Management and	
	Insurance	3
INS 3201	Property Insurance	3
INS 3202	Casualty Insurance	3
INS 3301	Principles of Life Assurance	3
INS 4302	Accident, Group and Health	
	Insurance	3
Managemer	nt	
MGT 3915	Project Management	3
MGT 3917	Innovation and Change Management	3
MGT 3922	Introduction to New Ventures	3
MGT 4910	Productivity and Quality Management	3
MGT 4916	Negotiation Strategy	3
Marketing		

MKT 3525 MKT 3530	Sales Management Consumer Behavior
MKT 4725	Competitive Analysis and Strategy
MKT 4730	Marketing Management
MKT 4809	Marketing for Services

Real Estate

3
3
3
3

PLAN C – Major Elective Courses

Students pu major elect	ursuing PLAN C must select any five ive courses.	
BIS 3348	Principles of Multimedia	3
BIS 3588	Digital Business Enterprises	3
BIS 3687	Electronic Banking and Payment	
	Systems	3
ECO 3715	Introduction to Econometrics	3
ECO 3722	Business Cycles and Forecasting	3
FIN 3715	Personal Finance	3
FIN 3716	Export-Import Procedure and	
	Financing	3
FIN 3723	Central Banking System and Policy	3
FIN 3724	Financial Feasibility Planning	3
FIN 3725	Managerial Economics	3
FIN 3726	Financial Statement Analysis	3
FIN 3727	Real Estate Investment Analysis and	
	Valuation	3
FIN 3728	Fixed Income Securities	3
FIN 3733	Institutional Banking for Emerging	
	Markets	3
FIN 3734	Financial Mathematics	3
FIN 4721	Laws and Practices in Finance	3
FIN 4811	Risk Management	3
FIN 4817	Portfolio Management and Security	
	Analysis	3
FIN 4818	Seminar in Investment	3
FIN 4819	Contemporary Issues in Finance	3
FIN 4821	Behavioral Finance	3
FIN 4822	Individual Research	3
FIN 4832	Entrepreneurial Finance	3
FIN 4833	Wealth Management	3
FIN 4923	Advanced Valuation	3
FIN 4924	Advanced Financial Management	3
FIN 4925	Introduction to Modeling	3
REM 3213	Real Estate Appraisal	3

- C. Free Elective Courses 9 Credits
- Students can take free elective courses of 9 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

STUDY PLAN

First and Second Year (Freshmen and Sophomore) During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/her ability, background, and preferences.

Third and Fourth Year (Junior and Senior) During the junior and senior years, students who select the Finance and Banking Major follow the Fi- nance and Banking program of studies: 1. Ten Major Required Courses 2. Five Concentration Courses Plan A: Major Concentration Courses
Plan A: Major Concentration Courses Or Plan B: Business Concentration Courses
Or Plan C: Major Elective Courses
3. Three Free Elective Courses

FIRST YEAR First Semester

Course Code Course Title Credits BG 1001 English I BG 1200 Mathematics for Business BG 1201 Statistics I BG 1400 Business Law I GE 1204 **Physical Education** GE 1301 **Environmental Science** GE 1403 Communication in Thai or GE 1401 Language and Communication Skills (For international students)

Total

Second Semester

Course Code Course Title		Credits	
ACT 1600	Fundamentals of Financial		
	Accounting	3	
BG 1002	English II	3	
BG 1401	Business Law II	3	
BG 2200	Statistics II	3	
BG 2401	Microeconomics	3	
BIS 1141	Business Software Applications	0	
MGT 1101	Introduction to Business	3	
Total		18	

First Semester				
Course Code	e Course Title			
ACT 2620	Fundamentals of Managerial Accounting			
BG 2000	English III			
BG 2400	Macroeconomics			

Information Technology

Managerial Psychology

Principles of Management

Second Semester

Total

SECOND YEAR

BIS 2180

MGT 2404

MGT 2900

Course Code Course Title Cre		Credits
BG 2001 FIN 2700	English IV Money, Banking and Financial	3
	Markets	3
GE 2101	World Civilization	3
GE 2202	Ethics	3
IBM 2702	International Business Environme	nt 3
MKT 2280	Principles of Marketing	3
Total		18

3

3

3

3

19

3 3

3

3 3



THIRD YEAR First Semester

Course Code Course Title		Credits	
BIS 3340 BIS 3589	Computer Tools in Research Analysis Tools in Finance and	0	
	Accounting	3	
FIN 3701	Corporate Finance	3	
FIN 3714	Business Condition Analysis	3	
MGT 3905	Operations Management	3	
MGT 3907	Business Communication	3	
	One Free Elective Course	3	
Total		18	

FOURTH YEAR

First Semester			
Course Cod	Credits		
FIN 4812	International Finance	3	
FIN 4813	Financial Management	3	
FIN 4815	Bank Management	3	
FIN 4911	Quantitative Analysis of Financial		
	Decisions	3	
	Two Plan A / Plan B / Plan C Courses	s 6	
Total		18	

Second Semester

Course Code Course Title Co		
FIN 3711 FIN 3713 MGT 3940	Investment Business Analysis and Valuation Business Research Methodology Two Plan A / Plan B / Plan C Courses One Free Elective Course	3 3 3 6 3
Total		

Second Semester

Course Code Course Title Credits			
 FIN 4921	Corporate Strategies and Financia	al	
	Policies	3	
FIN 4922	Derivatives Securities	3	
MGT 4914	Entrepreneurship	3	
	One Plan A / Plan B / Plan C Course	2 3	
	One Free Elective Course	3	
Total		15	



DEPARTMENT OF ACCOUNTING

Degree Conferred: Bachelor of Business Administration (Accounting) B.B.A. (Accounting) Program Objectives: To produce graduates who have the characteristics, knowledge and skills as follows: • Morally sound, committed to acting justly and open to further growth. • Have knowledge of accounting principles; possess analytical tools and

- practical knowledge and skills to make sound accounting decision • Flexible, competent and well-rounded in confronting and solving accounting, financing, and related business problems.
- Able to apply accounting principles in the practice of their profession.
- Able to work as a team and motivate others to work.

• Have positive attitude towards the accounting professions, interpersonal, calculation, analytical, communication and presentation skills, and IT skills

A. General Education Courses 40 Credits Language Courses 15 Credits

BG 1001	English I	3	
BG 1002	English II	3	
BG 2000	English III	3	
BG 2001	English IV	3	
GE 1403	Communication in Thai	3	
or GE 1401	or GE 1401 Language and Communication Skills		
	(For International students)	3	
Control Cotore	Capiel Caises of Courses 12 Credite		

Social Scien	ce Courses	13 Credits
BG 2400	Macroeconomics	3
BG 2401	Microeconomics	3
GE 1204	Physical Education	1
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
Humanities	6 Credits	
GE 2101	World Civilization	3
MGT 2404	Managerial Psychology	3
Science and	6 Credits	
BG 1200	Mathematics for Business	3
GE 1301	Environmental Science	3



	<mark>5 Credits</mark> 3 Credits
Fundamentals of Financial	
Accounting	3
Fundamentals of Managerial	
Accounting	3
Statistics I	3
Business Law I	3
Business Law II	3
Statistics II	3
Business Software Applications	0
Information Technology	3
Computer Tools in Research	0
Money, Banking and Financial	
Markets	3
Corporate Finance	3
International Business Environme	ent 3
Principles of Management	3
Operations Management	3
Business Communication	3
Business Research Methodology	3
	re Courses 48 Fundamentals of Financial Accounting Fundamentals of Managerial Accounting Statistics I Business Law I Business Law I Statistics II Business Software Applications Information Technology Computer Tools in Research Money, Banking and Financial Markets Corporate Finance International Business Environme Principles of Management Operations Management Business Communication

MGT 4914 Entrepreneurship

Principles of Marketing

MKT 2280

d Courses	96 Credits

3

3

ACT 3602	Intermediate Accounting I	3
ACT 3002	Intermediate Accounting I	2
ACT 3603	Intermediate Accounting II	3
ACT 3608	Financial Report and	
	Financial Statement Analysis	3
ACT 3614	Taxation I	3
ACT 3615	Taxation II	3
ACT 3622	Cost Accounting	3
ACT 3643	Auditing	3
ACT 3644	Internal Control and Audit	3
ACT 4607	Advanced Accounting I	3
ACT 4608	Advanced Accounting II	3
ACT 4611	Seminar in Accounting	3

36 Credits

3

Others

Accounting Information Systems **Concentration Courses**

Major Required Courses

following plans
12 Credits
12 Credits

PLAN A: MAJOR CONCENTRATION COURSES

Students	must	choose	one	of	the	four	following
tracks as t	heir ma	ajor conc	entrat	ion	cours	ses.	
Track A: A	uditing					12	2 Credits
OR Track E	B: Finan	cial Acco	untin	g		12	2 Credits
OR Track O	C: Mana	gerial Ac	count	ing		12	2 Credits
OR Track [D: Othe	rs				12	2 Credits

Auditing

ACT 4646

ACT 4641	Problems in Auditing	3
ACT 4643	Seminar in Auditing	3
ACT 4648	EDP Auditing	3
ACT 4649	Accounting Internship (135 Hours)	3

Financial Accounting

International Accounting	3
Accounting Theory	3
Accounting Software Package	3
Accounting Internship (135 Hours)	3
	Accounting Theory Accounting Software Package

Managerial Accounting

ACT 3623	Cost Management	3
ACT 3629	Profits Planning and Control	3
ACT 4624	Seminar in Management	
	Accounting	3
ACT 4647	Accounting Software Package	3

Assumption University of Thailand | Department of Accounting

Students pursuing Track D must select four major elective courses.

Code	Subjects	Credits
ACT 3606	Public Sector and Fund Accountir	ng 3
ACT 3623	Cost Management	3
ACT 3624	Real Estate Accounting	3
ACT 3625	Hospital Accounting	3
ACT 3626	Hotel Accounting	3
ACT 3629	Profits Planning and Control	3
ACT 4605	International Accounting	3
ACT 4609	Accounting Theory	3
ACT 4612	Independent Study	3
ACT 4624	Seminar in Management	
	Accounting	3
ACT 4641	Problems in Auditing	3
ACT 4643	Seminar in Auditing	3
ACT 4647	Accounting Software Package	3
ACT 4648	EDP Auditing	3
ACT 4649	Accounting Internship (135 Hours	s) 3

PLAN B – Business Concentration Courses

Students pursuing PLAN B must select a concentration in other business areas and study the specified courses.

12 Credits

Business Information Systems

3IS 3315	Programming and Algorithms	3
3IS 3635	Database Systems	3
3IS 3655	Data Communications and	
	Networking	3
3IS 3666	Information Systems Analysis	
	and Design	3

Finance and Banking

FIN 3711	Investment	3
FIN 3713	Business Analysis and Valuation	3
FIN 4813	Financial Management	3
FIN 4815	Bank Management	3



3

3

3

3

6 Credits

Hospitality and Tourism Management

HTM 3101	Introduction to Hospitality	
	Management	3
HTM 3102	Introduction to Tourism Management	3
HTM 3103	Consumer Behavior in Hospitality	
	and Tourism Industry	3
HTM 3205	Marketing for Hospitality and Tourism	3
HTM 3211	Food and Beverage Management	3

Marketing

MKT 3525	Sales Management
MKT 3530	Consumer Behavior
MKT 4725	Competitive Analysis and Strategy
MKT 4730	Marketing Management

C. Free Elective Courses

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

STUDY PLAN

First and Second Year (Freshmen and Sophomore) During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study

plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all the disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/her ability, background, and preferences.

Third and Fourth Year (Junior and Senior) During the junior and senior year, students who select the Accounting Major follow the Accounting program of studies:

- Twelve Major Required Courses
- Four Concentration Courses
- Plan A: Major Concentration Courses OR Plan B: Business Concentration Courses
- Two Free Elective Courses

FIRST YEAR First Semester

Code	Subjects	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication S	Skills
	(For international students)	3
	Total	19

			c .
6	CO	nd	Semester

Code	Subjects	Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
BG 1002	English II	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BG 2401	Microeconomics	3
BIS 1141	Business Software Applications	0
MGT 1101	Introduction to Business	3
	Total	18

SECOND YEAR First Semester Code Subjects Credits ACT 2620 Fundamentals of Managerial Accounting BG 2000 English III BG 2400 Macroeconomics Information Technology BIS 2180 MGT 2404 Managerial Psychology MGT 2900 Principles of Management Total

Code	Subjects	Credi
ACT 3602	Intermediate Accounting I	
ACT 3603	Intermediate Accounting II	
ACT 3608	Financial Report and Financial	
	Statement Analysis	
ACT 3614	Taxation I	
ACT 3622	Cost Accounting	
BIS 3340	Computer Tools in Research	
FIN 3701	Corporate Finance	
	Total	1

THIRD YEAR

3

3

3

3

3

3

18

Second Semester				
Code	Subjects 0	Credits		
BG 2001 FIN 2700	English IV Money, Banking and Financial	3		
	Markets	3		
GE 2101	World Civilization	3		
GE 2202	Ethics	3		
IBM 2702	International Business Environmer	nt 3		
MKT 2280	Principles of Marketing	3		
	Total	18		

Second Semester				
Code	Subjects	Credits		
ACT 3615	Taxation II	3		
ACT 3643	Auditing	3		
ACT 3644	Internal Control and Audit	3		
MGT 3905	Operations Management	3		
MGT 3907	Business Communication	3		
MGT 3940	Business Research Methodology	3		
	Total	18		

FOURTH YEA			0
Code	Subjects	Credits	(
ACT 4607 ACT 4608 ACT 4646	Advanced Accounting I Advanced Accounting I Advanced Accounting II Accounting Information Systems	3 3 3	/
MGT 4914	Entrepreneurship Two Plan A / Plan B Course	3 6	-
	Total	18	-

Second Semester

Code	Subjects	Credits
ACT 4611	Seminar in Accounting Two Plan A / Plan B Course Two Free Elective Course	3 6 6
	Total	15

Assumption University of Thailand | Department of Accounting

DEPARTMENT OF BUSINESS INFORMATION SYSTEMS

Degree Conferred:	Bachelor of Business Administration (Business Information Systems) B.B.A. (Business Information Systems)
Program Objectives:	 To produce graduates who have the characteristics, knowledge and skills as follows: Morally sound, committed to acting justly and open to further growth. Have knowledge and thorough understanding of concepts, frameworks, principles, theories and necessary technical skills to work as a full potential business information systems professional. Able to understand and apply technology knowledge to every aspect of the management and the organization. Able to interpret information, make business analysis and forecasting useful for business decision making. Flexible, competent and well-rounded in confronting and solving business problems. Able to work as a team and motivate others to work. Have positive attitude, interpersonal, communication and presentation skills, IT skills and entrepreneurial skills.

Language Courses		40 Credits 15 Credits	B. Specialized Courses Business Core Courses		96 Credits 45 Credits	
BG 1001	English I	3	ACT 1600	Fundamentals of Financial		
BG 1002		3		Accounting	3	
BG 2000	English III	3	ACT 2620	Fundamentals of Managerial		
BG 2001	English IV	3		Accounting	3	
GE 1403	Communication in Thai	3	BG 1201	Statistics I	3	
or GE 1401	Language and Communicat	ion Skills	BG 1400	Business Law I	3	
	(For International students)	3	BG 1401	Business Law II	3	
			BG 2200	Statistics II	3	
Social Science Courses		13 Credits	BIS 1141	Business Software Applications	0	
			BIS 3340	Computer Tools in Research	0	
BG 2400	Macroeconomics	3	FIN 2700	Money, Banking and Financial		
BG 2401	Microeconomics	3		Markets	3	
GE 1204	Physical Education	1	FIN 3701	Corporate Finance	3	
GE 2202	Ethics	3	IBM 2702	International Business Environme	ent 3	
MGT 1101	Introduction to Business	3	MGT 2900	Principles of Management	3	
			MGT 3905	Operations Management	3	
Humanities	Courses	6 Credits	MGT 3907	Business Communication	3	
			MGT 3940	Business Research Methodology	3	
GE 2101	World Civilization	3	MGT 4914	Entrepreneurship	3	
MGT 2404	Managerial Psychology	3	MKT 2280	Principles of Marketing	3	
Science and	Mathematics Courses	6 Credits				
BG 1200	Mathematics for Business	3				

BG 1200	Mathematics for Business
GE 1301	Environmental Science

Assumption University of Thailand | Department of Business Information Systems

Major Required Courses		42 Credits
BIS 2180	Information Technology	- 3
BIS 3315	Programming and Algorithms	3
BIS 3348	Principles of Multimedia	3
BIS 3516	Object-Oriented Programming	j 3
BIS 3617	Web Design and Programming	j 3
BIS 3635	Database Systems	3
BIS 3655	Data Communications and	
	Networking	3
BIS 3666	Information Systems Analysis	
	and Design	3
BIS 4625	Computer Organization	3
BIS 4675	Information Systems Project	
	Management	3
BIS 4697	Current Topics in Business	
	Information Systems	3
BIS 4787	Data Structure	3
BIS 4858	Information Systems Security	3
BIS 4996	BIS Senior Project	3
Major Electiv	ve Courses	9 Credits

following. BIS 3567	Human Computer Interaction	3
BIS 3577	Online Media for Business	3
BIS 3587	Principles of Electronic Commerce	3
BIS 3588	Digital Business Enterprise	3
BIS 3589	Analysis Tools in Finance and	
	Accounting	3
BIS 3618	Selected Programming Language	3
BIS 3647	Digital VDO Editing	3
BIS 3687	Electronic Banking and Payment	
	Systems	3
BIS 4698	Selected Topics in Business	
	Information Systems	3
BIS 4699	Advanced Topics in Business	
	Information Systems	3
BIS 4718	Web Applications Development	3
BIS 4747	Graphics and Animation	3
BIS 4748	3-D Modeling and Animation	3
BIS 4758	Local Area Network	3
BIS 4766	Business Process Reengineering	3
BIS 4788	Data Warehouse and Data Mining	3
BIS 4789	Mobile Applications	3
BIS 4848	Integrated Multimedia Applications	3

BIS 4875	Strategic Technology Management	3
BIS 4878	Software Risk Management	3
BIS 4886	Business Information Systems	
	Directed Study I	3
BIS 4887	Business Information Systems	
	Directed Study II	3
BIS 4897	Seminar in Business Information	
	Systems	3
TS 4261	Internetworking Workshop I	4
TS 4262	Internetworking Workshop II	4

C. Free Elective Courses 6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).



STUDY PLAN

First and Second Year (Freshmen and Sophomore) During the freshmen year, all students in Martin de Tours

School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all the disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/her ability, background, and career preferences.

Third and Fourth Year (Junior and Senior)

During the junior and senior years, students who select the Business Information Systems Major follow the Business Information Systems program of studies:

- 1. Fourteen Major Required Courses
- 2. Three Major Elective Courses
- 3. Two Free Elective Courses

FIRST YEAR

First Semester

Course Code	e Course Title	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication Sk	ills
	(For international students)	3
	Total	19

Second Semester

Course Code Course Title			
ACT 1600	Fundamentals of Financial		
BG 1002	Accounting English II		

BG 1401	Business Law II
BG 2200	Statistics II
BG 2401	Microeconomics
BIS 1141	Business Software Applications
MGT 1101	Introduction to Business
	Total

SECOND YEAR First Semester

Course Code	e Course Title	Credits
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 2000	English III	3
BG 2400	Macroeconomics	3
BIS 2180	Information Technology	3
MGT 2404	Managerial Psychology	3
MGT 2900	Principles of Management	3
	Total	18

Second Semester

Course Cod	e Course Title Cre	dits
BG 2001	English IV	3
FIN 2700	Money, Banking and Financial	
	Markets	3
GE 2101	World Civilization	3
GE 2202	Ethics	3
IBM 2702	International Business Environment	3
MKT 2280	Principles of Marketing	3
	Total	18



FOURTH YEAR

First Semester

Course Code	Course Title	Cradita		
Second Semester				
	Total	18		
	One Major Elective Course	3		
FIN 3701	Corporate Finance	3		
BIS 3635	Database Systems	3		
BIS 3617	Web Design and Programming	3		
BIS 3348	Principles of Multimedia	3		
BIS 3340	Computer Tools in Research	0		
BIS 3315	Programming and Algorithms	3		
Course Code	Course Title	Credits		
THIRD YEAR First Semester				

Course Cod	e Course Title	Credits
BIS 4625	Computer Organization	3
BIS 4675	Information Systems Project	
	Management	3
BIS 4697	Current Topics in Business	
	Information Systems	3
BIS 4787	Data Structure	3
MGT 4914	Entrepreneurship	3
	One Major Elective Course	3
	Total	18
Second Sen	nester	
Course Cod	e Course Title	Credits

Course Code Course Title		Credits
BIS 3516 BIS 3655	Object-Oriented Programming Data Communications and	3
210 0 000	Networking	3
BIS 3666	Information System Analysis and	
	Design	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
	Total	18

Second Ser		
Course Coc	Credits	
BIS 4858 BIS 4996	Information Systems Security BIS Senior Project One Major Elective Course One Free Elective Course One Free Elective Course	3 3 3 3 3
	Total	15

Credits

3 3

DEPARTMENT OF HOSPITALITY & TOURISM MANAGEMENT

Degree Conferred:	Bachelor of Business Administration (Hospitality and Tourism Management) B.B.A. (Hospitality and Tourism Management)
Program Objectives:	 To produce graduates who have the characteristics, knowledge and skills as follows: Morally sound, committed to acting justly and open to further growth Posses knowledge of the principles and theories of hospitality and tourism management. Understand and have awareness of hospitality and tourism management professional standards and ethics Able to apply analytical tools and conceptual frameworks to solve business problems. Equipped with necessary leadership, managerial, and technical skills needed in today's organizations Able to work as a team and motivate others to work Have positive attitude, interpersonal, communication and presentation skills. IT skills and entrepreneurial skills

<mark>A. General E</mark> Language C	40 Credits 15 Credits	
 BG 1001	English I	 3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication (For International students)	on Skills 3
Social Scien	ce Courses	13 Credits
BG 2400	Macroeconomics	3
BG 2401	Microeconomics	3
GE 1204	Physical Education	1
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
Humanities	Courses	6 Credits
GE 2101	World Civilization	3
MGT 2404	Managerial Psychology	3
Science and	Mathematics Courses	6 Credits

Mathematics for Business

Environmental Science

BG 1200

GE 1301



B. Specialized Courses93 CredBusiness Core Courses48 Cred		
ACT 1600	Fundamentals of Financial	
	Accounting	3
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BIS 1141	Business Software Applications	0
BIS 2180	Information Technology	3
BIS 3340	Computer Tools in Research	0
FIN 2700	Money, Banking and	
	Financial Markets	3
FIN 3701	Corporate Finance	3
IBM 2702	International Business Environme	ent 3
MGT 2900	Principles of Management	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3

MGT 3940 MGT 4914 MKT 2280	Business Research Methodo Entrepreneurship Principles of Marketing	ology	3 3 3	PLAN B -
Major Requi	1 5	30 Crec	-	Students specified
HTM 3001	Sustainable Tourism Business Operation and Lea	adarshin	3	HTM 440 HTM 440
HTM 3002	in Hospitality and Tourism	aceisiiib	3	HTM 440
HTM 3101	Hospitality and Tourism Introduction to Hospitality		3	HTM 440 HTM 440
HTM 3102	Management Introduction to Tourism		3	PLAN C -
HTM 3103	Management Consumer Behavior in Hosp	oitality	3	Students
HTM 3204	and Tourism Industry Human Resource Managem		3	tration ir specified
HTM 3205	in Hospitality and Tourism Marketing in Hospitality		3	Business
HTM 3211	and Tourism Food and Beverage Manage	ement	3 3	BIS 3315
HTM 4210	Strategic Management in Hospitality and Tourism		3	BIS 3635 BIS 3655
Concentratio	on Courses			BIS 3666
	ust choose one of the three fo ir concentration course.	llowing		BIS 4675
Plan A:	Concentration Courses in Hospitality Management	15 Cred	lite	Internati
Or Plan B:	Concentration Courses in Tourism Management	15 Cred		IBM 3711 IBM 3713
Or Plan C:	Business Concentration Courses	15 Crec		IBM 3714 IBM 3714 IBM 4811 MKT 362
PLAN A –	Concentration Courses in Hospitality Management	15 Credits	5	Manager

Students pursuing PLAN A must study the five specified courses.

HTM 4111	Food and Beverage Service
HTM 4112	Kitchen Operation
HTM 4301	Room Division Management
HTM 4302	Event Management
HTM 4303	Service Management

Assumption University of Thailand | Department of Hospitality and Tourism Management

	Tourism Management 15 Credits	
Students pu specified co	rsuing PLAN B must study the five	
HTM 4401	Tourism Policy and Development	3
HTM 4402	Tourism Destination Management	3
HTM 4403	Tour Guiding and Operation in Practice	3
HTM 4404	Cultural Heritage Tourism	3
HTM 4405	International Tourism Studies	3
PLAN C –	Business Concentration Courses	
specified co Business Inf	urses. ormation System	
BIS 3315	Programming and Algorithms	3
BIS 3635	Database Systems	3
BIS 3655	Data Communications and	
	Networking	3
BIS 3666	Information Systems Analysis	
	and Design	3
BIS 4675	Information Systems Project	2
	management	3
Internationa	al Business Management	
IBM 3711	Comparative Management	3
IBM 3713	International Management	3
IBM 3714	Export-Import Policy and Strategy	3
IBM 4811	International Strategic Management	3
MKT 3620	Global Marketing	3
Managemer	nt	
MGT 3915	Project Management	3
MGT 3917	Innovation and Change	
	Management	3
MGT 3922	Introduction to New Ventures	3

MGT 4910 Productivity and Quality

MGT 4916 Negotiation Strategy

Management

3

3

3

3

3

3

3

3



9 Credits

Assumption University of Thailand | Department of Hospitality and Tourism Management

Marketing

MKT 3525	Sales Management	3
MKT 3530	Consumer Behavior	3
MKT 4725	Comparative Analysis and Strategy	3
MKT 4730	Marketing Management	3
MKT 4809	Marketing for Services	3

C. Free Elective Courses

Students can take free elective courses of 9 credits from any faculty in Assumption University upon completion of the pre-requisites (if any).

STUDY PLAN

First and Second Year (Freshmen and Sophomore) During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all the disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/her ability, background, and preferences.

Third and Fourth Year (Junior and Senior) During the junior and senior years, students who select the Hospitality and Tourism Management Major follow the Hospitality and Tourism Management program of studies:

1. Ten Major Required Courses			
2. Five Conce	ntration Courses		
Plan A: Major Concentration Courses in			
	Hospitality Management		
Or Plan B:	Major Concentration Courses in		
	Tourism Management		
Or Plan C:	Business Concentration Courses		
3. Three Free Elective Courses			

FIRST YEAR First Semeste	r	
Course Code	Course Title	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication Sk	ills
	(For international students)	3
	Total	19

Course Code	Course Title	Crec
ACT 2620	Fundamentals of Managerial	
	Accounting	
BG 2000	English III	
BG 2400	Macroeconomics	
BIS 2180	Information Technology	
MGT 2404	Managerial Psychology	
MGT 2900	Principles of Management	

Money, Banking and Financial Markets

Principles of Marketing

International Business Environment 3

World Civilization

Credits

3

3

3

3

3

Second Semester			Second Semester	
Course Code Course Title		Credits	Course Code Course T	
ACT 1600	Fundamentals of Financial		BG 2001	English IV
	Accounting	3	FIN 2700	Money, Bank
BG 1002	English II	3		Financial Ma
BG 1401	Business Law II	3	GE 2101	World Civiliza
BG 2200	Statistics II	3	GE 2202	Ethics
BG 2401	Microeconomics	3	IBM 2702	International
BIS 1141	Business Software Applications	0	MKT 2280	Principles of
MGT 1101	Introduction to Business	3		
				Total
	Total	18		



THIRD YEAR First Semester

First Semeste	r 	
Course Code	Course Title	Credits
BIS 3340	Computer Tools in Research	0
FIN 3701	Corporate Finance	3
HTM 3101	Introduction to Hospitality	
	Management	3
HTM 3102	Introduction to Tourism	
	Management	3
HTM 3103	Consumer Behavior in	
	Hospitality and Tourism Industry	3
	Two Free Elective Courses	6
	Total	18

Second Semester

Course Code	Course Title	Credits
MGT 3905 MGT 3907 MGT 3940 HTM 3211 HTM 3001 HTM 3205	Operations Management Business Communication Business Research Methodology Food and Beverage Management Sustainable Tourism Marketing in Hospitality and Tourism	3 3 3 3 3 3 3
	Total	18

FOURTH YEA First Semeste		
Course Code	Course Title	Credits
HTM 3002	Business Operation and Leadership in Hospitality	
	and Tourism	3
HTM 3003	Information Technology in	
	Hospitality and Tourism	3
HTM 3204	Human Resource Management in	n
	Hospitality and Tourism	3
HTM 4210	Strategic Management in	
	Hospitality and Tourism	3
	Two Plan A / Plan B / Plan C Courses	6
		0
	Total	18

Course Code	Course Title	Credits
MGT 4914	Entrepreneurship Three Plan A / Plan B /	3
	Plan C Courses	9
	One Free Elective Course	3
	Total	15



DEPARTMENT OF INTERNATIONAL BUSINESS MANAGEMENT

Degree Conferred:	Bachelor of Business Administration (International Business Management) B.B.A. (International Business Management)
Program Objectives:	 To produce graduates who have the characteristics, knowledge and skills as follows: Morally sound, committed to acting justly and open to further growth. Have knowledge of the principles and theories in the functional areas and able to apply with respect to international business, Possess analytical tools and practical knowledge to acquire proficiency in international business from an interdisciplinary perspective Able to apply analytical tools and conceptual frameworks to solve business problems. Able to work as a team and motivate others to work.

 Have positive attitude, interpersonal, communication and presentation skills, IT skills and entrepreneurial skills.

B. Spec

A. General E Language Co	ducation Courses ourses	40 Credits 15 Credits
BG 1001	English I	. 3
BG 1002	English II	3
BG 2000	5	3
BG 2001	5	3
GE 1403	5	3
or GE 1401	Language and Communication	on Skills
	(For International students)	3
Social Science	ce Courses	13 Credits
BG 2400	Macroeconomics	3
BG 2401	Microeconomics	3
GE 1204	Physical Education	1
GE 2202	-	3
MGT 1101	Introduction to Business	3
Humanities	Courses	6 Credits
GE 2101	World Civilization	3
MGT 2404	Managerial Psychology	3
Science and	Mathematics Courses	6 Credits
BG 1200	Mathematics for Business	3
GE 1301	Environmental Science	3

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B. Specialized Courses	93 Credits
Business Core Courses	48 Credits

ACT 1600	Fundamentals of Financial	
	Accounting	3
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BIS 1141	Business Software Applications	0
BIS 2180	Information Technology	3
BIS 3340	Computer Tools in Research	0
FIN 2700	Money, Banking and Financial	
	Markets	3
FIN 3701	Corporate Finance	3
IBM 2702	International Business Environment	3
MGT 2900	Principles of Management	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
MGT 4914	Entrepreneurship	3
MKT 2280	Principles of Marketing	3

Assumption University of Thailand | Department of International Business Management

Accounting

Major Required Courses

BIS 3588	Digital Business Enterprise	3
FIN 4812	International Finance	3
MKT 3620	Global Marketing	3
IBM 3711	Comparative Management	3
IBM 3713	International Management	3
IBM 3714	Export-Import Policy and Strategy	3
IBM 4711	International Human Resource	
	Management	3
IBM 4715	Designing and Managing Global	
	Operations	3
IBM 4809	International Business Research	3
IBM 4811	International Strategic Management	3

30 Credits

Concentration Courses

Students must choose one of the three following plans as their concentration courses.

Plan A: Major Concentration Courses	15 Credits
Or Plan B: Business Concentration Courses	15 Credits
Or Plan C: Major Elective/Foreign	
Language Courses	15 Credits

PLAN A:

Major Concentration Courses 15 Credits Students pursuing PLAN A must select the concentration in the major area and study the five specified courses.

International Marketing

IBM 3642	International Buyer Behavior
IBM 3643	International Marketing
	Communications
IBM 3841	International Pricing Strategy
IBM 4840	Global Supply Chain
	Management
IBM 4843	International Product and Brand Planning

PLAN B:

Business Concentration Courses 15 Credits Students pursuing PLAN B must select a concentration in other business areas and study the five specified courses.

ACT 3602 ACT 3603 ACT 3614 ACT 3622 ACT 3629	Intermediate Accounting I Intermediate Accounting II Taxation I Cost Accounting Profits Planning and Control
Business Inf	ormation Systems
BIS 3315 BIS 3635 BIS 3655 BIS 3666 BIS 4675	Programming and Algorithms Database Systems Data Communications and Networking Information Systems Analysis and Design Information Systems Project Management

3

3 3

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3

Finance and Banking

FIN 3711	Investment	3	
FIN 3712	Money and Capital Markets	3	
FIN 3713	Business Analysis		
	and Valuation	3	
FIN 4813	Financial Management	3	
FIN 4815	Bank Management	3	

Hospitality and Tourism Management

MKT 4730 Marketing Management

MKT 4809 Marketing for Services

HTM 3101	Introduction to Hospitality	-
	Management	3
HTM 3102	Introduction to Tourism Management	3
HTM 3103	Consumer Behavior in Hospitality	
	and Tourism Industry	3
HTM 3205	Marketing for Hospitality and Tourism	3
HTM 3211	Food and Beverage Management	3
Marketing		
MKT 3525	Sales Management	3
MKT 3530	Consumer Behavior	3
MKT 4725	Comparative Analysis and	
	Strategy	3
	bildieg)	

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PLAN C: MAJOR ELECTIVE COURSES / FOREIGN LANGUAGE COURSES

Students pursuing PLAN C must select any five major elective/foreign Language courses.

ACT 4605	International Accounting
BIS 3587	Principles of Electronic
	Commerce
ECO 3716	International Trade
FIN 3724	Financial Feasibility Planning
IBM 3642	International Buyer Behavior
IBM 3643	International Marketing
	Communications
IBM 3722	Legal and Ethical Issues in
	International Business
IBM 3723	International Relations
IBM 3841	International Pricing Strategy
IBM 4820	International Cooperative
	Strategies
IBM 4840	Global Supply Chain
	Management
IBM 4841	International Services Marketing
IBM 4843	International Product and
	Brand Planning
IBM 4921	Individual Research
IBM 4923	Seminar in Regional Studies
MGT 4916	Negotiation Strategy

Business French

Introduction to French
French I
French II
Basic Conversation in
Business French I
Basic Writing in Business
French I

Business Chinese

CN 0400	Chinese for Beginners I	3
CN 0401	Chinese for Beginners II	3
CN 1400	Introduction to Chinese	3
CN 1401	Chinese I	3
CN 2401	Chinese II	3
Business Ja	ipanese	
JA 1700	Introduction to Japanese	3
JA 1701	Japanese I	3
JA 2701	Japanese II	3
JA 2702	Japanese III	3
	One Elective Course	3
Any cours	e form the Business Japanese	e Department
upon comp	pletion of the prerequisites (if an	ny)
	dia Campanya	O Caralita
L FLEE FLEC	ctive Courses	9 Credits

Students can take free elective courses of 9 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

Assumption University of Thailand | Department of International Business Management

STUDY PLAN

First and Second Year (Freshmen and Sophomore) During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/ her ability, background, and preferences.

Third and Fourth Year (Junior and Senior)

During the junior and senior years, students who select the International Business Management Major follow the International Business Management program of studies:

1. Ten Major Required Courses

2. Five Concentration Courses

Plan A: Major Concentration Courses

Or Plan B: Business Concentration Courses

Or Plan C: Major Elective Courses

3. Three Free Elective Courses

FIRST YEAR First Semest	er	
Code	Subjects	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication S	Skills
	(For international students)	3
	Total	19

Fundamentals of Financial

Business Software Applications

Introduction to Business

First Semester ------Code Subjects

SECOND YEAR

ACT 2620 Fundamentals of Managerial Accounting 3 BG 2000 English III 3 BG 2400 Macroeconomics 3 Information Technology BIS 2180 3 Managerial Psychology MGT 2404 3 Principles of Management MGT 2900 3 Total 18 Second Semester Code Subjects Credits BG 2001 English IV 3 FIN 2700 Money, Banking and Financial Markets 3 GE 2101 World Civilization 3 GE 2202 Ethics 3 IBM 2702 International Business Environment 3 MKT 2280 Principles of Marketing 3 Total 18

Credits

Total

Second Semester

Subjects

Accounting

Business Law II

Microeconomics

English II

Statistics II

Code

ACT 1600

BG 1002

BG 1401

BG 2200

BG 2401

BIS 1141

MGT 1101

-80-

Credits

3

3

3

3

3

0



THIRD YEAR First Semester

Code	Code Subjects		
BIS 3340 BIS 3588 FIN 3701 IBM 3711 MKT 3620	 Computer Tools in Research Digital Business Enterprise Corporate Finance Comparative Management 		
	Total	18	

Second Semester

Code	Subjects	Credits
IBM 3713	International Management	3
IBM 3714	Export-Import Policy	
	and Strategy	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research	
	Methodology	3
	One Plan A / Plan B /	
	Plan C Course	3
	Total	18

FOURTH YEAR First Semester

Code	Code Subjects		
FIN 48 IBM 47		ernational Finance ernational Human	3
	Res	source Management	3
IBM 47		signing and Managing Ibal Operations	3
IBM 48		ernational Business Research e Plan A / Plan B /	3
	Pla	n C Course	3
	On	e Free Elective Courses	3
	Tot	al	18

Code	Subjects	Credits
IBM 4811	International Strategic	
	Management	3
MGT 4914	Entrepreneurship	3
	One Plan A / Plan B /	
	Plan C Course	3
	One Free Elective Course	3
	One Free Elective Course	3
	Total	15



DEPARTMENT OF INDUSTRIAL MANAGEMENT

Conferred:	Bachelor of Business Administration (Industrial Management) B.B.A. (Industrial Management)
n Objectives:	 To produce graduates who have the characteristics, knowledge and skills as follows Morally sound, committed to acting justly and open to further growth Posses knowledge of the principles and theories in the functional areas and able to apply with respect to industry. Possess analytical tools and practical knowledge to acquire proficiency in industry from an interdisciplinary perspective. Able to apply analytical tools and conceptual frameworks to solve business problems.

- Able to work as a team and motivate others to work.
- Have positive attitude, interpersonal, communication and presentation skills, IT skills and entrepreneurial skills.

		40 Credits 15 Credits	
BG 1001	English I	3	
BG 1002	English II	3	
BG 2000		3	
BG 2001	English IV	3	
GE 1403	Communication in Thai	3	
or GE 1401	Language and Communication	n Skills	
	(For International students)	3	
Social Scien	ce Courses	13 Credits	
BG 2400	Macroeconomics	- 3	
BG 2401	Microeconomics	3	
GE 1204	Physical Education	1	
GE 2202	Ethics	3	
MGT 1101	Introduction to Business	3	
Humanities	Humanities Courses 6 Credits		
GE 2101	World Civilization	- 3	
MGT 2404	Managerial Psychology	3	
Science and Mathematics Courses 6 C			
BG 1200	Mathematics for Business	- 3	
GE 1301	Environmental Science	3	

Degree 0

Program



	all barren
B. Specialized Courses	93 Credits
Business Core Courses	48 Credits

ACT 1600	Fundamentals of Financial	
	Accounting	3
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BIS 1141	Business Software Applications	0
BIS 2180	Information Technology	3
BIS 3340	Computer Tools in Research	0
FIN 2700	Money, Banking and Financial	
	Markets	3
FIN 3701	Corporate Finance	3
IBM 2702	International Business Environment	3
MGT 2900	Principles of Management	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
MGT 4914	Entrepreneurship	3
MKT 2280	Principles of Marketing	3

Major Requ	ired Courses 30	Credits
IDM 3200	Quantitative Analysis	3
IDM 3203	Logistics and Supply Chain	
	Management	3
IDM 3204	Industrial Safety and Risk	
	Management	3
IDM 4201	Manufacturing Planning and Cont	trol 3
IDM 4202	Production Costing and Budgetin	g 3
IDM 4203	Quality Management	3
IDM 4206	Industrial Environmental Manager	ment 3
IDM 4208	Project Analysis and Management	t 3
IDM 4302	Industrial Strategic Management	3
IDM 4501	Seminar in Industrial Managemen	it 3
Concentration Courses 15 Credits		

Student must choose one of the three following plans as their concentration courses.

Plan A: Major Concentration Courses Or Plan B: Business Concentration Courses Or Plan C: Major Elective Courses

PLAN A – Major Concentration Courses

Students pursuing PLAN A must select one of the two following concentrations in the major area and study the five specified courses.

Logistics and Supply Chain Management

IDM 4401

IDM 3306	Warehousing and Material Handling	3
IDM 3307	Transportation and Distribution Management	3
IDM 3308	Supply Chain Relationship	3
IDM 4301	Management Information Technology in Supply	2
	Chain	3
MKT 3515	Purchasing and Supply Chain	
	Management	3
Manufactur	ing Management	
IDM 3202	Motion and Time Study	3
IDM 3402	Facility Management	3
IDM 3403 IDM 4301	Industrial Engineering Management Information Technology in Supply	3
	Chain	3

Technology and Innovation

Management

Students pursuing PLAN B must select a concentration in other business areas and study the five specified courses.

PLAN B – Business Concentration Courses

Accounting

ACT 3602	Intermediate Accounting I	3
ACT 3603	Intermediate Accounting II	3
ACT 3614	Taxation I	3
ACT 3622	Cost Accounting	3
ACT 3629	Profits Planning and Control	3

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Business Information Systems

В	IS 3315	Programming and Algorithms	3
В	IS 3635	Database Systems	3
В	IS 3655	Data Communications and	
		Networking	3
В	IS 3666	Information Systems Analysis	
		and Design	3
В	IS 4675	Information Systems Project	
		Management	3

Finance and Banking

C			
,	FIN 3711	Investment	3
	FIN 3712	Money and Capital Markets	3
	FIN 3713	Business Analysis and Valuation	3
	FIN 4813	Financial Management	3
	FIN 4815	Bank Management	3
3			
	Hospitality	and Tourism Management	
3			
	HTM 3101	Introduction to Hospitality	
3		Management	3
	HTM 3102	Introduction to Tourism Management	3
3	HTM 3103	Consumer Behavior in Hospitality	
		and Tourism Industry	3
3	HTM 3205	Marketing for Hospitality and Tourism	3
	HTM 3211	Food and Beverage Management	3
	Insurance		
3			
3	INS 3101	Principles of Risk Management and	
3		Insurance	3
	INS 3201	Property Insurance	3
3	INS 3202	Casualty Insurance	3
	INS 3301	Principles of Life Assurance	3
3	INS 4302	Accident, Group and Health	
		Insurance	3



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International Business Management

IBM 3711 Comparative Management 3 IBM 3713 International Management 3 IBM 3714 Export-Import Policy and Strategy 3 IBM 4811 International Strategic Management 3 MKT 3620 Global Marketing 3 Marketing MKT 3525 Sales Management 3 MKT 3530 Consumer Behavior 3 MKT 4725 Competitive Analysis and Strategy 3 MKT 4730 Marketing Management 3 MKT 4809 Marketing for Services 3 Real Estate REM 3111 Principles of Real Estate 3 3

REM 3112	Real Estate Law
REM 3113	Real Estate Economics
REM 3114	Building Design and Construction
	Techniques
REM 3211	Principles of Real Estate
	Development

PLAN C – Major Elective Courses

Students pursuing PLAN C must select any five courses from the following list.

IDM 3202	Motion and Time Study	3
IDM 3306	Warehousing and Material Handling	3
IDM 3307	Transportation and Distribution	
	Management	3
IDM 3308	Supply Chain Relationship	
	Management	3
IDM 3402	Facility Management	3
IDM 3403	Industrial Engineering Management	3
IDM 4207	Internship in Industrial	
	Management (300 Hours)	3
IDM 4301	Information Technology in Supply	
	Chain	3
IDM 4401	Technology and Innovation	
	Management	3
MGT 3903	Leadership	3
MGT 3942	Organizational Behavior	3
MGT 4916	Negotiation Strategy	3
MGT 4928	Employment Relations and Labor Law	3
MKT 3515	Purchasing and Supply Chain	
	Management	3
MKT 3530	Consumer Behavior	3

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ИКТ 3803	Retail Management		3
ΛКТ 4730	Marketing Management		3
ЛКТ 4806	Product and Brand Managemen	it	3
ИКТ 4810	Export-Import Management		3
	juage Courses		
Business Chir	nese		
IN 0400	Chinese for Beginners I		3
CN 0401	Chinese for Beginners II		3
CN 1400	Introduction to Chinese		3
CN1401	Chinese I		3
IN 2401	Chinese II		3
Business Frer	nch		
R 1500	Introduction to French		3
R 1501	French I		3
R 2501	French II		3
R 3535	Basic Conversation in Business		
	French I		3
R 3536	Basic Writing in Business French	I	3
Business Japa	anese		
A 1700	Introduction to Japanese		3
A 1701	Japanese I		3
A 2701	Japanese II		3
A 2702	Japanese III		3
One Elec	tive Course		3
C. Free Electi	ve Courses	9 Credi	ts
tudonts can	take free elective courses of 0 cr	odite	

Students can take free elective courses of 9 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

Assumption University of Thailand	Department of Industrial Management

STUDY PLAN

First and Second Year (Freshmen and Sophomore) During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all the disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/her ability, background, and career preferences.

Third and Fourth Year (Junior and Senior) During the junior and senior years, students who select the Industrial Management Major follow the Industrial Management program of studies:

- 1. Ten Major Required Courses
- 2. Five Concentration Courses
- Plan A: Major Concentration Courses
- or Plan B: Business Concentration Courses or Plan C: Major Elective Courses
- 3. Three Free Elective Courses

FIRST YEAR

First	Semester

Course Code	Course Title	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication Ski	ills
	(For international students)	3
	Total	19

SECOND YEAR First Semester

e Course Title	Credits
Fundamentals of Managerial	
Accounting	3
English III	3
Macroeconomics	3
Information Technology	3
Managerial Psychology	3
Principles of Management	3
Total	18
	Fundamentals of Managerial Accounting English III Macroeconomics Information Technology Managerial Psychology Principles of Management

Second Semester

Course Code	e Course Title	Credits
BG 2001 FIN 2700	English IV Money, Banking and Financial	3
	Markets	3
GE 2101	World Civilization	3
GE 2202	Ethics	3
MKT 3905	Operations Management	3
MKT 2280	Principles of Marketing	3
	Total	18

Course Cod	e Course Title	Credits	
ACT 1600	Fundamentals of Financial Accountir	ng 3	
BG 1002	English II	3	
BG 1401	Business Law II	3	
BG 2200	Statistics II	3	
BG 2401	Microeconomics	3	
BIS 1141	Business Software Applications	0	
MGT 1101	Introduction to Business	3	
	Total	18	



THIRD YEAR First Semester

Course Code	Course Title	Credits
BIS 3340	Computer Tools in Research	0
FIN 3701	Corporate Finance	3
IBM 2702	International Business Environmer	nt 3
MGT 3907	Business Communication	3
IDM 3200	Quantitative Analysis	3
IDM 3203	Logistics and Supply Chain	
	Management	3
IDM 3204	Industrial Safety and Risk	
	Management	3
	Total	18

FOURTH YE First Semes		
Course Cod	e Course Title Cr	edits
IDM 4206 IDM 4208	Industrial Environmental Management Project Analysis and Management One Plan A / Plan B / Plan C Course One Plan A / Plan B / Plan C Course One Plan A / Plan B / Plan C Course	3 3 3 3 3
	One Free Elective Course	3
	Total	18

Course Cod	e Course Title C	redits	Сс
IDM 4201	Manufacturing Planning and Contro	ol 3	Μ
IDM 4202	Production Costing and Budgeting	3	ID
IDM 4203	Quality Management	3	ID
MGT 3940	Business Research Methodology	3	
	One Plan A / Plan B / Plan C Course	3	
	One Plan A / Plan B / Plan C Course	3	
	Total	18	

Second Semester	
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Course Cod	e Course Title	Credits
MGT 4914	Entrepreneurship	3
IDM 4302	Industrial Strategic Management	3
IDM 4501	Seminar in Industrial Management	t 3
	Two Free Elective Courses	6
	Total	15



DEPARTMENT OF REAL ESTATE

Degree Conferred:	Bachelor of Business Administration (Real Estate) B.B.A. (Real Estate)
Program Objectives:	 To produce graduates who have the characteristics, knowledge and skills as follows: Morally sound, committed to acting justly and open to further growth. Possess knowledge of real estate principles and essential methods, analytical minds and practical knowledge to make sound real estate business decision Demonstrate flexibility in different situations and competence in confronting and solving business problems. Able to work as a team and motivate others to work. Have positive attitude, interpersonal, communication and presentation skills, IT skills and entrepreneurial skills

A. General E Language Co	ducation Courses	40 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1401		
	(For International students)	3
Social Science	ce Courses	13 Credits
BG 2400	Macroeconomics	3
BG 2401	Microeconomics	3
GE 1204	Physical Education	1
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
Humanities	Courses	6 Credits
GE 2101	World Civilization	3
MGT 2404	Managerial Psychology	3
Science and	Mathematics Courses	6 Credits
BG 1200	Mathematics for Business	3
GE 1301	Environmental Science	3



B. Specialized Courses93 CrediBusiness Core Courses48 Credi	
Fundamentals of Financial	
Accounting	3
Fundamentals of Managerial	
Accounting	3
Statistics I	3
Business Law I	3
Business Law II	3
Statistics II	3
Business Software Applications	0
Information Technology	3
Computer Tools in Research	0
Money, Banking and	
Financial Markets	3
Corporate Finance	3
International Business Environme	ent 3
Principles of Management	3
Operations Management	3
Business Communication	3
Business Research Methodology	3
Entrepreneurship	3
Principles of Marketing	3
	Courses 48 C Fundamentals of Financial Accounting Fundamentals of Managerial Accounting Statistics I Business Law I Business Law I Statistics II Business Software Applications Information Technology Computer Tools in Research Money, Banking and Financial Markets Corporate Finance International Business Environme Principles of Management Operations Management Business Communication Business Research Methodology Entrepreneurship

Major Required Courses		30 Credits	
REM 3111	Principles of Real Estate	3	
REM 3112	Real Estate Law	3	
REM 3113	Real Estate Economics	3	
REM 3114	Building Design and Constr	uction	
	Techniques	3	
REM 3211	Principles of Real Estate		
	Development	3	
REM 3212	Real Estate Finance	3	
REM 3213	Real Estate Appraisal	3	
REM 3214	Principles of Real Estate		
	Investment Analysis	3	
REM 4112	Computer Applications in		
	Real Estate	3	
REM 4113	Principles of Property		
	Management	3	

Concentration Courses			
Students must choose one of the three following plans as their concentration courses.			
Plan A:	Major Concentration		
Or Plan B:	Courses Business Concentration	15 Credits	
	Courses	15 Credits	
Or Plan C:	Major Elective Courses	15 Credits	

PLAN A – Major Concentration Courses 15 Credits

Students pursuing PLAN A must select one of the three following concentrations in the major area and study the five specified courses.

Real Estate Development

REM 4131	Real Estate Project Management	3
REM 4132	Advanced Real Estate Investment	
	Analysis	3
REM 4191	Seminar in Real Estate Business	3
REM 4231	Real Estate Marketing and	
	Brokerage Management	3
REM 4381	Internship in Real Estate	
	Business (300 hours)	3
B		

Property Valuation

REM 4141	Advanced Real Estate Appraisal	3
REM 4142	Professional Appraisal	
	Practice and Ethics	3
REM 4192	Seminar in Property Valuation	3
REM 4241	Valuation for Special Purposes	3
REM 4382	Internship in Real Estate	
	Appraisal (300 hours)	3

Assumption University of Thailand | Department of Real Estate

3

REM 4152	Facilities Operations and	5
	Maintenance	3
REM 4193	Seminar in Property Managen	
REM 4251	Income-producing Property	
	Management	3
REM 4383	Internship in Property	
	Management (300 hours)	3
PLAN B – Bus	iness Concentration Courses 1	5 Credits
tration in ot specified co	rsuing PLAN B must select a cono her business areas and study the urses.	
Accounting		
ACT 3602	Intermediate Accounting I	3
ACT 3603	Intermediate Accounting II	3
ACT 3614	Taxation I	3
ACT 3622	Cost Accounting	3
ACT 3629	Profits Planning and Control	3
Business Eco	onomics	
ECO 3711	Intermediate Microeconomics	5 3
ECO 3712	Intermediate Macroeconomic	s 3
ECO 3716	International Trade	3
ECO 4711	International Macroeconomic	s 3
ECO 4726	Business and Government	3
Business Info	ormation Systems	
BIS 3315	Programming and Algorithms	3

Busin

Property Management

Corporate Real Estate

Management

REM 4151

BIS 331	Progra	mming and Algorithms	3
BIS 363	Databa	ase Systems	3
BIS 365	Data C	ommunications and	
	Netwo	orking	3
BIS 366	Inform	ation Systems Analysis	
	and De	esign	3
BIS 467	Inform	ation Systems Project	
	Manag	gement	3

Finance and Banking

FIN 3711	Investment	3
FIN 3712	Money and Capital Markets	3
FIN 3713	Business Analysis and Valuation	3
FIN 4813	Financial Management	3
FIN 4815	Bank Management	3

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STUDY PLAN

First and Second Year (Freshmen and Sophomore) During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all the disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/her ability, background, and career preferences.

Third and Fourth Year (Junior and Senior) During the junior and senior years, students who select the Real Estate Major follow the Real Estate program of studies:

1. Ten Major Required Courses 2. Five Concentration Courses Plan A: Major Concentration Courses or Plan B: Business Concentration Courses or Plan C: Major Elective Courses 3. Three Free Elective Courses

FIRST YEAR First Semester		
Course Code	Course Title	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication	n Skills
	(For international students)	3
	Total	19

Second Semester

Course Code	Course Title	Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
BG 1002	English II	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BG 2401	Microeconomics	3
BIS 1141	Business Software Applications	0
MGT 1101	Introduction to Business	3
	Total	18

Hospitality and Tourism Management

HTM 3101	Introduction to Hospitality	
	Management	3
HTM 3102	Introduction to Tourism Management	3
HTM 3103	Consumer Behavior in Hospitality	
	and Tourism Industry	1
HTM 3205	Marketing for Hospitality and Tourism	3
HTM 3211	Food and Beverage Management	3

Industrial Management

IDM 3203	Logistics and Supply Chain Management	3
IDM 3204	Industrial Safety and Risk Management	3
IDM 4201	Manufacturing Planning	0
	and Control	3
IDM 4203	Quality Management	3
IDM 4206	Industrial Environmental	
	Management	3
Insurance		
Insurance INS 3101	Principles of Risk Management	
	Principles of Risk Management and Insurance	3
	1 3	3
 INS 3101	and Insurance	-
INS 3101	and Insurance Property Insurance Casualty Insurance	3
INS 3101 INS 3201 INS 3202 INS 3301	and Insurance Property Insurance Casualty Insurance Principles of Life Assurance	3
INS 3101 INS 3201 INS 3202	and Insurance Property Insurance Casualty Insurance Principles of Life Assurance Accident, Group and Health	3 3 3
INS 3101 INS 3201 INS 3202 INS 3301	and Insurance Property Insurance Casualty Insurance Principles of Life Assurance	3

International Business Management

IBM 3711 IBM 3713 IBM 3714 IBM 4811 MKT 3620 Management	Comparative Management International Management Export-Import Policy and Strategy International Strategic Management Global Marketing
MGT 3915 MGT 3917 MGT 3922 MGT 4910	Project Management Innovation and Change Management Introduction to New Ventures Productivity and Quality Management
MGT 4916 Marketing MKT 3525	Negotiation Strategy Sales Management

MKT 3530 **Consumer Behavior** MKT 4725 Competitive Analysis and Strategy MKT 4730 Marketing Management MKT 4809 Marketing for Services

3

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PLAN C – Major Elective Courses

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Students pursuing PLAN C must select any five major elective courses.

REM 4131	Real Estate Project Managemen	
REM 4132	Advanced Real Estate Investmer	nt
	Analysis	3
REM 4141	Advanced Real Estate Appraisal	3
REM 4142	Professional Appraisal Practice	
	and Ethics	3
REM 4151	Corporate Real Estate	
	Management	3
REM 4152	Facilities Operations and	
	Maintenance	3
REM 4191	Seminar in Real Estate Business	3
REM 4192	Seminar in Property Valuation	3
REM 4193	Seminar in Property Manageme	nt 3
REM 4221	Directed Study in Real Estate	3
REM 4222	Capital Markets Related to Real	
	Estate Business	3
REM 4231	Real Estate Marketing and	
	Brokerage Management	3
REM 4241	Valuation for Special Purposes	3
REM 4251	Income-producing Property	
	Management	3
REM 4381	Internship in Real Estate	
	Business (300 hours)	3
REM 4382	Internship in Real Estate	
	Appraisal (300 hours)	3
REM 4383	Internship in Property	
	Management (300 hours)	3
C. Free El. 1		Currelite
C. Free Electi	ve courses 9	Credits

Students can take free elective courses of 9 credits from any faculty in Assumption University upon completion of the prerequisites (if any).



SECOND YEAR First Semester

Course Code	Course Title	Credits
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 2000	English III	3
BG 2400	Macroeconomics	3
BIS 2180	Information Technology	3
MGT 2404	Managerial Psychology	3
MGT 2900	Principles of Management	3
	Total	18

Total

Course Code	Course Title	Credits	
BG 2001	English IV	3	
FIN 2700	Money, Banking and Financial		
	Markets	3	
GE 2202	Ethics	3	
GE 2101	World Civilization	3	
IBM 2702	International Business		
	Environment	3	
MKT 2280	Principles of Marketing	3	

THIRD YEAR First Semester

Course Code	Course Title	Credits
BIS 3340	Computer Tools in Research	0
FIN 3701	Corporate Finance	3
MGT 3905	Operations Management	3
REM 3111	Principles of Real Estate	3
REM 3112	Real Estate Law	3
REM 3113	Real Estate Economics	3
REM 3114	Building Design and Constructi	on
	Techniques	3
	Total	18

Second Semester

Course Code	Course Title	Credits
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	/ 3
REM 3211	Principles of Real Estate	
	Development	3
REM 3212	Real Estate Finance	3
REM 3213	Real Estate Appraisal	3
REM 4113	Principles of Property	
	Management	3
	Total	18

FOURTH YEAR First Semester Course Code **Course Title** Credits REM 3214 Principles of Real Estate Investment Analysis 3 REM 4112 Computer Applications in Real Estate 3 One Free Elective Course 3 One Plan A / Plan B / Plan C Course 3 One Plan A / Plan B / Plan C Course 3 One Plan A / Plan B / Plan C Course 3 Total 18 Second Semester

REM 4381 Internship in Real Estate Business (300 hours) or REM 4382 Internship in Real Estate Appraisal (300 hours) or REM 4383 Internship in Property Management (300 hours) Total

Course Title

* Plan A – Internship in Summer Session

Summer Session (Only for Plan A)

Course Code

Course Code	Course Title	Credits
MGT 4914	Entrepreneurship One Plan A / Plan B / Plan C Cou One Plan B / Plan C Course* One Free Elective Course One Free Elective Course	3 Irse 3 3 3 3 3
	Total	15 or 12

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Assumption University of Thailand | Department of Real Estate

Credits

3

3

3

DEPARTMENT OF INSURANCE

Degree Conferred:	Bachelor of Business Administration (Insurance) B.B.A. (Insurance)
Program Objectives:	 To produce graduates who have the characteristics, knowledge and skills as follows: Morally sound, committed to acting justly and open to further growth. Possess knowledge of the principles and theories of insurance and able to apply them to insurance business, Understand and have awareness of insurance professional standards and ethics. Able to apply analytical tools and conceptual frameworks to solve business problems.

- Able to work as a team and motivate others to work.
- Have positive attitude, interpersonal, communication and presentation skills, IT skills and entrepreneurial skills.

		40 Credits 15 Credits
BG 1001	English I	3
BG 1002	5	3
BG 2000		3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1401 Language and Communication Skills		on Skills
	(For International students)	3
Social Scien	ce Courses	13 Credits
BG 2400	Macroeconomics	3
BG 2401	Microeconomics	3
	Physical Education	1
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
Humanities	Courses	6 Credits
GE 2101	World Civilization	3
MGT 2404	Managerial Psychology	3
Science and	Mathematics Courses	6 Credits
	Mathematics for Business	3
GE 1301	Environmental Science	3



B. Specialized Courses	93 Credits
Business Core Courses	48 Credits

ACT 1600	Fundamentals of Financial	
	Accounting	3
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BIS 1141	Business Software Applications	0
BIS 2180	Information Technology	3
BIS 3340	Computer Tools in Research	0
FIN 2700	Money, Banking and Financial	
	Markets	3
FIN 3701	Corporate Finance	3
IBM 2702	International Business Environment	3
MGT 2900	Principles of Management	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
MGT 4914	Entrepreneurship	3
MKT 2280	Principles of Marketing	3

Major Requ	iired Courses	30 Credits
INS 3101	Principles of Risk Management	t
	and Insurance	3
INS 3102	Insurance Law	3
INS 3201	Property Insurance	3
INS 3202	Casualty Insurance	3
INS 3301	Principles of Life Assurance	3
INS 4104	Reinsurance	3
INS 4203	Marine and Aviation Insurance	. 3
INS 4206	Essentials of Risk Managemen	t 3
INS 4302	Accident, Group and	
	Health Insurance	3
INS 4303	Life Assurance Underwriting	3

Concentration Courses

Students must choose one of the three following		
plans as their concentration courses.		
Plan A: Major Concentration Courses	15 Credits	
Or Plan B: Business Concentration		
Courses	15 Credits	
Or Plan C: Major Elective Courses	15 Credits	

PLAN A – Major Concentration Courses 15 Credits

Students pursuing PLAN A must select one of the following concentration in the major area and study the five specified courses.

Property and Casualty Insurance

INS 3203	Engineering Insurance	3
INS 4103	Insurance Marketing	3
INS 4204	Property and Casualty Insurance	
	Accounting and Finance	3
INS 4205	Survey and Claim Management in	
	Property and Casualty Insurance	3
INS 4207	Insurance Management	3
Life Assuran	2e 	
INS 4304	Life Assurance Mathematics	3
INS 4305	Claim Management in	
	Life Assurance	3
INS 4306	5	3
INS 4306	Life Assurance	3 3
INS 4306 INS 4307	Life Assurance Life Assurance and Financial	-
	Life Assurance Life Assurance and Financial Planning	-
	Life Assurance Life Assurance and Financial Planning Life Assurance Agency	3
INS 4307	Life Assurance Life Assurance and Financial Planning Life Assurance Agency Administration	3

PLAN B – Business Concentration Courses 15 Credits

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Students pursuing PLAN B must select a concentration in other business areas and study the five specified courses.

Accounting

ACT 3602	Intermediate Accounting I
ACT 3603	Intermediate Accounting II
ACT 3614	Taxation
ACT 3622	Cost Accounting
ACT 3629	Profits Planning and Control

Business Information System

BIS 3315	Programming and Algorithms	
BIS 3635	Database Systems	
BIS 3655	Data Communications and	
	Networking	
BIS 3666	Information Systems Analysis	
	and Design	
BIS 4675	Information Systems Project	
	Management	
Finance and	l Banking	
FIN 3711	Investment	
FIN 3712	Money and Capital Markets	
FIN 3713	Business Analysis and Valuation	
FIN 4813	Financial Management	
FIN 4815	Bank Management	
Hospitality a	and Tourism Management	
HTM 3101	Introduction to Hospitality	
HTM 3101	Introduction to Hospitality Management	
HTM 3101		
	Management	
HTM 3102	Management Introduction to Tourism Management	
HTM 3102	Management Introduction to Tourism Management Consumer Behavior in Hospitality and Tourism Industry Marketing for Hospitality and Tourism	
HTM 3102 HTM 3103	Management Introduction to Tourism Management Consumer Behavior in Hospitality and Tourism Industry	
HTM 3102 HTM 3103 HTM 3205 HTM 3211	Management Introduction to Tourism Management Consumer Behavior in Hospitality and Tourism Industry Marketing for Hospitality and Tourism Food and Beverage Management al Business Management	
HTM 3102 HTM 3103 HTM 3205 HTM 3211	Management Introduction to Tourism Management Consumer Behavior in Hospitality and Tourism Industry Marketing for Hospitality and Tourism Food and Beverage Management	
HTM 3102 HTM 3103 HTM 3205 HTM 3211 Internationa	Management Introduction to Tourism Management Consumer Behavior in Hospitality and Tourism Industry Marketing for Hospitality and Tourism Food and Beverage Management al Business Management	
HTM 3102 HTM 3103 HTM 3205 HTM 3211 Internationa IBM 3711	Management Introduction to Tourism Management Consumer Behavior in Hospitality and Tourism Industry Marketing for Hospitality and Tourism Food and Beverage Management al Business Management Comparative Management	
HTM 3102 HTM 3103 HTM 3205 HTM 3211 Internationa IBM 3711 IBM 3713	Management Introduction to Tourism Management Consumer Behavior in Hospitality and Tourism Industry Marketing for Hospitality and Tourism Food and Beverage Management al Business Management Comparative Management International Management	

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STUDY PLAN

First and Second Year (Freshmen and Sophomore) During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all the disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/her ability, background, and career preferences.

Third and Fourth Year (Junior and Senior) During the junior and senior years, students who select the Insurance Major follow the Insurance program of studies:

1. Ten Major Required Courses 2. Five Concentration Courses Plan A: Major Concentration Courses Or Plan B: Business Concentration Courses Or Plan C: Major Elective Courses 3. Three Free Elective Courses

FIRST YEAR

First Semester

Course Code	Course Title 0	Credits		
BG 1001	English I	3		
BG 1200	Mathematics for Business	3		
BG 1201	Statistics I	3		
BG 1400	Business Law I	3		
GE 1204	Physical Education	1		
GE 1301	Environmental Science	3		
GE 1403	Communication in Thai	3		
or GE 1401	Language and Communication Sk	ills		
	(For international students)	3		
	Total	19		
Second Semester				

SECOND YEAR First Semester Course Code Course Title Credits ACT 2620 Fundamentals of Managerial Accounting BG 2000 English III BG 2400 Macroeconomics BIS 2180 Information Technology MGT 2404 Managerial Psychology MGT 2900 Principles of Management Total

Second Semester

Course Code	Course Title	Credits
BG 2001 FIN 2700	English IV Money, Banking and Financial	3
	Markets	3
GE 2101	World Civilization	3
GE 2202	Ethics	3
IBM 2702	International Business Environme	nt 3
MKT 2280	Principles of Marketing	3
	Total	18

Industrial Management

IDM 3203	Logistics and Supply Chain	3
IDM 3204	Management Industrial Safety and Risk	3
10101 5204	Management	3
IDM 4201	Manufacturing Planning and Control	3
IDM 4203	Quality Management	3
IDM 4206	Industrial Environmental	
	Management	3
Management	:	
MGT 3915	Project Management	3
MGT 3917	Innovation and Change Management	3
MGT 3922	Introduction to New Ventures	3
MGT 4910	Productivity and Quality Management	3
MGT 4916	Negotiation Strategy	3
Marketing		
MKT 3525	Sales Management	3
MKT 3530	Consumer Behavior	3
MKT 4725	Competitive Analysis and Strategy	3
MKT 4730	Marketing Management	3
MKT 4809	Marketing for Services	3
Real Estate		
REM 3111	Principles of Real Estate	3
REM 3112	Real Estate Law	3
REM 3113	Real Estate Economics	3
REM 3114	Building Design and Construction	
	Techniques	3
REM 3211	Principles of Real Estate	
	Development	3

PLAN C – Major Elective Courses

Students pursuing PLAN C must select any five major elective courses.			
INS 3203	Engineering Insurance	3	
INS 4103	Insurance Marketing	3	
INS 4105	Seminar in Insurance	3	
INS 4106	Information Management		
	in Insurance	3	
INS 4204	Property and Casualty Insurance	2	
	Accounting and Finance	3	
INS 4205	Survey and Claim Management	in	
	Property and Casualty Insurance	e 3	
INS 4207	Insurance Management	3	
INS 4208	Internship in Property and Casu	alty	
	Insurance (240 Hours)	3	
INS 4209	Directed Studies in Property &		
	Casualty Insurance	3	
INS 4210	Risk Control and Risk Financing	3	
INS 4304	Life Assurance Mathematics	3	
INS 4305	Claim Management in Life		
	Assurance	3	
INS 4306	Life Assurance and Financial		
	Planning	3	
INS 4307	Life Assurance Agency		
	Administration	3	
INS 4308	Managing for Solvency and		
	Profitability in Life Assurance	3	
INS 4309	Internship in Life		
	Assurance (240 Hours)	3	
INS 4310	Directed Studies in Life Assuran		
BIS 3587	Principles of Electronic Commer		
FIN 3724	Financial Feasibility Planning	3	
FIN 3725	Managerial Economics	3	
C. Free Elective Courses 9 Credits			

Students can take free elective courses of 9 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

Course Code	Course Title	Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
BG 1002	English II	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BG 2401	Microeconomics	3
BIS 1141	Business Software Applications	0
MGT 1101	Introduction to Business	3
	Total	18



THIRD YEAR First Semester

Course Code	Course Title	Credits
BIS 3340	Computer Tools in Research	C
FIN 3701	Corporate Finance	3
INS 3101	Principles of Risk Management	
	and Insurance	3
INS 3102	Insurance Law	3
MGT 3905	Operations Management	3
	One Free Elective Course	3
	One Free Elective Course	3
	Total	18

FOURTH YEA First Semeste		
Course Code	Course Title	Credits
INS 4203 INS 4302	Marine and Aviation Insurance Accident, Group and	3
	Health Insurance	3
INS 4303	Life Assurance Underwriting	3
MGT 4914	Entrepreneurship One Plan A / Plan B /	3
	Plan C Course One Plan A / Plan B /	3
	Plan C Course	3
	Total	18

Credits

Second Semester			Second Ser	nester
Course Code Course Title		Credits	Course Code Course Title	
 INS 3201	Property Insurance	3	 INS 4206	Essential of Risk Management
INS 3202	Casualty Insurance	3	INS 4104	Reinsurance
INS 3301	Principles of Life Assurance	3		One Plan A / Plan B /
MGT 3907	Business Communication	3		Plan C Course
MGT 3940	Business Research Methodology	3		One Plan A / Plan B /
	One Plan A / Plan B /			Plan C Course
	Plan C Course	3		One Free Elective Course
	Total	18		Total



DEPARTMENT OF BUSINESS ECONOMICS

Degree Conferred: Bachelor of Economics (Business Economics) B.Econ. (Business Economics)
Program Objectives: To produce graduates who have the characteristics, knowledge and skills as follows:

Morally sound, committed to acting justly and open to further growth.
Have essential concepts, frameworks, core body of knowledge, and necessary technical skills to work as a full potential economic professional.
Able to understand and apply economic reasoning to every aspect of the management and the organization.
Able to interpret economic information, make economic analysis and forecasting useful for business decision making.
Flexible, competent and well-rounded in confronting and solving economic problems.

- Able to work as a team and motivate others to work.
- Able to communicate effectively and have good IT skills.



A. General E Language C	Education Courses ourses	36 Credits 15 Credits	EC(
			EC(
BG 1001 BG 1002	English I English II	3	EC
BG 2000	English III	3	EC
BG 2000 BG 2001	English IV	3	EC
GE 1403	Communication in Thai	3	LC
or GE 1403	Language and Communication		Ma
	(For International students)	JII JKIIIJ	Stu
Social Scien	ce Courses	6 Credits	EC
GE 2202	Ethics		EC EC
GE 2202 MGT 1101	Introduction to Business	3	EC
	Introduction to business	5	EC
			EC
Humanities	Courses	9 Credits	EC
			EC
GE 2101	World Civilization	3	EC
GE 2103	Art of Reasoning	3	EC
MGT 2404	Managerial Psychology	3	EC EC
Science and	Mathematics Courses	6 Credits	RE
BG 1200	Mathematics for Business	 3	Bu
GE 1301	Environmental Science	3	
			Stu
B. Specialize		99 Credits	of
Business Co	re Courses	42 Credits	Fin
ACT 1600	Fundamentals of Financial		
	Accounting	3	FIN
ACT 2620	Fundamentals of	_	FIN
	Managerial Accounting	3	FIN FIN
BG 1201	Statistics I	3	FIN
BG 1230	Calculus	3	FIF
BG 2200	Statistics II	3	Но
BIS 1141 BIS 2180	Business Software Applicatio Information Technology	ns 0 3	
BIS 2180 BIS 3340	Computer Tools in Research	0	HT
ECO 1401	Economic Reasoning	3	
ECO 1401 ECO 2501	Principles of Microeconomics		HT
			HT
ECO 2502 ECO 2503	Principles of Macroeconomic Economy, Society and Govern		
FIN 3701		3	HT
MGT 2900	Corporate Finance Principles of Management	3	HT
MGT 2900 MGT 3940	Business Research Methodolo		
MKT 2280	Principles of Marketing	3	Int
Major Requi	red Courses	30 Credits	IBA
ECO 3711	Intermediate Microeconomic	 s 3	IBN IBN
ECO 3712	Intermediate Macroeconomic		IBN
			MAK

Economics of Money and Banking

ECO 3713

Assumption University of Thailand | Department of Business Economics

ECO 3714	Mathematical Economics	3
ECO 3715	Introduction to Econometrics	3
ECO 3716	International Trade	3
ECO 3710	Managerial Economics	3
	International Macroeconomics	3
ECO 4711		
ECO 4712	Economics of Strategy	3
ECO 4911	Seminar in Economics	3
Major Electi		
Student mu	st choose any FOUR major electuve cour	ses.
ECO 3721	Industrial Organization	3
ECO 3722	Business Cycle and Forecasting	3
ECO 3723	Public Finance	3
ECO 3724	Comparative Economic Systems	3
ECO 3725	Financial Economics	3
ECO 4721	Project Evaluation	3
ECO 4722	Economics of Human Resources	3
ECO 4722 ECO 4723	Agriculture Economics and	2
	Agri-business	3
ECO 4724	Economics of E-business	3
ECO 4725	Economics of Sustainability	3
ECO 4726	Business and Government	3
REM 3113	Real Estate Economics	3
During Co	15 0	114 -
	ncentration Courses 15 Crea	dits
Student mu	st choose ONE of the following groups ation as their business concentration:	dits
Student mu of concentra Finance and	st choose ONE of the following groups ation as their business concentration: Banking	
Student mu of concentra Finance and FIN 3711	st choose ONE of the following groups ation as their business concentration: Banking Investment	3
Student mu of concentra Finance and FIN 3711 FIN 3712	st choose ONE of the following groups ation as their business concentration: Banking Investment Money and Capital Markets	3 3
Student mu of concentra Finance and FIN 3711	st choose ONE of the following groups ation as their business concentration: Banking Investment Money and Capital Markets Business Analysis and Valuation	3
Student mu of concentra Finance and FIN 3711 FIN 3712 FIN 3713	st choose ONE of the following groups ation as their business concentration: I Banking Investment Money and Capital Markets Business Analysis and Valuation Financial Management	3 3
Student mu of concentra Finance and FIN 3711 FIN 3712	st choose ONE of the following groups ation as their business concentration: Banking Investment Money and Capital Markets Business Analysis and Valuation	3 3 3
Student mu of concentra Finance and FIN 3711 FIN 3712 FIN 3713 FIN 4813 FIN 4815	st choose ONE of the following groups ation as their business concentration: I Banking Investment Money and Capital Markets Business Analysis and Valuation Financial Management	3 3 3 3
Student mu of concentra Finance and FIN 3711 FIN 3712 FIN 3713 FIN 4813 FIN 4815 Hospitality a	st choose ONE of the following groups ation as their business concentration: I Banking Investment Money and Capital Markets Business Analysis and Valuation Financial Management Bank Management and Tourism Management	3 3 3 3
Student mu of concentra Finance and FIN 3711 FIN 3712 FIN 3713 FIN 4813 FIN 4815	st choose ONE of the following groups ation as their business concentration: Banking Investment Money and Capital Markets Business Analysis and Valuation Financial Management Bank Management and Tourism Management Introduction to Hospitality	3 3 3 3 3
Student mu of concentra Finance and FIN 3711 FIN 3712 FIN 3713 FIN 4813 FIN 4813 FIN 4815 Hospitality a HTM 3101	st choose ONE of the following groups ation as their business concentration: I Banking Investment Money and Capital Markets Business Analysis and Valuation Financial Management Bank Management and Tourism Management Introduction to Hospitality Management	3 3 3 3 3 3
Student mu of concentra Finance and FIN 3711 FIN 3712 FIN 3713 FIN 4813 FIN 4815 Hospitality a HTM 3101 HTM 3102	st choose ONE of the following groups ation as their business concentration: I Banking Investment Money and Capital Markets Business Analysis and Valuation Financial Management Bank Management and Tourism Management Introduction to Hospitality Management Introduction to Tourism Management	3 3 3 3 3
Student mu of concentra Finance and FIN 3711 FIN 3712 FIN 3713 FIN 4813 FIN 4813 FIN 4815 Hospitality a HTM 3101	st choose ONE of the following groups ation as their business concentration: I Banking Investment Money and Capital Markets Business Analysis and Valuation Financial Management Bank Management and Tourism Management Introduction to Hospitality Management Introduction to Tourism Management Consumer Behavior in Hospitality	3 3 3 3 3 3 3 3 3
Student mu of concentra Finance and FIN 3711 FIN 3712 FIN 3713 FIN 4813 FIN 4815 Hospitality a HTM 3101 HTM 3102 HTM 3103	st choose ONE of the following groups ation as their business concentration: I Banking Investment Money and Capital Markets Business Analysis and Valuation Financial Management Bank Management Introduction to Hospitality Management Introduction to Tourism Management Consumer Behavior in Hospitality and Tourism Industry	3 3 3 3 3 3 3 3 3 3 3 3
Student mu of concentra Finance anc FIN 3711 FIN 3712 FIN 3713 FIN 4813 FIN 4815 Hospitality a HTM 3101 HTM 3102 HTM 3103 HTM 3205	st choose ONE of the following groups ation as their business concentration: I Banking Investment Money and Capital Markets Business Analysis and Valuation Financial Management Bank Management Introduction to Hospitality Management Introduction to Tourism Management Consumer Behavior in Hospitality and Tourism Industry Marketing for Hospitality and Tourism	3 3 3 3 3 3 3 3 3 3 3 3 3 3
Student mu of concentra Finance and FIN 3711 FIN 3712 FIN 3713 FIN 4813 FIN 4815 Hospitality a HTM 3101 HTM 3102	st choose ONE of the following groups ation as their business concentration: I Banking Investment Money and Capital Markets Business Analysis and Valuation Financial Management Bank Management Introduction to Hospitality Management Introduction to Tourism Management Consumer Behavior in Hospitality and Tourism Industry	3 3 3 3 3 3 3 3 3 3 3 3
Student mu of concentra Finance and FiN 3711 FIN 3712 FIN 3713 FIN 4813 FIN 4815 Hospitality a HTM 3101 HTM 3101 HTM 3103 HTM 3205 HTM 3211	st choose ONE of the following groups ation as their business concentration: I Banking Investment Money and Capital Markets Business Analysis and Valuation Financial Management Bank Management Introduction to Hospitality Management Introduction to Tourism Management Consumer Behavior in Hospitality and Tourism Industry Marketing for Hospitality and Tourism	3 3 3 3 3 3 3 3 3 3 3 3 3 3
Student mu of concentra Finance and FiN 3711 FIN 3712 FIN 3713 FIN 4813 FIN 4815 Hospitality a HTM 3101 HTM 3101 HTM 3103 HTM 3205 HTM 3211	st choose ONE of the following groups ation as their business concentration: Banking Ivestment Money and Capital Markets Business Analysis and Valuation Financial Management Bank Management Management Introduction to Hospitality Management Introduction to Tourism Management Consumer Behavior in Hospitality and Tourism Industry Marketing for Hospitality and Tourism Food and Beverage Management	3 3 3 3 3 3 3 3 3 3 3 3 3 3
Student mu of concentra Finance and FiN 3711 FIN 3712 FIN 3713 FIN 4813 FIN 4813 FIN 4815 Hospitality a HTM 3101 HTM 3101 HTM 3102 HTM 3205 HTM 3211 Internationa IBM 3711	st choose ONE of the following groups ation as their business concentration: I Banking Investment Money and Capital Markets Business Analysis and Valuation Financial Management Bank Management and Tourism Management Introduction to Hospitality Management Introduction to Tourism Management Consumer Behavior in Hospitality and Tourism Industry Marketing for Hospitality and Tourism Food and Beverage Management al Business Management Comparative Management	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Student mu of concentra Finance and FiN 3711 FIN 3712 FIN 3713 FIN 4813 FIN 4813 FIN 4815 Hospitality a HTM 3101 HTM 3101 HTM 3102 HTM 3205 HTM 3211 Internationa IBM 3711 IBM 3713	st choose ONE of the following groups ation as their business concentration: I Banking Investment Money and Capital Markets Business Analysis and Valuation Financial Management Bank Management and Tourism Management Introduction to Hospitality Management Introduction to Tourism Management Consumer Behavior in Hospitality and Tourism Industry Marketing for Hospitality and Tourism Food and Beverage Management al Business Management International Management	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Student mu of concentra Finance and FiN 3711 FIN 3712 FIN 3713 FIN 4813 FIN 4813 FIN 4815 Hospitality a HTM 3101 HTM 3102 HTM 3103 HTM 3205 HTM 3211 Internationa IBM 3711 IBM 3713 IBM 3714	st choose ONE of the following groups ation as their business concentration: I Banking Investment Money and Capital Markets Business Analysis and Valuation Financial Management Bank Management and Tourism Management Introduction to Hospitality Management Introduction to Hospitality Management Introduction to Tourism Management Consumer Behavior in Hospitality and Tourism Industry Marketing for Hospitality and Tourism Food and Beverage Management al Business Management International Management Export-Import Policy and Strategy	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Student mu of concentra Finance and FiN 3711 FIN 3712 FIN 3713 FIN 4813 FIN 4813 FIN 4815 Hospitality a HTM 3101 HTM 3101 HTM 3102 HTM 3205 HTM 3211 Internationa IBM 3711 IBM 3713	st choose ONE of the following groups ation as their business concentration: I Banking Investment Money and Capital Markets Business Analysis and Valuation Financial Management Bank Management and Tourism Management Introduction to Hospitality Management Introduction to Tourism Management Consumer Behavior in Hospitality and Tourism Industry Marketing for Hospitality and Tourism Food and Beverage Management al Business Management International Management	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

Assumption University of Thailand | Department of Business Economics

STUDY PLAN STUDY PLAN

First and Second Years (Freshmen and Sophomore)

During the freshmen year, all students in Business Economics pursue the same study plan consisting of general education courses and business core courses, which provides them with the basic knowledge on all the disciplines in Economics and Business. The study plan also prepares the students with adequate knowledge to select a business concentration that suits his/her ability, background, and preferences.

Third and Fourth Years (Junior and Senior) During the junior and senior years, Business Economics students follow the Economics program of studies:

- 1. Ten Major Required Courses
- 2. Four Major Electives Courses 3. Five Business Concentration Courses
- 4. Three Free Elective Courses

FIRST YEAR

First Semester

		-
Course Code	Course Title	Credits
		-
BG 1001	English I	3
BG 1200	Mathematics for Business	3
BG 1201	Statistics I	3
ECO 1401	Economic Reasoning	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communicatio	on Skills
	(For international students)	3
GE 2103	Art of Reasoning	3
		-
	Total	18

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Ale			
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SECOND YEAR First Semester

Course Code	Course Title	Credits
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 2000	English III	3
GE 1301	Environmental Science	3
BIS 2180	Information Technology	3
ECO 2502	Principles of Macroeconomics	3
MKT 2280	Principles of Marketing	3
	Total	18

Second Seme	ster	
Course Code	Course Title	Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
BG 1002	English II	3
BG 1230	Calculus	3
BG 2200	Statistics II	3
BIS 1141	Business Software Applications	0
ECO 2501	Principles of Microeconomics	3
MGT 1101	Introduction to Business	3
	Total	18

Second Semester

Course Code	Course Title 0	Credits
BG 2001 BIS 3340 ECO 2503 ECO 3711 ECO 3713 GE 2202 MGT 2900	English IV Computer Tools in Research Economy, Society , and Governmer Intermediate Microeconomics Economics of Money and Banking Ethics Principles of Management Total	3 0 1 3 3 3 3 18

IDM 3203 Logistics and Supply Chain Management IDM 3204 Industrial Safety and Risk Management IDM 4201 Manufacturing Planning and Control IDM 4203 Quality Management IDM 4206 Industrial Environmental Management 3 Insurance INS 3101 Principles of Risk Management and Insurance INS 3201 Property Insurance INS 3202 Casualty Insurance

Management

INS 3301

INS 4206

Industrial

MGT 3915	Project Management
MGT 3917	Innovation and Change Management
MGT 3922	Introduction to New Ventures
MGT 4910	Productivity and Quality Management
MGT 4916	Negotiation Strategy

Principles of Life Assurance

Essentials of Risk Management

Marketing

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MKT 3525 MKT 3530 MKT 4725 MKT 4730 MKT 4809 Real Estate	Sales Management Consumer Behavior Competitive Analysis and Strategy Marketing Management Marketing for Services	3 3 3 3 3
REM 3111 REM 3114 REM 3211 REM 3212 REM 3213	Principles of Real Estate Building Design and Construction Techniques Principles of Real Estate Development Real Estate Finance Real Estate Appraisal	3 3 3 3 3

C. Free Electives Courses 9 Credits Students can take free elective courses of 9 credits from

any faculty in Assumption University upon completion of the prerequisites (if any)





THIRD YEAR First Semester

Course Code	Course Title	Credits
ECO 3712	Intermediate Macroeconomics	3
ECO 3714	Mathematical Economics	3
FIN 3701	Corporate Finance	3
GE 2101	World Civilization	3
MGT 3940	Business Research Methodology	3
	One Major Elective Course	3
	Total	18

FOURTH YEAR First Semester

Course Code	Course Title 0	Credits
ECO 4711	International Macroeconomics	3
ECO 4712	Economics of Strategy	3
	Two Business Concentration Courses	6
	Two Major Elective Courses	6
	Total	18

			Jecon
Course Code	Course Title	Credits	Cours
ECO 3715	Introduction to Econometrics	3	ECO 4
ECO 3716	International Trade	3	
ECO 3717	Managerial Economics	3	
MGT 2404	Managerial Psychology	3	
	Two Business Concentration Course	s 6	
	Total	18	

Second Seme	ester	
Course Code	Course Title	Credits
ECO 4911	Seminar in Economics One Business Concentration Course One Major Elective Course Three Free Elective Courses	3 3 3 9
	Total	18





SCHOOL OF ARTS

Curriculum Structure					
Courses	Business	Business	Business	Business	Chinese for
	English	French	Chinese	Japanese	Economy
					and Trade
A. General Education Courses	43	40	37	40	30
- Language Courses	15	15	15	15	15
- Social Science Courses	16	13	13	13	9
- Humanities Courses	6	6	3	6	3
- Science and Mathematics Courses	6	6	6	6	3
B. Specialized Courses	93	96	99	96	99
- Required Core Courses	21	33	21	30	-
- Core Courses	-	-	-	-	63
- Elective Core Courses	9	-	-	-	-
- Major Required Course	36	36	45	39	30
- Major Elective Courses	9	9	15	9	6
- Minor Courses	18	18	18	18	-
C. Free Elective Courses	6	6	6	6	6
Total Credits	142	142	142	142	135

GRADUATION REQUIREMENTS

Assumption University confers the degree of Bachelor of Arts upon students who meet all of the following requirement:

- Have completed the total number of credits of the curriculum
- Have obtained a cumulative grade point average of at least 2.00
- Have participated in 16 sessions of the Professional Ethics Seminar
- Have obtained library and financial clearance from the University

• Have demonstrated good behavior and discipline

93 Credits

DEPARTMENT OF BUSINESS ENGLISH

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows

- Have a sense of social and self responsibility and become an ethical citizen of the society.
- Have English proficiency necessary for business executions and be well-rounded in terms of intercultural communication.
- Demonstrate skills and expertise in applying . knowledge to real life context and solving problems creatively and efficiently.
- Able to work and communicate effectively with both Thai and international people with respect and courtesy.
- Able to use computer and other technologies in communicating and presenting information.

COURSES

GE 1301

A. General E Language C		43 Credits
Language C		
BG 1001		3
BG 1002	English II	3
BG 2000	English III	3
BG 2001		3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication	n Skills
	(For International students)	3
Social Scien	ce Courses	16 Credits
	Macroeconomics	3
BG 2401	Microeconomics	3
GE 1201	Information Literacy Skills	1
GE 1203	Society, Politics and Economics	5 3
GE 2202	Ethics	3
MGT 2404	Managerial Psychology	3
Humanities	Courses	6 Credits
	Thai Civilization	3
GE 2101	World Civilization	3
Science and	Mathematics Courses	6 Credits
BG 1200	Mathematics for Business	3

Environmental Science

Required Co	ore Courses	21 Credits
BG 1301 BIS 1141 BIS 2180 GE 2103 GL 1101 GL 3102	Fundamentals of Statistics Business Software Applicatior Information Technology Art of Reasoning Elements of Spoken Language Introduction to Linguistics	3 3
GL 3102	Language, Culture, and Behavio	
MGT 1101	Introduction to Business	3
		9 Credits
ACT 1601 FIN 2700	Fundamentals of Financial Accounting Money, Banking and	3
	Financial Markets	3
MGT 2900	Principles of Management	3
MKT 2280	Principles of Marketing	3
Major Requ	ired Courses	36 Credits
EN 2230 EN 3210	Listening and Speaking Business Communication	3
	in English I	3

B. Specialized Courses

	Listening and speaking	5
EN 3210	Business Communication	
	in English I	3
EN 3211	Business Communication	
	in English II	3
EN 3240	Reading in Business English	3
EN 3270	Translation: English-Thai	3
or EN 4254	Academic Writing -	
	(only for international students)	3
EN 3271	Translation: Thai-English	3
or EN 4252	Article Writing -	
	(only for international students)	3
EN 4232	Business Conversation	3
EN 4233	Public Speaking in English	3
EN 4240	Reading in English Newspapers	3
EN 4241	Critical and Analytical Reading	3
EN 4250	Understanding, Note-taking	
	and Summarizing	3
EN 4256	Introduction to Business	
	Research Writing	3



18 Credits

Major Elect	ive Courses	9 Credits
EN 3232	English Pronunciation I	3
EN 3233	English Pronunciation II	3
EN 3281	English for Tourism	3
EN 3282	English for Hotels	3
EN 3283	English for International Trade	3
EN 3284	English for Property Developmer	nt 3
EN 3287	English for Office Management	3
EN 3288	English for Airline Business	3
EN 3289	English for Music Business	3
EN 4252	Article Writing	3
EN 4253	Introduction to Public Relations Writ	ing 3
EN 4254	Academic Writing	3
EN 4262	Reading of Modern Viewpoints	3
EN 4266	Reading Thai Literary	
	Works in English	3
EN 4267	Aspects of American Culture	3
EN 4272	Translation in Business English	3
EN 4291	Seminar in Business English	3

Minor Courses **Business Chinese**

Minor Required Courses		12 Credits
CN 1400	Introduction to Chinese	3
CN 1401	Chinese I	3
CN 2401	Chinese II	3
CN 2402	Chinese III	3

Minor Elective Courses 6 Credits

Students can take any courses from the Department of Business Chinese upon completion of the prerequisites (if any).

Business French

Minor Required Courses		12 Credits
FR 1500	Introduction to French	3
FR 1501	French I	3
FR 2501	French II	3
FR 2502	French III	3
Minor Elec	tive Courses	6 Credits

Students can take any courses from the Department of Business French upon completion of the prerequisites (if any).

Business JapaneseMinor Required Courses12 Credits			
JA 1700	Introduction to Japanese	3	
JA 1701	Japanese I	3	
JA 2701	Japanese II	3	
JA 2702	Japanese III	3	
Minor Elective Courses 6 Credits			

Students can take any courses from the Department of Business Japanese upon completion of the prerequisites (if any).

Thai (Only for international students)

Minor Required Courses		18 Credits
 TH 1500	Introduction to Thai	3
TH 1501	Thai Language I	3
TH 2501	Thai Language II	3
TH 2502	Thai Language III	3
TH 3501	Advanced Reading	3
TH 3502	Advanced Thai Writing	3

Business Information Systems

	uired Courses	18 Credits
BIS 3315	Programming and	
	Algorithms	3
BIS 3349	Fundamentals of	
	Computer Graphics	3
BIS 3635	Database Systems	3
BIS 3655	Data Communications	
	and Networking	3
BIS 3666	Information Systems	
	Analysis and Design	3
BIS 4675	Information Systems	
	Project Management	3
Finance an	d Banking	
Minor Requ	uired Courses	18 Credits
FIN 3701	Corporate Finance	3
FIN 3711	Investment	3
FIN 3712	Money and Capital Markets	3
FIN 3714	Business Condition Analysis	3
FIN 4812	International Finance	3
FIN 4813	Financial Management	3



MKT 3530 Consumer Behavior

Hospitality and Tourism Management Minor Required Courses 18 Credits HTM 3001 Sustainable Tourism 3 HTM 3101 Introduction to Hospitality Management 3 HTM 3102 Introduction to Tourism Management 3 HTM 3103 Consumer Behavior in Hospitality and Tourism Industry 3 HTM 3205 Marketing in Hospitality and Tourism 3 HTM 3211 Food and Beverage Management 3 International Business Management Minor Required Courses 18 Credits IBM 2702 International Business Environment 3 IBM 3711 Comparative Management 3 International Management IBM 3713 3 IBM 3714 Export-Import Policy and Strategy 3 International Strategic Management IBM 4811 3 Global Marketing MKT 3620 3 Industrial Management **Minor Required Courses** 18 Credits IDM 3203 Logistics and Supply Chain Management 3 IDM 3204 Industrial Safety and Risk Management 3 Manufacturing Planning and Control IDM 4201 3 Quality Management IDM 4203 3 Industrial Environmental IDM 4206 Management 3 MGT 3905 **Operations Management** 3 Management Minor Required Courses 18 Credits MGT 3901 Organization Theory 3 MGT 3903 Leadership 3 MGT 3917 Innovation and Change Management 3 MGT 3923 Strategic Human Resources Management 3 MGT 3942 Organizational Behavior 3 Negotiation Strategy MGT 4916 3 Marketing **Minor Required Courses** 18 Credits MKT 3102 Integrated Marketing

Communications

MKT 3525 Sales Management

MKT 3530 MKT 3837	Consumer Benavior	3
WINT 2027	Service and Customer Relationship Management	3
MKT 4730	Marketing Management	3
MKT 4809	Marketing for Services	3
MKI 4609	Marketing for services	5
Music Busi		
Minor Requ	uired Courses	18 Credits
MA 1300	Introduction to Applied Music	1
MA 1301	Applied Music I	2
MB 2421	Music Production Technology	3
MB 2521	Music Business I	3
MB 2522	Music Business II	3
MB 3512	Legal Aspects of Music Busines	s 3
MB 4511	Music Business	
	Artist/Project Management	3
Real Estate	Management	
		18 Credits
 REM 3111	Principles of Real Estate	3
REM 3112	Real Estate Law	3
REM 3113	Real Estate Economics	3
REM 3114	Building Design and	
	Construction Techiques	3
REM 3211	Principles of Real Estate	
	Development	3
REM 4113	Principles of Property Manageme	ent 3
	tive Courses	6 Credits
Students of from any fa	can take free elective courses of culty in Assumption upon completion of the prere	
Free elect of Arts:	ive courses which are offered	by Faculty
GS 1302	Contemporary Science	
	and Sustainability	3
GS 2103	Thai Buddhism	3
GS 2104	Contextual Religions	3
GS 2106	Logical Thinking and Applicatio	
GS 2205	Communication and Cultures	3
GS 2206	Personality Development	3
GS 2207	Sports, Health and Wellness	5
	Development	3
GS 2208	Thai Politics	3
	I Hal FUILICS	5
GS3101	Applied Philosophy in	5

Contemporary Society

Public Speaking in Thai

3

3

3

GS 3401

3





STUDY PLAN

FIRST YEAR First Semest	ter	
Code	Subjects	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
GE 1101	Thai Civilization	3
GE 1201	Information Literacy Skills	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication	Skills
	(For international students)	3
	Total	16

SECOND YEAR First Semester		
Code	Subjects	Credits
BG 2000 BG 2400 BIS 1141 GE 2101 GE 2103 MGT 2404	English III Macroeconomics Business Software Applications World Civilization Art of Reasoning Managerial Psychology One Elective Core Course	3 3 0 3 3 3 3
	Total	18

TOLAI

Second Semester

Code	Subjects	Credits
BG 1002 BG 1301 BG 2401 GE 1203 GL 1101 MGT 1101	English II Fundamentals of Statistics Microeconomics Society, Politics and Economics Elements of Spoken Language Introduction to Business	3 3 3 3 3 3
	Total	18

Second Semester

Code	Subjects	Credits
BG 2001 BIS 2180 EN 2230 GE 2202	English IV Information Technology Listening and Speaking Ethics Two Elective Core Courses	3 3 3 3 6
	Total	18

THIRD YEAR First Semest		
Code	Subjects	Credits
EN 3210	Business Communication	
	in English I	3
EN 3240	Reading in Business English	3
EN 3270	Translation: English-Thai	3
or EN 4254	Academic Writing -	
	(only for international students)	3
GL 3102	Introduction to Linguistics	3
	Two Minor Courses	6
	Total	18

FOURTH YEAR First Semester

Code	Subjects
EN 4240 EN 4250	Reading in English Newspapers Understanding, Note-taking and Summarizing One Major Elective Course Two Minor Course

One Free Elective Course

Credits

3

3

3

6

3

18

Second Semester

Code	Subjects	Credits
EN 3211	Business Communication	
	in English II	3
EN 3271	Translation: Thai-English	3
or EN 4252	Article Writing -	
	(only for international students)	3
EN 4232	Business Conversation	3
GL 3103	Language, Culture and Behavior	3
	One Major Elective Course	3
	One Minor Course	3
	Total	18

Second Semester

Total

Code	Subjects	Credits
EN 4233 EN 4241	Public Speaking in English Critical and Analytical Reading	3 3
EN 4256	Introduction to Business Research Writing	3
	One Major Elective Course	3
	One Minor Course	3
	One Free Elective Course	3
	Total	18





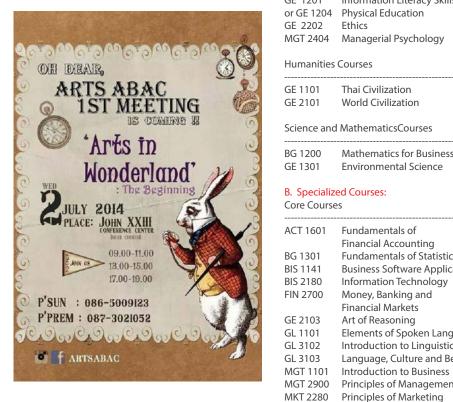
36 Credits

DEPARTMENT OF **BUSINESS FRENCH**

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Have a sense of social and self responsibility and become an ethical citizen of the society.
- Have up-to-date and business language skills both in French and in English for listening, speaking, reading and writing through technologies.
- Demonstrate skills and expertise in applying the • knowledge to real life context and solving problems creatively and efficiently.
- Able to work and communicate effectively with both Thai and international people with respect and courtesy.
- Able to use computer and other technologies in • communicating and presenting information.



COURSES

COURSES		
<mark>A.General E</mark> Language C	ducation Courses Courses	40 Credits 15 Credits
BG 1001	3	
BG 1002	English II	3
BG 2000 BG 2001	English III English IV	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication	-
	(For foreign students)	3
Social Scien	ice Courses	13 Credits
BG 2400	Macroeconomics	- 3
BG 2401	Microeconomics	3
GE 1201	Information Literacy Skills	1
or GE 1204	Physical Education	1
GE 2202	Ethics	3
MGT 2404	Managerial Psychology	3
Humanities	Courses	6 Credits
GE 1101	Thai Civilization	- 3
GE 2101	World Civilization	3
Science and	MathematicsCourses	6 Credits
BG 1200	Mathematics for Business	3
GE 1301	Environmental Science	3
	ed Courses:	96 Credits
Core Course	2S	33 Credits -
ACT 1601	Fundamentals of	2
BG 1301	Financial Accounting Fundamentals of Statistics	3
BIS 1141	Business Software Applications	
BIS 1141 BIS 2180	Information Technology	s 0 3
FIN 2700	Money, Banking and	C
11112/00	Financial Markets	3
GE 2103	Art of Reasoning	3
GL 1101	Elements of Spoken Language	3
GL 3102	Introduction to Linguistics	3
GL 3103	Language, Culture and Behavio	
MCT 1101	lata de stiente Desire	

Principles of Management

3

3

3

lifed Courses	50 Cleans	MINOT Ele
Introduction to French	- 3	Students
French I	3	of Busine
French II	3	uisites (if a
French III	3	
Introduction to Business French	n 3	Business I
Business Communication in Fre	ench I 3	Minor Red
Oral Comprehension		
and Expression	3	EN 2230
French Phonetics	3	EN 3210
Translation: French-Thai	3	
	ssion l	EN 4232
· · · · · ·	3	EN 4233
Business French I	3	
Reading French Magazines		Minor Ele
and Newspapers	3	
Aspects of French-Speaking		Students
Countries	3	of Busine
		uisites (if a
ive Courses	9 Credits	
Business Communication in Frer	nch II 3	Business
Introduction to French Linguist	ics 3	Minor Red
French Conversation and		
Discussion I	3	JA 1700
Basic Conversation in		JA 1701
Business French I	3	JA 2701
Basic Writing in Business French	nl 3	JA 2702
French Reading and Oral Repor	rt 3	
French for Secretaries	3	Minor Ele
French for Tourism	3	
French for Hotels	3	Students
Business French II	3	of Busine
French Conversation and		requisites
Discussion II	3	
	3	Business I
5	3	Minor Red
	3	
Seminar	3	BIS 3315
Selected Topics in French Studi	es 3	BIS 3349
		BIS 3635
	18 Credits	BIS 3655
iired Courses	12 Credits	BIS 3666
Introduction to Chinese	- 3	BIS 4675
individuction to chinese		
Chinese I	3	
	Introduction to French French I French II French III Introduction to Business French Business Communication in Fre Oral Comprehension and Expression French Phonetics Translation: French-Thai French Conversation and Discu (For foreign students) Business French I Reading French Magazines and Newspapers Aspects of French-Speaking Countries ive Courses Business Communication in Fren Introduction to French Linguist French Conversation and Discussion I Basic Conversation in Business French I Basic Writing in Business French French for Secretaries French for Tourism French for Hotels Business French II French Conversation and Discussion II Public Speaking in French Reading in Business French Translation in Business French Seminar Selected Topics in French Studi	Introduction to French3French I3French II3French III3Introduction to Business French3Business Communication in French I3Oral Comprehension3and Expression3French Phonetics3Translation: French-Thai3French Conversation and Discussion I(For foreign students)(For foreign students)3Business French I3Reading French Magazines3and Newspapers3Aspects of French-Speaking3Countries9Discussion I3Business Communication in French II3Introduction to French Linguistics3French Conversation and3Discussion I3Basic Writing in Business French I3Basic Writing in Business French I3French for Secretaries3French for Hotels3Business French II3French for Hotels3Business French II3French for Hotels3Business French II3Public Speaking in French3French for In Business French3Reading

Major Required Courses

Minor Elective Courses

tudents can take any course from the Department Business Chinese upon completion of the prereqisites (if any).

6 Credits

3

3

usiness English

Minor Req	12 Credits		
EN 2230 EN 3210	Listening and Speaking Business Communication	3	
211 3210	in English I	3	
EN 4232	Business Conversation	3	
EN 4233	Public Speaking in English	3	
Minor Elec	6 Credits		
Students can take any course from the Departmen			

tudents can take any course from the Department Business English upon completion of the prereqisites (if any).

usiness Japanese

Minor Requi	12 Credi	its		
JA 1700 JA 1701 JA 2701 JA 2702	Introduction to Japanese Japanese I Japanese II Japanese III		3 3 3 3	
Minor Electi	ve Courses	6 Credi	its	
Students can take any course from the Department of Business Japanese upon completion of the pre- requisites (if any).				
Business Information SystemsMinor Required Courses18 Credits				
BIS 3315 BIS 3349 BIS 3635 BIS 3655	Programming and Algorithms Fundamentals of Computer Gra Database Systems Data Communications	phics	3 3 3	
BIS 3666	and Networking Information Systems		3	

Analysis and Design

Information Systems

Project Management



Management

Minor Required Courses

MGT 3903 Leadership

MGT 3901 Organization Theory

MGT 3917 Innovation and Change

STUDY PLAN

Total

		SECOND YEAF First Semester	
Subjects	Credits	Code	Su
English I Mathematics for Business Introduction to French Thai Civilization Information Literacy Skills Physical Education Environmental Science Communication in Thai	3 3 1 1 3 3 Skills 3	BG 2000 BG 2400 FR 2501 GE 2202 MGT 2404 MKT 2280	En Ma Fre Etł Ma Pri To
Total	19		
	Credits		
Financial Accounting English II Microeconomics Business Software Applications French I Elements of Spoken Language	3 3 0 3 3 3	BG 2001 BIS 2180 FIN 2700 FR 2502 GE 2103 MGT 2900	En Inf Mc Fir Fre Art
	Mathematics for Business Introduction to French Thai Civilization Information Literacy Skills Physical Education Environmental Science Communication in Thai Language and Communication (For foreign students) Total Total Total Subjects Fundamentals of Financial Accounting English II Microeconomics Business Software Applications French I Elements of Spoken Language	SubjectsCreditsEnglish I3Mathematics for Business3Introduction to French3Thai Civilization3Information Literacy Skills1Physical Education1Environmental Science3Communication in Thai3Language and Communication Skills(For foreign students)Total19mester	terFirst SemesSubjectsCreditsEnglish I3BG 2000Mathematics for Business3BG 2400Introduction to French3Thai Civilization3GE 2202Information Literacy Skills1MKT 2280Environmental Science3Communication in Thai3Language and Communication Skills

Code	Subjects	Credits
BG 2000	English III	
BG 2400	Macroeconomics	-
FR 2501	French II	-
GE 2202	Ethics	3
MGT 2404	Managerial Psychology	3
MKT 2280	Principles of Marketing	3
	Total	18

Semester

Code	Subjects	Credits
BG 2001	English IV	3
BIS 2180	Information Technology	3
FIN 2700	Money, Banking and	
	Financial Markets	3
FR 2502	French III	3
GE 2103	Art of Reasoning	3
MGT 2900	Principles of Management	3
	Total	18

Finance and Banking **Minor Required Courses**

Minor Required Courses		18 Credits
FIN 3701	Corporate Finance	3
FIN 3711 FIN 3712	Investment Money and Capital Markets	3 3
FIN 3714 FIN 4812	Business Condition Analysis International Finance	3
FIN 4812 FIN 4813	Financial Management	3

Hospitality and Tourism Management

Minor Required Courses 18 Cr		18 Credits
HTM 3001	Sustainable Tourism	3
HTM 3101	Introduction to Hospitality	
	Management	3
HTM 3102	Introduction to Tourism	
	Management	3
HTM 3103	Consumer Behavior in Hospitali	ty
	and Tourism Industry	3
HTM 3205	Marketing in Hospitality and Tou	rism 3
HTM 3211	Food and Beverage Manageme	nt 3

International Business Management

Minor Required Courses 18 C		18 Credits
IBM 2702	International Business	
	Environment	3
IBM 3711	Comparative Management	3
IBM 3713	International Management	3
IBM 3714	Export-Import Policy and Strate	gy 3
IBM 4811	International Strategic	
	Management	3
MKT 3620	Global Marketing	3

Industrial Management

Minor Required Courses		18 Credits	
IDM 3203	Logistics and Supply		
	Chain Management	3	
IDM 3204	Industrial Safety and Risk		
	Management	3	
IDM 4201	Manufacturing Planning		
	and Control	3	
IDM 4203	Quality Management	3	
IDM 4206	Industrial Environmental		
	Management	3	
MGT 3905	Operations Management	3	
		5	

MGI 3517	Management	3
MGT 3923	Strategic Human Resources	5
10101 3923	Management	3
MCT 2042	5	
MGT 3942	Organizational Behavior	3
MGT 4916	Negotiation Strategy	3
Markoting		
Marketing		10 Cus dite
Minor Requ	ired Courses	18 Credits
	late meteral Manufactions	
MKT 3102	Integrated Marketing	
	Communications	3
MKT 3525	Sales Management	3
MKT 3530	Consumer Behavior	3
MKT 3837	Service and Customer	
	Relationship Management	3
MKT 4730	Marketing Management	3
MKT 4809	Marketing for Services	3
C. Free Elec	tive Courses	6 Credits
		o c. conto

18 Credits

3

3

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).





THIRD YEAR First Semester

Code	Subjects	Credits
BG 1301	Fundamentals of Statistics	3
FR 3503	Introduction to Business French	3
FR 3510	Business Communication	
	in French I	3
FR 3530	Oral Comprehension and	
	Expression	3
GL 3102	Introduction to Linguistics	3
	One Minor Course	3
	Total	18

Second Semester

Code	Subjects	Credits
FR 3534	French Phonetics	3
FR 3570	Translation : French-Thai	3
or FR 3531	French Conversation and Discuss	ion l
	(For foreign students)	3
GL 3103	Language, Culture and Behavior	3
	One Major Elective Course	3
	One Minor Course	3
	One Free Elective Course	3
	Total	18

FOURTH YEAR First Semester

Total

Code	Subjects	Credits			
GE 2101	World Civilization	3			
FR 4542	Reading French Magazines and Newspapers	3			
FR 4573	Aspects of French-				
	Speaking Countries	3			
	One Major Elective Course	3			
	One Minor Course	3			
	One Free Elective Course	3			
	Total	18			
	Second Semester				
	Subjects	Credits			
	Business French I	3			
	One Major Elective Course	3			
	Three Minor Courses	9			

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DEPARTMENT OF **BUSINESS CHINESE**

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Have personal integrity, open mind and sense of self and social responsibility.Have Chinese and English proficiency for busi-
- ness purposes.
- Have analytical and critical skills and able to ap-ply knowledge to real practice.
- Able to work and communicate with both Thai and international people with respect and courtesy
- Have computer and information technology skills.



	IDCEC
	JRSES
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A. General Education Courses Language Courses		edits redits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication Ski (For International students)	lls 3

Social Science Courses		13 Credits
BG 2400 BG 2401 GE 1201 or GE 1204 GE 2202 MGT 2404	Macroeconomics Microeconomics Information Literacy Skills	3 3 1 1 3 3
Humanities Courses		3 Credits
GE 1101	Thai Civilization	3
Science and Mathematics Courses		6 Credits
	Mathematics for Business Environmental Science	3
B. Specialized Courses Core Courses		99 Credits 21 Credits
ACT 1601	Fundamentals of	3

ACTIOUT	Fundamentals of	
	Financial Accounting	3
BG1301	Fundamentals of Statistics	3
BIS 1141	Business Software Applications	0
BIS 2180	Information Technology	3
GL 1101	Elements of Spoken Language	3
MGT 1101	Introduction to Business	3
MGT2900	Principles of Management	3
MKT2280	Principles of Marketing	3

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Major Required Courses		45 Credits
CN 1400	Introduction to Chinese	3
CN 1401	Chinese I	3
CN 1430	Listening and Speaking	
	in Chinese I	1
CN 1431	Listening and Speaking	
	in Chinese II	1
CN 2401	Chinese II	3
CN 2402	Chinese III	3
CN 2431	Chinese Oral Comprehension	
	and Expression I	2
CN 2432	Chinese Oral Comprehension	
	and Expression II	2
CN 3403	Chinese IV	3
CN 3410	Business Communication	
	in Chinese	3
CN 3434	Chinese Conversation	
	and Discussion I	3
CN 3435	Chinese Conversation	
	and Discussion II	3
CN 3450	Introduction to Chinese Writin	0
CN 3462	Introduction to Chinese Cultu	
CN 3470	Translation I: Chinese-Thai	3
or CN 3441	Chinese Reading and Oral Rep	
	(only for international studen	,
CN 4442	Reading in Chinese Newspap	
CN 4471	Translation II: Thai-Chinese	3
or CN 4440	Reading in Business Chinese	
	(only for international studen	ts) 3
Major Electiv	ve Courses	15 Credits

CN 3433	Chinese from Audio-Visual Media
CN 3441	Chinese Reading and Oral Report
CN 3480	Chinese for Secretaries
CN 3481	Chinese for Tourism
CN 3482	Chinese for Hotels
CN 3483	Chinese for Service Industries
CN 4433	Public Speaking in Chinese
CN 4434	Advanced Listening
	and Speaking in Chinese I
CN 4435	Advanced Listening and
	Speaking in Chinese II
CN 4440	Reading in Business Chinese
CN 4460	Survey of Chinese Literature
CN 4491	Seminar on Selected Topics

Minor Cou Business E		18 Credits
	uired Courses	12 Credits
EN 2230 EN 3210	Listening and Speaking Business Communication	3
	in English I	3
EN 4232	<b>Business Conversation</b>	3
EN 4233	Public Speaking in English	3
Minor Elec	tive Courses	6 Credits
	can take any course from th is English upon completion on ny).	
Business Fi Minor Req	rench uired Courses	12 Credits
FR 1500	Introduction to French	3
FR 1501	French I	3
FR 2501	French II French III	3
FR 2502	French III	3
Minor Elec	tive Courses	6 Credits
	can take any course from th s French upon completion of /).	
Business Ja Minor Req	apanese uired Courses	12 Credits
JA 1700	Introduction to Japanese	3
JA 1701	Japanese I	3
JA 2701	Japanese II	3

	ired Courses 18 Cree	
BIS 3315	Programming and Algorithms	3
BIS 3349	Fundamentals of Computer Graphics	3
BIS 3635	Database Systems	3
BIS 3655	Data Communications and	
	Networking	3
BIS 3666	Information Systems	
	Analysis and Design	3
BIS 4675	Information Systems	
	Project Management	3
Finance and		
Minor Requ	ired Courses 18 Cree	dits
FIN 3701	Corporate Finance	3
FIN 3711	Investment	3
FIN 3712	Money and Capital Markets	3
FIN 3714	Business Condition Analysis	3
FIN 4812	International Finance	3
FIN 4813	Financial Management	3
	and Tourism Management ired Courses 18 Crea	dita
		uits
HTM 3001	Sustainable Tourism	3
HTM 3101	Introduction to Hospitality	
	Management	3
HTM 3102	Introduction to Tourism Management	3
HTM 3103	Consumer Behavior in Hospitality	
	and Tourism Industry	3
HTM 3205	Marketing in Hospitality and	
	Tourism	3
HTM 3211	Food and Beverage Management	3
	al Business Management	
Minor Requ	ired Courses 18 Cree	dits
IBM 2702	International Business Environment	3
IBM 3711	Comparative Management	3
IBM3713	International Management	3
IBM3714	Export-Import Policy and Strategy	3
IBM4811	International Strategic Management	3
MKT3620	Global Marketing	3
Industrial M	anagement	

Minor Requ	ired Courses	18 Credits
 IDM 3203	Logistics and Supply	
	Chain Management	3
IDM 3204	Industrial Safety and Risk Management	3

IDM 4201 IDM 4203	Manufacturing Planning and C Quality Management	Control	3 3
IDM 4206	Industrial Environmental Management		3
MGT 3905	Operations Management		3
Managemer			
Minor Requ	ired Courses	18 Cred	its
MGT 3901	Organization Theory		3
MGT 3903	5		3
MGT 3917	Innovation and Change		
	Management		3
MGT 3923	Strategic Human Resources		2
MGT 3942	Management Organizational Behavior		3 3
MGT 3942 MGT 4916	Negotiation Strategy		3
mar iyro	Regoliation strategy		5
Marketing			
Minor Requi	18 Credi	its	
MKT 3102	Integrated Marketing		
	Communications		3
MKT 3525	Sales Management		3
MKT 3530	Consumer Behavior		3
MKT 3837	Service and Customer		2
	Relationship Management		3

#### Real Estate Management

MKT 4730 Marketing Management

MKT 4809 Marketing for Services

Minor Required Courses 18 Cre		8 Credits
REM 3111	Principles of Real Estate	3
REM 3112	Real Estate Law	3
REM 3113	Real Estate Economics	3
REM 3114	Building Design and	
	Construction Techiques	3
REM 3211	Principles of Real Estate	
	Development	3
REM 4113	Principles of Property Managem	nent 3

3

3

## C. Free Elective Courses 6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

Free elective courses of the Department which are offered to non Business Chinese Major:

CN 0400	Chinese for Beginners I	3
CN 0401	Chinese for Beginners II	3

3

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JA 2702

**Minor Elective Courses** 

requisites (if any).

Japanese III

Students can take any course from the Department of Business Japanese upon completion of the pre-

3

6 Credits



## STUDY PLAN

FIRST YEAR First Semest	er	_
Course Code	e Course Title	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
CN 1400	Introduction to Chinese	3
CN 1430	Listening and Speaking	
	in Chinese I	1
GE 1201	Information Literacy Skills	1
or GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communicatio	n Skills
	(For international students)	3
	Total	17

## Second Semester

Course Code	Course Title	Credits	Cοι
BG 1002	English II	3	ACT
BG 1301	Fundamentals of Statistics	3	
BG 2401	Microeconomics	3	BG
BIS 1141	Business Software Applications	0	BIS
CN 1401	Chinese I	3	CN
CN 1431	Listening and Speaking in Chinese	II 1	CN
GL 1101	Elements of Spoken Language	3	
MGT 1101	Introduction to Business	3	MG
	Total	19	

SECOND YEAR First Semester		
Course Code	Course Title	Credits
BG 2000	English III	3
BG 2400	Macroeconomics	3
CN 2401	Chinese II	3
CN 2431	Chinese Oral Comprehension	
	and Expression I	2
MGT 2404	Managerial Psychology	3
MKT 2280	Principles of Marketing	3
	Total	17

Second Seme	ester	
Course Code	Course Title	Credits
ACT 1601	Fundamentals of Financial	
	Accounting	3
BG 2001	English IV	3
BIS 2180	Information Technology	3
CN 2402	Chinese III	3
CN 2432	Chinese Oral Comprehension	
	and Expression II	2
MGT 2900	Principles of Management	3
	Total	17



THIRD YEAR First Semester		
Course Code	e Course Title	Credits
CN 3403 CN 3434	Chinese IV Chinese Conversation	3
	and Discussion I	3
CN 3450	Introduction to Chinese Writing	3
CN 3470	Translation I: Chinese-Thai	3
or CN 3441	Chinese Reading and Oral Repo	
	(only for international students)	
	One Major Elective Course	3
	One Minor Course	3
	Total	18
Second Sem	ester	
Course Code	e Course Title	Credits
CN 3410	Business Communication	

in Chinese

Discussion II

Total

Chinese Conversation and

Introduction to Chinese Culture Two Major Elective Courses One Minor Course

CN 3435

CN 3463

FOURTH YEAR First Semester		
Course Code	e Course Title	Credits
CN 4471 or CN 4440	Translation II: Thai-Chinese Reading in Business Chinese	3
	(only for international students)	3
	Two Major Elective Courses	6
	One Minor Course	3
	Two Free Elective Courses	6
	Total	18

	Credits
munication	3

3 3 6

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18

Course Code	Course Title	Credits
CN 4442 GE 1101 GE 2202	Reading in Chinese Newspapers Thai Civilization Ethics Three Minor Courses	3 3 9
	Total	18



## DEPARTMENT OF BUSINESS JAPANESE

#### OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Have a sense of social and self responsibility and become an ethical citizen of the society.
- Have up-to-date and business language skills both in Japanese and in English for listening, speaking, reading and writing through technologies.
- Demonstrate skills and expertise in applying knowledge to real life context and solving problems creatively and efficiently.
- Able to work and communicate effectively with both Thai and international people with respect and courtesy.
- Able to use information technology and other technologies in communicating and presenting information.

## COURSES

<mark>A. General E</mark> Language C	40 Credits 15 Credits	
BG 1001		3
BG 1002	English II	3
BG 2000	5	3
BG 2001	5	3
	Communication in Thai	3
or GE 1401	Language and Communicati (For International students)	ion Skills 3
Social Science Courses		13 Credits
	Macroeconomics	3
BG 2401	Microeconomics	3
GE 1201	Information Literacy Skills	1
or GE 1204	Physical Education	1
GE 2202	Ethics	3
MGT 2404	Managerial Psychology	3
Humanities	Courses	6 Credits
GE 1101	Thai Civilization	3
GE 2101	World Civilization	3

Science and	Mathematics Courses	6 Credits
BG 1200	Mathematics for Business	3
GE 1301	Environmental Science	3
B. Specialize		6 Credits
Core Course	25 3i	0 Credits
BG 1301	Fundamentals of Statistics	3
BIS 1141	<b>Business Software Applications</b>	0
BIS 2180	Information Technology	3
FIN 2700	Money, Banking and Financial Markets	3
GE 2103	Art of Reasoning	3
GL 1101	Elements of Spoken Language	3
GL 3102	Introduction to Linguistics	3
GL 3103	Language, Culture and Behavior	3
MGT 1101	Introduction to Business	3
MGT 2900	Principles of Management	3
MKT 2280	Principles of Marketing	3
Major Requi	ired Courses 3	9 Credits
 JA 1700	Introduction to Japanese	3
JA 1701	Japanese I	3
JA 2701	Japanese II	3
JA 2702	Japanese III	3
JA 2703	Basic Reading and Writing I	3
JA 2704	Basic Reading and Writing II	3
JA 3701	Intermediate Japanese Gramma	r 3
JA 3702	Business Japanese I	3
JA 3704	Oral Comprehension and Express	
JA 4701	Reading in Business Japanese I	3
JA 4702	Business Writing in Japanese I	3
JA 4703	Translation I (Japanese-Thai)	3
or JA 4721	Japanese Conversation and Discussion	
	(For international students)	3
JA 4704	Translation II (Thai-Japanese)	3
or JA 4725	Translation in Business Japanese	2
	(For international students)	3
Major Electi	ve Courses	9 Credits
 JA 3721	Introduction to Japanese	
-	Linguistics	3
JA 3722	Japanese Reading and Oral Repo	
JA 3723	Introduction to Japanese Phone	
JA 3724	Aspects of Japan	3
JA 3725	Japanese for Secretaries	3
JA 3726	Japanese for Tourism	3
JA 3727	Japanese for Hotels	3



JA 3728	Japanese for Airline Services	3	
JA 3729	Survey of Japanese Literature	3	
JA 4721	Japanese Conversation		
	and Discussion	3	
JA 4722	Reading in Business Japanese	II 3	
JA 4723	Business Writing in Japanese I	I 3	
JA 4724	Business Japanese II	3	
JA 4725	Translation in Business Japane	ese 3	
JA 4726	Public Speaking in Japanese	3	
JA 4727	Seminar	3	
Minor Cours	es	18 Credits	
Minor Cours Business Chi		18 Credits	
	nese	18 Credits 12 Credits	
Business Chi Minor Requi	nese red Courses	12 Credits	
Business Chi Minor Requi  CN 1400	nese red Courses Introduction to Chinese	12 Credits	
Business Chi Minor Requi CN 1400 CN 1401	nese red Courses Introduction to Chinese Chinese I	12 Credits 3 3	
Business Chi Minor Requi CN 1400 CN 1401 CN 2401	nese red Courses Introduction to Chinese Chinese I Chinese II	12 Credits 3 3 3	
Business Chi Minor Requi CN 1400 CN 1401	nese red Courses Introduction to Chinese Chinese I	12 Credits 3 3	
Business Chi Minor Requi CN 1400 CN 1401 CN 2401 CN 2402	nese red Courses Introduction to Chinese Chinese I Chinese II Chinese III	12 Credits 3 3 3 3 3	
Business Chi Minor Requi CN 1400 CN 1401 CN 2401	nese red Courses Introduction to Chinese Chinese I Chinese II Chinese III	12 Credits 3 3 3	

Students can take any courses from the Department of Business Chinese upon completion of the prerequisites (if any).

#### **Business English**

Minor Required Courses		12 Credits
EN 2230 EN 3210	Listening and Speaking Business Communication	3
	in English I	3
EN 4232	<b>Business Conversation</b>	3
EN 4233	Public Speaking in English	3
Minor Elect	tive Courses	6 Credits

Students can take any courses from the Department of Business English upon completion of the prerequisites (if any).

#### **Business French**

Minor Required Courses		12 Credits
FR 1500	Introduction to French	3
FR 1501	French I	3
FR 2501	French II	3
FR 2502	French III	3





6 Credits

### Minor Elective Courses

Students can take any courses from the Department of Business French upon completion of the prerequisites (if any).

## Thai

Minor Required Courses		18 Credits
TH 1500	Introduction to Thai	
TH 1501	Thai Language I	3
TH 2501	Thai Language II	3
TH 2502	Thai Language III	3
TH 3501	Advanced Reading	3
TH 3502	Thai Writing Development	3
Business In	formation Systems	
Minor Requ	uired Courses	18 Credits
BIS 3315	Programming and Algorithms	3
BIS 3349	Fundamentals of Computer Gra	phics 3
BIS 3635	Database Systems	3
BIS 3655	Data Communications and	
	Networking	3
BIS 3666	Information Systems Analysis	
	and Design	3
BIS 4675	Information Systems Project	
	Management	3
Finance an		
Minor Requ	uired Courses	18 Credits
FIN 3701	Corporate Finance	3
FIN 3711		3
FIN 3712	Money and Capital Markets	3
FIN 3714		3
FIN 4812	International Finance	3
FIN 4813	Financial Management	3

## Hospitality and Tourism Management

Minor Required Courses 18 Credits HTM 3001 Sustainable Tourism HTM 3101 Introduction to Hospitality Management

HTM 3102	Introduction to Tourism
	Industry Management
HTM 3103	Consumer Behavior in Hospitality
	and Tourism Industry
HTM 3205	Marketing in Hospitality and Tourism
HTM 3211	Food and Beverage Management

Minor Requ	ired Courses 18 Cree	di
IBM 2702	International Business Environment	
IBM 3711	Comparative Management	
IBM 3713	International Management	
IBM 3714	Export-Import Policy and Strategy	
IBM 4811	International Strategic Management	
MKT 3620	Global Marketing	
	lanagement	
Minor Requ	ired Courses 18 Cree	di
IDM 3203	Logistics and Supply	
	Chain Management	
IDM 3204	Industrial Safety and Risk	
	Management	
IDM 4201	Manufacturing Planning and Control	
IDM 4203	Quality Management	
IDM 4206	Industrial Environmental Management	
MGT 3905	Operations Management	
Manageme	nt	4:
Manageme	. 5	di
Manageme	nt	di
Manageme Minor Requ	nt ired Courses 18 Cree Organization Theory Leadership	di
Manageme Minor Requ  MGT 3901 MGT 3903 MGT 3917	nt ired Courses 18 Cree Organization Theory Leadership Innovation and Change Management	di
Manageme Minor Requ MGT 3901 MGT 3903	nt ired Courses 18 Cree Organization Theory Leadership	di
Manageme Minor Requ  MGT 3901 MGT 3903 MGT 3917	nt ired Courses 18 Crea Organization Theory Leadership Innovation and Change Management Strategic Human Resources Management	di
Manageme Minor Requ  MGT 3901 MGT 3903 MGT 3917	nt ired Courses 18 Cree Organization Theory Leadership Innovation and Change Management Strategic Human Resources Management Organizational Behavior	di
Manageme Minor Requ MGT 3901 MGT 3903 MGT 3917 MGT 3923	nt ired Courses 18 Crea Organization Theory Leadership Innovation and Change Management Strategic Human Resources Management	di
Manageme Minor Requ MGT 3901 MGT 3903 MGT 3917 MGT 3923 MGT 3942 MGT 4916 Marketing	nt ired Courses 18 Crea Organization Theory Leadership Innovation and Change Management Strategic Human Resources Management Organizational Behavior Negotiation Strategy	
Manageme Minor Requ MGT 3901 MGT 3903 MGT 3917 MGT 3923 MGT 3942 MGT 4916 Marketing	nt ired Courses 18 Cree Organization Theory Leadership Innovation and Change Management Strategic Human Resources Management Organizational Behavior	
Manageme Minor Requ MGT 3901 MGT 3903 MGT 3917 MGT 3923 MGT 3942 MGT 4916 Marketing	nt ired Courses 18 Crea Organization Theory Leadership Innovation and Change Management Strategic Human Resources Management Organizational Behavior Negotiation Strategy ired Courses 18 Crea Integrated Marketing	
Manageme Minor Requ MGT 3901 MGT 3903 MGT 3917 MGT 3923 MGT 3942 MGT 4916 Marketing Minor Requ Minor Requ MKT 3102	nt ired Courses 18 Crea Organization Theory Leadership Innovation and Change Management Strategic Human Resources Management Organizational Behavior Negotiation Strategy ired Courses 18 Crea Integrated Marketing Communications	
Manageme Minor Requ MGT 3901 MGT 3903 MGT 3917 MGT 3923 MGT 3942 MGT 4916 Marketing Minor Requ MKT 3102 MKT 3525	nt ired Courses 18 Crea Organization Theory Leadership Innovation and Change Management Strategic Human Resources Management Organizational Behavior Negotiation Strategy ired Courses 18 Crea Integrated Marketing Communications Sales Management	
Manageme Minor Requ MGT 3901 MGT 3903 MGT 3917 MGT 3923 MGT 3942 MGT 4916 Marketing Minor Requ MKT 3102 MKT 3525 MKT 3530	nt ired Courses 18 Creat Organization Theory Leadership Innovation and Change Management Strategic Human Resources Management Organizational Behavior Negotiation Strategy ired Courses 18 Creat Integrated Marketing Communications Sales Management Consumer Behavior	
Manageme Minor Requ MGT 3901 MGT 3903 MGT 3917 MGT 3923 MGT 3942 MGT 4916 Marketing Minor Requ Minor Requ MKT 3102	nt ired Courses 18 Crea Organization Theory Leadership Innovation and Change Management Strategic Human Resources Management Organizational Behavior Negotiation Strategy ired Courses 18 Crea Integrated Marketing Communications Sales Management	

#### C. Free Elective Courses 6 Credits

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MKT 4730 Marketing Management

MKT 4809 Marketing for Services

Students can take free elective courses of 6 Credits from any faculty in Assumption University upon completion of the prerequisites (if any).

#### STUDY PLAN

FIRST YEAR First Semest	er	
Code	Subjects	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
GE 1101	Thai Civilization	3
GE 1201	Information Literacy Skills	1
or GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication	
JA 1700	(For international students)	3
JA 1700	Introduction to Japanese	3
	Total	19
Second Sem	iester	
Code	Subjects	Credits
BG 1002	English II	3
BG 1301	Fundamentals of Statistics	3
BG 2401	Microeconomics	3
BIS 1141	Business Software Applications	0
GL 1101	Elements of Spoken Language	3
JA 1701	Japanese I	3
MGT 1101	Introduction to Business	3
	Total	18

SECOND YEA First Semest		
Code	Subjects	Credits
BG 2000	English III	3
BG 2400	Macroeconomics	3
JA 2701	Japanese II	3
JA 2703	Basic Reading and Writing I	3
MGT 2404	Managerial Psychology	3
MKT 2280	Principles of Marketing	3
	Total	18

Second Semester		
Code	Subjects	Credits
BG 2001	English IV	3
BIS 2180	Information Technology	3
FIN 2700	Money, Banking and	
	Financial Markets	3
JA 2702	Japanese III	3
JA 2704	Basic Reading and Writing II	3
MGT 2900	Principles of Management	3
	Total	18

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## THIRD YEAR First Semester

Code	Subjects	Credits
GL 3102 JA 3701 JA 3702 JA 3704	Introduction to Linguistics Intermediate Japanese Grammar Business Japanese I Oral Comprehension and Expression One Major Elective Course One Minor Course	3 3 3 1 3 3 3
	Total	18

### Second Semester

Code	Subjects	Credits
JA 4703 or JA 4721	Translation I: Japanese-Thai Japanese Conversation and Discussion	3
	(For international students)	3
GL 3103	Language, Culture and Behavior	3
GE 2101	World Civilization	3
	One Major Elective Course	3
	One Minor Course	3
	One Free Elective Course	3
	Total	18

#### FOURTH YEAR First Semester Code Subjects Credits JA 4701 Reading in Business Japanese I 3 Business Writing in Japanese I JA 4702 3 JA 4704 Translation II: Thai-Japanese 3 Translation in Business Japanese or JA 4725 (For international students) 3 Two Minor Courses 6 One Free Elective Course 3 18 Total Second Semester Code Subjects Credits GE 2202 Ethics 3 GE 2103 Arts of Reasoning 3 One Major Elective Course 3 Two Minor Courses 6 Total 15

## DEPARTMENT OF CHINESE FOR ECONOMY AND TRADE

## OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Have personal integrity, open mind and sense of self and social responsibility.
- Be proficient in Chinese language for economy and trade, and understand various aspects of Chinese culture and know how to apply them appropriately.
- Have analytical and critical skills and able to apply knowledge to real practice.
- Able to work in a team with mutual respect and courtesy.
- Able to work and communicate with both Thai and Chinese people fluently and accurately.

## COURSES

<mark>A. General E</mark> Language C	Education Courses Courses	30 Credits 15 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001		3
	Communication in Thai	3
or GE 1401	Language and Communicatio (For International students)	n Skills 3
Social Scien	ce Courses	9 Credits
BG 2400	Macroeconomics	3
BG 2401	Microeconomics	3
GE 2202	Ethics	3
Humanities	Courses	3 Credits
GE 2101	World Civilization	3
Science and	Mathematics Courses	3 Credits
GE 1301	Environmental Science	3

B. Specializ		99 Credits 63 Credits
CET 1811	Foundation Chinese I	- 3
CET 1812	Foundation Chinese II	3
CET 1821	Chinese Listening and Speakin	gl 3
CET 1822	Chinese Listening and Speakin	
CET 1831	Chinese Reading and Writing I	3
CET 1832	Chinese Reading and Writing II	3
CET 1841	Chinese Grammar and Usage I	3
CET 1842	Chinese Grammar and Usage II	3
CET 2813	Intermediate Chinese I	3
CET 2814	Intermediate Chinese II	3
CET 2823	Intermediate Chinese Listening	9
	and Speaking I	3
CET 2824	Intermediate Chinese Listening	9
	and Speaking II	3
CET 2833	Intermediate Chinese Reading	
	and Writing I	3
CET 2834	Intermediate Chinese Reading	
	and Writing II	3
CET 2851	Chinese for Business I	3
CET 2852	Chinese for Business II	3
CET 3815	Advanced Chinese I	3
CET 3816	Advanced Chinese II	3
CET 3851	Chinese for Economy and Trade	
CET 3852	Chinese for Economy and Trade	
CET 4853	Chinese for Economy and Trade	elli 3
Major Requ	ired Courses	30 Credits
CET 2052	Ducing on Whiting in Chingson I	-

CET 3853	Business Writing in Chinese I	3
CET 3854	Business Writing in Chinese II	3
CET 3862	Chinese for Business Conversation I	3
CET 3863	Chinese for Business Conversation II	3
CET 4861	Business Negotiation in Chinese	3
CET 4871	Principles of Economics in Chinese	3
CET 4872	Contemporary Chinese Economy	
	and Trade	3
CET 4873	Reading Comprehension on	
	Economy and Trade	3
CET 4881	Business Research Methodology	
	in Chinese	3
CET 4882	Business Research Writing	
	in Chinese	3



6 Credits

STUDY PLAN

Major Elect	ive Courses	6 Credits
CET 4854	Thai-Chinese Translation	-
	in Economy and Trade	3
CET 4874	Directed Studies in Economy	
	and Trade	3
CN 3480	Chinese for Secretaries	3
CN 3481	Chinese for Tourism	3
CN 3482	Chinese for Hotels	3
CN 4440	Reading in Business Chinese	3

## C. Free Elective Courses

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

Course Cod	leCourse Title	Credits
BG 1001	English I	3
CET 1811	Foundation Chinese I	3
CET 1821	Chinese Listening and Speaking I	3
CET 1831		3
CET 1841		3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication	
	(For international students)	3
	Total	18
Second Sen		
	nester  le Course Title	Credits
		Credits
Course Cod	le Course Title	
Course Cod BG 1002	leCourse Title English II Foundation Chinese II	3
Course Cod BG 1002 CET 1812 CET 1822 CET 1832	le Course Title English II Foundation Chinese II Chinese Listening and Speaking II Chinese Reading and Writing II	3
Course Cod BG 1002 CET 1812 CET 1822 CET 1832 CET 1832 CET 1842	le Course Title English II Foundation Chinese II Chinese Listening and Speaking II Chinese Reading and Writing II Chinese Grammar and Usage II	3
Course Cod BG 1002 CET 1812 CET 1822 CET 1832	le Course Title English II Foundation Chinese II Chinese Listening and Speaking II Chinese Reading and Writing II Chinese Grammar and Usage II	



Credits

3

3

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18

Credits

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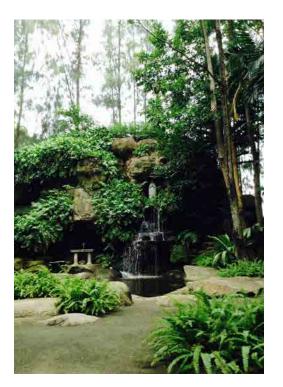
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SECOND Y First Seme	ster		THIRD YEA First Seme	ster	
Course Code Course Title		Credits		de Course Title	Cre
BG 2000	English III	3	CET 3815	Advanced Chinese I	
BG 2400	Macroeconomics	3	CET 3851	Chinese for Economy and Trade I	
CET 2813	Intermediate Chinese I	3	CET 3853		
CET 2823	Intermediate Chinese Listening		CET 3862	Chinese for Business Conversatio	nl
	and Speaking I	3	GE 2202		
CET 2833	Intermediate Chinese Reading			One Free Elective Course	
	and Writing I	3			
CET 2851	Chinese for Business I	3		Total	
	Total	18			
			Second Ser	mester	
Second Se	mester			de Course Title	Cre
	de Course Title	Credits	CET 3816	Advanced Chinese II	
			CET 3852		I
	English IV	3	CET 3854		
BG 2401		3	CET 3863		II
CET 2814		3	GE 2101		
CET 2824	J			One Free Elective Course	
CET 0 00 4	and Speaking II	3			
CET 2834	Intermediate Chinese Reading	2		Total	
CET 2052	and Writing II	3			
CET 2852	Chinese for Business II	3			
	Total	18			



## FOURTH YEAR First Semester

Course Code	e Course Title	Credits
CET 4853	Chinese for Economy and Trade I	II 3
CET 4861	<b>Business Negotiationin Chinese</b>	3
CET 4871 CET 4881	Principles of Economics in Chine Business Research Methodology	
	in Chinese	3
	One Major Elective Course	3
	Total	15
Second Sem	ester	
Course Code	e Course Title	Credits
CET 4872	Contemporary Chinese	
	Economy and Trade	3
CET 4873	Reading Comprehension	
	on Economy and Trade	3
CET 4882	Business Research Writing	
	in Chinese	3
	One Major Elective Course	3
	Total	12







Curriculum Structure Courses	Music Business	Music Performance
General Education Courses	34	34
- Language Courses	15	15
- Social Science Courses	10	10
- Humanities Courses	3	3
- Science and Mathematics Courses	6	6
Specialized Courses	103	108
- Core Courses	33	36
- Major Required Courses	37	40
- Major Elective Courses	15	14
- Minor Required Courses	12	12
- Minor Elective Courses	6	6
Free Electives Courses	6	6
Total Credits	143	148



#### **GRADUATION REQUIREMENTS**

Assumption University confers the degree of Bachelor of Arts in Music Business / Bachelor of Music in Music Performance upon students who meet all of the following requirements:

- Have completed the total number of credits of the curriculum
- Have obtained a cumulative grade point average of at least 2.00
- Have participated in 16 sessions of the Professional Ethics Seminar
- Have obtained library and financial clearance from the University
- Have demonstrated good behavior and discipline
- Have completed the MU 7111 I VIII Concert Attendance (Concerts, Workshops, Graduate orientation, Guest speakers and Guest lecturers)



#### Assumption University of Thailand | School of Music

## **DEPARTMENT OF MUSIC BUSINESS**

## OBJECTIVES

#### To produce graduates who have the characteristics, knowledge and skills as follows:

- 1. Understand the code of ethics in the music industry.
- 2. Have awareness of the impact of music on society and community well-being.
- 3. Have knowledge in business and skills in performance, composition, arrangement and music technology wit individual creativity essential for musician careers as performers, writers, teachers, producers, and entrepreneurs.
- 4. Have social understanding and appreciation of the value of musical service to community and culture, as well as the necessity of continuous improvement in their careers.
- 5. Integrate their professional growth and intellectual development with their interpersonal skills.
- 6. Able to interact with people in the music business and with the audience during music performance.
- 7. Able to use information technology and other technologies in communicating and presenting information.

#### COURSES

A. General	Education Courses	34 Credits
Language (	Courses	15 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication	n Skills 3
	(For international students)	
c c .	C. C	10.0 11
	nce Courses	10 Credits
BG 2403		3
GE 1201		1
GE 2202		3
MGT 2404		3
	2 / 3/	
Humanities	Courses	3 Credits

World Civilization GE 2101

Science and Mathematics Courses		6 Credits
BG 1200 GE 1301	Mathematics for Business Environmental Science	3
B. Specialize Core Course		103 Credits 33 Credits
EN 3289	English for Music Business	3
MA 1301	Applied Music I	2
MA 1302	Applied Music II	2
MA 2301	Applied Music III	2
MA 2302	Applied Music IV	2
MA 3301	Applied Music V	2
MA 3302	Applied Music VI	2
MGT 1101	Introduction to Business	3
MGT 2900	Principles of Management	3
MKT 2280	Principles of Marketing	3
MU 0020	Fundamentals of Music	
	Theory	Non-credit
MU 2211	History of Thai Music	3
MU 3221	History of Western Music I	2
MU 3222	History of Western Music II	2
MU 4221	History of Western Music III	2
MU 7111	Concert Attendance I-VIII	Non-credit

. General anguage (	Education Courses	34 Crec 15 Crec	
			1113
G 1001	English I		3
G 1002	English II		3
G 2000	English III		3
G 2001	English IV		3
E 1403	Communication in Thai		3
r GE 1401	Language and Communication	n Skills	3
	(For international students)		
ocial Scier	nce Courses	10 Crec	lits
G 2403	Introduction to Economics		3
E 1201	Information Literacy Skills		1
E 2202	Ethics		3
1GT 2404	Managerial Psychology		3
	_		

Major Requ	uired Courses 37 Cre	dits
MB 2421	Music Production Technology	3
MB 2521	Music Business I	3
MB 2522	Music Business II	3
MB 3421	Music Business Technology	3
MB 3512	Legal Aspects of Music Business	3
MB 3513	Local Internship in Music	
	Industry (240 hours)	3
MB 4511	Music Business Artist/Project	
	Management	3
MB 4521	Selected Topics in Music Industry I	1
MB 4522	Selected Topics in Music Industry II	2
MB 4523	Music Business Seminar	2
MU 0111	Ear Training I	1
MU 0112	Ear Training II	1
MU 1111	Theory of Western Music I	3
MU 1112	Theory of Western Music II	3
MU 2113	Theory of Western Music III	3

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#### Major Elective Courses 15 Credits Music Ensemble MA 0610 2 MA 2501 Chorus I MA 2502 Chorus II MA 2503 Chorus III MA 2504 Chorus IV MA 4311 Advanced Performance I 2 MA 4312 Advanced Performance II 2 MB 3423 Sound Design and Sound Logo 3 MB 3531 History of Music Industry in Thailand 3 MB 3532 Classical Music Management 3 MB 4512 Music in Film Industry 3 MB 4514 Career Options in Music Business 3 MGT 3922 Introduction to New Venture 3 MGT 3924 Human Resources Development 3 MKT 3627 Sales Promotion 3 MKT 3628 Public Relations 3 MKT 3629 Pricing Strategy and Decision 3 MKT 3823 Marketing Channel Strategy and Decisions З MKT 4725 Competitive Analysis and Strategy 3 MKT 4726 Advertising and Creative Strategies 3 MKT 4806 Product and Brand Management 3 MU 2221 Popular Music Literature 3 MU 3121 Composition 3 MU 3731 Introduction to Music Education 3 MU 4103 Form and Analysis 3 MU 4112 Arranging 3 MU 4223 Music in Human Life 3 18 Credits Minor Courses Marketing **Minor Required Courses** 18 Credits MKT 3102 Integrated Marketing Communications 3 MKT 3525 Sales Management 3 MKT 3530 Consumer Behavior 3 Service and Customer MKT 3837 Relationship Management 3

#### Management

Minor Required Courses 18		edits
MGT 3901	Organization Theory	3
MGT 3903	Leadership	3
MGT 3917	Innovation and Change Management	3
MGT 3923	Strategic Human Resources	
	Management	3
MGT 3942	Organizational Behavior	3

MKT 4730 Marketing Management

MKT 4809 Marketing for Services

Business Eng Minor Requir		12 Credits
EN 2230 EN 3210	Listening and Speaking Business Communication in English I	3
EN 4232 EN 4233	Business Conversation Public Speaking in English	3
Minor Electiv	ve Courses	6 Credits
	take any courses from the I ness English upon completi s (if any).	
Business Frei Minor Requir		12 Credits
FR 1500 FR 1501 FR 2501 FR 2502	Introduction to French French I French II French III	3 3 3 3
Minor Electiv	ve Courses	6 Credits
	take any courses from the I ness French upon completic ; (if any).	•
Business Chi Minor Requi		12 Credits
CN 1400 CN 1401 CN 2401 CN 2402	Introduction to Chinese Chinese I Chinese II Chinese III	3 3 3 3

MGT 4916 Negotiation Strategy

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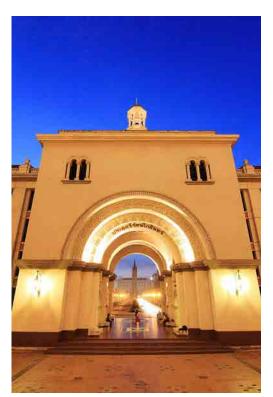
**Minor Elective Courses** 6 Credits Students can take any courses from the Department of Business Chinese upon completion of the prerequisites (if any).

## **Business Japanese**

Minor Required Courses	12 Credits	
JA 1700 Introduction to Japanese JA 1701 Japanese I JA 2701 Japanese II JA 2702 Japanese III	3 3 3	



Minor Elect	ive Courses	6 Credits	
	n take any courses from the D siness Japanese upon complet es (if any).	•	
C. Free Elec	tive Courses	6 Credits	
Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).			
students	tive Courses open to non-mu		
	e courses which are offered by f Music Business of School of I		
MA 0610 MA 1300 MU 1001	Music Ensemble Introduction to Applied Mu Music Appreciation	2 sic 1 3	



#### STUDY PLAN

FIRST YEAR First Semester			
Course Code	e Course Title	Credits	
BG 1001	English I	3	
BG 1200	Mathematics for Business	3	
GE 1201	Information Literacy Skills	1	
GE 1403	Communication in Thai	3	
or GE 1401	Language and Communica	tion Skills	
	(For international students)	3	
GE 2101	World Civilization	3	
MA 1301	Applied Music I	2	
MU 0111	Ear Training I	1	
MU 1111	Theory of Western Music I	3	
MU 7111	Concert Attendance I	Non-credit	
	Total		

#### Second Semester

Course Code	e Course Title	Credits
BG 1002	English II	3
GE 1301	Environment Science	3
MA1302	Applied Music II	2
MGT 1101	Introduction to Business	3
MU 0112	Ear Training II	1
MU 1112	Theory of Western Music II	3
MU 2211	History of Thai Music	3
MU 7111	Concert Attendance II	Non-credit
	Total	18

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## SECOND YEAR First Semester

Course Code Course Title Credits		
BG 2000	English III	3
BG 2403	Introduction to Economics	3
MA 2301	Applied Music III	2
MB 2521	Music Business I	3
MGT 2900	Principles of Management	3
MU 2113	Theory of Western Music III	3
MU 3221	History of Western Music I	2
MU 7111	Concert Attendance III	Non-credit
	Total	19

#### THIRD YEAR First Semester Course Code Course Title Credits EN 3286 English for Music Business 3 MA 3301 Applied Music V 2 MB 3421 Music Business Technology 3 Legal Aspects of Music Business History of Western Music III MB 3512 3 MU 4221 2 MU 7111 Concert Attendance V Non-credit One Major Elective Course 3 ----

#### Second Semester

Course Code	e Course Title	Credits
BG 2001	English IV	3
MA 2302	Applied Music IV	2
MB 2421	Music Production Technolo	gy 3
MB 2522	Music Business II	3
MGT 2404	Managerial Psychology	3
MKT 2280	Principles of Marketing	3
MU 3222	History of Western Music II	2
MU 7111	Concert Attendance IV	Non-credit
	Total	19

	One Minor Course	3
	Total	19
Second Sem	nester	
Course Code	e Course Title	Credits
GE 2202	Ethics	3
MA 3302	Applied Music VI	2
MB 4511	Music Business Artist/Proje	ct
	Management	3
MU 7111	Concert Attendance VI	Non-credit
	One Major Elective Course	3
	One Minor Course	3
	Total	

## Summer Session

Course Cod	e Course Title	Credits
MB 3513	Local Internship in Music Industry (240 hours)	3
	Total	3

FOURTH Y First Seme			Second Sei	mester
Course Coo	de Course Title	Credits	Course Coo	de Cours
MB 4521 MU 7111	Selected Topics in Music Ind Concert Attendance VII Two Major Elective Courses Two Minor Courses One Free Elective Course	,	MB 4522 MB 4523 MU 7111	Selecte Music Conce One M Two M
	Total	 16		One F

#### Credits ourse Title elected Topics in Music Industry II 2 lusic Business Seminar 2 oncert Attendance VIII Non-credit ne Major Elective Course 3 wo Minor Courses 6 ne Free Elective Course 3 _____ Total 16





# DEPARTMENT OF MUSIC PERFOR-MANCE

## OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Understand the code of ethics in the music industry.
- · Have awareness of the impact of music on society and community well-being.
- · Have knowledge and skills in performance, composition, arrangement and music technology with individual creativity essential for musician careers as performers, writers, teachers and producers.
- · Have social understanding and appreciation of the value of musical service to community and culture, as well as the necessity of continuous improvement in their careers.
- · Integrate their professional growth and intellectual development with their interpersonal skills.
- · Able to interact with people in the music business and with the audience during music performance.
- Able to use information technology and other technologies in communicating and presenting information.

# COURSES

Language C	ducation Courses ourses	34 Cre 15 Cre	
BG 1001 BG 1002 BG 2000 BG 2001 GE 1403 or GE 1401	English I English II English III English IV Communication in Thai Language and Communicatior (For international students)	n Skills	3 3 3 3 3 3
Social Scien	ce Courses	10 Cre	dits
GE 1201 GE 2202 MGT 1101 MGT 2404			1 3 3 3
Humanities	Courses	3 Cre	dits

GE 2101	Wo	rld Civilization	3
Science	and Matl	hematics Courses	6 Credits
BG 1200 GE 1301		thematics for Business vironmental Science	3
<mark>B. Speci</mark> Core Co	a <mark>lized Co</mark> urses	urses	108 Credits 36 Credits
MA 250 MA 250 MA 250 MU 002 MU 120 MU 120 MU 220 MU 220 MU 211 MU 211 MU 211 MU 211 MU 211 MU 221 MU 322 MU 322 MU 422 MU 422	2         Cho           3         Cho           4         Cho           50         Fur           70         Fur           71         Ear           72         Ear           73         Ear           74         Ear           75         The           76         The           77         The           78         The           79         The           71         The           72         The           73         The           74         The           75         The           76         The           77         The           78         The           79         The           70         The           71         His           72         His           73         The           74         The           75         The           76         The           77         The           78         The           79         The           710         The <t< td=""><td>orus I orus II orus III orus III orus IV damentals of sic Theory Training I Training II Training III Training IV eory of Western Music I eory of Western Music III eory of Western Music III eory of Western Music II tory of Western Music I tory of Western Music I tory of Western Music III tory of Western Music III sic in Human Life</td><td>1 1 1 Non-credit 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 2 2 2 2</td></t<>	orus I orus II orus III orus III orus IV damentals of sic Theory Training I Training II Training III Training IV eory of Western Music I eory of Western Music III eory of Western Music III eory of Western Music II tory of Western Music I tory of Western Music I tory of Western Music III tory of Western Music III sic in Human Life	1 1 1 Non-credit 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 2 2 2 2
MU 711 Major Ra Jazz Ma	equired C	ncert Attendance I-VIII Courses	Non-Credit 40 Credits
CEL 110 CEL 110 CIS 140 CIS 140 CIS 150 CIS 250 CIS 250 CIS 250 CIS 3500 CIS 3500 CIS 4500 CIS 4500 CIS 4500 CIS 4500 CIS 4500 CIS 110 CPS 110 CPS 110 CPS 210 CPS 340	1         Sigi           2         Sigi           2         Key           2         Key           2         Inst           2         Inst           3         Inst           5         Inst           5         Inst           6         Inst           7         Inst           01         Cor           02         Cor           11         Jazz           12         Jazz           11         Jazz	ht Reading Lab I ht Reading Lab I /board harmony I /board harmony II trumental Instruction I trumental Instruction III trumental Instruction IV trumental Instruction VI trumental Instruction VI trumental Instruction VI trumental Instruction VII trumental Instruction VII trumental Instruction VII trumental Instruction I trumental Instruction III temporary Arranging II z Improvisation II z Improvisation III formance Ear Training I	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2



CPS 3402 CPS 4401	Performance Ear Training II Jazz Recital	2 2	MA 330 MA 430
Songwriting	Major		MA 430 MC 320 MC 320
CEL 1101	Sight Reading Lab I	1	MC 320 MC 331
CEL 1102	Sight Reading Lab II	1	MC 351
CIS 1401	Keyboard harmony I	2	MC 351
CIS 1402	Keyboard harmony II	2	MC 431
CIS 1501	Instrumental Instruction I	2	MC 471
CIS 1502	Instrumental Instruction II	2	MU 250
CIS 2503	Instrumental Instruction III	2	MU 250
CIS 2504	Instrumental Instruction IV	2	MU 350
CMP 1201	Contemporary Arranging I	3	
CMP 1202	Contemporary Arranging II	3	Guitar M
CMP 2601	Practicum in Music Technology	3	
CMP 3105	Traditional Harmony I	2	MA 130
CMP 3106	Traditional Harmony II	2	MA 130
CMP 3204	Arranging for Song Writing	2	MA 230
CMP 3601	Songwriting	2	MA 230
CMP 3602	Advanced Song Writing	2	MA 330
CMP 3611	Vocal and Lyric Writing	2	MA 330
CMP 4110	Jazz Composition	2	MA 430
MU 1401	Computer for Musicians	3	MA 430
			MA 350
Piano Major			MC 322
			MC 322
MA 1301	Applied Music I	2	MC 331
MA 1302	Applied Music II	2	MC 421
MA 2301	Applied Music III	2	MC 431
MA 2302	Applied Music IV	2	MC 471
MA 3301	Applied Music V	2	MU 250
MA 3302	Applied Music VI	2	MU 250
MA 4301	Applied Music VII	2	MU 350
MA 4302	Applied Music VIII	2	
MC 2301	Accompaniment I	2	Lute Ma
MC 2302	Accompaniment II	2	
MC 3201	Keyboard Literature I	3	MA 130
MC 3202	Keyboard Literature II	3	MA 130
MC 3310	Junior Recital	2	MA 230
MC 4311	Senior Recital	4	MA 230
MC 4710	Piano Pedagogy	2	MA 330
MU 2501	Ensemble I	2	MA 330
MU 2502	Ensemble II	2	MA 430
MU 3501	Ensemble III	2	MA 430
			MC 323
Harpsichord	Major		MC 323
			MC 331
MA 1301	Applied Music I	2	MC 351
MA 1302	Applied Music II	2	MC 421
MA 2301	Applied Music III	2	MC 431
MA 2302	Applied Music IV	2	MC 471
MA 3301	Applied Music V	2	MU 250

MA 3302 MA 4301 MA 4302 MC 3201 MC 3202 MC 3310 MC 3511 MC 3512 MC 4311 MC 4711 MU 2501 MU 2502 MU 3501 Guitar Majo	Applied Music VI Applied Music VII Applied Music VIII Keyboard Literature I Keyboard Literature II Junior Recital Introduction to Basso Continuo Advanced Basso Continuo Senior Recital Harpsichord Pedagogy Ensemble I Ensemble II Ensemble III	2 2 3 3 2 2 2 4 2 2 2 2 2 2 2
MA 1301 MA 1302 MA 2301 MA 2302 MA 3301 MA 3302 MA 4301 MA 4302 MA 4301 MC 3221 MC 3222 MC 3310 MC 4212 MC 4311 MC 4712 MU 2501 MU 2502 MU 3501 Lute Major	Applied Music I Applied Music II Applied Music II Applied Music IV Applied Music V Applied Music V Applied Music VII Applied Music VIII Flamenco Techniques Guitar Literature I Guitar Literature I Junior Recital Lute Tablature Senior Recital Guitar Pedagogy Ensemble I Ensemble II Ensemble II	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
MA 1301 MA 1302 MA 2301 MA 2302 MA 3301 MA 3302 MA 4301 MA 4302 MC 3231 MC 3232 MC 3310 MC 3511 MC 4212 MC 4311 MC 4713 MU 2501	Applied Music I Applied Music II Applied Music II Applied Music IV Applied Music V Applied Music VI Applied Music VII Applied Music VIII Lute Literature I Lute Literature I Junior Recital Introduction to Basso Continuo Lute Tablature Senior Recital Lute Pedagogy Ensemble I	2 2 2 2 2 2 2 2 2 2 2 2 3 3 2 2 2 2 4 2 2 2 2



MU 2502 MU 3501	Ensemble II Ensemble III	2 2	
Vocal Major			C
 MA 1301	Applied Music I	2	C
MA 1302	Applied Music II	2	N
MA 1401	Piano Harmony I	2	N
MA 1402	Piano Harmony II	2	N
MA 2301	Applied Music III	2	N
MA 2302	Applied Music IV	2	N
MA 3301	Applied Music V	2	N
MA 3302	Applied Music VI	2	Ν
MA 4301	Applied Music VII	2	Ν
MA 4302	Applied Music VIII	2	Ν
MC 2242	Opera Staging	2	Ν
MC 2511	Vocal Diction I	1	Ν
MC 2512	Vocal Diction II	1	Ν
MC 3241	Vocal Literature	3	Ν
MC 3242	Opera Literature	3	Ν
MC 3310	Junior Recital	2	Ν
MC 3513	Vocal Diction III	1	
MC 3514	Vocal Diction IV	1	Ν
MC 4311	Senior Recital	4	
MC 4714	Vocal Pedagogy	2	С
			С
String, Percu	ission, Woodwind and Brass N	Najor	C
MA 1301	Applied Music I	2	C
MA 1302	Applied Music II	2	С
MA 1401	Piano Harmony I	2	С
MA 1402	Piano Harmony II	2	С
MA 2301	Applied Music III	2	С
MA 2302	Applied Music IV	2	С
MA 3301	Applied Music V	2	С
MA 3302	Applied Music VI	2	С
MA 4301	Applied Music VII	2	С
MA 4302	Applied Music VIII	2	C
MC 3310	Junior Recital	2	С
MC 4311	Senior Recital	4	С
MC 4715	String Pedagogy		С
	(for String major only)	2	С
or MC 4716	Percussion Pedagogy		C
	(for Percussion major only)	2	С
or MC 4717	Woodwind Pedagogy		С
	(for Woodwind major only)	2	С
or MC 4718	Brass Pedagogy		С
	(for Brass major only)	2	C
MU 2501	Ensemble I *	2	С
MU 2502	Ensemble II *	2	Ν
MU 3501	Ensemble III *	2	Ν
MU 3502	Ensemble IV *	2	Ν
MU 4501	Ensemble V *	2	Ν
MU 4502	Ensemble VI *	2	Ν

## Composition Major

Composition	Major	
CMP 4117	Counterpoint I	2
CMP 4118	Counterpoint II	2
MA 1101	Applied Composition I	2
MA 1102	Applied Composition II	2
MA 1401	Piano Harmony I	2
MA 2101	Applied Composition III	2
MA 2102	Applied Composition IV	2
MA 3101	Applied Composition V	2
MA 3102	Applied Composition VI	2
MA 4101	Applied Composition VII	2
MA 4102	Applied Composition VIII	2
MC 4312	Recital for Composition	4
MU 1401	Computer for Musicians	3
MU 2101	Orchestration	3
MU 2102	Conducting	2
MU 3110	Techniques of Modern Composition	3
MU 4103	Form and Analysis	3
Major Electiv	e Courses 14 Cre	dits
		1
CEL 1510	Pop / Rock Ensemble I	1
CEL 1511	Jazz Ensemble I	1
CEL 1512	Vocal Ensemble I	1
CEL 1513	Funk / Fusion Ensemble I Blues / R&B Ensemble I	1 1
CEL 1514	Latin Ensemble I	1
CEL 1515		1
CEL 2510 CEL 2511	Pop / Rock Ensemble II Jazz Ensemble II	1
CEL 2511 CEL 2512	Vocal Ensemble II	1
CEL 2512 CEL 2513	Funk / Fusion Ensemble II	1
CEL 2513	Blues / R&B Ensemble II	1
CEL 2514 CEL 2515	Latin Ensemble II	1
CEL 2313 CMP 2601	Practicum in Music Technology	3
CMP 2602	Song Demo Production	3
CMP 2002	Traditional Harmony I	2
CMP 3106	Traditional Harmony II	2
CMP 3303	Chord Scale Voicing for Arranging	2
CMP 3603	Music Production for all Media	3
CMP 3604	Jingle Writing	2
CMP 3611	Vocal and Lyric Writing	2
CMP 4109	Reharmonization Techniques	2
CMP 4117	Counterpoint I	2
CMP 4118	Counterpoint II	2
CPS 3401	Performance Ear Training I	2
CPS 3402	Performance Ear Training II	2
MA 1401	Piano Harmony I	2
MA 1402	Piano Harmony II	2
MA 3801	Contemporary Music Ensemble	1
MA 3901	Baroque Music Ensemble	1
MB 2521	Music Business I	3



MB 3512 MC 2211 MC 2301 MC 2302 MC 3511 MC 3512 MC 4212 MU 1401 MU 2101 MU 2101 MU 2102 MU 2501 MU 2502 MU 3501	Legal Aspects of Music Busin History of Music Notation Accompaniment I Accompaniment II Introduction to Basso Contin Advanced Basso Continuo Lute Tablature Computer for Musicians Orchestration Conducting Ensemble I* Ensemble II* Ensemble III*	2 2 2
MU 3502	Ensemble IV *	2
MU 4000	Selected Topics in Music Performance	3
MU 4103 MU 4223 MU 4501 MU 4502	Form and Analysis Music in Human Life Ensemble V * Ensemble VI *	3 3 2 2
Minor Requ	ired Courses	12 Credits

Minor Required Courses	
------------------------	--

Students have to select one minor and take the specified minor required coures.

## Jazz Minor

CIS 1501	Instrumental Instruction I
CIS 1502	Instrumental Instruction II
CIS 2503	Instrumental Instruction III
CIS 2504	Instrumental Instruction IV
CIS 3505	Instrumental Instruction V*
CIS 3506	Instrumental Instruction VI*
CIS 4507	Instrumental Instruction VII*
CIS 4508	Instrumental Instruction VIII*
CPS 3401	Performance Ear Training I
CPS 3402	Performance Ear Training II

## Songwriting Minor

CMP 3204	Arranging for Song Writing
CMP 3303	Chord Scale Voicing for Arranging
CMP 3601	Song Writing
CMP 3602	Advanced Song Writing
CMP 3604	Jingle Writing
CMP 4110	Jazz Composition

## Piano Minor

MA 1301	Applied Music I	2
MA 1302	Applied Music II	2
MA 2301	Applied Music III	2

MA 2302	Applied Music IV
MC 2301	Accompaniment I
MC 2302	Accompaniment II

2 2 2

## Harpsichord Minor

MA 1301	Applied Music I	2
MA 1302	Applied Music II	2
MA 2301	Applied Music III	2
MA 2302	Applied Music IV	2
MC 3511	Introduction to Basso Continuo	2
MC 3512	Advanced Basso Continuo	2

## Guitar Minor

MA 1301	Applied Music I	2
MA 1302	Applied Music II	2
MA 2301	Applied Music III	2
MA 2302	Applied Music IV	2
MA 3501	Flamenco Techniques	2
MC 4212	Lute Tablature	2

## Lute Minor

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2

MA 1301	Applied Music I	2
MA 1302	Applied Music II	2
MA 2301	Applied Music III	2
MA 2302	Applied Music IV	2
MC 3511	Introduction to Basso Continuo	2
MC 3512	Advanced Basso Continuo	2

## Vocal Minor

MA 1301	Applied Music I	2
MA 1302	Applied Music II	2
MA 2301	Applied Music III	2
MA 2302	Applied Music IV	2
MC 2511	Vocal Diction I	1
MC 2512	Vocal Diction II	1
MC 3513	Vocal Diction III	1
MC 3514	Vocal Diction IV	1

## String, Percussion, Woodwind and Brass Minor

MA 1301	Applied Music I	2
MA 1302	Applied Music II	2
MA 2301	Applied Music III	2
MA 2302	Applied Music IV	2
MU 2501	Ensemble I*	2
MU 2502	Ensemble II*	2
MU 3501	Ensemble III*	2
MU 3502	Ensemble IV *	2



MU 4501	Ensemble V *	2	MU 3502	Ensemble IV *	
MU 4502	Ensemble VI *	2	MU 4501	Ensemble V *	
			MU 4502	Ensemble VI *	

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Harpsichord Minor

Keyboard Literature I

Keyboard Literature II

Ensemble I*

Ensemble II*

Ensemble III*

Ensemble IV *

Ensemble V *

Ensemble VI *

Ensemble I*

Ensemble II*

Ensemble III*

Ensemble IV *

Ensemble V *

Ensemble VI *

Lute Literature I

Lute Literature II

Lute Tablature

Ensemble I*

Ensemble II*

Ensemble III*

Ensemble IV *

Ensemble V *

Ensemble VI *

Orchestration

Ensemble I*

Ensemble II*

Ensemble III*

Ensemble IV *

Ensemble V *

Ensemble VI *

Form and Analysis

String, Percussion, Woodwind and Brass Minor

Guitar Literature I

Guitar Literature II

MC 3201

MC 3202

MU 2501

MU 2502

MU 3501

MU 3502

MU 4501

MU 4502

MC 3221

MC 3222

MU 2501

MU 2502

MU 3501

MU 3502

MU 4501

MU 4502

Lute Minor

MC 3231

MC 3232

MC 4212

MU 2501

MU 2502

MU 3501

MU 3502

MU 4501

MU 4502

MU 2101

MU 2501

MU 2502

MU 3501

MU 3502

MU 4103

MU 4501

MU 4502

**Guitar Minor** 

## **Composition Minor**

	CMP 4117	Counterpoint I	2
	CMP 4118	Counterpoint II	2
	MA 1101	Applied Composition I	2
	MA 1102	Applied Composition II	2
	MA 2101	Applied Composition III	2
	MA 2102	Applied Composition IV	2
Minor Elective Courses			6 Credits

## Students have to take minor elective courses according to their minor selection.

Jazz Minor	
CEL 1510 CEL 1511 CEL 1512 CEL 1513 CEL 1514 CEL 1515 CEL 2510 CEL 2511 CEL 2512 CEL 2513 CEL 2514 CEL 2515 CPS 1101 CPS 1102 CPS 2101	Pop / Rock Ensemble I Jazz Ensemble I Vocal Ensemble I Funk / Fusion Ensemble I Blue / R&B Ensemble I Latin Ensemble I Pop / Rock Ensemble II Jazz Ensemble II Funk / Fusion Ensemble II Blue / R&B Ensemble II Latin Ensemble II Jazz Improvisation I Jazz Improvisation II Jazz Improvisation II

## Songwriting Minor

CMP 2601	Practical in Music Technology
CMP 2602	Song Demo Production
CMP 3105	Traditional Harmony I
CMP 3106	Traditional Harmony II
CMP 3603	Music Production for All Media
CMP 3611	Vocal and Lyric Writing
CMP 4109	<b>Reharmonization Techniques</b>

## **Piano Minor**

MC 3201 MC 3202	Keyboard Literature I Keyboard Literature II	
MU 2501	Ensemble I*	
MU 2502	Ensemble II*	
MU 3501	Ensemble III*	



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## Vocal Minor

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MC 3241	Vocal Literature
MC 3242	Opera Literature
MU 2501	Ensemble I*
MU 2502	Ensemble II*
MU 3501	Ensemble III*
MU 3502	Ensemble IV *
MU 4501	Ensemble V *
MU 4502	Ensemble VI *

## **Composition Minor**

MU 1401	Computer for Musicians	3
MU 2101	Orchestration	3
MU 2501	Ensemble I*	2
MU 2502	Ensemble II*	2
MU 3110	Techniques of Modern Composition	3
MU 3501	Ensemble III*	2
MU 3502	Ensemble IV *	2
MU 4103	Form and Analysis	3
MU 4501	Ensemble V *	2
MU 4502	Ensemble VI *	2

* This is the sequential of Ensemble courses. If the student has passed one course, he will skip to the following one

#### C. Free Elective Courses 6 Credits

Students can take free elective courses of 6 credits, from Assumption University upon completion of the prerequisites (if any)

## D. Free Elective Courses offered to non-music students

--The following courses are offered as free elective to students from other faculties. MA 1600 Basic Guitar Instructions 1

MA 1700	Basic Vocal Instructions	1
MU 1701	Jazz Music Appreciation	3
MU 1702	Popular Music Appreciation	3







Ethics

Instrumental Instruction VII

Concert Attendance VII

Minor Required Course (s)

Minor Elective Course (s)

Free Elective Course (s)

Major Elective Courses

Credits

Non-credit

3

2

2

5

2

2

3

Credits

Non-credit

2

2

9

2

3

18

Total

# STUDY PLAN

## Jazz Major

FIRST YEAR First Semester				
Course Code	Course Title	Credits		
BG 1001	English I	3		
BG 1200	Mathematics for Business	3		
CIS 1401	Keyboard Harmony I	2		
CIS 1501	Instrumental Instruction I	2		
GE 1403	Communication in Thai	3		
or GE 1401 Language and Communication		ion Skills		
	(For International students)	3		
MA 2501	Chorus I	1		
MU 1201	Ear Training I	2		
MU 1111	Theory of Western Music I	3		
MU 7111	Concert Attendance I	Non-credit		
	Total	19		

## Second Semester

Course Cod	Credits	
BG 1002	English II	3
CIS 1402	Keyboard Harmony II	2
CIS 1502	Instrumental Instruction II	2
GE 1301	Environmental Science	3
MA 2502	Chorus II	1
MU 1202	Ear Training II	2
MU 1112	Theory of Western Music II	3
MU 2211	History of Thai Music	3
MU 7111	Concert Attendance II	Non-credit
	Total	19

SECOND YEAR First Semester				
Course Coc	le Course Title	Credits		
BG 2000	English III	3		
CEL 1101	Sight Reading Lab I	1		
CIS 2503	Instrumental Instruction III	2		
CPS 1101	Jazz Improvisation I	2		
CPS 3401	Performance Ear Training I	2		
GE 1201	Information Literacy Skills	1		
MA 2503	Chorus III	1		
MU 2203	Ear Training III	2		
MU 2113	Theory of Western Music III	3		
MU 7111	Concert Attendance III	Non-credit		
	Total	17		

## Second Semester

Course Code	Credits	
BG 2001	English IV	3
CEL 1102	Sight Reading Lab II	1
CIS 2504	Instrumental Instruction IV	2
CPS 1102	Jazz Improvisation II	2
CPS 3402	Performance Ear Training II	2
MA 2504	Chorus IV	1
MGT 1101	Introduction to Business	3
MU 2204	Ear Training IV	2
MU 2114	Theory of Western Music IV	3
MU 7111	Concert Attendance IV	Non-credit
	Total	19

#### THIRD YEAR FOURTH YEAR First Semester First Semester Course Code Course Title Course Code Course Title Credits CIS 3505 Instrumental Instruction V 2 GE 2202 CMP 1201 Contemporary Arranging I 3 CIS 4507 CPS 2101 Jazz Improvisation III History of Western Music III 2 MU 4221 World Civilization MU 7111 GE 2101 3 MU 3221 History of Western Music I 2 MU 7111 Concert Attendance V Non-credit Minor Required Courses 4 Minor Elective Course (s) 2 Total 19 18 Second Semester Course Code Course Title CIS 3506 Instrumental Instru CMP 1202 Contemporary Arr

Second Sen	nester		Second Ser	nester	
Course Cod	e Course Title	Credits	Course Coo	de Course Title	
CIS 3506	Instrumental Instruction VI	2	CIS 4508	Instrumental Instruction VII	 I
CMP 1202	Contemporary Arranging II	3	CPS 4401	Jazz Recital	
MGT 2404	Managerial Psychology	3	MU 7111	Concert Attendance VIII	Ν
MU 3222	History of Western Music II	2		Major Elective Courses	
MU 4223	Music in Human Life	3		Minor Required Course (s)	
MU 7111	Concert Attendance VI	Non-credit		Free Elective Course (s)	
	Minor Required Courses	4			
	Minor Elective Course (s)	2		Total	
	Total	19			

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## STUDY PLAN Songwriting Major

FIRST YEAR First Semester				
Course Code	Course Title	Credits		
BG 1001	English I	3		
BG 1200	Mathematics for Business	3		
CIS 1401	Keyboard Harmony I	2		
CIS 1501	Instrumental Instruction I	2		
GE 1403	Communication in Thai	3		
or GE 1401 Language and Communication Skills				
	(For International students)	3		
MA 2501	Chorus I	1		
MU 1201	Ear Training I	2		
MU 1111	Theory of Western Music I	3		
MU 7111	Concert Attendance I	Non-credit		
	Total	19		

## Second Semester

Course Coc	le Course Title	Credits	Course Cod	e C
BG 1002	English II	3	BG 2001	E
CIS 1402	Keyboard Harmony II	2	CEL 1102	S
CIS 1502	Instrumental Instruction II	2	CIS 2504	h
GE 1301	Environmental Science	3	CMP 1201	C
MA 2502	Chorus II	1	MA 2504	C
MU 1202	Ear Training II	2	MU 2204	E
MU 1112	Theory of Western Music II	3	MU 2114	Т
MU 1401	Computer for Musicians	3	MU 2211	H
MU 7111	Concert Attendance II	Non-credit	MU 7111	C
	 			 -
	Total	19		T

SECOND YE First Semest			
Course Code	e Course Title	Credits	
BG 2000	English III		
CEL 1101	Sight Reading Lab I	1	
CIS 2503	Instrumental Instruction III	2	
CMP 2601	Practicum in Music Technology	ogy 3	
MA 2503	Chorus III	1	
MGT 1101	Introduction to Business	3	
MU 2203	Ear Training III	2	
MU 2113	Theory of Western Music III	3	
MU 7111	Concert Attendance III	Non-credit	
			Total
18			

Course Cod	e Course Title	Credits
BG 2001	English IV	3
CEL 1102	Sight Reading Lab II	1
CIS 2504	Instrumental Instruction IV	2
CMP 1201	Contemporary Arranging I	3
MA 2504	Chorus IV	1
MU 2204	Ear Training IV	2
MU 2114	Theory of Western Music IV	3
MU 2211	History of Thai Music	3
MU 7111	Concert Attendance IV	Non-credit
	Total	18

THIRD YEAR First Semeste	er	
Course Code	Course Title	Credits
CMP 1202	Contemporary Arranging II	3
CMP 3105 CMP 3601	Traditional Harmony I Song Writing	2
CMP 3611	Vocal and Lyric Writing	2
GE 1201	Information Literacy Skills	1
MGT 2404	Managerial Psychology	3
MU 3221	History of Western Music I	2
MU 7111	Concert Attendance V	
	Minor Required Course (s)	4
	Total	
Second Sem	ester	
Course Code	Course Title	Credits
CMP 3106	Traditional Harmony II	2
CMP 3602	Advanced Song Writing	2
GE 2101	World Civilization	3
MU 3222 MU 7111	History of Western Music II Concert Attendance VI	2 Non-credit
10/111	Minor Required Courses	4 Non-creat
		-

**Minor Elective Courses** 

Total

	FOURTH YEAR First Semester		
Course Code Course Title			
	GE 2202 CMP 3204 MU 4221 MU 7111	Ethics Arranging for Song Writing History of Western Music III Concert Attendance VII Major Elective Courses Minor Required Course (s)	

Free Elective Course (s)

Credits

Non-credit

3

2 2

7

2

3

19

## Second Semester

Total

Course Cod	e Course Title	Credits
CMP 4110	Jazz Composition	2
MU 4223	Music in Human Life	3
MU 7111	Concert Attendance VIII	Non-credit
	Major Elective Courses	7
	Minor Required Course (s)	2
	Free Elective Course (s)	3
	Total	

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## STUDY PLAN Piano Major

FIRST YEAR First Semeste	r	
Course Code		Credits
BG 1001	English I	3
GE 1403	Communication in Thai	3
or GE 1401 Language and Communication Skills		
	(For International students)	3
GE 1201	Information Literacy Skills	1
MA 1301	Applied Music I	2
MA 2501	Chorus I	1
MU 1201	Ear Training I	2
MU 1111	Theory of Western Music I	3
MU 2211	History of Thai Music	3
MU 7111	Concert Attendance I	Non-credit
	Total	18

SECOND YI First Semes		
Course Code Course Title		Credits
BG 1200	Mathematics for Business	3
BG 2000	English III	3
MA 2301	Applied Music III	2
MA 2503	Chorus III	1
MC 2301	Accompaniment I	2
MU 2203	Ear Training III	2
MU 2113	Theory of Western Music III	3
MU 2501	Ensemble I	2
MU 7111	Concert Attendance III	Non-credit
	Total	

THIRD YEAR First Semester  Course Code Course Title			FOURTH First Sen
		Credits	Course (
 MA 3301	Applied Music V	2	MA 430
MC 3201	Keyboard Literature I	3	MC 4710
MGT 2404	Managerial Psychology	3	MU 422
MU 3221	History of Western Music I	2	MU 711
MU 3501	Ensemble III	2	
MU 7111	Concert Attendance V No	on-credit	
	Minor Required Courses	4	
	Minor Elective Course (s)	3	
	Total	19	

FOURTH YEAR First Semester		
Course Code Co	urse Title	Credits
MA 4301	Applied Music VII	2
MC 4710	Piano Pedagogy	2
MU 4221	History of Western Music III	2
MU 7111	Concert Attendance VII No	n-credit
	Major Elective Courses	8
	Minor Required Course (s)	2
	Free Elective Course (s)	3
	Total	19

Course Code	Course Title	Credits
GE 2202	Ethics	3
MA 3302	Applied Music VI	2
MC 3202	Keyboard Literature II	3
MC 3310	Junior Recital	2
MU 3222	History of Western Music II	2
MU 7111	Concert Attendance VI Nor	n-credit
	Minor Required Courses	4
	Minor Elective Course (s)	3
	Total	19

## Second Semester

plied Music VIII nior Recital	2 4
	4
ncert Attendance VIII No	on-credit
ajor Elective Courses	6
nor Required Course (s)	2
ee Elective Course (s)	3
tal	17
	ee Elective Course (s)

# Second Semester

Course Cod	Credits	
BG 1002	English II	3
GE 1301	Environmental Science	3
GE 2101	World Civilization	3
MA 1302	Applied Music II	2
MA 2502	Chorus II	1
MGT 1101	Introduction to Business	3
MU 1202	Ear Training II	2
MU 1112	Theory of Western Music II	3
MU 7111	Concert Attendance II	Non-credit
	Total	20

Course Code	e Course Title	Credits		
BG 2001	English IV	3		
MA 2302	Applied Music IV	2		
MA 2504	Chorus IV	1		
MC 2302	Accompaniment II	2		
MU 2204	Ear Training IV	2		
MU 2114	Theory of Western Music IV	3		
MU 2502	Ensemble II	2		
MU 4223	Music in Human Life	3		
MU 7111	Concert Attendance IV	Non-credit		
	Total	18		



## STUDY PLAN Harpsichord Major

FIRST YEAR First Semeste	er		
Course Code	Course Title	Credits	
BG 1001	English I	3	
GE 1403	Communication in Thai	3	
or GE 1401	Language and Communication Skills		
	(For International students)	3	
GE 1201	Information Literacy Skills	1	
MA 1301	Applied Music I	2	
MA 2501	Chorus I	1	
MU 1201	Ear Training I	2	
MU 1111	Theory of Western Music I	3	
MU 2211	History of Thai Music	3	
MU 7111	Concert Attendance I	Non-credit	
	Total	18	

SECOND YI First Semes		
Course Coc	le Course Title	Credits
BG 1200	Mathematics for Business	3
BG 2000	English III	3
MA 2301	Applied Music III	2
MA 2503	Chorus III	1
MC 3511	Introduction to Basso Continue	) 2
MU 2203	Ear Training III	2
MU 2113	Theory of Western Music III	3
MU 2501	Ensemble I	2
MU 7111	Concert Attendance III Non-	credit
	Total	18

## Second Semester

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	Course Code	e Course Title	Credits	Co	วเ
	BG 1002	English II	3	BC	G
	GE 1301	Environment Science	3	GI	Ε
	GE 2101	World Civilization	3	M	A
	MA 1302	Applied Music II	2	M	A
	MA 2502	Chorus II	1	M	С
	MGT 1101	Introduction to Business	3	M	U
	MU 1202	Ear Training II	2	M	U
	MU 1112	Theory of Western Music II	3	M	U
	MU 7111	Concert Attendance II	Non-credit	M	U
		Total	20		

200	Mathematics for Business	3
000	English III	3
2301	Applied Music III	2
2503	Chorus III	1
8511	Introduction to Basso Continuo	2
2203	Ear Training III	2
2113	Theory of Western Music III	3
2501	Ensemble I	2
7111	Concert Attendance III Non-credit	
	Total	18

Sec	ond Sem	nester	
Cou	rse Code	e Course Title	Credits
BG	2001	English IV	3
GE 2	2202	Ethics	3
MA	2302	Applied Music IV	2
MA	2504	Chorus IV	1
MC	3502	Advanced Basso Continuo	2
MU	2204	Ear Training IV	2
MU	2114	Theory of Western Music IV	3
MU	2502	Ensemble II	2
MU	7111	Concert Attendance IV	Non-credit
		Total	18

## THIRD YEAR First Semester Course Code Course Title Credits MA 3301 Applied Music V 2 Keyboard Literature I MC 3201 3 MGT 2404 Managerial Psychology 3 History of Western Music I MU 3221 2 MU 3501 Ensemble III 2 MU 7111 Concert Attendance V Non-credit **Minor Required Courses** 4 Minor Elective Course (s) 3 Total 19

## Second Semester

Course Co	Credits	
MA 3302	Applied Music VI	2
MC 3310	Junior Recital	2
MC 3202	Keyboard Literature II	3
MU 3222	History of Western Music II	2
MU 4223	Music in Human Life	3
MU 7111	Concert Attendance VI	Non-credit
	Minor Required Courses	4
	Minor Elective Course (s)	3
	Total	19

## FOURTH YEAR First Semester Course Code Course Title Credits ---MA 4301 Applied Music VII Harpsichord Pedagogy MC 4711 History of Western Music III MU 4221 Concert Attendance VII MU 7111 Non-credit Major Elective Courses Minor Required Course (s) Free Elective Course (s) Total

2

2

2

8

2

3

19

Course Cod	le Course Title	Credits
MA 4302 MC 4311 MU 7111	Applied Music VIII Senior Recital Concert Attendance VIII Major Elective Courses Minor Required Course (s) Free Elective Course (s)	2 4 Non-credit 6 2 3
	Total	



## STUDY PLAN Guitar Major

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FIRST YEAR First Semest	er	
Course Code	e Course Title	Credits
BG 1001	English I	3
GE 1201	Information Literacy Skills	1
GE 1403	Communication in Thai	3
or GE 1401	Language and Communica	tion Skills
	(For International students)	3
MA 1301	Applied Music I	2
MA 2501	Chorus I	1
MU 1201	Ear Training I	2
MU 1111	Theory of Western Music I	3
MU 2211	History of Thai Music	3
MU 7111	Concert Attendance I	Non-credit
	Total	18

## Second Semester

Course Code	e Course Title	Credits
BG 1002	English II	3
BG 1200	Mathematics for Business	3
MA 1302	Applied Music II	2
MA 2502	Chorus II	1
MGT 2404	Managerial Psychology	3
MU 1202	Ear Training II	2
MU 1112	Theory of Western Music II	3
MU 7111	Concert Attendance II	Non-credit
	Total	17

SECOND YEAR First Semester			
Course Code	e Course Title	Credits	
BG 2000	English III		
GE 1301	Environmental Science	3	
MA 2301	Applied Music III	2	
MA 2503	Chorus III	1	
MGT 1101	Introduction to Business	3	
MU 2203	Ear Training III	2	
MU 2113	Theory of Western Music III	3	
MU 2501	Ensemble I	2	
MU 7111	Concert Attendance III	Non-credit	
	Total		

Second Se	emester	
Course Co	de Course Title	Credits
BG 2001	English IV	3
GE 1201	World Civilization	3
MA 2302	Applied Music IV	2
MA 2504	Chorus IV	1
MU 2204	Ear Training IV	2
MU 2114	Theory of Western Music IV	3
MU 2502	Ensemble II	2
MU 4223	Music in Human Life	3
MU 7111	Concert Attendance IV	Non-credit
	Total	19



THIRD YEAF First Semes		
Course Cod	e Course Title	Credits
MA 3301 MA 3501 MC 3221 MC 4212 MU 3221 MU 3501 MU 7111	Guitar Literature I Lute Tablature History of Western Music I Ensemble III	2 2 3 2 2 2
Second Sen  Course Cod	nester e Course Title	
MC 3222	Ethics Applied Music VI Guitar Literature II Junior Recital	 3 2 3 2

 
 MU 3222
 History of Western Music II
 2

 MU 7111
 Concert Attendance VI
 Non-credit
 Minor Required Courses

Minor Elective Course (s)

Total

FOURTH YEAR First Semester			
Course Code	e Course Title	Credits	
MA 4301 MC 4713	Applied Music VII Guitar Pedagogy	2	
MU 4221 MU 7111	History of Western Music III Concert Attendance VII Major Elective Courses	2 Non-credit 8	
	Minor Required Course (s) Free Elective Course (s)	2	
	Total		

## Second Semester

Course Cod	e Course Title	Credits
MA 4302	Applied Music VIII	2
MC 4311	Senior Recital	4
MU 7111	Concert Attendance VIII	Non-credit
	Major Elective Courses	6
	Minor Required Course (s)	2
	Free Elective Course (s)	3
	Total	17

4

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## STUDY PLAN Lute Major

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FIRST YEAR First Semeste	er	
Course Code	Course Title	Credits
BG 1001	English I	3
GE 1201	Information Literacy Skills	1
GE 1403	Communication in Thai	3
or GE 1401	Language and Communicat	ion Skills
	(For International students)	3
MA 1301	Applied Music I	2
MA 2501	Chorus I	1
MU 1201	Ear Training I	2
MU 1111	Theory of Western Music I	3
MU 2211	History of Thai Music	3
MU 7111	Concert Attendance I	Non-credit
	Total	18

## Second Semester

Course Code Course Title Credits		
BG 1002	English II	3
BG 1200	Mathematics for Business	3
MA 1302	Applied Music II	2
MA 2502	Chorus II	1
MGT 2404	Managerial Psychology	3
MU 1202	Ear Training II	2
MU 1112	Theory of Western Music II	3
MU 7111	Concert Attendance II	Non-credit
	Total	17

SECOND YE		
Course Code	Course Code Course Title	
BG 2000	English III	3
GE 1301	Environmental Science	3
MA 2301	Applied Music III	2
MA 2503	Chorus III	1
MGT 1101	Introduction to Business	3
MU 2203	Ear Training III	2
MU 2113	Theory of Western Music III	3
MU 2501	Ensemble I	2
MU 7111	Concert Attendance III	Non-credit
	Total	19

Second Sem	ester	
Course Code	e Course Title	Credits
BG 2001	English IV	3
GE 2101	World Civilization	3
MA 2302	Applied Music IV	2
MA 2504	Chorus IV	1
MU 2204	Ear Training IV	2
MU 2114	Theory of Western Music IV	3
MU 2502	Ensemble II	2
MU 4223	Music in Human Life	3
MU 7111	Concert Attendance IV	Non-credit
	Total	

THIRD YEA First Semes		
Course Coo	le Course Title	Credits
MA 3301	Applied Music V	2
MC 3231	Lute Literature I	3
MC 3511	Introduction to Basso Con	tinuo 2
MU 3221	History of Western Music I	2
MU 3501	Ensemble III	2
MU 7111	Concert Attendance V	Non-credit
	Minor Required Courses	4
	Minor Elective Course (s)	3
	Total	18

Second Semester

GE 2202

MA 3302

MC 3232

MC 3310

MC 4212

MU 3222

MU 7111

Course Code Course Title

Ethics

Total

Applied Music VI

Lute Literature II

Junior Recital

Lute Tablature

History of Western Music II

Minor Required Course (s)

Minor Elective Course (s)

Concert Attendance VI

## 

Credits

Non-credit 6

2

2

2

4

3

19

# Total

## Second Semester

Credits

3

2

3

2

2

2

2

3 19

Non-credit

Course Code	Credits	
MA 4302 MC 4311 MU 7111	Applied Music VIII Senior Recital Concert Attedence VIII Major Elective Courses Minor Required Course (s) Free Elective Course (s)	2 4 Non-credit 8 2 3
	Total	19





## STUDY PLAN Vocal Major

FIRST YEAR First Semester			
	e Course Title	Credits	
BG 1001	English I	3	
GE 1201	Information Literacy Skills	1	
GE 1403	Communication in Thai	3	
or GE 1401	Language and Communicati	on Skills	
	(For International students)	3	
MA 1301	Applied Music I	2	
MA 1401	Piano Harmony I	2	
MA 2501	Chorus I	1	
MC 2511	Vocal Diction I	1	
MU 1201	Ear Training I	2	
MU 1111	Theory of Western Music I	3	
MU 7111	Concert Attendance I	Non-credit	
	Total	18	

## Second Semester

Course Code Course Title		Credits	
	BG 1002	English II	3
	BG 1200	Mathematics for Business	3
	MA 1302	Applied Music II	2
	MA 1402	Piano Harmony II	2
	MA 2502	Chorus II	1
	MC 2512	Vocal Diction II	1
	MU 1202	Ear Training II	2
	MU 1112	Theory of Western Music II	3
	MU 2211	History of Thai Music	3
	MU 7111	Concert Attendance II	Non-credit
		Total	20

SECOND YE First Semes		
Course Cod	e Course Title	Credits
BG 2000	English III	3
GE 1301	Environmental Science	3
GE 2202	Ethics	3
MA 2301	Applied Music III	2
MA 2503	Chorus III	1
MC 3513	Vocal Diction III	1
MU 2203	Ear Training III	2
MU 2113	Theory of Western Music III	3
MU 7111	Concert Attendance III	Non-credit
	Total	18

# Second Semester

Course Code Course Title		Credits
BG 2001	English IV	3
MA 2302	Applied Music IV	2
MA 2504	Chorus IV	1
MC 2242	Opera Staging	2
MC 3514	Vocal Diction IV	1
MU 2204	Ear Training IV	2
MU 2114	Theory of Western Music IV	3
MU 4223	Music in Human Life	3
MU 7111	Concert Attendance IV	Non-credit
	Total	17

### THIRD YEAR First Semester Course Code Course Title Credits GE 2101 World Civilization 3 Applied Music V MA 3301 2 Vocal Literature MC 3241 3 MGT 1101 Introduction to Business 3 MU 3221 History of Western Music I 2 Concert Attendance V MU 7111 Non-credit Minor Required Courses 4 Minor Elective Course (s) 3 Total 20

## Second Semester

Course Code Course Title Credits			
MA 3302	Applied Music VI	2	
MC 3242	Opera Literature	3	
MC 3310	Junior Recital	2	
MGT 2404	Managerial Psychology	3	
MU 3222	History of Western Music II	2	
MU 7111	Concert Attendance VI	Non-credit	
	Minor Required Courses	4	
	Minor Elective Course (s)	3	
	Total	19	

## FOURTH YEAR First Semester Course Code Course Title Credits ----MA 4301 Applied Music VII Vocal Pedagogy MC 4714 History of Western Music III MU 4221 Concert Attendance VII MU 7111 Non-credit Major Elective Courses Minor Required Course (s) Free Elective Course (s) Total

2

2

2

6

2

3

17

## Second Semester

Course Cod	Credits	
MA 4302 MC 4311 MU 7111	Applied Music VIII Senior Recital Concert Attendance VIII Major Elective Courses Minor Required Course (s) Free Elective Course (s)	2 4 Non-credit 8 2 3
	Total	19





## STUDY PLAN String, Percussion, Woodwind and Brass Major

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FIRST YEAR First Semest	ter		SEC Firs
Course Code	e Course Title	Credits	Cou
BG 1001	English I	3	BG
GE 1403	Communication in Thai	3	GE
or GE 1401	Language and Communica	tion Skills	MA
	(For International students)	3	MA
MA 1301	Applied Music I	2	MG
MA 1401	Piano Harmony I	2	MU
MA 2501	Chorus I	1	MU
MU 1201	Ear Training I	2	MU
MU 1111	Theory of Western Music I	3	MU
MU 2211	History of Thai Music	3	
MU 7111	Concert Attendance I	Non-credit	
	Total	19	
			Sec
Second Sem	nester		Cou
Course Code	e Course Title	Credits	BG
			GE
BG 1002	English II Mathamating fan Daainaas	3	MA
BG 1200	Mathematics for Business	3	MA MU
GE 1201	Information Literacy Skills	1	
MA 1302	Applied Music II	2	MU MU
MA 1402	Piano Harmony II	2	MU
MA 2502 MU 1202	Chorus II	2	MU
	Ear Training II	2	MU
MU 1112 MU 7111	Theory of Western Music II Concert Attendance II	ہ Non-credit	
	Total	17	

SECOND YEAR First Semester			
Course Code	Course Title	Credits	
BG 2000 GE 1301 MA 2301 MA 2503 MGT 2404 MU 2203 MU 2113 MU 2501 MU 7111	English III Environmental Science Applied Music III Chorus III Managerial Psychology Ear Training III Theory of Western Music III Ensemble I Concert Attendance III	3 3 2 1 3 2 3 2 Non-credit	
	Total		
Second Sem	ester		
Course Code	Course Title	Credits	
BG 2001 GE 2202 MA 2302 MA 2504 MU 2204 MU 2114 MU 2502 MU 4223 MU 7111	English IV Ethics Applied Music IV Chorus IV Ear Training IV Theory of Western Music IV Ensemble II Music in Human Life Concert Attendance IV	3 3 2 1 2 3 2 3 Non-credit	
	Total		

Course Cod	e Course Title	Credits	(
GE 2101	World Civilization	3	-
MGT 1101	Introduction to Business	3	I
MA 3301	Applied Music V	2	
MU 3211	History of Western Music I	2	(
MU 3501	Ensemble III	2	
MU 7111	Concert Attendance V	Non-credit	(
	Minor Required Courses	4	
	Minor Elective Course (s)	3	(
	Total	19	
			l
Course Cod	e Course Title	Credits	
Course Cod	e Course Title	Credits	
Course Cod MA 3302	e Course Title	Credits	
Course Cod MA 3302 MC 3310	e Course Title Applied Music VI	Credits  2	
Course Cod MA 3302 MC 3310 MU 3222	e Course Title Applied Music VI Junior Recital	Credits  2 2	
Course Cod MA 3302 MC 3310 MU 3222 MU 3502	e Course Title Applied Music VI Junior Recital History of Western Music II Ensemble IV Concert Attendance VI	Credits  2 2 2	-
Course Cod MA 3302 MC 3310 MU 3222 MU 3502	e Course Title Applied Music VI Junior Recital History of Western Music II Ensemble IV Concert Attendance VI Major Elective Courses	Credits  2 2 2 2	
Course Cod	e Course Title Applied Music VI Junior Recital History of Western Music II Ensemble IV Concert Attendance VI	Credits 2 2 2 2 Non-credit	-

## FOURTH YEAR First Semester

Course Code	Credits	
MA 4301	Applied Music VII	2
MC 4715	String Pedagogy	
	(for String major only)	2
or MC 4716	Percussion Pedagogy	
	(for Percussion major only)	2
or MC 4717	Woodwind Pedagogy	
	(for Woodwind only)	2
or MC 4718	Brass Pedagogy	
	(for Brass major only)	2
MU 4221	History of Western Music III	2
MU 4501	Ensemble V	2
MU 7111	Concert Attendance VII	Non-credit
	Major Elective Courses	4
	Minor Required Course (s)	2
	Free Elective Course (s)	3
	Total	17

Course Code	Course Title	Credits	
MA 4302 MC 4311	Applied Music VIII Senior Recital	2	
MU 4502	Ensemble VI	4	
MU 7111	Concert Attendance VIII Major Elective Courses	Non-credit 6	
	Minor Required Course (s)	2	
	Free Elective Course (s)	3	
	Total	19	





## STUDY PLAN **Composition Major**

FIRST YEAR First Semester			
Course Code	e Course Title	Credits	
BG 1001	English I	3	
GE 1403	Communication in Thai	3	
or GE 1401	Language and Communicat	ion Skills	
	(For International students)	3	
MA 1101	Applied Composition I	2	
MA 1401	Piano Harmony I	2	
MA 2501	Chorus I	1	
MU 1201	Ear Training I	2	
MU 1111	Theory of Western Music I	3	
MU 2211	History of Thai Music	3	
MU 7111	Concert Attendance I	Non-credit	
	Total	19	

## Second Semester

Course Code Course Title		Credits	Course Code Course Title	
BG 1002	English II	3	BG 2001	English IV
BG 1200	Mathematics for Business	3	GE 2101	World Civilization
GE 1201	Information Literacy Skills	1	MA 2102	Applied Composition IV
GE 1301	Environmental Science	3	MA 2504	Chorus IV
MA 1102	Applied Composition II	2	MU 2204	Ear Training IV
MA 2502	Chorus II	1	MU 2102	Conducting
MU 1202	Ear Training II	2	MU 2114	Theory of Western Music IV
MU 1112	Theory of Western Music II	3	MU 4223	Music in Human Life
MU 7111	Concert Attendance II	Non-credit	MU 7111	Concert Attendance IV
	Total	18		Total

#### SECOND YEAR First Semester Course Code Course Title Credits BG 2000 English III 3 Applied Composition III MA 2101 2 MA 2503 Chorus III 1 MGT 1101 Introduction to Business 3 MU 2203 Ear Training III 2 MU 2101 Orchestration 3 MU 2113 Theory of Western Music III 3 Concert Attendance III MU 7111 Non-credit Total 17

Course Coo	le Course Title	Credits
BG 2001	English IV	3
GE 2101	World Civilization	3
MA 2102	Applied Composition IV	2
MA 2504	Chorus IV	1
MU 2204	Ear Training IV	2
MU 2102	Conducting	2
MU 2114	Theory of Western Music IV	3
MU 4223	Music in Human Life	3
MU 7111	Concert Attendance IV	Non-credit

## THIRD YEAR First Semester Course Code Course Title Credits CMP 4117 Counterpoint I 2 Applied Composition V MA 3101 2 Computer for Musicians MU 1401 3 MU 3110 Techniques of Modern Composition 3 MU 3221 History of Western Music I 2 MU 7111 Concert Attendance V Non-credit Minor Required Courses 4 Minor Elective Course (s) 3 Total 19

# FOURTH YEAR First Semester

Course Code	Course Title	Credits
GE 2202 MA 4101 MU 4223	Ethics Applied Composition VII History of Western Music III	3 2 2
MU 7111	Concert Attendance VII Major Elective Courses Minor Required Course (s) Free Elective Course (s)	Non-credit 6 2 3
	Total	

## Second Semester

Course Code Course Title		Credits	
CMP 4118	Counterpoint II	2	
MA 3102	Applied Composition VI	2	
MGT 2404	Managerial Psychology	3	
MU 3222	History of Western Music II	2	
MU 4103	Form and Analysis	3	
MU 7111	Concert Attendance VI	Non-credit	
	Minor Required Courses	4	
	Minor Elective Course (s)	3	
	Total	19	

Course Code	Credits	
MA 4102 MC 4312 MU 7111	Applied Composition VIII Recital for Composition Concert Attendance VIII Major Elective Courses Minor Required Course (s) Free Elective Course (s)	2 4 Non-credit 8 2 3
	Total	19



## **Curriculum Structure**

Courses	Credits
General Education Courses	30
Social Science Courses	4
Humanities Courses	3
Language Courses	15
Science and Mathematics Courses	8
Specialized Course	109
Basic Professional Courses	28
Professional Courses	81
Free Elective Courses	6
Total	145

## **OBJECTIVES**

The Nursing Science Program of Au aims to educate gualified professional nursing graduates who:

- 1. Exercise leadership, moral and ethical mind in daily life and working;
- 2. Demonstrate sense of maturity; assertiveness and social accountability;
- 3. Have knowledge in nursing science and related sciences, and able to apply it in nursing practice by demonstrating professionalism and good management;
- 4. Have ability and skills in nursing informatics, numerical and statistics analyses;
- 5. Use critical thinking skills in problem solving and utilize the scientific process in conducting research;
- 6. Able to establish interpersonal relationships and effectively collaborate among health care team;
- 7. Able to communicate in English with clients and health care team effectively by being multicultural sensitive; 8. Perform nursing practice with caring and
- compassionate attitude according to the role and scope of the profession, and the professional code of ethics in providing holistic health services using client-centered approach;
- 9. Demonstrate faith and good attitude toward nursing profession and perform self development for the professional growth.



## **GRADUATION REQUIREMENTS**

Assumption University confers the degree of Bachelor of Nursing Science to students who meet all the following requirements:

- Complete a minimum of 145 credits of the program
- Obtain at least "C" grade in all professional courses
- Participate in 16 sessions of the student assembly in Business and Professional Ethics Seminar
- . Earn a cumulative grade point average of at least 2.00 ("C" average)
- Demonstrate good behavior and self-discipline by obtaining at least 70% of disciplinary scores
- Have library and financial clearance with the university

## COURSES

General Ed	ucation Courses	30 Credits
Language		15 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1401	Language and Communicat	
	(For International students)	3
GE 1403	Communication in Thai	
	(For Thai students)	3
Social Scier	nce Courses	4 Credits
GE 1204	Physical Education	1
GE 2202	Ethics	3
Humanitie	s Courses	3 Credits
GE 2101	World Civilization	3
Science an	d Mathematics Courses	8 Credits
BG 1301	Fundamentals of Statistics	3
GE 1301	Environmental Science	3
BG 2301	Information Technology for	Nurses 2
Specialized		109 Credits
	ssional Courses	28 Credits
 NB 1202	Anatomy	3
NB 1203	Physiology	3
NB 1205	Biochemistry	3
NB 1207	Microbiology and Parasitolo	bay 3
NB 1210	Pathophysiology	3
NB 1212	Nutrition for Healthy Life St	yle 3
NB 2209	Pharmacology	3
NB 2211	Multiculutralism in Health C	Care 1
NB 2212	Psychology and Mental Hea	lth 2
NB 2213	Health Innovation and	
	Knowledge Management	1
NB 4201	Entrepreneurship in Health	Care 3

Professional Courses		81 Credits
Theory		52 Credits
NS 1307	Foundation of Professional	
	Nursing I	2
NS 1310	Professional Socialization I	2
NS 1311	Scientific Nursing Approach	
	and Holistic Health	3
	Assessment	
NS 1312	Health Promotion througho	ut
	Lifespan	2
NS 1313	Foundation of Professional	
	Nursing II	2
NS 2310	Alteration in Adult Health	
	and Nursing I	3
NS 2311	Alteration in Adult Health	
	and Nursing II	3
NS 2312	Gerontology Nursing	1
NS 2320	Family-Centered Care for	
	Infant, Child, and Adolescen	tl 2
NS 2321	Family-Centered Care for Inf	ant,
	Child, and Adolescent II	3
NS 2322	Holistic Childbearing and	
	Family Nursing I	3
NS 2323	Holistic Childbearing and	
	Family Nursing II	2
NS 3316	Critical Care Nursing	2
NS 3322	Bio-Behavioral-Psychiatric	
	Nursing	3
NS 3323	Community Focused Nursing	gl 2
NS 3324	Disaster Nursing	1
NS 3325	Holistic Childbearing and	
	Family Nursing III	3
NS 3326	Nursing Inquiry I	2
NS 4308	Nursing Leadership and	
	Management	3
NS 4320	Community Focused Nursing	
NS 4322	Professional Socialization II	2
NS 4323	Therapeutic Health Assessm	
NS 4325	Nursing Informatics	1



Practicum	29 Cree	dits
NS 1403	Nursing Experience I	1
NS 1404	Nursing Experience II	1
NS 2418	Clinical Practicum for Professional	
	Nursing Foundation	2
NS 2419	Clinical Practicum in Adult Health Nursing I	2
NS 2420	Clinical Practicum in Adult Health	2
115 2-120	Nursing II	2
NS 2422	Holistic Childbearing and Family	
	Nursing Practicum I	1
NS 2423	Family-Centered Care for Infant,	
	Child, and Adolescent	
	Nursing Practicum I	1
NS 3400	Mental Health and Psychiatric	
	Nursing Practicum	2
NS 3401	Nursing Inquiry II	1
NS 3425	Holistic Childbearing and Family	
	Nursing Practicum II	2
NS 3422	Holistic Childbearing and Family	
	Nursing Practicum III	2
NS 3423	Family-Centered Care for Infant,	
	Child, and Adolescent	
	Nursing Practicum II	2
NS 3424	Critical Care Nursing Practicum	2
NS 4413	Nursing Leadership and	
	Management Practicum	2
NS 4417	Community Focused Nursing	
	Practicum	3
NS 4418	Therapeutic Health Assessment	
	Practicum	1
NS 4419	Comprehensive Nursing Skills	2

Free Elective Course		6 Credits
NE 3501 NE 3502	Spa and Aroma Therapy Massage as an Alternative	3
	Health Care	3
NE 3505	Oriental Exercise for Health	3
NE 4502	Adolescent Health	3





## STUDY PLAN

FIRST YEAR First Semest	ter	
Code	Subjects	Credits
BG 1001 GE 1401	English I Language and Communication	3 Skills
GE 1403	(For International students) Communication in Thai (For Thai students)	3
NB 1202	Anatomy	3
NB 1203	Physiology	3
NB 1205	Biochemistry Microbiology and Darasitology	3
NB 1207	Microbiology and Parasitology	3
	Total	18

## Second Semester

Code	Subjects	Credits
BG 1002	English II	3
GE 1204	Physical Education	1
NB 1210	Pathophysiology	3
NB 1212	Nutrition for Healthy Life Style	3
NS 1307	Foundation of Professional	
	Nursing I	2
NS 1311	Scientific Nursing Approach and	3 S
	Holistic Health Assessment	
NS 1312	Health Promotion throughout	
	Lifespan	2
NS 1403	Nursing Experience I	1
	Total	18
	Total	18

Summer Session			
Code	Subjects	Credits	
NS 1310 NS 1313	Professional Socialization I Foundation of Professional	2	
	Nursing II	2	
NS 1404	Nursing Experience II	1	
NB 2211	Multiculutralism in Health Care	1	
	Total	6	







# SECOND YEAR

First Semeste	er	
Code	Subjects	Credits
BG 2000	English III	3
NB 2209	Pharmacology	3
NS 2310	Alteration in Adult Health	
	and Nursing I	3
NS 2312	Gerontology Nursing	1
NS 2320	Family-Centered Care for Infant	,
	Child, and Adolescent I	2
NS 2418	Clinical Practicum for	
	Professional Nursing Foundatio	n 2
NS 2419	Clinical Practicum in Adult	
	Health Nursing I	2
	Total	16

## Second Semester

Code	Subjects	Credits
BG 2001	English IV	3
BG 2301	Information Technology for Nur	rses 2
NS 2311	Alteration in Adult Health and Nursing II	3
NB 2212	Psychology and Mental Health	2
NS 2322	Holistic Childbearing and	
	Family Nursing I	3
NS 2420	Clinical Practicum in Adult Health Nursing II	2
NS 2423	Family-Centered Care for Infant	_
	Child, and Adolescent	
	Nursing Practicum I	1
NB 2213	Health Innovation and Knowledge Management	1
		'
	Total	17

## Summer Session

Code	Subjects	Credits
NS 2321	Family-Centered Care for Infant Child, and Adolescent II	, 3
NS 2323	Holistic Childbearing and Family Nursing II	2
NS 2422	Holistic childbearing and Family Nursing Practicum I	y 1
	Total	6



## Code Subjects Credits GE 1301 Environmental Science 3 BG 1301 Fundamentals of Statistics 3 Holistic Childbearing and Family Nursing III Nursing Inquiry I Family-Centered Care for Infant, Child, and Adolescent NS 3325 3 NS 3326 2 NS 3423 Nursing Practicum II 2 NS 3425 Holistic Childbearing and Family Nursing Practicum II 2 15 Total Second Semester Code Subjects Credits

THIRD YEAR

First Semester

GE 2101	World Civilization	3
NS 3401	Nursing Inquiry II	1
NS 3316	Critical Care Nursing	2
NS 3322	Bio-Behavioral-Psychiatric	
	Nursing	3
NS 3422	Holistic Childbearing and	
	Family Nursing Practicum III	2
NS 3424	Critical Care Nursing Practicum	2
	One Free Elective Course	3
	Total	16

## Summer Session

Code		Subjects	Credits
NS 332 NS 332 NS 340	24	Community Focused Nursing I Disaster Nursing Mental Health and Psychiatric	2 1
		Nursing Practicum	2
		Total	5





Second Semester

## FOURTH YEAR

# First Semester

Code	Subjects	Credits
GE 2202 NS 4308	Ethics Nursing Leadership and	3
	Management	3
NS 4320	Community Focused Nursing II	3
NS 4323	Therapeutic Health Assessment	: 2
NS 4417	Community Focused Nursing	
	Practicum	3
NS 4418	Therapeutic Health Assessment	:
	Practicum	1
	One Free Elective Course	3
	Total	18

Code	Subjects	Credits
NB 4201	Entrepreneurship in Health Care	e 3
NS 4322	Professional Socialization II	2
NS 4325	Nursing Informatics	1
NS 4413	Nursing Leadership and	
	Management Practicum	2
NS 4419	Comprehensive Nursing	
	Practicum	2
	Total	10







# VINCENT MARY SCHOOL OF SCIENCE AND TECHNOLOGY

Curriculum Structure			
Courses	CS	π	
A. General Education Courses • Language Courses • Social Science Courses • Humanities Courses • Science and Mathematics Courses	30 12 6 3 9	30 12 6 3 9	
B. Specialized Courses • Basic Courses • Major Required Courses • Major Elective Courses	90 15 36 39	90 30 30 30 30	
C. Free Electives Courses	6	6	
Total Credits	126	126	



# **GRADUATION REQUIREMENTS**

Assumption University confers the degree of Bachelor of Science upon students who meet all of the following requirements:

- Have completed the total number of credits of the curriculum
- Have obtained a cumulative grade point aver age of at least 2.00
- Have participated in 16 sessions of the **Professional Ethics Seminar**
- Have obtained library and financial clearance from the University
- Have demonstrated good behavior and . discipline



## Assumption University of Thailand | Vincent Mary School of Science & Technology

COURSES

## DEPARTMENT OF COMPUTER SCIENCE

## OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows: The program is designed to produce graduates who:

- · Have morals and ethics.
- Socially responsible and understand well the impacts and consequences of technology towards society and the environment.
- Have the knowledge and understanding of the major principles and theories of computer science.
- Capable of developing the fundamentals of computer programs and with the expertise to analyze, operate and manage computer systems.
- Able to understand the organization and operation of the computer hardware.
- Able to help in the promotion and collaboration of transfer technology which is undergoing rapid development.
- Capable of meeting the nation's present and . future needs for computer science experts in the application and development for computer planning.
- · Possess systematical, logical and critical thinking skills.
- Able to work with a team and be a leader or a follower.
- · Have responsibility in the assigned tasks and continuously have self-development in the field of computer science.
- Able to communicate effectively. .

COURSES		
A. General Ec Language Co	ducation Courses urses	30 credits 12 credits
BG 1001 BG 1002 BG 2000 BG 2001	English I English II English III English IV	3 3 3 3
Humanities C	Courses	3 credits
GE 2101	World Civilization	3
Social Science	e Courses	6 credits
GE 2202 MGT1101	Ethics Introduction to Business	3 3
Science and I	Mathematics Courses	9 credits
DA 1121	Basic Mathematics and Statistics	3
MT 1602 MT 4201	Fundamentals of Financial Accounting Social Interests, Government	3
IVIT 4201	Policies and Technology	3
B. Specialized Basic Courses		90 credits 15 credits
CS 2101 DA 2101 DA 2103 LA 4606 MT 4323	Mathematics Foundation for Computer Science Calculus I Principles of Statistics Intellectual Property Law Entrepreneurship in Technology Business	3 3 3 3 3
Major Requir	ed Courses	36 credits
CS 1201 CS 1202 CS 2201 CS 2202 CS 2203 CS 2204 CS 2205 CS 2206 CS 3200 CS 3201	Computer Programming I Computer Programming II Data Structures and Algorith Computer Architecture Programming Languages Database Systems Operating Systems Computer Networks Senior Project I Algorithms Design	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3





CS 4200	Senior Project II	3	
IT 2231	Introduction to Information Technology	3	
Major Electi	ve Courses	39 credits	
Group 1: Students are required to select at least 8 courses (24 credits).			

CS 3441	Biometrics	3
CS 3442	Computer Graphics	3
CS 3443	Computer Network Security	3
CS 3444	Image Processing	3
CS 3445	Enterprise Database System	3
CS 3446	Fundamentals of Cloud Computing	3
CS 3447	Information Retrieval &	
	Search Engines	3
CS 3448	Recommender Systems	3
CS 3449	Machine Learning	3
CS 3450	Systems Analysis and Design	3
CS 3452	Theory of Computation	3
CS 3453	Web Application Development	3
CS 4400	Seminar in Computer Science	3
CS 4401-99	Selected Topics	3

## Group 2: Students are required to choose one concentration and study 5 courses (15 credits) from the chosen concentration.

## Group 2(A) Software Engineering

CS 3411	Human Computer Interaction	3
CS 3412	ICT Project Management	3
CS 3413	Software Architecture and Design	3
CS 3414	Software Engineering	3
CS 3415	Software Engineering Workshop	3
CS 3416	Software Quality Assurance	3
CS 3417	Software Verification and Validation	3

## Group 2(B) Informatics

CS 3421	Artificial Intelligence Concepts	3
CS 3422	Introduction to Big Data Analytics	3
CS 3423	Data Mining	3
CS 3424	Data Warehousing and	
	Business Intelligence	3
CS 3425	Intelligent System Development	3
CS 3426	Multiprocessor Programming	3
CS 3427	Numerical Analysis	3

## Group 2(C) Software Design and Development

CS 3414	Software	Engineering
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FIRST YEAR First Semester

CS 3431	Android Application Development	3
CS 3432	iOS Application Development	3
CS 3433	<b>Enterprise Application Development</b>	3
CS 3434	Introduction to Game Development	3
CS 3435	Game Design and	
	Development Workshop	3
CS 3436	UI/UX Design and Prototyping	3

## C. Free Elective Courses 6 credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).



YEAR Somostor

Course Code	Course TitleCredits	
BG 1001	English I	3
CS 1201	Computer Programming I	3
DA 1121 IT 2231	Basic Mathematics and Statistics Introduction to	3
	Information Technology	3
MGT 1101	Introduction to Business	3
	Total	15
Course Code	Course TitleCredits	
BG 1002	English II	3
CS 1202	Computer Programming II	3
DA 2101	Calculus I	3
DAZIOI	culculus i	5
DA 2101	carcaras	3
DA 2103 GE 2101	Principles of Statistics World Civilization	
DA 2103	Principles of Statistics World Civilization Fundamentals of	3 3
DA 2103 GE 2101	Principles of Statistics World Civilization	3

Course Coo	le Course TitleCredits
BG 2000	English III
CS 2201	Data Structures and Algorithms
CS 2202	Computer Architecture
CS 2203 CS 2101	Programming Languages Mathematics Foundation
	for Computer Science
	One Major Elective Course
	Total
Second Ser	
Second Ser	
	nester
Course Coc	nester le Course TitleCredits
Course Coc BG 2001	nester le Course TitleCredits English IV
Course Coc BG 2001 CS 2204	nester le Course TitleCredits English IV Database Systems



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# **Check List** 9

## THIRD YEAR First Semester

Course Code Course TitleCredits

CS 3201	Algorithms Design	3	
GE 2202	Ethics	3	
LA 4606	Intellectual Property Law	3	
	Three Major Elective Courses	9	
	Total	18	
Second Sen	nester		
Course Code Course TitleCredits			

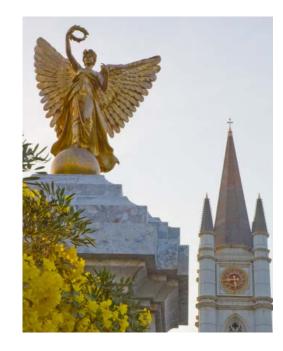
CS 3200	Senior Project I	
MT 4201	Social Interests, Government	
	Policies, and Technology	
	Two Major Elective Courses	
	One Free Elective Course	
	Total	

## FOURTH YEAR First Semester

Course Code Course TitleCredits			
	Five Major Elective Courses One Free Elective Course	15 3	
	Total	18	

# Second Semester

Course Code	Course TitleCredits	
CS 4200	Senior Project II	3
MT 4323	Entrepreneurship in Technology Business	3
	Total	6



## DEPARTMENT OF INFORMATION TECHNOLOGY

## OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows: The program is designed to produce graduates who:

# Have morals and ethics.

- Understand and responsible for the impacts and consequences of technology towards society and the environment.
- Have the knowledge and understanding of the . major principles and theories of information technology.
- Able to manage and develop information . systems and communication network.
- Capable of applying new technology in the • design, operation, linkage, control and management of information systems.
- Possess systematical, logical and critical • thinking skills.
- Able to provide advice and coordinate the . services needed by executives in both internal and external units of organizations.
- . Able to provide solutions related to information systems in the dynamic environment.
- Work with a team and can be a leader or a . follower
- Have responsibility in the assigned tasks and • continuously have self-development in the field of information technology.
- Able to communicate effectively in listening, . speaking, reading and writing both in Thai and English.

## COURSES

COURSES		
A. General I Language C	30 credits 12 credits	
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
Social Scien	ce Courses	6 credits
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
Humanities	Course	3 credits
GE 2101	World Civilization	3
Science and	Mathematics Courses	9 credits
DA 1121	Basic Mathematics and	
	Statistics	3
DA 2103	Principles of Statistics	3
MT 4201	Social Interests, Governmer	nt
	Policies and Technology	3
B. Specialize		90 credits
Basic Course	es	30 credits
DA 2101	Calculus I	3
DA 2203	Probability and	
17 04 54	Statistical Methods	3
IT 2151	Business Systems	3
IT 2130 IT 2157	Systems Science	
IT 2157 IT 2220	Human Computer Interactie Computer System Concepts	
IT 2220	Introduction to	5 5
11 2251	Information Technology	3
IT 3111	User Interface Design	3
LA 4606	Intellectual Property Law	3
CS 1201	Computer Programming I	3
Major Requi	30 credits	

IT 2211	Requirement Engineering	3
IT 2230	Information Structures	3



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## STUDY PLAN

FIRST YEAR First Semes			SECOND YEA First Semeste		
Course Cod	e Course TitleCredits		Course Code	Course Title	Credits
BG 1001	English I	3	BG 2000	English III	3
DA 1121	Basic Mathematics		DA 2101	Calculus I	3
	and Statistics	3	IT 2157	Human Computer Interaction	3
IT 2130	Systems Science	3	IT 2211	Requirement Engineering	3
IT 2231	Introduction to		IT 3210	Database Management System	s 3
	Information Technology	3	IT 3253	Data Communication	
MGT 1101	Introduction to Business	3		and Networking	3
CS 1201	Computer Programming I	3			
	Total	18		Total	18
Second Sen	nester		Second Seme  Course Code	ester  Course TitleCredits	
Course Cod	e Course TitleCredits				2
		2	BG 2001	English IV	3
BG 1002	2.19.001	3	DA 2203	Probability and Statistical Methods	2
DA 2103	Principles of Statistics	3	GE 2202	Ethics	3
GE 2101	World Civilization	3	IT 3231	Information Systems Analysis	3
IT 1251	Business Systems	-	11 5251	One Major Elective Course	2
IT 2220 IT 2230	Computer Systems Concepts Information Structures	3		from Group I	3
11 2250		2		One Major Elective Course	5
	Total	18		from Group II	3
				Total	18

3
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dits

Major Elective Courses

Major Elective courses are divided into two Groups. Students need to study major elective courses from each group according to the following conditions.

## Group 1: Students must select at least 3 courses (9 credits).

IT 2371	Object Oriented Programming I
IT 3351	Web Design and Development I
IT 3355	Mobile Applications Development
IT 3371	Object Oriented Programming II
IT 3372	Visual Programming
IT 4367	Web Design and Development II

## Group 2: Students must select at least 7 courses (21 credits).

IT 3211	Information Storage and Retrieval	3
IT 3230	Management Information Systems	3
IT 3331	Organizational Behavior and	
	Development	3
IT 4141	Public Relations	3
IT 4311	Introduction to Computer Graphics	3
IT 4316	Image Processing	3
IT 4331	Software Testing	3
IT 4340	Introduction to	
	Information Resource Management	3
IT 4358	Expert Systems	3
IT 4359	E-Commerce	3
IT 4360	Multimedia Applications	3
IT 4363	Information System Security	
	and Auditing	3
IT 4366	Advanced Data	
	Management Systems	3
IT 4400-99	Selected Topic	3

## C. Free Elective Courses 6 credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).



## THIRD YEAR First Semester

Course Code Course TitleCredits

IT 3111 IT 3232 LA4606	User Interface Design Information Systems Design Intellectual Property Law One Major Elective Course from Group I One Major Elective Course from Group II
	One Free Elective Course
	Total

# Second Semester

Course Code	Course TitleCredits	
IT 4314 IT 4315	Software Engineering Concepts Objects Oriented Concept in	3
	Analysis and Design	3
	One Major Elective Course	
	from Group I	3
	One Major Elective Course	
	from Group II	3
	One Free Elective Course	3
	Total	15

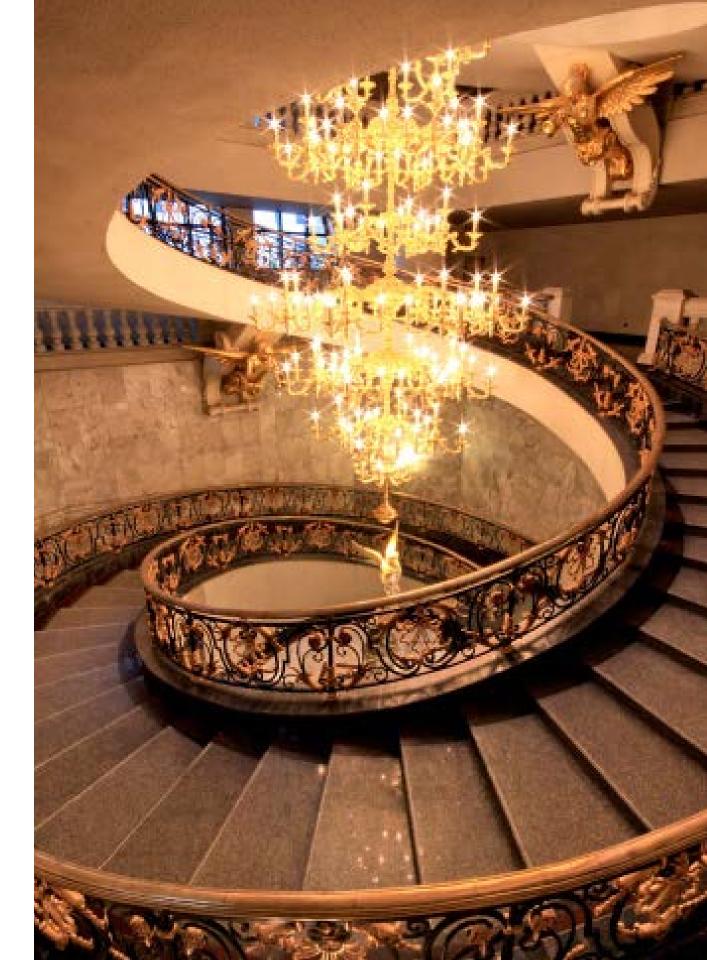
## FOURTH YEAR First Semester

3

3

Course Code	Course Title	Credits
IT 4291	Senior Project I	3
MT 4201	Social Interests, Government Policies and Technology Three Major Elective Course	3
	from Group II	9
	Total	15

Course Code	Course TitleCredits	
IT 4292	Senior Project II One Major Elective Course	3
	from Group II	3
	Total	6





# VINCENT MARY SCHOOL **OF ENGINEERING**

## Curriculum Structure

Courses	Computer Engineering	Electrical and Electronic Engineering	Telecommunication and Electronic Engineering	Mechatronics Engineering
A. General Education Courses	30	34	34	34
- Language Courses	12	12	12	12
- Social Science Courses	6	6	6	6
- Humanities Courses	3	3	3	3
- Science and Mathematics Courses	9	13	13	13
B. Specialized Courses	110	105	107	106
- Basic Engineering Courses	20	20	20	20
- Core Courses	11	21	20	21
- Major Required Courses	70	58	61	59
- Major Elective Courses	9	6	6	6
C. Free Electives Courses	6	6	6	6
Total Credits	146	145	147	146



## **GRADUATION REQUIREMENTS**

Assumption University confers the degree of Bachelor of Engineering upon students who meet all the requirements as follows:

- Have completed the total number of credits of the curriculum
- Have obtained a cumulative grade point average of at least 2.00
- Have participated in 16 sessions of the Professional Ethics Seminar
- Have obtained library and financial clearance from the University
- Have demonstrated good behavior and discipline



## DEPARTMENT OF COMPUTER ENGINEERING

## OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- 1. Have moral and professional ethics.
- 3. Capable of conducting research in both theoreti-
- 4. Have good personality, good social manners and able to appropriately work with people at all
- 5. Have strong mathematical, computational and

## COURSES

<mark>A. General Ed</mark> Language Co	lucation Courses urses	30 Credits 12 credits
BG 1001 BG 1002 BG 2000 BG 2001	English II English III	3 3 3 3
Social Science	e Courses	6 credits
GE 2202 MGT 1101	Ethics Introduction to Business	3
Humanities C	Courses	3 credits
	World Civilization Mathematics Courses	3 9 credits
BG 1221 BG 2208 GE 1301		3 3 3
B. Specialized Basic Enginee	l Courses ering Courses	110 Credits 20 credits

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BG 1204	Calculus I	3
BG 1205	Calculus II	3
BG 1211	Physics I	3
BG 1212	Physics Laboratory I	1
BG 1213	Physics II	3
BG 1214	Physics Laboratory II	1
BG 2207	Engineering Mathematics	3
BG 2209	Statistics for Engineers	3
Core Courses		11 credits

EE 2203	Signals and Systems	3
ME 1112	Engineering Laboratory	2
ME 1113	Engineering Drawing	3
ME 2211	Engineering Mechanics I	3

- 2. Have knowledge in Computer Engineering and
- able to apply knowledge.
- cal and practical aspects.
- levels.
- information technology skills.



#### Μ Major Required Courses for All Majors 58 credits Te CE 2102 Data Structure and Algorithms 3 ---CE 2703 Introduction to Computer CE Systems 3 CE CE 2704 Digital Logic Design 3 Digital Logic Design Laboratory CE 2705 CE 1 CE 2709 Computer Architecture 3 CE CE 3002 **Commercial Application** Programming 3 Ν CE 3103 Computer Operating Systems 3 CE 3104 Software Engineering 3 A CE 3109 Database Management Systems 3 CE 3111 Design and Analysis of CE Algorithms 3 CE 4207 System and Network C Programming 3 CE CE 4221 Network Applications and Technology 3 C CE 4224 Telecommunication Networks C Laboratory C 1 CE 4225 Computer and Network Security 3 CE 4228 Data Communication and C Networking 3 CE CE CE 4905 Computer and Network Engineering Project I 1 CE CE 4906 Computer and Network Engineering Project II 2 EE EE 2201 **Electric Circuits** 3 EE 2202 Electric Circuits Laboratory 1 EE EE 2605 Engineering Electronics 3 EE 2606 Engineering Electronics EE Laboratory 1 EE 3703 Microprocessors EE 3 TE 3000 Principles of Communications 3 E Ε Major Required Courses for Computer Systems Ε 12 credits E CE 3105 Microprocessor Programming Ε Using Assembly & C Ε 3 CE 3106 Programming Languages 3 Ε CE 3707 Microprocessor Systems Design 3 CE 3710 Microprocessor Systems Design Laboratory 1 CE 4001 Software Development Laboratory 1 CE 4711 Microcomputer Interfacing Laboratory 1

Major Require Technology	ed Courses for Network	12 credit	S
CE 3901	Digital Audio/Video Coding		
	Technique		3
CE 4223	Advanced Computer Netwo	rks	3
CE 4226	Network Systems Analysis		
	and Design		3
CE 4227	Mobile and Wireless Networ	ks	3
Major Elective	e Courses	9 credit	S
AD 3114	Interactive Advertising and		
	Marketing Communication		3
CE 4106	<b>Object-Orient Programming</b>	J	3
CE 4108	Operations Research		3
CE 4109	Information Systems Analys	is	
	and Design		3
CE 4110	Compilers		3
CE 4114	Data Mining		3
CE 4713	Advanced Computer		
	Architecture		3
CE 4714	Fault-Tolerant Computer		3
CE 4715	Artificial Intelligence		3
CE 4905	Advanced Topics in		
	Computer Engineering		3
CE 4906	Special Problems in		
	Computer Engineering		3
EE 2401	Electromechanical Energy		
	Conversion		3
EE 2402	Electromechanical Energy		
	Conversion Laboratory		1
EE 3301	Electromagnetic Fields		3
EE 3406	Control Systems		3
EE 3601	Electronic Circuit Design		3
EE 3602	Electronic Circuit Design		
	Laboratory		1
EE 3704	Embedded Systems		3
EE 4305	Digital Signal Processing		3
EE 4403	Basic Mechatronics		3
EE 4503	Electrical Systems Design		3
EE 4602	Industrial Instrumentation		
	and Control		3
E 4201	Engineering Management		3
E 4203	Engineering Economics		3
MCE 4801	Instrument for Aviation		6
NM 3410	New Media Application		3
NM 4405	Broadcast and New Media		-
	Management		3
	management		-

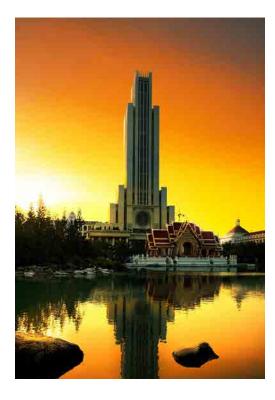
#### TE 4107 **Digital Telephony** 3 TE 4112 **Optical Communications** 3 TE 4201 **Communication Electronics** 3 TE 4202 **Communication Electronics** Laboratory TE 4204 Optoelectronics 3 TS 4261 Internetworking Workshop I 4 TS 4262 Internetworking Workshop II 4 Students can also select major required courses of

other majors as their major elective courses.

6 Credits

## C. Free Elective Courses

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).



## STUDY PLAN

FIRST YEAR First Semester			
Course Code	Course Title	Credits	
BG 1001 BG 1204 BG 1211 BG 1212 BG 1221 ME 1112 ME 1113	English I Calculus I Physics I Physics Laboratory I Computer Programming Engineering Laboratory Engineering Drawing	3 3 1 3 2 3	
	Total	. 18	

Second Semester			
Course Code	Course Title	Credits	
BG 1002	English II	3	
BG 1205	Calculus II	3	
BG 1213	Physics II	3	
BG 1214	Physics Laboratory II	1	
BG 2208	Discrete Mathematics	3	
CE 2102	Data Structure and Algorithms	3	
CE 2703	Introduction to Computer Syster	ns 3	
	Total	19	



## SECOND YEAR First Semester

Course Code	Course Title	Credits
BG 2000	English III	3
BG 2207	Engineering Mathematics	3
CE 2704	Digital Logic Design	3
CE 2705	Digital Logic Design Laborator	y 1
EE 2201	Electric Circuits	3
EE 2202	Electric Circuits Laboratory	1
ME 2211	Engineering Mechanics I	3
GE 2101	World Civilization	3
	Total	20

## Second Semester

Course Title	Credits
English IV	3
Statistics for Engineers	3
Signals and systems	3
Electronic Circuit Analysis	3
Electronic Circuit Analysis	
Laboratory	1
Environmental Science	3
Total	16
	English IV Statistics for Engineers Signals and systems Electronic Circuit Analysis Electronic Circuit Analysis Laboratory Environmental Science

## THIRD YEAR First Semester

Course Code	Course Title	Credits
CE 2709	Computer Architecture	3
CE 3103	Computer Operating Systems	3
CE 3109	Database Management System	ns 3
CE 4228	Data Communication and	
	Networking	3
EE 3703	Microprocessors	3
TE 3000	Principles of Communications	3
	Total	18

## Second Semester

Course Code	Course Title	Credits
CE 3104	Software Engineering	3
CE 3111	Design and Analysis of	
	Algorithms	3
CE 4207	System and Network	
	Programming	3
CE 4221	Network Applications and	
	Technology	3
For Concentra	ation in Computer Systems	
CE 3105	Microprocessor Programming	

CE 3105	Microprocessor Programming	
	Using Assembly & C	3
CE 3707	Microprocessor Systems Design	3
CE 3710	Microprocessor Systems	
	Design Laboratory	1
	Total	19

## For Concentration in Network Technology Major

CE 3901	Digital Audio/Video Coding	
	Technique	3
CE 4223	Advanced Computer Networks	3
	Total	18

## FOURTH YEAR First Semester Course Code Course Title Credits CE 3002 **Commercial Application** Programming 3 CE 4224 Telecommunication Networks Laboratory 1 CE 4225 Computer and Network Security 3 CE 4905 Computer and Network Engineering Project I 1 One Major Elective Course 3 One Free Elective Course 3 For Concentration in Computer Systems CE 3106 Programming Languages 3

## CE 4711 Microcomputer Interfacing Laboratory One Major Elective Course 3 Total 18

## For Concentration in Network Technology Major

CE 4226	Network Systems Analysis	
	and Design	3
	One Major Elective Course	3
	Total	17

# Second Semester

Course Coo	de Course Title	Credits
CE 4906	Computer and Network	-
	Engineering Project II	2
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
	One Free Elective Course	3
For Concer CE 4001	tration in Computer Systems Software Development Labor One Major Elective Course One Major Elective Course	atory 1 3 3
	Total	18
		-

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## For Concentration in Network Technology Major

CE 4227	Mobile and Wireless Networks One Major Elective Course	3 3
	Total	17



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1



COURSES

## DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

## OBJECTIVES

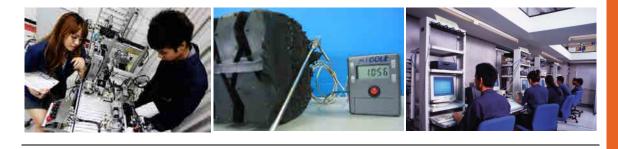
To produce graduates who have the characteristics, knowledge and skills as follows:

- Have moral and professional ethics.
- Have knowledge in electrical engineering and able to apply knowledge in the administration of building electrical systems, high-voltage systems, illumination systems, industrial electrical systems, and safety in electrical systems.
- Capable of conducting research in both • theoretical and practical aspects.
- Have good personality, good social manners and able to appropriately work with people of all levels.
- Have strong mathematical, computational and information technology skills.

	A. General Education Courses Language Courses		
BG 1001 BG 1002 BG 2000 BG 2001	English I English II	3 3 3 3	
Social Scien	Social Science Courses		
GE 2202 MGT 1101	Ethics Introduction to Business	 3 3	
Humanities	Humanities Courses		
GE 2101	World Civilization	3	
Science and	Science and Mathematics Courses		
BG 0008 BG 1108 BG 1221 BG 2208 GE 1301		atory 1 3 3 3 3 3	
B. Specialize	105 Credits		

D. Specialized	courses	00 0.00.00	
Basic Enginee	ering Courses	20 credits	
BG 1204	Calculus I	3	
BG 1205	Calculus II	3	
BG 1211	Physics I	3	
BG 1212	Physics Laboratory I	1	
BG 1213	Physics II	3	
BG 1214	Physics Laboratory II	1	
BG 2207	Engineering Mathematics	3	
BG 2209	Statistics for Engineers	3	
Core Courses		21 credits	
CE 3105	Microprocessor Programmi	ng	
	Using Assembly & C	3	
EE 3301	Electromagnetic Fields	3	
IE 1110	E		
	Engineering Materials	3	
ME 1112	Engineering Materials Engineering Laboratory	3	
ME 1113	Engineering Laboratory Engineering Drawing	2	
ME 1113 ME 2211	Engineering Laboratory Engineering Drawing Engineering Mechanics I	2 3 3	
ME 1113 ME 2211 TE 3000	Engineering Laboratory Engineering Drawing Engineering Mechanics I Principles of Communication	2 3 3 ons 3	
ME 1113 ME 2211	Engineering Laboratory Engineering Drawing Engineering Mechanics I	2 3 3 ons 3	

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Laboratory pratory inergy pry	3 1 3 1 3	EE 3704 EE 4201 EE 4301 EE 4305 EE 4401 EE 4402	Embedded Systems Network Theory Introduction to Electromagnetic Compatibility Digital Signal Processing Electric Drive	33
nergy nergy	3 1 3	EE 4301 EE 4305 EE 4401	Introduction to Electromagnetic Compatibility Digital Signal Processing Electric Drive	
nergy	1 3	EE 4305 EE 4401	Compatibility Digital Signal Processing Electric Drive	3
nergy	3	EE 4401	Digital Signal Processing Electric Drive	3
nergy nergy		EE 4401	Electric Drive	
nergy	3			3
	3	FF 4402		~
		LL 1102	Analysis and Design of	
ory			Electrical Machines	(*)
	1	EE 4403	Basic Mechatronics	
nics	3	EE 4504	Illumination Engineering	3
nics		EE 4600	IC Technology	3
		EE 4602		
				3
Laboratory				3
		EE 4701		
	3	FF 1000		3
sign		EE 4903		_
	1	FF (00)	5 5	(7)
ts and	2	EE 4904		
		-	5 5	3
				3
				3
				6
				(7)
	3	TE 3102		_
,	2	TE 4107		1
stribution				
	I			1
	1	TE 4202		1
	I	TE 4204		1
	2	TE 4204	Optoelectronics	2
11	Z	C. Eroo Elect		dite
6 cre	edits	C. Free Elect	live Courses 8 Cre	ans
		3 sign 3 sign 1 ts and 3 rsis 3 esign 3 ction 3 seering 3 stribution 3 stribution 3 stribution 3 aboratory 1 onic 1 ponic 1	3       EE 4606         3       EE 4701         ssign       3         ssign       EE 4903         1       EE 4904         3       IE 4201         ssis       3         ssis       3         ssign       3         ssis       3         ssis       3         ssis       3         ssis       3         sesign       3         sesign       3         ME 3310         evering       3         stribution       3         stribution       3         TE 4107         3       TE 4107         a       TE 4201         ponic       TE 4202         I       1         ponic       TE 4204         II       2         C. Free Elect	3and ControlLaboratory1EE 4606Industrial Electronicsasign3EE 4701Microprocessor Interfaceasign3EE 4903Advanced Topics in Electricaland/or Electronic Engineeringand/or Electronic Engineeringts andEE 4904Special Problems in Electrical3IE 4201Engineering Managementsis3IE 4203Engineering Economicsseign3MCE 4801Instrument for Aviationction3ME 3310Thermofluidserering3TE 4107Digital Telephonystribution3TE 4112Optical Communication Electronicsboratory1TE 4202Communication Electronics11Laboratory112C. Free Elective Courses6 Cree6 credits

3

3

Laboratory

Networking

Data Communication and

CE 4228





## STUDY PLAN

FIRS	ΤY	EAF	2
First	Se	me	ster

Course Code	Course Title	Credits
BG 1001	English I	3
BG 1204	Calculus I	3
BG 1211	Physics I	3
BG 1212	Physics Laboratory I	1
BG 1221	Computer Programming	3
ME 1112	Engineering Laboratory	2
ME 1113	Engineering Drawing	3
	Total	18

## Second Semester

Course Code	Course Title	Credits
BG 0008	General Chemistry Laboratory	1
BG 1002	English II	3
BG 1108	General Chemistry	3
BG 1205	Calculus II	3
BG 1213	Physics II	3
BG 1214	Physics Laboratory II	1
BG 2208	Discrete Mathematics	3
IE 1110	Engineering Materials	3
	Total	20

## SECOND YEAR First Semester Course Code Course Title BG 2000 English III BG 2207 Engineering Mathematics EE 2201 **Electric Circuits** EE 2202 Electric Circuits I

EE 2202	Electric Circuits Laboratory	1
EE 2605	Engineering Electronics	3
EE 2606	Engineering Electronics	
	Laboratory	1
ME 2211	Engineering Mechanics I	3
MGT 1101	Introduction to Business	3
	Total	20

Credits

3

3

3

## Second Semester

Course Code	Course Title	Credits
GE 1301	Environmental Science	3
BG 2001	English IV	3
BG 2209	Statistics for Engineers	3
CE 2704	Digital Logic Design	3
CE 2705	Digital Logic Design Laborator	y 1
EE 2203	Signals and systems	3
EE 2401	Electromechanical Energy	
	Conversion	3
EE 2402	Electromechanical Energy	
	Conversion Laboratory	1
	Total	20

## THIRD YEAR First Semester Course Code Course Title Credits CE 3105 Microprocessor Programming Using Assembly & C 3 EE 3402 Electrical Machines 3 EE 3403 **Electrical Machines Laboratory** 1 EE 3601 3 Electronic Circuit Design EE 3602 Electronic Circuit Design Laboratory 1 EE 3606 Electrical Instruments and 3 Measurements GE 2101 3 World Civilization Total 17

Second Semester

GE 2202

EE 3301

EE 3406

EE 3703

TE 3000

TE 3002

Course Code Course Title

Ethics

Total

Electromagnetic Fields

Principles of Communications

Communications Laboratory

One Major Elective Course

**Control Systems** 

Microprocessors

### Course Code Course Title Credits EE 4501 Power System Analysis 3 EE 4503 Electrical Systems Design 3 EE 4506 High Voltage Engineering 3 Electrical and Electronic EE 4901 Engineering Project I 1 One Major Elective Course 3 One Free Elective Course 3 16 Total

## Second Semester

Credits

3

3

3

3

3

1

3

19

FOURTH YEAR

First Semester

Course Code	Course Title	Credits
EE 4505 EE 4518	Power System Protection Electrical Power Generation,	3
	Transmission and Distribution	3
EE 4705	Power Electronics	3
EE 4706	Power Electronics Laboratory	1
EE 4902	Electrical and Electronic	
	Engineering Project II	2
	One Free Elective Course	3
	Total	15

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# DEPARTMENT OF MECHATRONICS ENGINEERING

## OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- 1. Have moral and professional ethics.
- 2. Have knowledge in Mechatronics Engineering and able to apply knowledge.
- 3. Capable of conducting research in both theoretical and practical aspects.
- Have good personality, good social manners and able to appropriately work with people of all levels.
- 5. Have strong mathematical, computational and information technology skills.

COURSES				
<mark>A. General E</mark> Language Co		34 Credits 12 credits		
BG 1001 BG 1002 BG 2000 BG 2001	English I English II English III	3 3 3 3		
Social Scien	ce Courses	6 credits		
GE 2202 MGT 1101	Ethics Introduction to Business	3		
Humanities	Courses	3 credits		
GE 2101	World Civilization	3		
Science and	Science and Mathematics Courses 13 credits			
	,	tory 1 3 3 3 3		

B. Specialized Courses Basic Engineering Courses		106 Credits 20 credits
BG 1204	Calculus I	3
BG 1205	Calculus II	3
BG 1211	Physics I	3
BG 1212	Physics Laboratory I	1
BG 1213	Physics II	3
BG 1214	Physics Laboratory II	1
BG 2207	Engineering Mathematics	3
BG 2209	Statistics for Engineers	3
Core Courses		21 credits
Core Courses	for all concentrations	17 credits
EE 2203	Signals and Systems	3
IE 1110	Engineering Materials	3
ME 1112	Engineering Laboratory	2
ME 1113	Engineering Drawing	3
ME 2211	Engineering Mechanics I	3
ME 2222	Engineering Mechanics II	3

#### *Select ONLY ONE Concentrations: Maior Required Courses for Core Courses for Concentration in Automation 4 Credits EE 3402 Electrical Machines 3 EE 3403 Electrical Machines Laboratory 1 Core Courses for Concentration in Marine 4 Credits ME 3501 Naval Architecture and Ship Construction 4 Major Required Courses 59 credits Major Required Courses for All Concentration 41 credits CE 2704 Digital Logic Design 3 CE 2705 Digital Logic Design Laboratory 1 EE 2201 Electric Circuits 3 EE 2202 Electric Circuits Laboratory 1 EE 2401 Electromechanical Energy Conversion 3 EE 2402 Electromechanical Energy **Conversion Laborator** 1 EE 2605 **Engineering Electronics** 3 EE 2606 **Engineering Electronics** Laboratory 1 EE 3406 Control Systems 3 EE 4705 **Power Electronics** 3 EE 4706 Power Electronics Laboratory 1 IE 4100 Manufacturing Processes 3 MCE 2101 Fundamentals of Mechatronics Engineering 3 MCE 2102 Mechatronics Engineering Laboratory I 1 MCE 4103 Mechatronics Engineering

Laboratory II

Project I

Project II

Systems

Mechatronics Engineering

Mechatronics Engineering

Pneumatic and Hydraulic

Pneumatic and Hydraulic Systems Laboratory

Mechanics of Material

MCE 4901

MCE 4902

ME 3110

ME 3311

ME 3312

CE 4201	Image Processing and	
	Computer Vision	3
EE 3405	Digital Control Systems	3
EE 3703	Microprocessor	3
MCE 4101	Introduction to Robotics	3
MCE 4102	Introduction to Industrial	
	Automation	3
ME 3120	Mechanics of Machinery	3
	ired Courses for	
Concentrati	on in Marine 18 Cre	dits
ME 3401	Marine Electrical Powering	
	and System	3
ME 4410	Thermodynamics	3
ME 4411	Heat Transfer	3
ME 4501	Ship Dynamics	3
ME 4502	Marine Propulsion and	
	Machinery System	3
ME 4503	Ship Operation and Maintenance	3
Major Electi	ve Courses 6 credits	
Students ca	ve Courses 6 credits 	
Students ca 6 credits fro	n take major elective courses of	
Students ca 6 credits fro	n take major elective courses of m the following courses.	3
Students ca 6 credits fro CE 3002	n take major elective courses of m the following courses. Commercial Application	3
Students ca 6 credits fro CE 3002	n take major elective courses of m the following courses. Commercial Application Programming	3
Students ca 6 credits fro CE 3002 CE 4221	n take major elective courses of m the following courses. Commercial Application Programming Network Applications and	
Students ca 6 credits fro CE 3002 CE 4221	n take major elective courses of m the following courses. Commercial Application Programming Network Applications and Technology	
CE 4221 CE 4225 CE 4225	n take major elective courses of m the following courses. Commercial Application Programming Network Applications and Technology Telecommunication Network Laboratory Computer and Network Security	3 1 3
CE 4221 CE 4225 CE 4225	n take major elective courses of m the following courses. Commercial Application Programming Network Applications and Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields	3
CE 3002 CE 4221 CE 4224 CE 4225 EE 3301	n take major elective courses of m the following courses. Commercial Application Programming Network Applications and Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and	3 1 3 3
Students ca 6 credits fro CE 3002 CE 4221 CE 4224 CE 4225 EE 3301 EE 3606	n take major elective courses of m the following courses. Commercial Application Programming Network Applications and Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements	3 1 3 3 3
Students ca 6 credits fro CE 3002 CE 4221 CE 4224 CE 4225 EE 3301 EE 3606	n take major elective courses of m the following courses. Commercial Application Programming Network Applications and Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems	3 1 3 3 3 3
CE 4221 CE 4221 CE 4224 CE 4225 EE 3301 EE 3606 EE 3704 EE 4305	n take major elective courses of m the following courses. Commercial Application Programming Network Applications and Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems Digital Signal Processing	3 1 3 3 3 3 3
CE 4221 CE 4221 CE 4224 CE 4225 EE 3301 EE 3606 EE 3704 EE 4305	n take major elective courses of m the following courses. Commercial Application Programming Network Applications and Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems Digital Signal Processing Power System Analysis	3 1 3 3 3 3 3 3
CE 4221 CE 4221 CE 4224 CE 4225 EE 3301 EE 3606 EE 3704 EE 4305 EE 4501 EE 4503	n take major elective courses of m the following courses. Commercial Application Programming Network Applications and Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems Digital Signal Processing Power System Analysis Electrical System Design	3 3 3 3 3 3 3 3 3
Students ca 6 credits fro CE 3002 CE 4221 CE 4224 CE 4225 EE 3301 EE 3606 EE 3704 EE 4305 EE 4501 EE 4503 EE 4506	n take major elective courses of m the following courses. Commercial Application Programming Network Applications and Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems Digital Signal Processing Power System Analysis Electrical System Design High Voltage Engineering	3 1 3 3 3 3 3 3 3 3 3 3
Students ca 6 credits fro CE 3002 CE 4221 CE 4224 CE 4225 EE 3301 EE 3606 EE 3704 EE 4305 EE 4501 EE 4503 EE 4506 EE 4507	n take major elective courses of m the following courses. Commercial Application Programming Network Applications and Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems Digital Signal Processing Power System Analysis Electrical System Design High Voltage Engineering Power Plant Engineering	3 3 3 3 3 3 3 3 3
Students ca 6 credits fro CE 3002 CE 4221 CE 4224 CE 4225 EE 3301 EE 3606 EE 3704 EE 4305 EE 4501 EE 4503 EE 4506	n take major elective courses of m the following courses. Commercial Application Programming Network Applications and Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems Digital Signal Processing Power System Analysis Electrical System Design High Voltage Engineering Power Plant Engineering Industrial Instrumentation and	3 1 3 3 3 3 3 3 3 3 3 3 3 3
Students ca 6 credits fro CE 3002 CE 4221 CE 4224 CE 4225 EE 3301 EE 3606 EE 3704 EE 4305 EE 4501 EE 4503 EE 4503 EE 4506 EE 4507 EE 4602	n take major elective courses of m the following courses. Commercial Application Programming Network Applications and Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems Digital Signal Processing Power System Analysis Electrical System Design High Voltage Engineering Power Plant Engineering Industrial Instrumentation and Control	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Students ca 6 credits fro CE 3002 CE 4221 CE 4224 CE 4225 EE 3301 EE 3606 EE 3704 EE 4305 EE 4501 EE 4503 EE 4503 EE 4507 EE 4602 EE 4603	n take major elective courses of m the following courses. Commercial Application Programming Network Applications and Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems Digital Signal Processing Power System Analysis Electrical System Design High Voltage Engineering Power Plant Engineering Industrial Instrumentation and Control Industrial Electronics	3 1 3 3 3 3 3 3 3 3 3 3 3 3
Students ca 6 credits fro CE 3002 CE 4221 CE 4224 CE 4225 EE 3301 EE 3606 EE 3704 EE 4305 EE 4501 EE 4503 EE 4506 EE 4507	n take major elective courses of m the following courses. Commercial Application Programming Network Applications and Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems Digital Signal Processing Power System Analysis Electrical System Design High Voltage Engineering Power Plant Engineering Industrial Instrumentation and Control	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

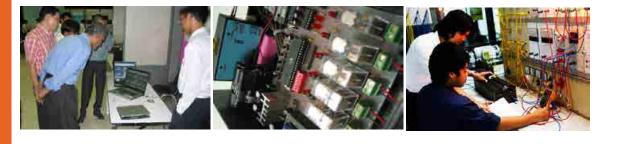
1

1

2

3

3





## STUDY PLAN

Second Semester

BG 0008

BG 1002

BG 1108

BG 1205

BG 1213

BG 1214

BG 2208

IE 1110

Course Code Course Title

English II

Calculus II

Total

General Chemistry

Physics II Physics Laboratory II

Discrete Mathematics

Engineering Materials

First Year First Semeste	r	
Course Code	Course Title	Credits
BG 1001	English I	3
BG 1204	Calculus I	3
BG 1211	Physics I	3
BG 1212	Physics Laboratory I	1
BG 1221	Computer Programming	3
ME 1112	Engineering Laboratory	2
ME 1113	Engineering Drawing	3
	Total	18

General Chemistry Laboratory

Second Year First Semeste	r	
Course Code	Course Title	Credits
BG 2000	English III	3
BG 2207	Engineering Mathematics	3
CE 2704	Digital Logic Design	3
CE 2705	Digital Logic Design Laborator	y 1
EE 2201	Electric Circuits	3
EE 2202	Electric Circuits Laboratory	1
MCE 2101	Fundamental of Mechatronics Engineering	3
MCE 2102	Fundamental of Mechatronics	
	Engineering Laboratory I	1
ME 2211	Engineering Mechanics I	3
	Total	21

## Second Semester

Credits

1

3

3

3

3

1

3

3 20

Course Code	Course Title	Credits
BG 2001	English IV	3
BG 2209	Statistics for Engineers	3
EE 2203	Signals and Systems	3
EE 2401	Electromechanical Energy	
	Conversion	3
EE 2402	Electromechanical Energy	
	Conversion Laboratory	1
EE 2605	Engineering Electronics	3
EE 2606	Engineering Electronics	
	Laboratory	1
ME 2222	Engineering Mechanics II	3
	Total	20

IE 4101	Manufacturing and Information	
	Technology	3
IE 4201	Engineering Management	3
IE 4203	Engineering Economics	3
MCE 4801	Instrument for Aviation	6
MCE 4903	Advanced Topics in	
	Mechatronics Engineering	3
MCE 4904	Special Problems in	
	Mechatronics Engineering	3
ME 4010	Machine Design	3
ME 4310	Mechanical Vibration	3
ME 4412	Internal Combustion Engines	3
ME 4504	Fluid Mechanics	3
ME 4505	Ship Design	3
TE 3000	Principles of Communications	3

Remark: Students can also select major required courses of other majors as their major elective course.

## C. Free Elective Courses

6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).





Credits



## Fourth Year First Semester

MCE 4902

ME 4502

ME 4503

MCE 4101

	Course Code	Course Title	Credits
	GE 2202	Ethics	- 3
	MCE 4103	Mechatronics Engineering	
dits		Laboratory II	1
	MCE 4901	Mechatronics Engineering	
3		Project I	1
3	MGT 1101	Introduction to Business	3
		One Major Elective Course	3
3		One Free Elective Course	3
	For Concentra	ation in Marine	
1	ME 4501	Ship Dynamics	3
	OR For Conce	ntration in Automation	
	MCE 4102	Introduction to Industrial	
3		Automation	3
3			-
		Total	17
3			-
1			

EE 3403	Electrical Machines Laboratory	1
EE 3703	Microprocessor	3
	Total	16-17

## Second Semester

Third Year First Semester

EE 3406

ME 3110

ME 3311

ME 3312

ME3401

ME4410

EE 3402

Course Code Course Title

For Concentration in Marine

Control Systems

Systems

and System

OR For Concentration in Automation

Thermodynamics

Electrical Machines

Mechanics of Materials

Pneumatic and Hydraulic

Pneumatic and Hydraulic

Marine Electrical Powering

Systems Laboratory

Course Code	Course Title	Credits
GE 1301	Environmental Science	3
GE 2101	World Civilization	3
IE 4100	Manufacturing Processes	3
For Concentra	ation in Marine	
ME3501	Nerval Architecture and	
	Ship Construction	4
ME4411	Heat Transfer	3
OR For Conce	ntration in Automation	
CE 4201	Image Processing and	
	Computer Vision	3
EE 3405	Digital Control Systems	3
ME 3120	Mechanics of Machinery	3
	Total	16-18

MCE 4103	Mechatronics Engineering	1			
MCE 4901	Laboratory II Mechatronics Engineering	1			
MCE 4901	Project I	1			
MGT 1101	Introduction to Business	3			
Martio	One Major Elective Course	3			
	One Free Elective Course	3			
For Concentra	ation in Marine	5			
ME 4501	Ship Dynamics	3			
	ntration in Automation				
MCE 4102	Introduction to Industrial				
	Automation	3			
	Total	17			
		-			
c 1.c					
Second Semester					
Course Code	Course Title	Credits			
EE 4705	Power Electronics	3			
EE 4706	Power Electronics Laboratory	1			
	,				

Mechatronics Engineering

One Major Elective Course

One Free Elective Course

Marine Propulsion and

Introduction to Robotics

Machinery Systems

Ship Operation & Maintenanace

Project II

OR For Concentration in Automation

Total

For Concentration in Marine

2

3

3

3

3

3

15-18

## DEPARTMENT OF TELECOMMUNICATION AND ELECTRONIC ENGINEERING

## OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows: 1. Have moral and professional ethics.

- 2. Have knowledge in Telecommunication and Electronic Engineering and able to apply knowledge and skills.
- 3. Capable of conducting research in both theoretical and practical aspects.
- 4. Have good personality, good social manners and able to appropriately work with people of all levels.
- 5. Have strong mathematical, computational and information technology skills.

## COURSES

COURSES		
<mark>A. General Ed</mark> Language Co	34 Credits 12 credits	
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
Social Science	e Courses6 credits	
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
Humanities C	Courses	3 credits
GE 2101	World Civilization	3
Science and I	Mathematics Courses	13 credits
BG 0008	General Chemistry Labora	atory 1
BG 1108	General Chemistry	3
BG 1221	Computer Programming	3
BG 2208	Discrete Mathematics	3
GE 1301	Environmental Science	3
B. Specialized	Courses	107 Credits
Basic Engine	ering Courses	20 credits
BG 1204	Calculus I	3
BG 1205	Calculus II	3
BG 1211	Physics I	3
BG 1212	Physics Laboratory I	1
BG 1213	Physics II	3
BG 1214	Physics Laboratory II	1
BG 2207	Engineering Mathematics	5 3
BG 2209	Statistics for Engineers	3
Core Courses		20 credits
CE 4207	System and Network	
	Programming	3
EE 3406	Control Systems	3
EE 4305	Digital Signal Processing	3
IE 1110	Engineering Materials	3
ME 1112	Engineering Laboratory	2
ME 1113	Engineering Drawing	3
ME 2211	Engineering Mechanics I	3





## STUDY PLAN

Course Code	Course Title	Credits
BG 1001	English I	3
BG 1204	Calculus I	3
BG 1211	Physics I	3
BG 1212	Physics Laboratory I	1
BG 1221	Computer Programming	3
ME 1112	Engineering Laboratory	2
ME 1113	Engineering Drawing	3

		-		Т
Second Seme	ester		Second Sen	nest
Course Code	Course Title	Credits	Course Cod	e C
BG 0008	General Chemistry Laboratory	· 1	BG 2001	E
BG 1002	English II	3	BG 2209	S
BG 1108	General Chemistry	3	CE 2704	C
BG 1205	Calculus II	3	CE 2705	C
BG 1213	Physics II	3	EE 2203	S
BG 1214	Physics Laboratory II	1	GE 1301	E
BG 2208	Discrete Mathematics	3	GE 2101	V
IE 1110	Engineering Materials	3		
		-		Т
	Total	20		

Course Code	Course Title	Cr
BG 2000	English III	
BG 2207	Engineering Mathematics	
EE 2201	Electric Circuits	
EE 2202	Electric Circuits Laboratory	
EE 2605	Engineering Electronics	
EE 2606	Engineering Electronics	
	Laboratory	
ME 2211	Engineering Mechanics I	
MGT 1101	Introduction to Business	

## ster

Course Code	Course Title	Credits
BG 2001	English IV	3
BG 2209	Statistics for Engineers	3
CE 2704	Digital Logic Design	3
CE 2705	Digital Logic Design Laborator	y 1
EE 2203	Signals and systems	3
GE 1301	Environmental Science	3
GE 2101	World Civilization	3
	Total	19

#### Major Required Courses 61 credits CE 2704 Digital Logic Design 3 CE 2705 Digital Logic Design Laboratory 1 CE 4224 Telecommunication Networks Laboratory 1 CE 4228 Data Communication and Networking 3 EE 2201 **Electric Circuits** 3 EE 2202 Electric Circuits Laboratory 1 EE 2203 Signals and Systems 3 EE 2605 Engineering Electronics 3 EE 2606 Engineering Electronics Laboratory 1 EE 3301 Electromagnetic Fields 3 EE 3601 Electronic Circuit Design 3 EE 3602 Electronic Circuit Design Laboratory 1 EE 3606 Electrical Instruments and Measurements 3 EE 3703 3 Microprocessors TE 3000 Principles of Communications 3 Communications Laboratory TE 3002 1 TE 3102 Communication Networks and Transmission Lines 3 TE 3301 Radio Wave Propagation 3 TE 4105 Microwave Engineering 3 TE 4111 Antenna Engineering 3 TE 4112 **Optical Communications** 3 TE 4113 Digital Communication 3 TE 4201 **Communication Electronics** 3 TE 4202 Communication Electronics Laboratory 1 TE 4901 Telecommunication and Electronic Engineering Project I 1 TE 4902 Telecommunication and Electronic Engineering Project II 2

	n take major elective courses of 6 cro following courses.	ed-
BG 4000	Advanced Engineering	
	Mathematics	3
CE 2102	Data Structure and Algorithms	3
CE 3002	Commercial Application	_
	Programming	3
CE 4221	Network Applications and	2
CE (000	Technology	3
CE 4223	Advanced Computer Networks	3
CE 4227	Mobile and Wireless Networks	3
EE 2401	Electromechanical Energy	2
EE 2402	Conversion	3
EE 2402	Electromechanical Energy	1
EE 3704	Conversion Laboratory Embedded Systems	1 3
EE 4503	Electrical Systems Design	3
IE 4201	Engineering Management	3
IE 4201	Engineering Economics	3
MCE 4801	Instrument for Aviation	3
TE 4107	Digital Telephony	3
TE 4110	Wireless Communications and	0
	Cellular Systems	3
TE 4203	Noise in Electronic Systems	3
TE 4204	Optoelectronics	3
TE 4903	Advanced Topics in	
	Telecommunication	3
	and Electronic Engineering	
TE 4904	Special Problems in	
	Telecommunication	3
	and Electronic Engineering	
TS 4261	Internetworking Workshop I	3
TS 4262	Internetworking Workshop II	3

Major Elective Courses 6 credits

Students can also select major required courses of other majors as their major elective courses.

## C. Free Elective Courses 6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).



## THIRD YEAR First Semester

Course Code	Course Title	Credits
EE 3301	Electromagnetic Fields	3
EE 3601	Electronic Circuit Design	3
EE 3602	Electronic Circuit Design	
	Laboratory	1
EE 3606	Electrical Instruments and	
	Measurements	3
EE 3703	Microprocessors	3
GE 2202	Ethics	3
	One Free Elective Course	3
		-
	Total	19

## Second Semester

Course Code	Course Title	Credits
CE 4207	System and Network	
	Programming	3
EE 3406	Control Systems	3
TE 3000	Principles of Communications	3
TE 3002	Communications Laboratory	1
TE 3102	Communication Networks and	l
	Transmission Lines	3
TE 3301	Radio Wave Propagation	3
	One Free Elective Course	3
	Total	19

## FOURTH YEAR First Semester

Course Code	Course Title	Credits
CE 4224	Telecommunication Networks	
	Laboratory	1
CE 4228	Data Communication and	
	Networking	3
EE 4305	Digital Signal Processing	3
TE 4105	Microwave Engineering	3
TE 4113	Digital Communication	3
TE 4901	Telecommunication and	
	Electronic Engineering Project	1
	One Major Elective Course	3
	Total	17

## Second Semester

Course Code	Course Title	Credits
TE 4111	Antenna Engineering	3
TE 4112	Optical Communication	3
TE 4201	Communication Electronics	3
TE 4202	Communication Electronics	
	Laboratory	1
TE 4902	Telecommunication and	
	<b>Electronic Engineering Project</b>	ll 2
	One Major Elective Course	3
	Total	15



# Assumption University of Thailand | Vincent Mary School of Engineering

# BACHELOR OF ENGINEERING PROGRAM IN **AERONAUTIC ENGINEERING**

## OBJECTIVES

# To produce graduates who have the characteristics, knowledge and skills as follows:Be morally sound, committed to acting justly and open to further growth

- Have aeronautic knowledge both engineering and non-engineering
   Have aircraft maneuver skills
- Be open-minded with strong logical thinking problem-solving
  Have communication skills

Course	Multi-Crew Pilot	Commercial Pilot	<b>j</b>
General Education Courses	30	30	30
Specialized Courses			
- Basic Engineering Courses	39	39	39
- Major Required Courses	66	55	63
- Major Elective Courses	6	17	9
Free Electives Courses	6	6	6
Total Credits	147	147	147

## COURSES

A. General Education Courses Language Courses		30 Credits 12 credits	B. Specialized Courses Basic Engineering Courses		111 Credits 39 credits	
BG 1001	English I	3	BG 1204	Calculus I	3	
BG 1002	English II	3	BG 1205	Calculus II	3	
BG 2000	English III	3	BG 1211	Physics I	3	
BG 2001	English IV	3	BG 1212	Physics Laboratory I	1	
			BG 1213	Physics II	3	
Social Scien	ce Courses	9 credits	BG 1214	Physics Laboratory II	1	
			BG 2209	Statistics for Engineers	3	
GE 1301	Environmental Science	3	CE 2704	Digital Logic Design	3	
GE 2202	Ethics	3	CE 2705	Digital Logic Design Laborate	ory 1	
MGT 1101	Introduction to Business	3	EE 2201	Electric Circuits	3	
			EE 2202	Electric Circuits Laboratory	1	
Humanities Courses		3 credits	EE 2605	Engineering Electronics	3	
			EE 2606	Engineering Electronics		
GE 2101	World Civilization	3		Laboratory	1	
			ME 1113	Engineering Drawing	3	
Science and	Mathematics Courses	6 credits	ME 2210	Engineering Mechanics	3	
			MCE 2101	Fundamentals of Mechatron	ics	
BG 1220	Fundamentals of Compu	ter		Engineering	3	
	Processing	3	MCE 2102	Mechatronics Engineering		
BG 2208	Discrete Mathematics	3		Laboratory I	1	



AE 4300

Major Required Courses
Students can select Multi-crew Pilot, or
Commercial Pilot, or Aircraft Maintenance Engineer
as their major.

M	- Dilat	ta.		Performance a
Multi-crew	Pilot 66 cred	ITS	Commerci	al Pilot
AE 1100	Core Flying: Single-Engine	2	AE 1100	Cons Elvisor Ci
AF 1200	Flight - Ground	3	AE 1100	Core Flying: Si
AE 1200	Core Flying: Single-Engine	2	AE 1200	Flight - Ground
4 5 3 4 6 6	Flight - Flight	2	AE 1200	Core Flying: Si
AE 2100	Basic Flying: Single/Multi-	2	AF 2100	Flight - Flight
4 5 2200	Engine - Ground	3	AE 2100	Basic Flying: Si
AE 2200	Basic Flying: Single/Multi-	1	45 2200	Engine - Grour
4 5 2201	Engine - Flight I	1	AE 2200	Basic Flying: Si
AE 2201	Basic Flying: Single/Multi-		45 2204	Engine - Flight
4 5 2 2 0 2	Engine - Flight II	1	AE 2201	Basic Flying: Si
AE 2202	Basic Flying: Multi-Engine		45 2202	Engine - Flight
	Operations	2	AE 2202	Basic Flying: N
AE 2203	Basic Flying: Operational			Operations
	Procedures	1	AE 2203	Basic Flying: O
AE 2300	Basic Flying: Flight Communications			Procedures
AE 2401	Basic Flying: Air Law	3	AE 2300	Basic Flying: Fl
AE 3200	Intermediate Flying: Flight Simulato			Communicatio
	Training Device I	1	AE 2401	Basic Flying: A
AE 3201	Intermediate Flying: Flight Simulato		AE 3300	Intermediate F
	Training Device II	1		Manual and Pi
AE 3300	Intermediate Flying: Route		AE 3301	Intermediate F
	Manual and Pilot Applications	3		General Navig
AE 3301	Intermediate Flying:		AE 3302	Intermediate F
	General Navigation	3		Performance a
AE 3302	Intermediate Flying:		AE 3303	Intermediate F
	Flight Performance and Planning I	3		Performance a
AE 3303	Intermediate Flying: Flight		AE 3304	Intermediate F
	Performance and Planning II	3	AE 3400	Intermediate F
AE 3304	Intermediate Flying: Meteorology	3		Aerodynamics
AE 3400	Intermediate Flying:		AE 3500	Intermediate F
	Advanced Aerodynamics	3		and Aircraft Sy
AE 3500	Intermediate Flying: Airframes and		AE 3501	Intermediate F
	Aircraft Systems	3		Plants and Inst
AE 3501	Intermediate Flying: Power Plants		AE 3502	Intermediate I
	and Instrumentations	3		Radio Navigat
AE 3502	Intermediate Flying:		AE 3700	Commercial Fl
	Radio Navigation	3	AE 3701	Commercial Fl
AE 3600	Advanced Flying: Multi-Engine		AE 3702	Commercial Fl
	Turbine - Ground	3	AE 3703	Commercial Fl
AE 3601	Advanced Flying: Multi-Engine		AE 3900	Seminar in Inte
	Turbine - Flight	4		Domestic Nav
AE 3602	Advanced Flying: Specific Aircraft		AE 4300	Intermediate F
	Flight - Ground	3		Crew Resource
AE 3603	Advanced Flying:	-		and Flight Safe
	Specific Aircraft light – Flight	3	AE 4301	Intermediate F
AE 3900	Seminar in International and	5		Performance a
	Domestic Navigation	3		
	2 strestie Havigation	5		

45 4204	Flight Salety	I
AE 4301	Intermediate Flying: Human	-
	Performance and Limitations	3
Commercial	Pilot 55 credi	ts
AE 1100	Core Flying: Single-Engine	
	Flight - Ground	3
AE 1200	Core Flying: Single-Engine	
	Flight - Flight	2
AE 2100	Basic Flying: Single/Multi-	
	Engine - Ground	3
AE 2200	Basic Flying: Single/Multi-	
	Engine - Flight I	1
AE 2201	Basic Flying: Single/Multi-	
	Engine - Flight II	1
AE 2202	Basic Flying: Multi-Engine	_
150000	Operations	2
AE 2203	Basic Flying: Operational	1
45 2200	Procedures	1
AE 2300	Basic Flying: Flight Communications	1
AE 2401	Basic Flying: Air Law	3
AE 3300	Intermediate Flying: Route	5
AL 3300	Manual and Pilot Applications	3
AE 3301	Intermediate Flying:	0
	General Navigation	3
AE 3302	Intermediate Flying: Flight	
	Performance and Planning I	3
AE 3303	Intermediate Flying: Flight	
	Performance and Planning II	3
AE 3304	Intermediate Flying: Meteorology	3
AE 3400	Intermediate Flying: Advanced	
	Aerodynamics	3
AE 3500	Intermediate Flying: Airframes	_
45 3504	and Aircraft Systems	3
AE 3501	Intermediate Flying: Power	2
AE 3502	Plants and Instrumentations Intermediate Flying:	3
AE 5502	Radio Navigation	3
AE 3700	Commercial Flight I	1
AE 3701	Commercial Flight II	1
AE 3702	Commercial Flight III	1
AE 3703	Commercial Flight IV	1
AE 3900	Seminar in International and	
	Domestic Navigation	3
AE 4300	Intermediate Flying:	
	Crew Resources Management	
	and Flight Safety	1
AE 4301	Intermediate Flying: Human	
	Performance and Limitations	3

Intermediate Flying: Crew Resources Management and

1

Flight Safety



Aircraft Ma	intenance Engineer 63 cre	dits	Major Elec	tive Courses
AE 1910	Problem-based Training in		1. Studen	ts of all majors can select t
	Aircraft Maintenance I	1		s major elective courses acco
AE 1911	Problem-based Training in		number of	required credits.
	Aircraft Maintenance II	1	1 Multi-cre	ew Pilot
AE 1920	Problem-based Training in Aircraft		2 Commer	cial Pilot
	Maintenance III	1	3 Aircraft N	Aaintenance Engineer
AE 2501	Maintenance English I	1		
AE 2502	Maintenance English II	1	2. Student	s can also select major require
AE 2700	Fundamental Aircraft: Propulsion		other majo	ors as their major elective course
	Theory	2		
AE 2701	Fundamental Aircraft:		AE 1101	Theory of Single-Engine Fligh
	Aircraft Engine	3	AE 2402	English for Aviation
AE 2702	Fundamental Aircraft:		AE 3401	Avionics
	Aerodynamics	2	AE 4700	Commercial Pilot License
AE 2703	Fundamental Aircraft:			Instructor
	Aircraft Structure	3	AE 4701	Commercial Pilot License
AE 2704	Fundamental Aircraft:			Instructor: Fight I
	Aircraft Material	3	AE 4702	Commercial Pilot License
AE 2705	Fundamental Aircraft:			Instructor: Flight II
	Aircraft Performance	3	AE 4904	Special Problems in
AE 2901	Fundamental Aircraft:			Aeronautic Engineering I
	Practical Verification	1	AE 4905	Special Problems in
AE 3310	Aircraft Maintenance:			Aeronautic Engineering II
	Maintenance Human Factor	1	AE 4906	Special Problems in
AE 3311	Aircraft System:			Aeronautic Engineering III
	Technical Document System	3	AE 4930	Advanced Topics in
AE 3312	Aircraft System: Logistics	2		Aeronautic Engineering I
AE 3411	Aircraft System: Aviation Acts		AE 4931	Advanced Topics in
	and Airworthiness Regulations	3	, i = 1, j = 1	Aeronautic Engineering II
AE 3511	Aircraft System:		AE 4932	Advanced Topics in
	Aircraft Communications	1	/12 //02	Aeronautic Engineering III
AE 3512	Aircraft System: Ground Support		CE 2703	Introduction to
	Equipment	2	CL 2705	Computer Systems
AE 3513	Aircraft System: Non-Destructive		CE 4227	Mobile and Wireless Network
	Inspection	3	EE 3301	Electromagnetic Fields
AE 3710	Aircraft Maintenance:		EE 3404	Feedback Control Systems
	Aircraft Maintenance I	3	EE 3601	Electronic Circuit Design
AE 3711	Aircraft Maintenance:		EE 3602	Electronic Circuit
	Aircraft Maintenance II	3	LL 3002	Design Laboratory
AE 3712	Aircraft System: Hydraulic	-	EE 4305	Digital Signal Processing
	and Pneumatic System	3	EE 4403	Basic Mechatronics
AE 3713	Aircraft System: Landing Gear	-	EE 4503	Electrical Systems Design
	and Brake System	3	EE 4602	Industrial Instrumentation
AE 3714	Aircraft System: Fuel System	3	EE 4002	and Control
AE 3715	Aircraft System: Powerplant	3	TE 4201	Communication Electronics
AE 3716	Aircraft System: Stability and	0	TE 4201 TE 4202	Communication
/12 3/ 10	Weight & Balance System	3	1E 4202	Electronics Laboratory
AE 3800	Aircraft System: Aircraft	-		LIECTIONICS LADUIATORY
, IL 3000	Electrical System	3		
AE 3901	Aircraft Maintenance:	5		
AL 3901	Practical Verification	1		
AE 4901	Aircraft System:	I		
AL 4901	Practical Verification	1		
		1		

rs can select the following ve courses according to the 5. 6 credits 17 credits gineer 9 credits ect major required courses of r elective courses. ngle-Engine Flight 3 3 viation 3 Pilot License 3 Pilot License 2 ght l Pilot License 2 ight II lems in ngineering l 3 lems in ngineering II 2 lems in ngineering III 1 pics in 3 ngineering l pics in 2 ngineering II pics in ngineering III 1 to /stems 3 Vireless Networks 3 etic Fields 3 3 ntrol Systems rcuit Design 3 rcuit 1

3

3

3

3

3



## C. Free Elective Courses

6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

STUDY PLAN FOR COMMERCIAL PILOT OR
MULTI-CREW PILOT

FIRST YEAR First Semes		
Code	Subjects	credits
BG 1001		- 3
BG 1204	Calculus I	3
BG 1211	Physics I	3
BG 1212	Physics Laboratory I	1
BG 1220	Fundamental of Computer	
	Processing	3
ME 1113	Engineering Drawing	3
	Total	16
Second Ser	nester	_
Code	Subjects	credits

Subjects	credits
	_
English II	3
Calculus II	3
Physics II	3
Physics Laboratory II	1
Discrete Mathematics	3
Two Free Elective Course	6
Total	19
	English II Calculus II Physics II Physics Laboratory II Discrete Mathematics Two Free Elective Course Total



SECOND YEA First Semeste		
Code	Subjects	credits
BG 2000	English III	3
BG 2209	Statistics for Engineers	3
CE 2704	Digital Logic Design	3
CE 2705	Digital Logic Design Laboratory	[,] 1
EE 2201	Electric Circuits	3
EE 2202 MCE 2101	Electric Circuits Laboratory Fundamental of	1
MCE 2102	Mechatronics Engineering Machatronics Engineering	3
	Laboratory I	1
	Total	18

THIRD YEAI First Semes		
Code	Subjects	credits
GE 2101 AE 2100	World Civilization Basic Flying: Single/	3
AE 2200	Multi-Engine - Ground Core Flying: Single/	3
	Multi-Engine - Flight I	1
AE 2203	Basic Flying: Operational Proce	dures 1
AE 2300 AE 3302	Basic Flying: Flight Communica Intermediate Flying: Flight	tions 1
AE 3400	Performance and Planning I Intermediate Flying: Advanced	3
	Aerodynamics	3
AE 3500	Intermediate Flying: Airframes and Aircraft Systems	3
	Total	15

# Second Semester

Code	Subjects	credits
BG 2001	English IV	3
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
EE 2605	Engineering Electronics	3
EE 2606	Engineering Electronics	
	Laboratory	1
ME 2210	Engineering Mechanics	3
	Total	16
Summer Se	ssion of Second Year	
Cada	Cultinate	ava alita

## Code Subjects ----

Second Semester

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AE 2201	Basic Flying: Single/	
	Multi-Engine - Flight II	1
AE 2202	Basic Flying: Multi- Engine	
	Operations	2
AE 2401	Basic Flying: Air Law	3
AE 3301	Intermediate Flying:	
	General Navigation	3
AE 3303	Intermediate Flying: Flight	
	Performance and Planning II	3
AE 3304	Intermediate Flying: Meteorology	3
AE 3501	Intermediate Flying: Power Plants	
	and Instrumentations	3
	Total	18

credits

Juimier	Session of Second Teal	
Code	Subjects	credits
AE1100	Core Flying: Single-Engine Flight - Ground	3
AE1200	Core Flying: Single-Engine Flight - Flight Major Elective Course (s)	2 3
	Total	8



credits

3

3

3

## Summer Session of Third Year

Code	Subjects	credits
AE 3300	Intermediate Flying: Route Manual and Pilot Applica	tions 3
AE 4300	Intermediate Flying: Crew Resources Management and	
	Flight Safety	1
	Total	4

## FOURTH YEAR First Semester

Code	Subjects
AE3502	Radio Navigation

71L5502	nadio navigation
AE4301	Intermediate Flying: Human
	Performance and Limitations
AR3900	Seminar in International and
	Domestic Navigation
For Major in	Multi-Crew Pilot
AE 3600	Advanced Flying: Multi-Engine
	Toul to a Constant

	Turbine - Ground	3
AE 3602	Advanced Flying: Specific Aircraft	
	Flight - Ground	3
	Major Elective Course (s)	3
	Total	18
	IOLAI	18

## For Major in Commercial Pilot

AE 3700	Commercial Flight I	3
AE 3701	Commercial Flight II	3
	Major Elective Course (s)	6
	Total	21

## Second Semester credits Code Subjects GE1301 Environmental Science 3 For Major in Multi-Crew Pilot Intermidate Flying: Flight Simulator Training Device I 1 AE 3200 Intermidate Flying: Flight Simulator Training Device II 1 AE 3201 Advanced Flying: Multi-Engine AE 3601 Turbine - Flight AE 3603 Advanced Flying: Specific Aircraft Light - Flight 3

4

12

## For Major in Commercial Pilot

Total

AE 3702 AE 3703	Commercial Flight III Commercial Flight IV Major Elective Course (s)	3 3 8
	Total	17





SECOND YEAR

## STUDY PLAN FOR AIRCRAFT MAINTENANCE ENGINEER

FIRST YEAR First Semester		
Subjects	credits	
English I	- 3	
Calculus I	3	
Physics I	3	
Physics Laboratory I	1	
Fundamental of Computer		
Processing	3	
Engineering Drawing	3	
Problem-based Training in		
Aircraft Maintenance I	1	
Total	17	
	Subjects English I Calculus I Physics I Physics Laboratory I Fundamental of Computer Processing Engineering Drawing Problem-based Training in Aircraft Maintenance I	

First Semester			
	Code	Subjects	credits
	BG 2000	English III	3
	BG 2209	Statistics for Engineers	3
	CE 2704	Digital Logic Design	3
	CE 2705	Digital Logic Design Laboratory	[,] 1
	EE 2201	Electric Circuits	3
	EE 2202	Electric Circuits Laboratory	1
	AE 1920	Problem-based Training in	
		Aircraft Maintenance III	1
	AE 2701	Fundamental Aircraft:	
		Aircraft Engine	3
		Total	18

# Second Semester

Code	Subjects	credits
BG 1002	English II	3
BG 1205	Calculus II	3
BG 1213	Physics II	3
BG 1214	Physics Laboratory II	1
BG 2208	Discrete Mathematics	3
	Two Free Elective Course	6
AE 1911	Problem-based Training in Aircraft Maintenance II	1
AE 2700	Fundamental Aircraft:	
	PropulsionTheory	2
	Total	22

Code	Subjects	credits
BG 2001	English IV	3
GE 2202	Ethics	3
ME 2210	Engineering Mechanics	3
EE 2605	Engineering Electronics	3
EE 2606	Engineering Electronics	
	Laboratory	1
AE 2501	Maintenance English I	1
AE 2703	Fundamental Aircraft:	
	Aircraft Structure	3
AE 2704	Fundamental Aircraft:	
	Aircraft Material	3
	Total	20

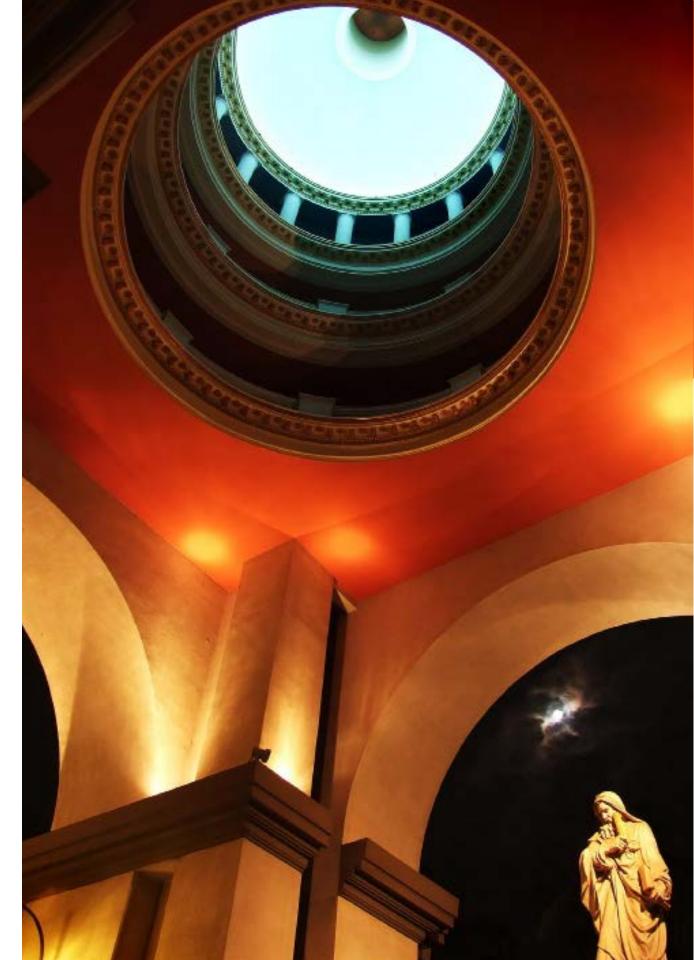


## First Semester Code Subjects credits MCE 2101 Fundamentals of Mechatronics Engineering 3 MCE 2102 Mechatronics Engineering Laboratory I 1 MGT 1101 Introduction to Business 3 AE 2502 Maintenance English II 1 AE 2702 Fundamental Aircraft: Aerodynamics 2 AE 2705 Fundamental Aircraft: Aircraft Performance 3 AE 3310 Aircraft Maintenance: Maintenance Human Factor 1 AE 3710 Aircraft Maintenance: Aircraft Maintenance I 3 Major Elective 3 20 Total Second Semester credits Code Subjects AE 2901 Fundamental Aircraft: Practical Verification 1 AE 3311 Aircraft System: Technical Document System 3 Aircraft System: Logistics AE 3312 2 AE 3411 Aircraft System: Aviation Acts and Airworthiness Regulations 3 AE 3511 Aircraft System: Aircraft Communication 1 Aircraft Maintenance: AE 3711 Aircraft Maintenance II 3 Aircraft System: Hydraulic and AE 3712 Pneumatic System 3 Aircraft System: Landing Gear AE 3713 and Brake System 3 19 Total

THIRD YEAR

FOURTH YI First Seme		_
Code	Subjects	credits
GE 2101	World Civilization	3
AE 3714	Aircraft System: Fuel System	3
AE 3715	Aircraft System: Powerplant	3
AE 3800	Aircraft System:	
	Aircraft Electrical System	3
AE 3901	Aircraft Maintenance:	
	Practical Verification	1
	Major Elective Course (s)	3
	Free Elective Course (s)	3
	Total	19
		-

Code	Subjects	credits
GE 1301	Environmental Science	3
AE 3512	Aircraft System:	
	Ground Support Equipment	2
AE 3513	Aircraft System:	
	Non-Destructive Inspection	3
AE 3716	Aircraft System: Stability and	
	Weight & Balance System	3
AE 4901	Aircraft System:	
	Practical Verification	1
	Major Elective	3
	Free Elective	3
	Total	18





## ALBERT LAURENCE SCHOOL OF **COMMUNICATION ARTS**

Curriculum Structure						
CONDESS						661
COURSES	AD	NM	PC	PR	VCD	CGI
A. General Education Courses	36	36	36	36	31	31
Language Courses	15	15	15	15	12	12
Social Science Courses	12	12	12	12	7	7
Humanities Courses	3	3	3	3	9	9
Science and Mathematics	6	6	6	6	3	3
Courses						
B. Specialized Courses	96	100	96	97	109	109
Core Courses	39	39	39	39	45	45
<ul> <li>Major Required Courses</li> </ul>	39	43	39	40	49	49
<ul> <li>Major Elective Courses</li> </ul>	18	18	18	18	15	15
or - Minor Courses*	18	18	18	18		
C. Free Electives Courses	6	6	6	6	6	6
C. FIEE Electives Courses	0	0	0	0	0	0
Total Credits	138	142	138	139	146	146



#### GRADUATION REOUIREMENTS

Assumption University confers the degree of Bachelor of Communication Arts in Advertising upon students who meet all of the following requirements:

- Have completed the total number of credits of the curriculum
- Have obtained a cumulative grade point average • of at least 2.00
- Have participated in 16 sessions of the . Professional Ethics Seminar
- Have participated in 8 sessions of the CA Semi-• nar Series (Only for AD, NM, PC and PR)
- Have obtained library and financial clearance . from the University
- Have demonstrated good behavior and disci-• pline



#### DEPARTMENT OF ADVERTISING

#### **OBJECTIVES**

To produce graduates who have the characteristics, knowledge and skills as follows:

- Have morals, ethics, public consciousness, and social responsibility in accordance with professional code of ethics.
- Have well-grounded academic knowledge, skills, and practical experiences in the field of advertising, communication arts, management and business and able to work in the field of advertising business and communication in the society.
- Have the skill to analyze situations by appropriately applying their knowledge, reasoning, and judgment when they encounter situations in different social contexts, and cultures.
- Have a good personality with good social manners and able to appropriately work with people at all levels.
- · Able to continuously develop themselves academically and professionally.
- Have knowledge and ability to use basic mathematics to interpret data and analyze information for planning, management, and development.
- Make efficient use of information technology and foreign languages, especially English and able to communicate cross-culturally.
- Have creativity and communication skills for presentation.

#### COURSES

Language C	ducation Courses ourses	36 Credits 15 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1404		
	(For International Students)	3
Social Scien	ce Courses	12 Credits
CA 1012	Macro-environment, Media Effect and Media Literacy	3
CA 2016	Psychology for Persuasive	5
C/(2010	Communication	3
CA 4010	Law and Ethical Concerns	5
	for Communication	3
GE 2202	Ethics	3

Humanities	Courses	3 Credits
GE 1102	Introduction to Philosophy	3
Science and	Mathematics Courses	6 Credits
BG 1301 GE 1301	Fundamentals of Statistics Environmental Science	3
B. Specialize Core Course		<mark>96 Credits</mark> 39 Credits

CA 1001	Introduction to Communication	3
CA 1002	Introduction to Photography	
	and Cinematography	3
CA 1006	Introduction to Journalism	
	and Mass Communication	3
CA 1017	Introduction to Creative	
	Communication Design	3
CA 2004	Introduction to Advertising	3
CA 2005	Introduction to Public Relations	3
CA 2007	Introduction to New Media	
	and Broadcasting	3
CA 2015	Introduction to Performance	
	Communication	3
CA 2018	Consumer Insight	3
MGT 1101	Introduction to Business	3
MGT 2900	Principles of Management	3
MKT 2280	Principles of Marketing	3
NM 3401	Production for	
	Communication Tools	3

Major Requi	red Courses	39 Credits
CA 2003	Presentation Technique	3
CA 2013	Utilization of Multimedia To	ols 3
CA 3011	Communication Arts Resear	ch 3
AD 3101	Principles of Marketing	
	Communication	3
AD 3102	Advertising Media Planning	3
AD 3103	Advertising Creative Strateg	у 3
AD 3112	Brand Communication	3
AD 3119	Advertising and Marketing	
	Communication Research	3
AD 4100	Seminar in Advertising	3
AD 4101	Advertising Workshop I	3
AD 4102	Advertising Workshop II	3
AD 4104	Advertising and Marketing	
	Communication Manageme	nt 3
AD 4115	Campaign Planning and	
	Management	3





18 Cre	dits		ce Communication	
credits e minor		Minor Requ  PC 3305	uired Courses Script Writing and Analysis	
	3	PC 3308 PC 4311	Performance/ Event Criticisn Production Management for Performance	n
ation	3	Minor Elect	tive Courses	9
ion ulture	3 3 3 3	from the D	an take minor elective course epartment of Performance ation upon completion of the es (if any).	<u>2</u> S
ing )	3	Public Rela Minor Requ	tions uired Courses	(
nt ication	3 3	PR 3202	Strategic Public Relations Campaign Planning and Evaluation	
	3 3	PR 3214 PR 4201	Organization Communication Corporate Communication and Stakeholder Relations	n
cation, ations		Minor Elect	tive Courses	9
completi	on		an take minor elective courses on the Department of Public Rel	

Students can choose courses to fulfill 18 credit from the following courses and/or choose mir courses of other departments. Art Direction

AD 3106	Art Direction
AD 3114	Interactive Advertising
	and Marketing Communication
AD 3113	Customer Relationship
	Management
AD 3115	International Communication
	Campaign
AD 3116	Account Planning
AD 3117	Advertising and Popular Culture
AD 3118	Selected Topics in Advertising
AD 4107	Basic Copywriting (Thai)
or AD 4108	Basic Copywriting (English)
AD 4103	Creative Media Management
AD 4111	Advanced Brand Communication
AD 4122	Direct Communication
	Campaign Management
AD 4123	Marketing Channel
	Communication

Major Elective Courses

Students can take New Media Communication Performance Communication, Public Relations courses, as major elective courses upon compl of the prerequisites (if any).

Minor Cour		18 Credits
Students ca the minor c	in choose one of the following ourses.	group as
	Communication	
Minor Requ	ired Courses	9 Credits
NM 3402	Film and Time-based Media	
	Production	3
NM 3404	Multimedia Editing	3
NM 4406	Broadcast Media	
	Production and Directing	3

Minor Elective Courses

9 Credits

Students can take minor elective courses of 9 credits from the Department of New Media Communication upon completion of the prerequisites (if any).

311	Production Management for Performance	3
or Electi	ive Courses	9 Credits
n the De Imunica	an take minor elective courses partment of Performance ation upon completion of the es (if any).	s of 9 credits
l <mark>ic Relat</mark> or Requ	ions ired Courses	9 Credits
202	Strategic Public Relations Campaign Planning and	
	Evaluation	3
214	Organization Communication	n 3

9 Credits

3

3

R 4201	Corporate Communication and Stakeholder Relations	3
Ainor Elec	tive Courses	9 Credits
tudents c	an take minor elective courses	of 9

credits from the Department of Public Relation upon completion of the prerequisites (if any).

#### C. Free Elective Courses 6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

STUDY PLA	AN	
FIRST YEAR First Semest	er	
Course Code	e Course TitleCredits	
BG 1001	English I	3
CA 1001 CA 1007	Introduction to Communication Introduction to Creative	3
	Communication	3
CA 1012	Macro-environment, Media	2
GE 1301	Effect and Media Literacy Environmental Science	3
MGT 1101		3
		5
	Total	18
Second Sem	nester	
Course Code	e Course Title Credits	
BG 1002	English II	3
BG 1301	Fundamentals of Statistics	3
CA 1002	Introduction to Photography	
	and Cinematography	3
CA 1006	Introduction to Journalism	2
GE 1102	and Mass Communication	3
GE 1102 GE 1403	Introduction to Philosophy Communication in Thai	3
or GE 1403	Thai Culture and Traditions	2
GI GE 1404	(For International Students)	3

Total

Course Code	e Course TitleCredits	
BG 2000	English III	3
CA 2003	Presentation Technique	3
CA 2004	Introduction to Advertising	3
CA 2015	Introduction to Performance	
	Communication	3
CA 2016	Psychology for Persuasive	
	Communication	3
MKT 2280	Principles of Marketing	3
	Total	18
Second Sem  Course Code		18
	ester	
Course Code BG 2001	ester • Course TitleCredits	3
Course Code BG 2001 CA 2005	ester • Course TitleCredits English IV	3
Course Code BG 2001 CA 2005	ester Course TitleCredits English IV Introduction to Public Relations	3
Course Code BG 2001 CA 2005 CA 2007	ester Course TitleCredits English IV Introduction to Public Relations Introduction to New Media	3333
Course Code BG 2001 CA 2005 CA 2007 CA 2013	ester Course TitleCredits English IV Introduction to Public Relations Introduction to New Media Broadcasting	18 3 3 3 3 3 3
Course Code	ester Course TitleCredits English IV Introduction to Public Relations Introduction to New Media Broadcasting Utilization of Multimedia Tools	33333

-212-



3

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3

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18

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3 3

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18

PHA A	R. A. P.

COURSES ----

#### DEPARTMENT OF NEW MEDIA COMMUNICATION

#### OBJECTIVES

#### To produce graduates who have the characteristics, knowledge and skills as follows:

- Have morals, ethics, public consciousness, and social responsibility in accordance with professional code of ethics.
- Have well-grounded academic knowledge, skills, . and practical experiences in the field of new media communication, communication arts, management and business and able to work in the field of new media communication and communication in the society.
- Have the skill to analyze situations by appropriately applying their knowledge, reasoning, and judgment when they encounter situations in different social contexts, and cultures.
- Have a good personality with good social . manners and able to appropriately work with people at all levels.

COURSES		
A. General I Language C	Education Courses ourses	36 Credits 15 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1404	Thai Culture and Traditions	
	(For International Students)	3
Social Scien	ce Courses	12 Credits
CA 1012	Macro-environment, Media	
	Effect and Media Literacy	3
CA 2016	Psychology for Persuasive	
	Communication	3
CA 4010	Law and Ethical Concerns	
	for Communication	3
GE 2202	Ethics	3
Humanities	Courses	3 Credits
GE 1102	Introduction to Philosophy	3
Science and	Mathematics Courses	6 Credits
GE 1301	Environmental Science	
BG 1301	Fundamentals of Statistics	3
B. Specialize	d Courses:	100 Credits
Core Course	S	39 Credits
CA 1001	Introduction to Communica	ation 3
CA 1002	Introduction to Photograph	iy
	and Cinematography	3
CA 1006	Introduction to Journalism	
	and Mass Communication	3
CA 1017	Introduction to Creative	
	Communication Design	3
CA 2004	Introduction to Advertising	3
CA 2005	Introduction to Public Relat	ions 3
CA 2007	Introduction to New Media	
C +	and Broadcasting	3
CA 2015	Introduction to Performanc	e

Communication

Consumer Insight

3

3

#### **Communication Tools**

THIRD YEAR

AD 3101

AD 3102

AD 3103

AD 3112

CA 3011

NM 3401

First Semester

## Total

#### Second Semester

#### Course Code Course TitleCredits

Course Code Course TitleCredits

Principles of Marketing

Brand Communication

Advertising Media Planning

Advertising Creative Strategy

Communication Arts Research

Communication

Production for

AD 3119	Advertising and Marketing
AD 4100	Seminar in Advertising Major Elective or Minor Course
	Major Elective or Minor Course Major Elective or Minor Course
	Free Elective Course
	Total

First Semester			
Course Code	Course Title Credits		
AD 4101 AD 4104	Advertising Workshop I Advertising and Marketing	3	
CA 4010	Communication Management Law and Ethical Concerns	3	
	for Communication	3	
	Major Elective or Minor Course	3	
	Free Elective Course	3	
	Total	15	

#### Second Semester

FOURTH YEAR

Course Code	Course TitleCredits	
AD 4102	Advertising Workshop II	3
AD 4115	Campaign Planning and	3
	Management	
MGT 2900	Principles of Management	3
	Major Elective or Minor Course	3
	Major Elective or Minor Course	3
	Total	15
	Management Principles of Management Major Elective or Minor Course Major Elective or Minor Course	3

CA 2018



Advertising

AD 3102

AD 3103

AD 3112

PC 3305

PC 3308

PC 4311

sites (if any).

PR 3202

PR 3214

PR 4201

**Public Relations** 

Minor Required Courses

**Minor Elective Courses** 

C. Free Elective Courses

Minor Required Courses

Minor Elective Courses

Advertising Media Planning

Brand Communication

9 credits from the Department of Advertising upon

Script Writing and Analysis

Production Management

for Performance

from the Department of Performance

Evaluation

Performance/ Event Criticism

Students can take minor elective courses of 9 credits

Communication upon completion of the prerequi-

Strategic Public Relations

Campaign Planning and

Organization Communication

Corporate Communication

and Stakeholder Relations

Students can take minor elective courses of 9 credits from the Department of Public Relation upon

Students can take free elective courses of 6 credits

from any faculty in Assumption University upon completion of the prerequisites (if any).

completion of the prerequisites (if any).

Students can take minor elective courses of

completion of the prerequisites (if any).

Performance Communication

Minor Required Courses

**Minor Elective Courses** 

Advertising Creative Strategy

9 Credits

9 Credits

9 Credits

9 Credits

9 Credits

9 Credits

6 Credits

3

3

3

3

3

3

3

3

3



#### STUDY PLAN

CA 1002

CA 1006

GE 1102

GE 1403

First Semeste	r	
	Course Title	Credits
BG 1001	English I	3
CA 1001 CA 1017		n 3
CA 1012	Communication Design Macro-environment, Media	3
	Effect and Media Literacy	3
GE 1301	Environmental Science	3
MGT 1101	Introduction to Business	3
	Total	18
Second Seme	ster	
	Course Title	Credits
BG 1002		3

Introduction to Photography

Introduction to Journalism

and Mass Communication

Introduction to Philosophy

(For International Students)

Communication in Thai

or GE 1404 Thai Culture and Traditions

Total

and Cinematography

SECOND YEA First Semeste		
Course Code	Course Title	Credits
BG 2000	English III	3
CA 2003	Presentation Technique	3
CA 2007	Introduction to New Media	
	and Broadcasting	3
CA 2015	Introduction to Performance	
	Communication	3
CA 2016	Psychology for Persuasive	
	Communication	3
MKT 2280	Principles of Marketing	3
	Total	18

#### Second Semester

3

3

3

3

3

18

Course Code	Course Title	Credits
BG 2001	English IV	3
CA 2004	Introduction to Advertising	3
CA 2005	Introduction to Public	
	Relations	3
CA 2013	Utilization of Multimedia Tools	3
GE 2202	Ethics	3
NM 3401	Production for	
	Communication Tool	3
	Total	18

MGT 1101 MGT 2900 MKT 2280 NM 3401	Introduction to Business Principles of Management Principles of Marketing Production for Communication Tools	3 3 3
Major Requi	red Courses	43 Credits
AD 3101	Principles of Marketing	
	Communication	3
CA 2003	Presentation Technique	3
CA 2013	Utilization of Multimedia To	
CA 3011	Communication Arts Resear	ch 3
NM 3402	Film and Time-based	
	Media Production	3
NM 3404	Multimedia Editing	3
NM 3410	New Media Application	3
NM 3412	Creativity and Innovation	3
NM 3420	Audience Context Analysis	3
NM 4405	Broadcast and New Media	
	Management	3
NM 4406	Broadcast Media Production	n
	and Directing	3
NM 4407	Seminar in Broadcast and	
	New Media	3
NM 4408	Studio Workshop	6
NM 4420	Studio Internship (200 Hour	s) 1
Major Electi	ve Courses	18 Credits
NM 3411	Advanced Photography	
	and Digital Imaging	3
NM 3414	New Media Journalism	3
NM 3417	Computer Graphics for	
-		

NM 3411	Advanced Photography	
	and Digital Imaging	3
NM 3414	New Media Journalism	3
NM 3417	Computer Graphics for	
	Communication Design	3
NM 3418	Interactive Media Art	3
NM 3419	Selected Topics in New Media	3
NM 4413	Advanced Multimedia Editing	3
NM 4414	Sound for Video Production	3
NM 4417	Media Content Analysis	3
NM 4418	Integrated New Media	
	Environments	3
NM 4419	Utilization of New Media	
	Programming	3

Students can take Advertising, Performance Communication, and Public Relations courses as major elective courses upon completion of the prerequisites (if any).

Minor Courses 18
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Students can choose one of the following groups as the minor courses.

-217-





### THIRD YEAR

First Semest	er	
Course Code	Course Title	Credits
AD 3101	Principles of Marketing	
	Communication	3
CA 2018	Consumer Insight	3
CA 3011	Communication Arts Research	3
NM 3402	Film and Time-based Media	3
NM 3410	New Media Application	3
	Major Elective or Minor Course	e 3
	Total	18

#### Second Semester

Summer Session

Course Code

NM 4420

Course Code	Course Title	Credits
NM 3404 NM 3412	Multimedia Editing Creativity and Innovation	3 3
NM 3420	Audience Context Analysis	3
	Major Elective or Minor Course	3
	Major Elective or Minor Course	3
	Free Elective Course	3
	Total	18

**Course Title** 

Total (200 Hours)

Studio Internship (200 Hours)

#### FOURTH YEAR First Semester Course Code Course Title Credits CA 4010 Law and Ethical Concerns for Communication 3 Principles of Management MGT 2900 3 NM 4405 Broadcast and New Media Management 3 NM 4406 Broadcast Media Production and Directing 3 Major Elective or Minor Course 3 Free Elective Course 3 Total 18

Course Code	Course Title	Credits
NM 4407	Seminar in Broadcast and	
	New Media	3
NM 4408	Studio Workshop	6
	Major Elective or Minor Course	3
	Major Elective or Minor Course	3
	Total	15

#### DEPARTMENT OF PERFORMANCE COMMUNICATION

#### OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Have morals, ethics, public consciousness, and social responsibility in accordance with professional code of ethics.
- Know and understand the principles and practices in organizing including creating and designing a performance both behind the scene and on stage.
- Logically and systematically apply performance principles and practices when organizing and managing a performance.
- Effectively and efficiently use a performance, a show and an event as a communication tool.
- Able to work with others harmoniously and responsibly.
- Able to use information and communication technology in creating a performance.
- Able to use English in communicating verbal cues and communicating to a diverse audience

#### COURSES

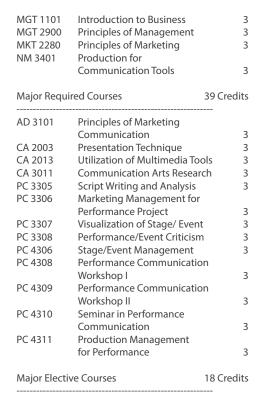
A. General E Language Co	ducation Courses ourses	36 Cre 15 Cre	
BG 1001	English I		3
BG 1002	English II		3
BG 2000	English III		3
BG 2001	English IV		3
GE 1403	Communication in Thai		3
or GE 1404			_
	(For International Students)		3
Social Sciend	ce Courses	12 Cre	dits
CA 1012	Macro-environment, Media		
	Effect and Media Literacy		3
CA 2016	Psychology for Persuasive		
<b>CA</b> 1010	Communication		3
CA 4010	Law and Ethical Concerns		2
GE 2202	for Communication Ethics		3
GE 2202	Ethics		3
Humanities	Courses	3 Cre	dits
GE 1102	Introduction to Philosophy		3
Science and	Mathematics Courses	6 Cre	dits
BG 1301	Fundamentals of Statistics		3
GE 1301	Environmental Science		3
B. Specialize	d Courses:	96 Cre	dits
B. Specialize Core Course		<mark>96 Cre</mark> 39 Cre	
		39 Cre	
Core Course	S	39 Cre  ition	dits
Core Course  CA 1001	s Introduction to Communica	39 Cre  ition	dits
Core Course  CA 1001	s Introduction to Communica Introduction to Photograph and Cinematography Introduction to Journalism	39 Cre  ition	dits 3
Core Course CA 1001 CA 1002	s Introduction to Communica Introduction to Photograph and Cinematography	39 Cre  ition	dits 3
Core Course CA 1001 CA 1002	Introduction to Communica Introduction to Photograph and Cinematography Introduction to Journalism and Mass Communication Introduction to Creative	39 Cre  ition	dits 3 3
Core Course CA 1001 CA 1002 CA 1006 CA 1017	Introduction to Communica Introduction to Photograph and Cinematography Introduction to Journalism and Mass Communication Introduction to Creative Communication Design	39 Cre  ition	dits 3 3 3 3
Core Course  CA 1001 CA 1002 CA 1006	Introduction to Communica Introduction to Photograph and Cinematography Introduction to Journalism and Mass Communication Introduction to Creative	39 Cre  tion y	dits 3 3 3

	and Mass Communication	С
CA 1017	Introduction to Creative	
	Communication Design	3
CA 2004	Introduction to Advertising	3
CA 2005	Introduction to Public Relations	3
CA 2007	Introduction to New	
	Media and Broadcasting	3
CA 2015	Introduction to Performance	
	Communication	3
CA 2018	Consumer Insight	3

Credits

1





Students can choose courses to fulfill 18 credits from the following courses and/or choose minor courses of other departments.

PC 3301 PC 3302 PC 3316	Art and Literature Appreciation Principles of Performance Design Event Strategic Planning	3 3 3
PC 3320	Script Writing and Adaptation in Thai	3
or PC 3321	Script Writing and Adaptation in English	3
PC 3322	Acting for Personality/Social	5
	Interaction	3
PC 3323	Fundamental of Acting	3
PC 3324	Sound for Performance/Event	3
PC 3326	Production and Event Technology	3
PC 4303	Cross-Cultural Performance	
	Communication	3
PC 4315	Fundamentals of Lighting	3
PC 4316	Directing	3
PC 4319	Cultural Event and Festival	
	Management	3

PC 4325 Costume and Make-up Selection 3 PC 4326 Scenery and Prop Creation PC 4327 Selected Topics in Performance Communication PC 4328 Performance Communication on Popular Culture

3

3

3

Students can take Advertising, New Media Communication, Public Relations, courses as major elective courses upon completion of the prerequisites (if any).

Minor Courses	18 Credits
Students can choose one of the follow minor courses.	ling groups as the

#### New Media Communication

Minor Required Courses		9 Credits	
NM 3402	Film and Time-based		
	Media Production	3	
NM 3404	Multimedia Editing	3	
NM 4406	Broadcast Media Production		
	and Directing	3	
Minor Electiv	e Courses	9 Credits	

Students can take minor elective courses of 9 credits from the Department of New Media Communication upon completion of the prerequisites (if any).

#### **Public Relations**

Minor Required Courses		9 Credi	ts
PR 3202	Strategic Public Relations Campaign Planning		
	and Evaluation		3
PR 3214	Organizational Communicati	on	3
PR 4201	Corporate Communication		
	and Stakeholder Relations		3
Minor Elective Courses 9 Credits			ts
Students can take minor elective courses of 9			

credits from the Department of Public Relation upon completion of the prerequisites (if any).



Advertising Minor Requir	9 Credits		
AD 3102 AD 3103 AD 3112	Advertising Media Planning Advertising Creative Strategy Brand Communication	3 3 3	
Minor Elective Courses 9 Credits			
Students can take minor elective courses of 9 credits from the Department of Advertising upon completion of the prerequisites (if any).			
C. Free Elective Courses 6 Credits			
Students can take free elective courses of 6 credits			

ts from any faculty in Assumption University upon completion of the prerequisites (if any).



#### STUDY PLAN

FIRST YEAR First Semeste	r	
Course Code	Course Title	Credits
BG 1001	English I	3
CA 1001	Introduction to Communicatio	n 3
CA 1012	Macro-environment, Media	
	Effect and Media Literacy	3
CA 1017	Introduction to Creative	
	Communication Design	3
GE 1301	Environmental Science	3
MGT 1101	Introduction to Business	3
	Total	18

#### Second Semester

Course Code	Course Title	Credits
BG 1002	English II	3
BG 1301	Fundamentals of Statistics	3
CA 1002	Introduction to Photography	
	and Cinematography	3
CA 1006	Introduction to Journalism	
	and Mass Communication	3
GE 1102	Introduction to Philosophy	3
GE 1403	Communication in Thai	3
or GE 1404	Thai Culture and Traditions	
	(For International Students)	3
	Total	18



#### SECOND YEAR First Semester

Course Code	Course Title	Credits
BG 2000	English III	3
CA 2003	Presentation Technique	3
CA 2005	Introduction to Public Relation	ns 3
CA 2015	Introduction to Performance	
	Communication	3
CA2016	Psychology for Persuasive	
	Communication	3
MKT 2280	Principles of Marketing	3
	Total	18

#### Second Semester

Course Code	Course Title	Credits
BG 2001	English IV	3
CA 2004	Introduction to Advertising	3
CA 2007	Introduction to New	
	Media and Broadcasting	3
CA 2013	Utilization of Multimedia Tools	3
CA 3018	Consumer Insight	3
GE 2202	Ethics	3
	Total	18

Course Code	Course Title	Credits
AD 3101	Principles of Marketing	
	Communication	3
CA 3011 NM 3401	Communication Arts Research Production for	-
	Communication Tools	3
PC 3305	Script Writing and Analysis	3
PC 3308	Performance/ Event Criticism	3
	Major Elective or Minor Course	2 3
	Total	18
Second Seme		18
Second Seme  Course Code		18 Credits
	course Title	Credits
Course Code PC 3306	Course Title Marketing Management for Performance Project	Credits
Course Code	Course Title Marketing Management for Performance Project Visualization of Stage/ Event	Credit
Course Code 	Course Title Marketing Management for Performance Project	Credits

Total

15







## FOURTH YEAR

Course Code	Course Title	Credits
CA 4010	Law and Ethical Concern	
	for Communication	3
MGT 2900	Principles of Management	3
PC 4308	Performance Communication	
	Workshop I	3
PC4311	Production Management	
	for Performance	3
	Major Elective or Minor Course	
	Free Elective Course	3
	Total	18
Second Seme	ster	
Course Code	Course Title	Credits
Course Code  PC 4309	Course Title Performance Communication	Credits
		Credits 3
	Performance Communication	
PC 4309	Performance Communication Workshop II	
PC 4309	Performance Communication Workshop II Seminar in Performance Communication Major Elective or Minor Course	3
PC 4309	Performance Communication Workshop II Seminar in Performance Communication Major Elective or Minor Course Major Elective or Minor Course	3 3 3 3 3
PC 4309	Performance Communication Workshop II Seminar in Performance Communication Major Elective or Minor Course	3

LOVE SEEN in บ้านทรายทอง แล้วความรักจะทำให้คุณมองเห็บ
มาทำอะไรสนุกๆกับพจมานกัน
<ul> <li>บาเล่น Loveseen กินเกอะ อาคาจนี้เทศศาสตร์ 17-18 มีนาคม 2557 สาคาจบริหารธุรกิจ 19-28 มีนาคม 2557 สุนย์การคำเอนูนอลล์ ณ เมลาลี - พอบานแจกฟรี !! ณ สนามปุตบอล 18 มีนาคม 2557 เมลา 17.80 น</li> <li>พจบานช่วนชัก(ภาพ) ร่วมแช่งกาพ และ hashtag สอยรอยproduction ภาพโครโตเนื่อของเวม จะรับรางวัลค์ รมการแขต (รวมมูลค่าวราหนังเสนา พร</li></ul>
- พจมานช่วนเข้าบ้าน มบกับพรมานที่บำแสว่างวงค์ได้ที่สะดิให ณ วันที่ 1-3 เมษายน 2557 แล้วแบกับนะคะ
enalutriseu



#### DEPARTMENT OF PUBLIC RELATIONS

#### OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Have morals, ethics, public consciousness, and social responsibility in accordance with professional code of ethics.
- Have well-grounded academic knowledge, skills, and practical experiences in the field of public relations, communication arts, management and business and able to work in the field of public relations and communication in the society.
- · Have the skill to analyze situations by appropriately applying their knowledge, reasoning, and judgment when they encounter situations in different social contexts, and cultures.
- · Have a good personality with good social manners and able to appropriately work with people at all levels.
- · Able to continuously develop themselves academically and professionally.
- · Have knowledge and ability to use basic mathematics to interpret data and analyze information for planning, management, and development.
- Make efficient use of information technology and foreign languages, especially English and able to communicate cross-culturally.
- Have creativity and communication skills for pre-• sentation.

#### COURSES

A. General Ed Language Co		36 Credits 15 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1404	Thai Culture and Traditions	
	(For International Students)	3
Social Science	e Courses	12 Credits
CA 1012	Macro-environment, Media	
	Effect and Media Literacy	3
CA 2016	Psychology for Persuasive	
	Communication	3
CA 4010	Law and Ethical Concerns	
	for Communication	3
GE 2202	Ethics	3
Humanities C	ourses	3 Credits
GE 1102	Introduction to Philosophy	3
Science and N	Nathematics Courses	6 Credits
BG 1301	Fundamentals of Statistics	3
GE 1301	Environmental Science	3
B. Specialized	Courses:	97 Credits
Core Courses		39 Credits
CA 1001	Introduction to Communica	
CA 1002	Introduction to Photograph	
CA 400C	and Cinematography	3
CA 1006	Introduction to Journalism	_
	and Mass Communication	3
CA 1017	Introduction to Creative	
	Communication Design	3
CA 2004	Introduction to Advertising	3
CA 2005	Introduction to Public	
	Relations	3
CA 2007	Introduction to New Media	
	and Broadcasting	3
CA 2015	Introduction to Performance	e
	Communication	3
	communeation	-

Consumer Insight

3



MGT 1101 MGT 2900 MKT 2280	Introduction to Business Principles of Management Principles of Marketing Production for	3 3 3	Communica courses as n	n take Advertising, New Media ition, Performance Communic najor elective courses upon co quisites (if any).	ation
NM 3401	Communication Tools	3	Minor Cours		18 Credits
Major Requi	ired Courses 40 Cre	edits		n chaosa ana af tha fallowing	
AD 3101	Principles of Marketing Communication	3	minor cours	n choose one of the following ses.	groups as the
CA 2003	Presentation Technique	3	Advertising		
CA 2003	Utilization of Multimedia Tools	3		ired Courses	9 Credits
CA 3011	Communication Arts Research	3			
PR 3202	Strategic Public Relations	0	AD 3102	Advertising Media Planning	3
	Campaign Planning and Evaluation	3	AD 3103	Advertising Creative Strated	ду З
PR 3204	Marketing Public Relations	3	AD 3112	Brand Communication	3
PR 3214	Organizational Communication	3			
PR 3215	Writing for Public		Minor Electi	ive Courses	9 Credits
	Relations in English	3			
PR 3227	Media Relations and Planning	3	Students ca	n take minor elective courses o	of 9 credits
PR 4201	Corporate Communication		from the De	partment of Advertising upon	completion
	and Stakeholder Relations	3	of the prere	quisites (if any).	
PR 4207	Public Relations Workshop I	3			
PR 4208	Public Relations Workshop II	3		Communication	
PR 4209	Seminar in Public Relations	3	Minor Requ	ired Courses	9 Credits
PR 4212	Public Relations				
	Internship (200 Hours)	1	NM 3402	Film and Time-based	_
				Media Production	3
Major Electi	ve Courses 18 Cre	edits	NM 3404	Multimedia Editing	3
			NM 4406	Broadcast Media	2
PR 3210	Negotiations	3		Production and Directing	3
PR 3216	Writing for Public Relations		Minor Electi		9 Credits
00 2247	in Thai	3		ve courses	9 CIEUIts
PR 3217	Desktop Publishing/	2	Students ca	n take minor elective courses o	of
00 2210	Presentation Graphics	3		m the Department of New Me	
PR 3218	Special Events Management for Public Relations	2		upon completion of the prere	
PR 3224	Applied Research for	3	(if any).	upon completion of the prefe	quisites
FN 3224	Public Relations	3	(,),.		
PR 3225	Personality Development	5	Performanc	e Communication	
11(5225	and Personal Branding	3	Minor Regu	ired Courses	9 Credits
PR 3228	Intercultural Communication	3			
PR 3229	Folk and Traditional Media	5	PC 3305	Script Writing and Analysis	3
1113222	Communication	3	PC 3308	Performance/Event Criticisr	n 3
PR 3230	Digital Public Relations	3	PC 4311	Production Management	
PR 4219	Community Relations	3		for Performance	3
PR 4220	Financial and Investor	-			
	Relations	3			
PR 4221	Public Relations for Issue	-			
	and Crisis Management	3			
PR 4222	News Writing and Reporting	3			
PR 4223	Magazine/Feature Writing	3			
PR 4226	Selected Topics in Public				
	Relations	3			

CA 2018



6 Credits



#### **Minor Elective Courses**

9 Credits STUDY PLAN

Students can take minor elective courses of 9 credits from the Department of Performance Communication upon completion of the prerequisites (if any).

#### C. Free Elective Courses

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

Course Code	Course Title	Credits
BG 1001	English I	3
CA 1001	Introduction to Communication	n 3
CA 1012	Macro-environment, Media	
	Effect and Media Literacy	3
CA 1017	Introduction to Creative	
	Communication Design	3
GE 1301	Environmental Science	3
MGT 1101	Introduction to Business	3

#### Second Semester

Course Code	Course Title	Credits
BG 1002	English II	3
BG 1301	Fundamentals of Statistics	3
CA 1002	Introduction to Photography a	nd
	Cinematography	3
CA 1006	Introduction to Journalism	
	and Mass Communication	3
GE 1102	Introduction to Philosophy	3
GE 1403	Communication in Thai	3
or GE 1404	Thai Culture and Traditions	
	(For International Students)	3
	Total	18

Course Code	Course Title	Credits
BG 2000	English III	3
CA 2003	Presentation Technique	3
CA 2005	Introduction to Public Relation	s 3
CA 2015	Introduction to Performance	
	Communication	3
CA 2016	Psychology for Persuasive	
	Communication	3
MKT 2280	Principles of Marketing	3
	Total	18

Course Title

Introduction to Advertising

Utilization of Multimedia Tools

Introduction to New Media and Broadcasting

Consumer Insight

English IV

Ethics

Total

Second Semester

Course Code

BG 2001

CA 2004

CA 2007

CA 2013

CA 2018

GE 2202

First Semester	
Course Code	Course Title

THIRD YEAR

Course Code	Course Title	Credits
AD 3101	Principles of Marketing	
	Communication	3
CA 3011	Communication Arts Research	3
NM 3401	Production for	
	Communication Tools	3
PR 3202	Strategic Public Relations	
	Campaign Planning and	
	Evaluation	3
PR 3214	Organizational Communicatio	n 3
PR 3215	Writing for Public Relations	
	in English	3
	Total	18

#### Second Semester

Credits

3

3

3

3

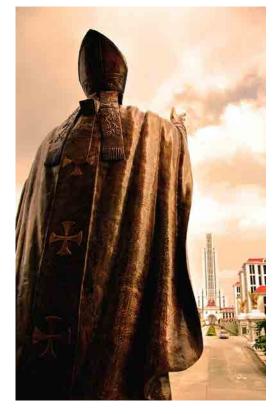
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3 18

Course Code	Course Title	Credits
MGT 2900 PR 3204	Principles of Management Marketing Public Relations	3
PR 3204 PR 3227	Media Relations and Planning	3
	Major Elective or Minor Course Major Elective or Minor Course	
	Free Elective Course	3
	Total	18

#### Summer Session

Course Code	Course Title	Credits
PR 4212	Public Relations Internship (200 Hours)	1
	Total	1





#### FOURTH YEAR First Somostor

First Semeste	r	
Course Code	Course Title	Credits
CA 4010	Law and Ethical Concerns	
	for Communication	3
PR 4201	Corporate Communication	
	and Stakeholder Relations	3
PR 4207	Public Relations Workshop I	3
	Major Elective or Minor Course	e 3
	Major Elective or Minor Course	e 3
	Total	15
		15

Course Code	Course Title	Credits
PR 4208	Public Relations Workshop II	3
PR 4209	Seminar in Public Relations	3
	Major Elective or Minor Course	3
	Major Elective or Minor Course	3
	Free Elective Course	3
	Total	15





#### DEPARTMENT OF VISUAL COMMUNICATION DESIGN

#### OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Exercise professional ethics and recognize the impact of creative works on the society.
- Capable of applying theoretical knowledge and • technical skill in visual communication art to pro-
- fession. • Capable of using critical, logical and analytical thinking skills to solve problems in their profes-
- sion and life. • Capable of using English communication skills in conveying message and presenting professional
- works. Capable of using information technology in the •
- practice of their profession. Capable of using artistic skills and production .
- tool manipulating skills in visual communication design professional works.

#### COURSES

	A. General Education Courses	
Language C	Language Courses	
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
6 · 16 ·	c	
Social Scien	ce Courses	7 Credits
GE 1204	Physical Education	1
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
Humanities	Courses	9 Credits

ART 4018 Art Appreciation GE 2101 World Civilization MGT 2404 Managerial Psychology Science and Mathematics Courses 3 Credits BG 1200 Mathematics for Business

B. Specialized Core Courses	Courses:		Credits
			cicuits
ART 1001	Drawing		3
ART 1002	2 Dimensional Foundation		3
ART 1003	Color Theory		3
ART 1004	Technical Drawing		3
ART 1005	Painting		3
ART 1006	3 Dimensional Foundation		3
ART 1208	Computer Graphic Founda	tion	ı 3
ART 2009	History of Art		3
ART 2010	Typography		3
ART 2112	Illustration		3
ART 2311	Photography		3
ART 3014	Thai Art		3
ART 4019	Aesthetics		3
ART 4020	Law and Ethics for Arts		
	and Design		3
MKT 2280	Principles of Marketing		3
Major Require	ed Courses	49	Credits

ART 2313	Digital Imaging	3
ART 3016	History of Modern Design	3
ART 3017	Internship (160 hours)	1
ART 3215	Interactive and Time Base Media	3
VIS 1101	Visual Communication Design I	3
VIS 2102	Visual Communication Design II	3
VIS 2103	Print Production	3
VIS 2104	Advanced Typography	3
VIS 2105	Visual Communication Design III	3
VIS 3106	Sketch Design	3
VIS 3107	Visual Communication Design IV	3
VIS 3110	Visual Communication Design V	3
VIS 4115	Design Management	3
VIS 4116	Art Thesis I	3
VIS 4121	Self Promotion	3
VIS 4122	Art Thesis II	6

15 Credits

Choose one group of Elective Courses.

#### Graphic Design

Major Elective Courses

VIS 3108	Publication Design	3
VIS 3111	Package Design	3
VIS 3112	Typeface Design	3
VIS 4117	Signage System and Way	
	finding Design	3
VIS 4118	Display and Exhibition Design	3

3

3

3



#### Advertising Design

VIS 3409	Idea-Generation Techniques	5 3
VIS 3413	Advertising Graphics	3
VIS 3414	Copywriting	3
VIS 4419	Production Design	3
VIS 4420	Advertising Campaign Design	gn 3
C. Eren Elect	tive Courses	6 Cradita
C. Free Elect	tive Courses	6 Credits
C. Free Elect	t <mark>ive Courses</mark>  Individual Project	6 Credits
VIS 4123	Individual Project	3

Students can also take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).





#### STUDY PLAN

FIRST YEAR First Semeste			SECOND YEA First Semeste		
Course Code		Credits		Course Title	Credits
ART 1001	Drawing	3	ART 2009	History of Art	- 3
ART 1002	2 Dimensional Foundation	3	ART 2010	Typography	3
ART 1003	Color Theory	3	ART 2311	Photography	3
ART 1004	Technical Drawing	3	BG 2000	English III	3
BG 1001	5	3	MKT 2280		3
MGT 1101	Introduction to Business	3	VIS 2102	Visual Communication Design	nll 3
	Total	18		Total	. 18
Second Seme		18	Second Seme		-
Second Seme	ester	18 Credits			
Course Code	ester Course Title			ester Course Title	
Course Code ART 1005	course Title	Credits	Course Code	ester Course Title Illustration	Credits
Course Code ART 1005	Course Title	Credits 3 3	Course Code ART 2112	Course Title Illustration Digital Imaging	Credits 3
Course Code ART 1005 ART 1006 ART 1208 BG 1002	Course Title Painting 3 Dimensional Foundation Computer Graphic Foundatior English II	Credits 3 3 3 3 3	Course Code ART 2112 ART 2313	Course Title Illustration Digital Imaging English IV Physical Education	Credits 3 3
Course Code ART 1005 ART 1006 ART 1208 BG 1002	Course Title Painting 3 Dimensional Foundation Computer Graphic Foundatior English II Mathematics for Business	Credits 3 3 3 3 3 3 3	 Course Code  ART 2112 ART 2313 BG 2001 GE 1204 VIS 2103	Course Title Course Title Illustration Digital Imaging English IV Physical Education Print Production	Credits 3 3
Course Code ART 1005 ART 1006 ART 1208 BG 1002 BG 1200	Course Title Painting 3 Dimensional Foundation Computer Graphic Foundatior English II Mathematics for Business	Credits 3 3 3 3 3 3 3	 Course Code  ART 2112 ART 2313 BG 2001 GE 1204 VIS 2103 VIS 2104	Course Title Course Title Illustration Digital Imaging English IV Physical Education Print Production Advanced Typography	Credits 3 3 3 1 3 3 3
Course Code ART 1005 ART 1006 ART 1208 BG 1002 BG 1200	Course Title Painting 3 Dimensional Foundation Computer Graphic Foundatior English II Mathematics for Business	Credits 3 3 3 3 3 3 3	 Course Code  ART 2112 ART 2313 BG 2001 GE 1204 VIS 2103	Course Title Course Title Illustration Digital Imaging English IV Physical Education Print Production Advanced Typography	Credits 3 3 3 1 3 3 3 3



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COURSES

#### DEPARTMENT OF COMPUTER **GENERATED IMAGERY**

#### OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Exercise professional ethics and recognize the impact of creative works on the society.
- Capable of applying theoretical knowledge • and technical skills in computer generated imagery to profession.
- Capable of using skills in critical, logical • and analytical thinking to solve problems in their profession and life.
- Able to work with others in their field. •
- Capable of using information technology in • the practice of their profession.
- Capable of using communication skills in Thai and English on conveying message visualizing ideas and presenting professional works.
- Capable in creating animation, visual effect . and film to support and work in local and global industry

COURSES		
A. General E Language Co	ducation Courses	31 Credits 12 Credits
BG 1001 BG 1002 BG 2000 BG 2001	English I English II English III English IV	3 3 3 3
Social Science	ce Courses	7 Credits
GE 1204 GE 2202 MGT 1101 Humanities (	Physical Education Ethics Introduction to Business	1 3 3 9 Credits
		9 Creaits
ART 4018 GE 2101 MGT 2404	Art Appreciation World Civilization Managerial Psychology	3 3 3
Science and	Mathematics Courses	3 Credits
BG1200	Mathematics for Business	3
B. Specialize Core Course		109 Credits 45 Credits
ART 1001 ART 1002 ART 1003 ART 1003 ART 1004 ART 1005 ART 1007 ART 1208 ART 2009 ART 2010 ART 2010 ART 2010 ART 2112 ART 3014 ART 4019 ART 4020	Drawing 2 Dimensional Foundation Color Theory Technical Drawing Painting Figure Drawing Computer Graphics Found History of Art Typography Photography Photography Illustration Thai Art Aesthetics Law and Ethics for Art and Design	ation 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MKT 2280	Principles of Marketing	3

#### THIRD YEAR Eirct Comoctor

	Course Title	Credits
ART 3014		. 3
ART 3215	Interactive and Time	
	Base Media	3
GE 2101	World Civilization	3
VIS 3106	Sketch Design	3
VIS 3107	Visual Communication	
	Design IV	3
Major Elective	Course : Graphic Design	
VIS 3108	Publication Design	3
· · · · · · · · · · · · · · · · · · ·	Course : Advertising Design	
VIS 3409	Idea-Generation	2
	Techniques	. 3
	Total	18

#### Second Semester

Course Code	e Course Title	Credits
ART 3016	History of Modern Design	3
VIS 3110	Visual Communication	
	Design V	3
GE 2202	Ethics	3
MGT 2404	Managerial Psychology	3
Major Electiv	ve Courses : Graphic Design	
VIS 3111	Package Design	3
VIS 3112	Typeface Design	3
	or	
Major Electiv	ve Courses : Advertising Design	
VIS 3413	Advertising Graphics	3
VIS 3414	Copywriting	3

## Summer Session

Course Code	Course Title	Credits
ART 3017	Internship (160 hours)	1
	Total (160 Hours)	1

Total

#### Major Elective Courses : Advertising Design VIS 4419 Production Design VIS 4420 Advertising Campaign Design Total

FOURTH YEAR

First Semester

Course Code

ART 4018

VIS 4115

VIS 4116

VIS 4117

VIS 4118

#### Second Semester

Course Code	Course Title	Credits
ART 4019 ART 4020	Aesthetics Law and Ethics for Arts	3
	and Design	3
VIS 4121	Self Promotion	3
VIS 4122	Art Thesis II	6
	Free Elective Course	3
	Total	18

Course Title

Art Appreciation

Art Thesis I

Major Elective Courses : Graphic Design

Design

finding Design

Design Management

Free Elective Course

Signage System and Way

or

**Display and Exhibition** 

Credits

3

3

3

3

3

3

3

3

18

18





#### STUDY PLAN

FIRST YEAR First Semeste	r	
Course Code	Course Title	Credits
ART 1001	Drawing	3
ART 1002	2 Dimensional Foundation	3
ART 1003	Color Theory	3
ART 1004	Technical Drawing	3
ART 2009	History of Art	3
BG 1001	English I	3
MGT 1101	Introduction to Business	3
	Total	21

Second Semester
-----------------

Course Code	Course Title	Credits
ART 1005 ART 1007	Painting Figure Drawing	3
ART 1208	Computer Graphics Foundation	3
BG 1002 BG 1200	English II Mathematics for Business	3
CGI 1200	Computer Graphics Design Studio I	2
		. 10
	Total	18

SECOND YEA First Semeste		
Course Code	Course Title	Credits
ART 2010	Typography	. 3
ART 2112	Illustration	3
ART 2311	Photography	3
BG 2000	English III	3
CGI 2202	Introduction to Motion	
	Picture and Animation	3
CGI 2203	Computer Graphics	
	Design Studio II	3
MKT 2280	Principles of Marketing	3
	Total	21

#### Second Semester

Course Code	Course Title	Credits
BG 2001	English IV	3
CGI 2204	Introduction to 3D Modeling	3
CGI 2205	Motion Graphics Design	3
CGI 2206	Sound Design	3
CGI 2207	Animation Concept and	
	Story Telling	3
CGI 2208	Computer Graphics Design	
	Studio III	3
GE 1204	Physical Education	1
	Total	19

Major Requi	ired Courses 49	Credits
ART 3017	Internship (160 hours)	1
CGI 1201	Computer Graphics	
	Design Studio I	3
CGI 2202	Introduction to Motion	
	Picture and Animation	3
CGI 2203	Computer Graphics	
	Design Studio II	3
CGI 2204	Introduction to 3D Modeling	3
CGI 2205	Motion Graphics Design	3
CGI 2206	Sound Design	3
CGI 3207	Animation Concept and	
	Story Telling	3
CGI 3208	Computer Graphics	
	Design Studio III	3
CGI 3209	3D Animation	3
CGI 3210	Computer Graphics	
	Design Studio IV	3
CGI 3211	Cinematic Lighting & Renderin	g 3
CGI 3212	Computer Graphics	
	Design Studio V	3
CGI 4223	Art Thesis I	3
CGI 4224	Computer Graphics	
	Design Portfolio	3
CGI 4225	Art Thesis II	6
Major Electi	ve Courses 15	Credits

Choose one group of elective courses

#### Animation

CGI 3213	Digital Image for Digital	
	Production	3
CGI 3214	Movement Analysis and	
	Integration	3
CGI 3215	Animation Production	3
CGI 3216	Creative Process of	
	Character Design and Setup	3
CGI 4217	Digital Painting for Visual Effects	3

#### Visual Effects

CGI 3218	Cinematic Setup
CGI 3219	Principles of Digital Effects
CGI 3220	Digital Compositing
CGI 3221	Visual Effects I
CGI 4222	Visual Effects II

#### C. Free Elective Courses

6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).





#### THIRD YEAR First Semester

Course Code	Course Title	Credits
ART 3014	Thai Art	3
CGI 3209	3D Animation	3
CGI 3210	Computer Graphics	
	Design Studio IV	3
GE 2101	World Civilization	3
Major Elective	e Courses : Animation	
· · · · · · · · · · · · · · · · · · ·		
CGI 3213	Digital Image for Digital	
	Production	3

	riouuction	J	
CGI 3214	Movement Analysis		
	and Integration	3	
	or		
Major Elective	e Courses Course : Visual Effects		
CGI 3218	Cinematic Setup	3	
CGI 3219	Principles of Digital Effects	3	
	Total	18	

#### Second Semester

Course Code	e Course Title	Credit
CGI 3211	Cinematic Lighting &	
	Rendering	3
CGI 3212	Computer Graphics	
	Design Studio V	3
MGT 2404	Managerial Psychology	3
Major Electiv	ve Courses : Animation	
CGI 3215	Animation Production	3
CGI 3216	Creative Process of	
	Character Design and Setup or	
Major Electiv	ve Courses Course : Visual Effects	
CGI 3220	Digital Compositing	3
CGI 3221	Visual Effects I	3
	Total	15

#### Summer Session

Course Code	Course Title	Credits
ART 3017	Internship (160 hours)	1
	Total (160 Hours)	1

#### FOURTH YEAR First Semester

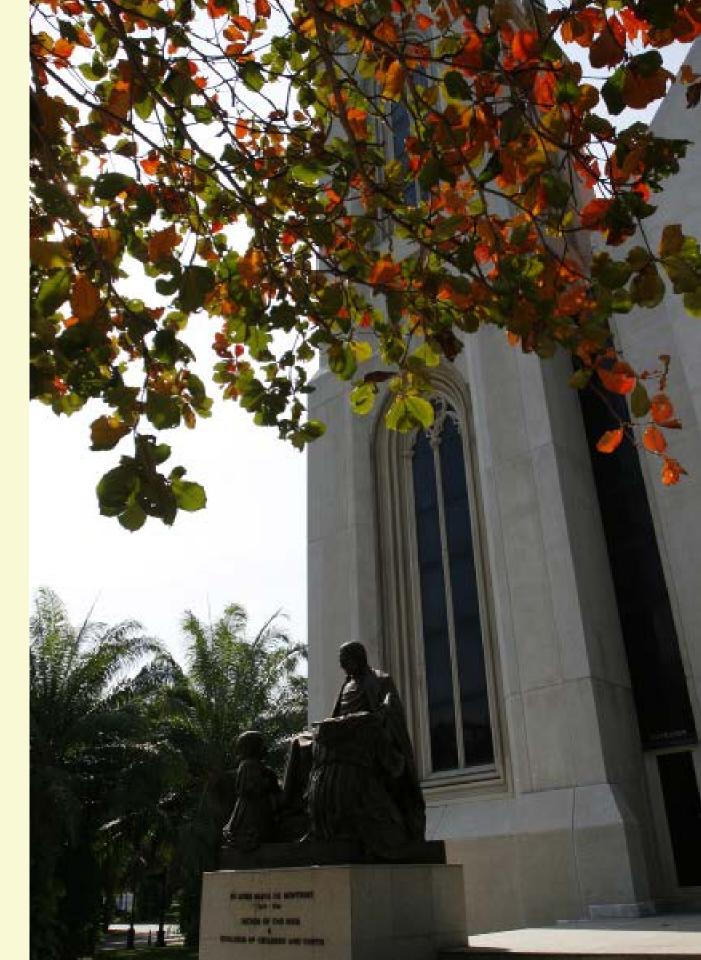
Course Code	Course Title	Credits
ART 4018	Art Appreciation	
ART 4019	Aesthetics	3
CGI 4223	Art Thesis I	3
GE 2202	Ethics	3
	Free Elective Course	

Major Elective	Courses : Animation	
CGI 4217	Digital Painting for	
	Visual Effects	3
	or	
Major Elective	Courses Course : Visual Effects	
CGI 4222	Visual Effects II	3
	Total	18

#### Second Semester

-236-

Course Code	Course Title	Credits
ART 4020	Law and Ethics for Arts	
	and Design	3
CGI 4224	Computer Graphics	
	Design Portfolio	3
CGI 4225	Art Thesis II	6
	Free Elective Course	3
	Total	15





# SCHOOL OF LAW

Curriculum Structure Courses	Laws	
A. General Education Courses • Language Courses • Social Science Courses • Humanities Courses • Science and Mathematics Courses	30 15 9 3 3	
B. Specialized Courses • Core Courses • Major Required Courses • Major Elective Courses	113 90 21 2	
C. Free Electives Courses	6	
Total	149	

#### **OBJECTIVES**

- Have moral and ethics in the practice of law profession and demonstrate fairness and responsibility to society.
- Have knowledge in basic law, business law and passes English skills for reading, for communication and for writing.
- Use cognitive skills and able to use knowledge in law to analyze and solve problems appropriately according to situations.
- · Able to work with others and able to adjust oneself to working environment and coworkers appropriately.
- Posses leadership skill and have responsibility to . oneself and the society.
- Able to plan for one's development and acquisition of knowledge.
- . Able to use information technology effectively in communication.



#### **GRADUATION REQUIREMENTS**

- Assumption University confers the degree of Bachelor of Laws upon students who meet all of the
- following requirements: · Have completed the total number of credits of
- the curriculum
- Have obtained a cumulative Grade Point Average of at least 2.00
- · Have participated in 16 sessions of the Professional Ethics Seminar
- Have obtained library and financial clearance from the university
- Have demonstrated good behavior and discipline

### COURSES

Language C	Education Courses	30 Credits 15 Credits
BG 1001		3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
Social Scien		9 Credits
	Introduction to Economics	3
GE 1202	General Psychology	3
GE 2202		3
Humanities	Courses	3 Credits
	World Civilization	3
Science and	Mathematics Courses	3 Credits
GE 1301	Environmental Science	3



<mark>B. Speciali</mark> Core Cour		13 Credits 90 Credits
 LW 1101	Juristic Acts and Contracts La	- w 3
LW 1101	Property and Land Law	3
LW 1201	Criminal Law I	3
LW 1501	Principles of Private Law	3
LW 1501	Principle of Public Law	2
LW 1503	Thai Legal History	2
LW 1504	Constitutional Law	3
LW 2103	Obligations Law	3
LW 2104	Law of Delict	3
LW 2105	Insurance Law	2
LW 2106	Specific Contracts I	3
LW 2107	Partnership and Company La	w 3
LW 2108	Negotiable Instruments and	
	Current Accounts Law	2
LW 2202	Criminal Law II	2
LW 2203	Criminal Law III	3
LW 2505	Administrative Law	2
LW 2601	Public Finance Law	2
LW 2602	Computer Law and Compute	r
	for Legal Research	3
LW 3109	Specific Contracts II	3
LW 3110	Family Law	3
LW 3111	Secured Transactions Law	2
LW 3112	Succession Law	3
LW 3301	Civil Procedural Law	4
LW 3302	Criminal Procedural Law	4
LW 3303	Constitution of Courts of	
	Justice and Judicial System	2
LW 3304	Civil Procedural Law on	
	Execution of Judgment	-
114/2205	and Orders	2
LW 3305 LW 3306	Evidence Law	3 3
LW 3306 LW 3401	Bankruptcy Law Public International Law	3
LW 3401 LW 3602	Public International Law Tax Law I	3
LW 3602 LW 4402	Private International Law	3
LW 4402 IW 4506	Philosophy of Law	3 2
LVV 4300		Z

Labor and Social Security Law

3

#### Assumption University of Thailand | School of Law

LW 4604



Major Requ	uired Courses	21 Credits
LW 3001	English for Lawyers I	2
LW 3002	English for Lawyers II	2
LW 3603	Tax Law II	2
LW 4605	Intellectual Property Law	3
LW 4606	International Business	
	Transactions Law	2
LW 4607	Banking and Financial	
	Institutions Law	2
LW 4608	Securities and Securities	
	Exchange Law	2
LW 4609	Principles of Contract Drafting	g 2
LW 4610	Investment Law	2
LW 4611	Counseling and Advocacy	2



IW 4113	Seminar in Civil and	-
	Commercial Law	2
LW 4204	Criminology and Penology	2
LW 4205	Criminal Investigation	2
LW 4205	Seminar in Criminal Law	2
LW 4307	Juvenile and Family Law	2
LW 4308	Administrative Court and	2
200 4500	Administrative Procedure	2
LW 4309	Seminar in Civil Procedural Lay	
LW 4310	Seminar in Criminal	~ ~
200 1010	Procedural Law	2
LW 4403	International Economic Law	2
LW 4404	Maritime Law	2
LW 4405	Law of the Sea	2
LW 4406	International Organization Lav	v 2
LW 4407	Human Rights Law	2
LW 4408	ASEAN Law	2
LW 4507	Military Law	2
LW 4508	Environmental Law	2
LW 4509	Introduction to American	
	and English Legal System	2
LW 4510	Forensic Medicine	2
LW 4511	Principles of Legal Profession	2
LW 4612	Customs Law	2
LW 4613	Industrial Law	2
LW 4614	Real Estate Law	2
LW 4615	Tax Law III	2
LW 4616	Consumer Protection Law	2
LW 4617	Anti-Monopoly Law	2
LW 4618	<b>Commercial Arbitration Law</b>	2
LW 4619	Natural Resources Law	2
LW 4620	Seminar in Tax Law	2
LW 4621	Seminar in Business Law	2
LW 4622	Electronic Commerce Law	2
LW 4623	Computer and Law:	
	A Seminar Course	2

Students can take free elective course which are offered by the school upon completion of the prerequisite(s) (if any).

### STUDY PLAN

FIRST YEAR First Semes		
Code	Subjects	Credits
BG 1001	English I	3
GE 1202	General Psychology	3
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
LW 1501	Principles of Private Law	3
LW 1502	Principle of Public Law	2
LW 1503	Thai Legal History	2
	Total	19

SECOND YEAR First Semester Credits Code Subjects BG 2000 English III 3 GE 2101 World Civilization 3 LW 2103 **Obligations** Law 3 LW 2104 Law of Delict 3 LW 2105 Insurance Law 2 LW 2202 Criminal Law II 2 LW 2505 Administrative Law 2 LW 2601 Public Finance Law 2 ____ Total 20

#### Second Semester

Code	Subjects	Credits
BG 1002	English II	3
BG 2403	Introduction to Economics	3
LW 1101	Juristic Acts and Contracts Law	3
LW 1102	Property and Land Law	3
LW 1201	Criminal Law I	3
LW 1504	Constitutional Law	3
	Total	18

#### Second Semester

Code	Subjects	Credits
BG 2001	English IV	3
GE 2202	Ethics	3
LW 2106	Specific Contracts I	3
LW 2107	Partnership and Company Law	3
LW 2108	Negotiable Instruments	
	and Current Accounts Law	2
LW 2203	Criminal Law III	3
LW 2602	Computer Law and Computer	
	for Legal Research	3
	Total	20

#### Assumption University of Thailand | School of Law



#### THIRD YEAR First Semester

Code	Subjects	Credits
LW 3001	English for Lawyers I	2
LW 3109	Specific Contracts II	3
LW 3110	Family Law	3
LW 3301	Civil Procedural Law	4
LW 3302	Criminal Procedural Law	4
LW 3303	Constitution of Courts of	
	Justice and Judicial System	2
LW 3602	Tax Law I	3
	Total	21

#### Second Semester

Code	Subjects	Credits
LW 3002	English for Lawyers II	2
LW 3111	Secured Transactions Law	2
LW 3112	Succession Law	3
LW 3304	Civil Procedural Law on Execu	tion
	Judgement and Orders	2
LW 3305	Evidence Law	3
LW 3306	Bankruptcy Law	3
LW 3401	Public International Law	3
LW 3603	Tax Law II	2
	Total	20

FOURTH YEAR	
First Semester	

Code	Subjects	
LW 4402	Private International Law	3
LW 4506	Philosophy of Law	2
LW 4604	Labor and Social Security Law	3
LW 4605	Intellectual Property Law	3
LW 4606	International Business	
	Transaction Law	2
	Two Free Elective Courses	6
	Total	19

#### Second Semester

Code	Subjects	Credits
LW 4607	Banking and Financial	
	Institutions Law	2
LW 4608	Securities and Securities	
	Exchange Law	2
LW 4609	Principles of Contract Drafting	2
LW 4610	Investment Law	2
LW 4611	Counseling and Advocacy	2
	One Major Elective Course	2
	Total	12



# SCHOOL OF BIOTECHNOLOGY

Curriculum Structure	
----------------------	--

Courses	Agro-Industry	Food Technology	
A. General Education Courses	30	30	
- Language Courses	12	12	
- Social Science Courses	6	6	
- Humanities Courses	6	6	
- Science and Mathematics Courses	6	6	
B. Specialized Courses	106	106	
- Core Courses	55	55	
- Major Required Courses	42	42	
- Major Elective Courses	9	9	
C. Free Electives Courses	6	6	
Total Credits	142	142	



#### INTRODUCTION TO BIOTECHNOLOGY

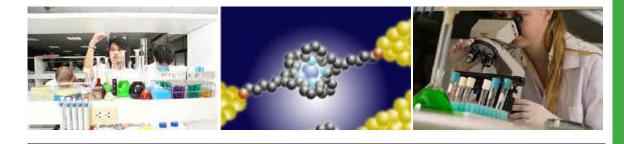
Biotechnology literally means the application of life sciences to industrial processes. Principles of science learned in the classroom and the laboratory may be used by industry to develop and improve products, which can benefit the consumer and can provide a healthy profit for the producer.

The application of recombinant DNA techniques means that processes, which have been around for centuries, can be made to work better and faster. These include brewing, cheese-making as well as plant and animal breeding. This reshaping of the very essence of life in microorganisms, plants, and animals can improve existing agricultural products and/or create new and unique ones. Because biotechnology is closely related to the agricultural sector, it has an impact on the lives of many Thais who are involved in agriculture and related industries. Biotechnology is currently providing agriculture with a variety of useful agents: soil innoculents, veterinary products, aquaculture and mariculture products, and also the development of new or improved plant and animal strains. In addition, the food industry is benefiting from new varieties of starter cultures and enzymes, as well as with food processing.

In service industries, biotechnology plays a major role in both aqueous and solid waste treatment, waste valorization and water purification. Because Assumption University is aware of the importance of biotechnology for the development of Thailand and all of Southeast Asia, it offers the following Bachelor's Degree courses:

Agro-Industry
 Food Technology

These are directly involved with applying bioscience research to food processing and other agricultural industries.



Here is a list of some positions held by food and agro-industrial scientists:

Quality Assurance Manager

- Director of Research and Development
- Food Scientist
- Laboratory Director
- Sales Manager
- Project Leader, Technology
- General Manager, Research
- Meat Scientist
- Cereal Scientist
- Technology Development Manager
- Research Scientist
- Quality Assurance Supervisor
- Director of Quality Assurance
- Technical Sales Representative
- Food Inspector
- Plant Supervisor
- Food Chemist
- Senior Scientist
- Technical Director
- Food Microbiologist
- Sensory Scientist
- Food Technologist
- Dairy Products Scientist
- Agro Industry Supervisor
- Agro business employee and owner
- Alcoholic and non-alcoholic beverage Industry Supervisor

Students in Biotechnology undergraduate program at Assumption University benefit from a committed faculty, small classes, and an emphasis on teamwork and shared responsibility for learning. The undergraduate programs in Food Technology and Agro-Industry are designed to accommodate students with a variety of interests and career goals.

#### GRADUATION REQUIREMENTS

Assumption University confers the degree of Bachelor of Science upon students who meet all the requirements as follows:

- Have completed the total number of credits of the curriculum
- Have obtained a cumulative Grade Point Average of at least 2.00
- Have participated in 16 sessions of the Professional Ethics Seminar
- Have obtained library and financial clearance from the university
- Have demonstrated good behavior and discipline







#### OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Demonstrate moral responsibility to the society, the environment and their profession.
- Understand the principles of basic science and how they are applied to the improvement of productivity and competitiveness of agro-products.
- Understand the diversity of agro-commodity and the value chain of the important commodity.
- Understand the basic knowledge and procedure to create product innovation and design new process to improve safety and quality of agro products.
- Able to apply their knowledge in the practice of their profession.
- Able to work with people in the specialized field and other fields.
- Able to communicate effectively in spoken and written form.
- Able to make appropriate use of technology in the practice of their profession.
- Able to use information technology in searching for information, communication, and presentation of ideas effectively.



#### COURSES

		30 Credits 12 Credits	
BG 1001	English I	3	
	English II English III	3	
BG 2000 BG 2001	5	3	
Social Scier	nce Courses	6 Credits	
BG 2403 GE 2202	Introduction to Economics Ethics	 3 3	
Humanities Courses		6 Credits	
	General Psychology World Civilization	 3 3	
Science an	d Mathematics Courses	6 Credits	
BG 1201 SC 2151	Statistics I Introduction to	3	
	Microcomputer Application	3	
B. Specialized Courses Core Courses		106 Credits	

BS 1001	General Chemistry	3
BS 1002	General Chemistry Laboratory	1
BS 1005	Principles of Biology	3
BS 1006	Biology Laboratory	1
BS 1007	Organic Chemistry	3
BS 1008	Organic Chemistry Laboratory	1
BS 1101	Calculus I for Bioscience	3
BS 1102	Calculus II for Bioscience	3
BS 1201	Physics for Bioscience	3
BS 1202	Physics Laboratory for Bioscience	1
BS 2004	Analytical Chemistry	3
BS 2005	Analytical Chemistry Laboratory	1
BS 2006	Basic Biochemistry	3
BS 2007	Basic Biochemistry Laboratory	1
BS 2008	Physical Chemistry	3
BS 2011	Introduction to Microbiology	3
BS 2012	Genetics	3
BS 2013	Engineering Drawing for	
	Bioscience	1
BT 2011	Introduction to Biotechnology	3
BT 3013	Introduction to Bioprocessing	
	Engineering	3



BT 3015	Industrial Fermentation	3	AI 423
BT 3016	Enzyme Technology	3	
BT 3017	Principles of Research	3	AI 423
			BS 40
Major R	equired Courses 42 C	redits	
			BT 30
AI 3201	Biological Material and		BT 30
	Biodegradation	3	FT 310
AI 3202	Introduction to Agro-Industry	2	FT 310
AI 3203	Instrumentation and Control		FT 310
	in Agro-Industrial Process	3	FT 41
AI 3204	Processing of Agricultural		FT 41
	Products I	3	FT 412
AI 3205	Biochemical Engineering	3	
AI 3206	Agro-Industry Management	5	FT 412
711 5200	and Marketing	3	FT 41
AI 3207	Unit Operation of Agro-Industry I	3	FT 412
AI 3207	Standards and Regulations of	5	FT 41
AI 5206	5	2	FT 41
AL 4200	Agricultural products	2	FT 41.
AI 4208	Processing of Agricultural	2	C Erro
	Products II	3	C. Fre
AI 4209	Unit Operation for Agro-Industry II	3	
AI 4211	Fermentation Process	3	Stude
AI 4213	Agro-Industrial Quality Control	3	froma
AI 4218	Agro-Industrial Product		comp
	Development	3	
AI 4290	Special Project	3	
AI 4291	Field Trip	1	
AI 4292	Seminar	1	
AI 4294	Internship(300 Hours) Non-	credit	
Maiau		مه انهم	
Major E	lective Courses 9 C	redits	
AI 4212	Tissue Culture Techniques		
/0 1212	and Application	3	
AI 4215	Agro-Industry Preservation	5	
711 4215	and Packaging	3	
AI 4216	Fiber Technology	3	
AI 4217	Essential Oil Technology	3	
AI 4217		3	
AI 4219		3	
AI 4221	Alcoholic Beverage Technology	3	
AI 4222	Water and Waste Management	3	
AI 4223	Waste and By-product Utilization	3	
AI 4226	Plant Breeding Technology	3	
AI 4232	Secondary Metabolites of		
	Plant Cells	3	
AI 4233	Pulp and Paper Technology	3	
AI 4234	Wood Technology	3	
AI 4235	Rubber Technology	3	
AI 4236	Feed Manufacturing Technology	3	
AI 4237	Leather Product Technology	3	

1238	Mushroom Cultivation	
	Technology	3
1239	Selected Topic	3
4001	Ecology, Conservation and	
	Environmentalism	3
3014	Microbial Physiology	3
3018	Genetic Engineering	3
3103	Food Microbiology	3
3108	Food Chemistry I	3
3109	Food Chemistry II	3
4115	Fruit and Vegetable Technology	3
4117	Dairy Technology	3
4121	Meat Poultry and Fishery	
	Technology	3
4123	Food Sanitation	3
4124	Lipid Technology	3
4126	Food Packaging	3
4127	Cereal Technology	3
4132	Color and Flavor Technology	3

#### C. Free Elective Courses

6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).



3

3

1

3

1

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3

21

#### STUDY PLAN

FIRST YEAR	
First Semester	
Course Code Course TitleCredit	S

BG 1001	English I
BS 1001	General Chemistry
BS 1002	General Chemistry Laboratory
BS 1005	Principles of Biology
BS 1006	Biology Laboratory
BS 1101	Calculus I for Bioscience
BS 1201	Physics for Bioscience
BS 1202	Physics Laboratory for Bioscience
GE 2101	World Civilization
	Total

Second Semester			
Course Code Course Title Credits			
BG 1002	English II	3	
BG 1201	Statistics I	3	
BS 1007	Organic Chemistry	3	
BS 1008	Organic Chemistry Laboratory	1	
BS 1102	Calculus II for Bioscience	3	
GE 1201	General Psychology	3	
SC 2151	Introduction to		
	Microcomputer Application	3	
	Total	19	



## Course Code Course Title BG 2000 English III BG 2403 Introduction to Economics

SECOND YEAR

First Semester

BS 2004	Analytical Chemistry
BS 2005	Analytical Chemistry Laboratory
BS 2006	Basic Biochemistry
BS 2007	Basic Biochemistry Laboratory
BS 2013	Engineering Drawing
	for Bioscience
	One Free Elective Course

## Total

Second Semester			
Course Cod	Credits		
AI 3202	Introduction to Agro-Industry	2	
BG 2001	English IV	3	
BS 2008	Physical Chemistry	3	
BS 2011	Introduction to Microbiology	3	
BS 2012	Genetics	3	
BT 2011	Introduction to Biotechnology	3	
GE 2202	Ethics	3	
	Total	20	

## THIRD YEAR First Semester

Credits

3

3 3

1

3

1

1

3

18

le Course Title	Credits
Biological Material and	
Biodegradation	3
Processing of Agricultural	
Products I	3
Introduction to Bioprocessing	
Engineering	3
Industrial Fermentation	3
One Major Elective Course	3
One Free Elective Course	3
Total	18
	Biodegradation Processing of Agricultural Products I Introduction to Bioprocessing Engineering Industrial Fermentation One Major Elective Course One Free Elective Course

#### Second Semester

Course Code	Course Title	Credits
AI 3203	Instrumentation and Control	
	in Agro-Industrial Process	3
AI 3205	Biochemical Engineering	3
AI 3207	Unit Operation of Agro-Industry I	3
AI 3208	Standards and Regulations	
	of Agricultural Products	2
AI 4208	Processing of Agricultural	
	Products II	3
BT 3016	Enzyme Technology	3
	Total	17



#### FOURTH YEAR First Semester

Course Code	Course Title	Credits
AI 3206	Agro-Industry Management	
	and Marketing	3
AI 4209	Unit Operation for Agro-Indus	stry II 3
AI 4211	Fermentation Process	3
AI 4213	Agro-Industrial Quality Control	
AI 4294	Internship (300 Hours)	Non-credit
BT 3017	Principles of Research	3
	Total	15
Second Seme		
Course Code	Course Title	Credits
AI 4218	Agro-Industrial Product	
	Development	3
AI 4290	Special Project	3
AI 4291	Field Trip	1
AI 4292	Seminar	1
	Two Major Elective Courses	6
	Total	14





COURSES

Core Courses

#### DEPARTMENT OF FOOD TECHNOLOGY

#### OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Possess good moral and ethics, socially and professionally.
- Aware of laws, standards and regulations concerning foods and agricultural products.
- Understand food components, their characteristics and properties, the changes of food components during processing and storage, and selection of suitable analyzing method to determine those food components.
- Understand the principles underlying food safety and food microbiology, development of quality assurance plan for safety food production and food plant sanitation.
- Understand the principles used in preservation, engineering, processing and packaging of the foods and the application of the knowledge in order to develop suitable food production process.
- Possess analysis skills in food chemistry, food safety and food plant sanitation as well as food processing to control and assure of the quality food.
- Experiment and analyze the problems related to assessment of physical and sensory qualities of the foods.
- Able to work with different groups of people in the food industries and related fields.
- Able to use information technology in searching for information, communication, and presentation of ideas effectively.

A. General Education Courses Language Courses		30 Credits 12 Credits	
BG 1001 BG 1002	English I English II English III	 3 3 3	
BG 2001	English IV	3	
Social Scier	nce Courses	6 Credits	
BG 2403 GE 2202	Introduction to Economics Ethics	 3 3	
Humanities		6 Credits	
GE 1202	General Psychology World Civilization		
GE 1202 GE 2101 Science and	General Psychology World Civilization	 3 3 6 Credits	
GE 1202 GE 2101 Science and BG 1201	General Psychology World Civilization d Mathematics Courses Statistics I	 3 3 6 Credits	
GE 1202 GE 2101 Science and BG 1201	General Psychology World Civilization d Mathematics Courses	 3 3 6 Credits	

55 Credits

DC 1001	Concernel Changistry	2
BS 1001	General Chemistry	3
BS 1002	General Chemistry Laboratory	1
BS 1005	Principles of Biology	3
BS 1006	Biology Laboratory	1
BS 1007	Organic Chemistry	3
BS 1008	Organic Chemistry Laboratory	1
BS 1101	Calculus I for Bioscience	3
BS 1102	Calculus II for Bioscience	3
BS 1201	Physics for Bioscience	3
BS 1202	Physics Laboratory for Bioscience	1
BS 2004	Analytical Chemistry	3
BS 2005	Analytical Chemistry Laboratory	1
BS 2006	Basic Biochemistry	3
BS 2007	Basic Biochemistry Laboratory	1
BS 2008	Physical Chemistry	3
BS 2011	Introduction to Microbiology	3
BS 2012	Genetics	3
BS 2013	Engineering Drawing for	
	Bioscience	1



BT 2011 BT 3013	Introduction to Biotechnology Introduction to Bioprocessing	,	3	Major Ele
01 3013	Engineering		3	AI 3201
BT 3015	Industrial Fermentation		3	
BT 3016	Enzyme Technology		3	AI 3205
BT 3017	Principles of Research		3	AI 4211
01 3017	r melples of nescuren		5	AI 4219
Major Requir	ed Courses	42 Credi	ts	AI 4220
		-		AI 4221
AI 3208	Standards and Regulations			AI 4222
1.10200	of Agricultural Products		2	AI 4223
FT 3100	Introduction to Food Technolo		2	BS 4001
FT 3102	Food Engineering	57	3	
FT 3103	Food Microbiology		3	BT 3014
FT 3105	Human Nutrition		3	BT 3018
FT 3106	Industrial Food Processing I		3	FT 4114
FT 3108	Food Chemistry I		3	FT 4115
FT 3109	Food Chemistry II		3	FT 4116
FT 4108	Industrial Food Processing II		3	FT 4117
FT 4110	Food Marketing and			FT 4120
	Management		3	FT 4121
FT 4112	Food Quality Control		3	
FT 4113	Food Product Development		3	FT 4122
FT 4123	Food Sanitation		3	FT 4124
FT 4190	Special Project		3	FT 4125
FT 4191	Field Trip		1	FT 4126
FT 4192	Seminar		1	FT 4127
FT 4194	Internship (300 Hours)	Non-credi	t	FT 4131
				FT 4132

Electiv	9 Credits	
)1	Biological Material and	
	Biodegradation	3
)5	Biochemical Engineering	3
1	Fermentation Process	3
9	Sugar Technology	3
20	Post Harvest Technology	3
1	Alcoholic Beverage Technology	3
2	Water and Waste Management	3
3	Waste and By-product Utilization	on 3
D1	Ecology, Conversation and	
	Environmentalism	3
14	Microbial Physiology	3
18	Genetic Engineering	3
14	Bakery Technology	3
15	Fruit and Vegetable Technology	/ 3
16	Food Toxicology	3
17	Dairy Technology	3
20	Food Additive	3
21	Meat Poultry and Fishery	
	Technology	3
22	Confectionery Technology	3
24	Lipid Technology	3
25	Beverage Technology	3
26	Food Packaging	3
27	Cereal Technology	3
31	Selected Topic	3
32	Color and Flavor Technology	3

#### C. Free Elective Courses

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

6 Credits



#### STUDY PLAN

FIRST YEAR First Seme	-		SE Fi
Course Coo	de Course Title	Credits	Co
BG 1001 BS 1001 BS 1002 BS 1005 BS 1006 BS 1101 BS 1201 BS 1202 GE 2101	English I General Chemistry General Chemistry Laboratory Principles of Biology Biology Laboratory Calculus I for Bioscience Physics for Bioscience Physics Laboratory for Bioscience World Civilization	3 3 1 3 1 3 3 1 3	B0 B1 B1 B1 B1 B1 B1 B1 B1 B1
	Total	21	
Second Se		Credits	Se  Co
BG 1002 BG 1201 BS 1007 BS 1008 BS 1102 GE 1202 SC 2151	English II Statistics I Organic Chemistry Organic Chemistry Laboratory Calculus II for Bioscience General Psychology Introduction to Microcomputer Application	3 3 1 3 3 3	B0 B5 B5 B1 F1 G1
	Total	19	

SECOND YEAR First Semester			
Course Code	e Course Title	Credits	
BG 2000	English III	3	
BG 2403	Introduction to Economics	3	
BS 2004	Analytical Chemistry	3	
BS 2005	Analytical Chemistry Laboratory	1	
BS 2006	Basic Biochemistry	3	
BS 2007	Basic Biochemistry Laboratory	1	
BS 2013	Engineering Drawing for		
	Bioscience	1	
	One Free Elective Course	3	
	Total	18	

#### Second Semester

Course Code	e Course Title	Credits
BG 2001	English IV	3
BS 2008	Physical Chemistry	3
BS 2011	Introduction to Microbiology	3
BS 2012	Genetics	3
BT 2011	Introduction to Biotechnology	3
FT 3100	Introduction to Food Technology	2
GE 2202	Ethics	3
	Total	20





#### THIRD YEAR First Semester

Course Cod	Credits	
BT 3013	Introduction to Bioprocessing	
	Engineering	3
BT 3015	Industrial Fermentation	3
FT 3103	Food Microbiology	3
FT 3106	Industrial Food Processing I	3
FT 3108	Food Chemistry I	3
	One Free Elective Course	3
	Total	18

FOURTH YEAR First Semester			
Course Cod	e Course Title	Credits	
BT 3017 FT 4110	Principles of Research Food Marketing and	3	
	Management	3	
FT 4112	Food Quality Control	3	
FT 4194	Internship (300 Hours)	Non-credit	
	Two Major Elective Courses	6	
	Total	15	

#### Second Semester

Course Code	Credits	
AI 3208	Standards and Regulations of	
	Agricultural Products	2
BT 3016	Enzyme Technology	3
FT 3102	Food Engineering	3
FT 3104	Human Nutrition	3
FT 3109	Food Chemistry II	3
FT 4108	Industrial Food Processing II	3
	Total	17

#### Second Semester

Course Coc	Credits	
 FT 4113	Food Product Development	3
FT 4123	Food Sanitation	3
FT 4190	Special Project	3
FT 4191	Field Trip	1
FT 4192	Seminar	1
	One Major Elective Course	3
	Total	14

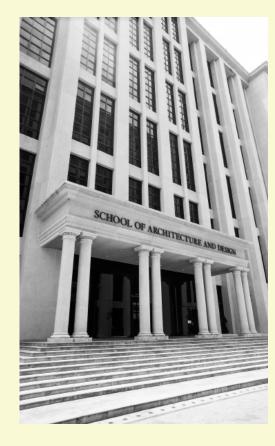




## MONTFORT DEL ROSARIO SCHOOL OF **ARCHITECTURE AND DESIGN**

#### Curriculum Structure

Courses	Architecture	Interior Architecture	Interior Design	Product Design
A. General Education Courses	30	30	30	30
- Language Courses	15	15	15	15
- Social Science Courses	3	3	3	3
- Humanities Courses	6	6	6	6
- Science and Mathematics				
Courses	6	6	6	6
B. Specialized Courses	129	129	101	101
- Core Courses	36	36	18	18
- Major Required Courses	57	57	80	77
· ·	57		3	
- Major Elective Course		6	5	6
- Minor Required Courses	30	30	-	-
C. Free Elective Courses	6	6	6	6
Total Credits	165	165	137	137



#### **GRADUATION REQUIREMENTS**

Assumption University confers the degree of Bachelor of Architecture / Bachelorof Fine and Applied Arts upon students who meet all the requirements as follows:

- Have completed the total number of credits of the curriculum
- Have obtained a cumulative Grade Point Average of at least 2.00
- Have participated in 16 sessions of the Professional Ethics Seminar
- Have obtained library and financial clearance from the university
- Have demonstrated good behavior and discipline

#### **OBJECTIVES**

To produce graduates who:

- · Possess architectural knowledge and skills sufficient to assume architectural leadership position in developing the society and the country, with professional responsibility.
- Are able to take their leading roles in rendering architectural services and development with science and technology knowledge as well as culture and arts conservation.
- Posses Professional ethics that will lead to architectural enhancement and approval of the society.



#### DEPARTMENT OF ARCHITECTURE

#### **OBJECTIVES**

To produce graduates who have the characteristics, knowledge and skills as follows:

- · Possess professional ethics that will lead to architectural enhancement and approval of the society.
- Possess architectural knowledge and skills sufficient to assume architectural leadership position in developing the society and the country, with professional responsibility.
- Initiate research, analyze and critically evaluate solutions to formulate conclusions relating to architectural design.
- Able to take their leading roles in rendering architectural services and work constructively and productively within an interdisciplinary environment.
- Effectively communicate by using a variety of . oral, written and IT skills.
- Have dexterity in freehand drawing, architecture drafting, delineation and three dimensional model making.
- Demonstrate integrated marketing communication skills in relation to architecture and design.

#### COURSES

<mark>A. General E</mark> Language C	30 Credits 15 Credits	
BG 1001 BG 1002 BG 2000 BG 2001 GE 1403 or GE 1401	English I English II English III English IV Communication in Thai Language and Communicati (For International Students)	3 3 3 3 ion Skills 3
Social Scien	ce Courses	3 Credits
MGT 1101	Introduction to Business	3
Humanities	Courses	6 Credits
GS 1004 GS 1005	Art of Delineation Graphic Presentation	3
Science and	Mathematics Courses	6 Credits
GS 1008 GE 1301	Applied Mathematics	3

B. Specializ Core Cours	zed Courses129 Creses36 Cre	
AR 1102	Visual Studies and Communication	3
AR 1104	Fundamental of Architectural	
	Design	3
AR 1106	Architectural Drawing	3
AR 1107	Introduction to Creative Culture	3
AR 2106	History of Architecture I	3
AR 2109	Building Technology and	
	Construction I	3
AR 2110	Building Technology and	
	Construction II	3
AR 3101	Introduction to Computer	
	– Aided Design	3
AR 3106	Building Environmental Control I	3
AR 3107	Building Environmental Control II	3
AR 4101	History of Thai Architecture	3
AR 4106	Methods of Research and Data	
	Processing	3
Major Requ	uired Courses 57 Cre	dits
AR 2202	Architectural Design I	6
AR 2204	Architectural Design II	6
AR 3200	Theory and Concept in Architecture	3
AR 3203	Architectural Design III	6
AR 3207	Architectural Design IV	6
AR 4203	Architectural Design V	6
AR 4205	Architectural Design VI	6
AR 5200	Pre-Thesis in Architecture	3
AR 5203	Architectural Design VII	6
AR 5205	Thesis in Architecture	9
Major Elect	tive Courses 6 Cre	dits

Major Electi	ve Courses 6 Cr	edits
AR 5401 AR 5402	Building Cost Estimation and Control Fundamentals of Architecture and	3
	Urban Conservation	3
AR 5403	Advanced Computer - Aided Design	3
AR 5404	Construction Management	3
AR 5405	Individual Study in Architecture	3
AR 5407	Real Estate Development	3
AR 5409	Architectural Psychology	3
AR 5410	Thai Architecture	3
AR 5413	Project Management	3
AR 5414	Energy Saving	3
AR 5415	Interactive Features Design	3
AR 5416	Façade Design in Architecture	3
AR 5417	Interior Design by Architects	3
AR 5418	Introduction to Exhibition Design	3
AR 5419	Special Topics in History, Theory	
	and Technology in Architecture	3
AR 5420	Lighting, Perception and Culture	3



6 Credits

Minor Requ	uired Courses 30 Cred	its
AR 2304	Structural Design	3
AR 2305	History of Architecture II	3
AR 2306	Structural Mechanics	3
AR 3307	Building Technology and	
	Construction III	3
AR 3308	Building Technology and	
	Construction IV	3
AR 3309	Architectural Design Methods	3
AR 3310	Fundamentals of Site and	
	Landscape Planning	3
AR 4301	Fundamentals of Urban and	
	Regional Planning	3
AR 4302	Seminar in Architecture	3
AR 4303	Practicum in Architecture (240 Hours)	0
AR 5300	Professional Ethics and Practices	3

#### C. Free Elective Courses

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

FIRST YEAR First Semest	ter	
Code	Subjects	Credit
AR 1102	Visual Studies and Communicati	on 3
AR 1106	Architectural Drawing	
BG 1001	English I	
GE 1403	Communication in Thai	
or GE 1401	Language and Communication S	
GS 1004	(For International Students) Arts of Delineation	
GS 1004 GS 1008	Applied Mathematics	
	Total	1
Second Sen 	nester Subjects	Credit
Code	Subjects	Credit
	Subjects Fundamental of Architectural	
Code AR 1104	Subjects Fundamental of Architectural Design	
Code	Subjects Fundamental of Architectural Design Introduction to Creative Culture	
Code AR 1104 AR 1107	Subjects Fundamental of Architectural Design	Credit

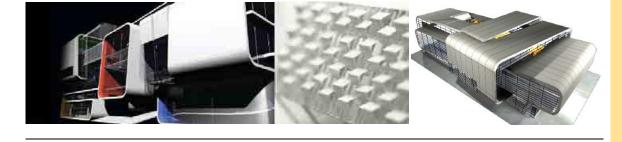
Graphic Presentation

Total

3

18

GS 1005



SECOND YI First Seme			TH Fir
	Subjects	Credits	Co
AR 2106 AR 2109	History of Architecture I Building Technology and	3	AF
	Construction I	3	AF
AR 2202	Architectural Design I	6	AF
AR 2306	Structural Mechanics	3	AF
BG 2000	English III	3	
			AF
	Total		
Second Se	mostor		 Se
			36
Code	Subjects	Credits	Co
AR 2110	Building Technology and		AF
	Construction II	3	AF
AR 2204	Architectural Design II	6	AF
AR 2304	Structural Design	3	AF
AR 2305	History of Architecture II	3	
BG 2001	English IV	3	AF
	Total	18	

THIRD YEAR First Semeste	r	
Code	Subjects	Credits
AR 3101	Introduction to Computer –	
	Aided Design	3
AR 3106	Building Environmental Control I	3
AR 3203	Architectural Design III	6
AR 3307	Building Technology and	
	Construction III	3
AR 3309	Architectural Design Methods	3
	Total	18

Code	Subjects C	redits
AR 3107	Building Environmental Control II	3
AR 3200	Theory and Concept in Architecture	3
AR 3207	Architectural Design IV	6
AR 3208	Building Technology and	
	Construction IV	3
AR 3310	Fundamentals of Site and	
	Landscape Planning	3
	Total	18





#### DEPARTMENT OF INTERIOR ARCHITECTURE

#### OBJECTIVES

#### COURSES ____

To produce graduates who have the characteristics, knowledge and skills as follows: · Develop moral character and possess profes-

- sional ethics accepted and approved by the society.
- Understand interior architecture theories and possess techniques developed through the systematic and efficient creative thinking process as well as professional responsibility sufficient to assume the role of interior architects in the development of industry, society and the country.
- Able to innovate and transform creative concepts through systematic analysis and considerations of related theories to the spatial visualization.
- Able to render interior architecture services in the milieu of science and technology while adhering to preservation of arts and culture.
- Able to contribute to a team work among designers and others with the same level of competency and aspiration in order to function creatively while maintaining a healthy competitive environment.
- · Have creativity and presentation skills via computer applications and logical schema.
- Have dexterity in freehand drawing, interior . chitecture drafting, delineation and three dime sional model making.

<mark>A. General E</mark> Language C		30 Credits 15 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication (For International Students)	on Skills 3
Social Scien	ce Courses	3 Credits
MGT 1101	Introduction to Business	3
Humanities	Courses	6 Credits
GS 1004	Art of Delineation	3
GS 1005	Graphic Presentation	3
Science and	Mathematics Courses	6 Credits
	Applied Mathematics	3
GE 1301	Environmental Science	3
B. Specialize		129 Credits
Core Course	2S	36 Credits
AR 1102	Visual Studies and Communica	
AR 1104	Fundamental of Architectural De	5
AR 1106	Architectural Drawing	3
AR 1107	Introduction to Creative Cultu	
AR 2106	History of Architecture I	3
AR 2109	Building Technology and	-
AD 2110	Construction I	3
AR 2110	Building Technology and	2
AD 2101	Construction II	3
AR 3101	Introduction to Computer –	2
AR 3106	Aided Design Building Environmental Cont	roll 3
AR 3100 AR 3107	Building Environmental Cont	

History of Thai Architecture

Methods of Research and

Data Processing

3

3

ar- nen-	B. Specializ Core Cours	zed Courses ses
	AR 1102	Visual Studies and Comn
	AR 1104	Fundamental of Architect
	AR 1106	Architectural Drawing
	AR 1107	Introduction to Creative
	AR 2106	History of Architecture I
	AR 2109	Building Technology and Construction I
	AR 2110	Building Technology and Construction II
	AR 3101	Introduction to Comput Aided Design
	AR 3106	Building Environmental

#### FOURTH YEAR First Semester

_	-	-	_	-	-	_	-	-	-	-	-	-	-	_	-	-	_	-	-	

Code	Subjects	Credits
AR 4101	History of Thai Architecture	3
AR 4203	Architectural Design V	6
AR 4301	Fundamentals of Urban and	
	Regional Planning	3
AR 4302	Seminar in Architecture	3
	Total	15

#### Second Semester

Code	Subjects	Credits
AR 4106	Methods of Research and D	ata
	Processing	3
AR 4205	Architectural Design VI	6
AR 4303	Practicum in Architecture	
	(240 Hours)	Non-Credit
	One Free Elective Course	3
	One Major Elective Course	3
	Total	15

#### FIFTH YEAR

First Semester

Code	Subjects	Credits
AR 5200 AR 5203	Pre-Thesis in Architecture Architectural Design VII One Free Elective Course One Major Elective Course	3 3 3 3
	Total	15
Second Sen	nester	

Code	Subjects	Credits
AR 5205	Thesis in Architecture	9
AR 5300	Professional Ethics and Practices	3
	Total	12

AR 4101

IN 4102





#### faculties upon completion of the prerequisites.

Major Req	uired Courses 57 Cre	dits
IN 2202	Interior Architectural Design I	6
IN 2204	Interior Architectural Design II	6
IN 3200	Theory and Concept in Interior	
	Architecture	3
IN 3203	Interior Architectural Design III	6
IN 3207	Interior Architectural Design IV	6
IN 4203	Interior Architectural Design V	6
IN 4205	Interior Architectural Design VI	6
IN 5200	Pre-Thesis in Interior Architecture	3
IN 5203	Interior Architectural Design VII	6
IN 5205	Thesis in Interior Architecture	9
Major Elec	tive Courses 6 Cre	dits
IN 5400	Elements of Thai Architecture	3
IN 5401	Interior Architecture Cost	
	Estimation and Control	3
IN 5403	Advanced Computer -	
	Aided Design	3
IN 5404	Individual Study in Interior	
	Architecture	3
IN 5411	Advanced Lighting	3
IN 5413	Facilities Management	3
IN 5415	Fabric design and Applications	3
IN 5416	Introduction to Exhibition Design	3
IN 5417	Arts Appreciation	3
Minor Req	uired Courses 30 Cre	dits
IN 2305	Interior Architectural Design	
	Methods	3
IN 2306	History of Interior Architecture	3
IN 3301	Interior Construction Technology I	3
IN 3303	Interior Construction Technology II	3
IN 3304	Lighting Design	3
IN 3305	Furniture Design	3
IN 3306	Interior Material Application	3
IN 4304	Practicum in Interior Architecture	
	(240 Hours) Non-cr	edit
IN 4305	Seminar in Interior Architecture	3
IN 4306	Furniture Production Method	3
IN 5300	Professional Ethics and Practices	3

#### STUDY PLAN

First Semest		
Code	Subjects	Credits
AR 1102	Visual Studies and Communicatio	n 3
AR 1106	Architectural Drawing	3
BG 1001	English I	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication Sk	kills
	(For International Students)	
GS 1004	Arts of Delineation	3
GS 1008	Applied Mathematics	3
	Total	18

#### Second Semester

Code	Subjects	Credits
 AR 1104	Fundamental of Architectural	
	Design	3
AR 1107	Introduction to Creative Culture	3
BG 1002	English II	3
GE 1301	Environmental Science	3
GS 1005	Graphic Presentation	3
MGT 1101	Introduction to Business	3
	Total	18

First Semes	ter	
Code	Subjects	Credits
AR 2106 AR 2109	History of Architecture I Building Technology and	3
	Construction I	3
BG 2000	English III	3
IN 2202	Interior Architectural Design I	6
IN 2305	Interior Architectural Design Met	hod 3
	Total	18

#### THIRD YEAR First Semester Code Subjects Credits Building Environmental Control I AR 3106 3 IN 3200 Theory and Concept in Interior Architecture 3 Interior Architectural Design III IN 3203 6 Interior Construction Technology I IN 3301 3 Interior Material Application IN 3306 3 18 Total

#### Second Semester

SECOND YEAR

Code	Subjects	Credits
AR 2110	Building Technology and	
	Construction II	3
AR 3101	Introduction to Computer –	
	Aided Design I	3
BG 2001	English IV	3
IN 2204	Interior Architectural Design II	6
IN 2306	History of Interior Architecture	3
	Total	18

## Second Semester

Code	Subjects	Credits
AR 3107 IN 3207 IN 3303 IN 3304 IN 3305	Building Environmental Control II Interior Architectural Design IV Interior Construction Technology Lighting Design Furniture Design	3 6 11 3 3 3
	Total	18

Students can take free elective courses of 6 credits

C. Free Elective Courses

which are offered by their faculty or by different

6 Credits



FIFTH YEAR First Semester

#### FOURTH YEAR

First Semeste	2r			
Code	Subjects	Cre	dits	
AR 4101 IN 4203 IN 4305 IN 4306	History of Thai Architecture Interior Architectural Design V Seminar in Interior Architecture Furniture Production Methods		3 6 3 3	
	Total		15	
Second Sem	ester			
		~	11.	

#### Code Subjects Credits IN 4102 Methods of Research and Data Processing 3 Interior Architectural Design VI IN 4205 6 IN 4304 Practicum in Interior Architecture (240 Hours) Non-Credit One Free Elective Course 3 One Major Elective Course 3

Code	Subjects	Credits
IN 5200 IN 5203	Pre-Thesis in Interior Architectur Interior Architectural Design VII One Free Elective Course One Major Elective Course	e 3 6 3 3
	Total	15
Second Seme	ester	
Code	Subjects	Credits
IN 5205 IN 5300	Thesis in Interior Architecture Professional Ethics and Practices	9 3
	Total	12





#### DEPARTMENT OF INTERIOR DESIGN

#### **Objectives:**

To produce graduates who have the characteristics, knowledge and skills as follows:

- Develop moral character and possess professional ethics accepted and approved by the society.
- Possess interior design theoretical knowledge, technical skills, entrepreneurial drive, and professional re-. sponsibility sufficient to assume leadership positions in the industry, society and the country.
- Confident in rendering interior design services in the milieu of science and technology while adhering to . preservation of arts and culture.
- Know how to contribute to a team working among designers and others with the same level of competency • and aspiration in order to function creatively while maintaining a healthy competitive environment.
- Have creativity and presentation skills via computer applications and logical schema. .
- Have dexterity in freehand drawing, interior design drafting, delineation and 3 dimensional model making. .

#### COURSES

IND 2102

Human Factors

<mark>A. General I</mark> Language (	Education Courses Courses	30 Credits 15 Credits	IND 3101 IND 3102	Theory and Concept in Design Design Research and Development	3 3
 BG 1001		3	Major Requ	uired Courses 80 C	redits
	English II	3			
	English III	3	IND 1301	5	3
BG 2001	English IV	3	IND 1302	5	3
GE 1403		3	IND 1303	Computer Applications for	
or GE 1401	Language and Communicat	tion Skills		Interior Design	3
	(For International Students)	3	IND 2201	Interior Design I	6
			IND 2202	Interior Design II	6
Social Scier	nce Courses	3 Credits	IND 2301	History of Interior Design	3
			IND 2302	Building Construction	3
MGT 1101	Introduction to Business	3	IND 2303	Furniture Production and	
				Fabrication Technology	3
Humanities	Courses	6 Credits	IND 3201	Interior Design III	6
			IND 3202	Interior Design IV	6
GS 1004	Art of Delineation	3	IND 3301	Interior Construction	3
GS 1005	Graphic Presentation	3	IND 3302	Interior Material and Technology	3
			IND 3303	Building System Study	3
Science and	d Mathematics Courses	6 Credits	IND 3304	Interior Design Proposal and	
				Marketing	3
BG 1200	Mathematics for Business	3	IND 3305	Practicum in Interior Design	2
GE 1301	Environmental Science	3	IND 3306	Lighting Design	3
			IND 4201	Interior Design V	6
A. Specializ	ed Courses	101 Credits	IND 4202	Senior Project	6
		18 Credits	IND 4301	Design Management	3
			IND 4302	Individual Study in Interior Design	3
IND 1101	Visual Design	3	IND 4303	Professional Ethics and Practice	3
	Introduction to Design Cult	ure			
	and Trend	3			
IND 2101	Design Methods	3			
		-			



3

3

3

3

3

3

3

6 Credits



#### Major Elective Courses 3 Credits IND 4401 Seminar in Interior Design IND 4402 Advanced Computer-Aided Design IND 4403 Model Making and 3D Exploration IND 4404 Home Textiles and Soft Furnishing IND 4405 Thai Architecture Study IND 4406 Advanced Lighting IND 4407 Decorative Art

#### C. Free Elective Courses

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

#### STUDY PLAN

FIRST YEAR First Semest	er	-
Code	Subjects	Credits
BG 1001	English I	- 3
BG 1200	Mathematics for Business	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communicatior	n Skills
	(For International Students)	3
GS 1004	Art of Delineation	3
IND 1101	Visual Design	3
IND 1301	Basic Drawing	3
	Total	- 18

## Second Semester

Code	Subjects	Credits
BG 1002	English II	3
GE 1301	Environmental Science	3
GS 1005	Graphic Presentation	3
IND 1102	Introduction to Design Culture	
	and Trend	3
IND 1302	Design Fundamentals	3
IND 1303	Computer Application for Interior	
	Design	3
	Total	18

#### THIRD YEAR SECOND YEAR First Semester First Semester Code Subjects Credits BG 2000 English III 3 MGT 1101 Introduction to Business 3 IND 2101 Design Methods 3 IND 2201 Interior Design I 6 IND 2301 History of Interior Design 3 Total 18 Second Semester Code Subjects Credits English IV BG 2001 3 IND 2102 Human Factors 3 IND 2202 Interior Design II 6 IND 2302 **Building Construction** 3 IND 2303 Furniture Production and Fabrication Technology 3 Total 18 Total

Code	Subjects	Credit
IND 3101		
IND 3201	Interior Design III	
IND 3301	Interior Construction	
IND 3302	Interior Material and Technology	
IND 3303	Building System Study	
	Total	1
Second Ser	nester	
Second Ser  Code	nester Subjects	Credit
	Subjects	Credit
Code	Subjects	
Code	Subjects Design Research and	
Code IND 3102	Subjects Design Research and Development	
Code IND 3102 IND 3202	Subjects Design Research and Development Interior Design IV	ng 3
Code IND 3102 IND 3202 IND 3304	Subjects Design Research and Development Interior Design IV Interior Design Proposal and Marketir	Credit ng 3



# PINEAPPLE -OMP

### DEPARTMENT OF PRODUCT DESIGN

#### Objectives:

and Trend Design Methods

Human Factors

Theory and Concept in Design

Design Research and Development

IND 2101 IND 2102

IND 3101

IND 3102

To produce graduates who have the characteristics, knowledge and skills as follows:

- 1. Possess personal, professional, and environmental ethics accepted and approved by the society. 2. Possess product design theoretical knowledge, technical skills, business navigation ability, and professional responsibility sufficient to assume leadership positions in the industry, society and the country.
- 3. Confident in rendering product design services achieved through creative thinking, problem solving, numerical analysis, and appropriate psychomotor skills in the milieu of science and technology while adhering to preservation of arts and culture.
- 4. Possess interpersonal skills and communication skills through the use of information technology, verbal and graphical tools necessary in collaborative environments.

77 Credits

3 3

3 6 6

3

3

3

3

2 6 6

3 3

3

COURSES			Major Requ	uired Courses	77 Cr
A. General Education Courses		30 Credits	PD 1301	Technical Drawing	
Language C	ourses	15 Credits	PD 1302	Design Principles	
			PD 1303	Computer Applications for	
BG 1001	English I	3		Product Design	
BG 1002	English II	3	PD 2201	Product Design I	
BG 2000	English III	3	PD 2202	Product Design II	
BG 2001		3	PD 2301	Model Making	
GE 1403	Communication in Thai	3	PD 2302	History of Art and Design	
or GE 1401	Language and Communication	on Skills	PD 2303	History of Product Design	
	(For International Students)	3	PD 3201	Product Design III	
			PD 3202	Product Design IV	
Social Scien	ce Courses	3 Credits	PD 3301	Material and Manufacturing	
				Processes I	
MGT 1101	Introduction to Business	3	PD 3302	Material and Manufacturing	
				Processes II	
Humanities	Courses	6 Credits	PD 3303	Product Design and Marketin	ig
				Principles	
GS 1004	Art of Delineation	3	PD 3304	Product Design and Marketin	ig
GS 1005	Graphic Presentation	3		Communication	
			PD 3305	Practicum in Product Design	
Science and	Mathematics Courses	6 Credits	PD 4201	Product Design V	
			PD 4202	Senior Project	
BG 1200	Mathematics for Business	3	PD 4301	Individual Study in Product D	esign
GE 1301	Environmental Science	3	PD 4302	Design in Emerging Market	
			PD 4303	Professional Ethics	
B. Specialize	ed Courses	101 Credits			
Core Course	S	18 Credits			
 IND 1101	Visual Design	3			
IND 1102	5	re			

#### Interior Design V Design Management Individual Study in Interior Desig One Major Elective Course

		Second Sen		
Credits		Code	Subjects	Credits
gn	6 3 3	IND 4202 IND 4303	Senior Project Professional Ethics and Practice One Free Elective Course	6 3 3
	3 15		Total	12



FOURTH YEAR

First Semester

Subjects

Total

Code

IND 4201

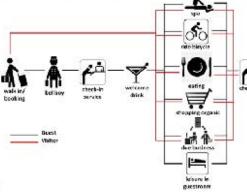
IND 4301

IND 4302



contrast with feeling and material





3

3



6 Credits

6 Credits

#### Major Elective Courses

STUDY PLAN

PD 3401	User Interface Design	3
PD 3402	Graphic and Packaging Design	3
PD 3403	Experience Design for Exhibitions	3
PD 3404	Fashion and Textile Design	3
PD 3405	Jewelry Design	3
PD 3406	Toy and Play Design	3

#### C. Free Elective Courses

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

FIRST YEAR First Semest	er	
Code	Subjects	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
GE 1403	Communication in Thai	3
or GE 1401		Skills
	(For International Students)	
GS 1004	Art of Delineation	_
	Visual Design	3
PD 1301	Technical Drawing	3
	Total	18
Second Sem	nester	
Code	Subjects	Credits
BG 1002	English II	3
GE 1301	Environmental Science	3
GS 1005	Graphic Presentation	3
IND 1102	Introduction to Design Culture	
	and Trend	3
PD 1302	Design Principles	3
PD 1303	Computer Application for Produ	
	Design	3

18

Total



SECOND YE First Semes			THIRD YEAI First Semes		
Code	Subjects	Credits	Code	Subjects	Credits
BG 2000	English III	3	 IND 3101	Theory and Concept in Design	3
IND 2101	5	3	PD 3201	Product Design III	6
PD 2201	Product Design I	6	PD 3301	Material and Manufacturing	
PD 2301	Model Making	3		Process I	3
PD 2302	History of Art and Design	3	PD 3303	Product Design and Marketing	
				Principles	3
	Total	18		One Major Elective Course	3
				Total	18
Second Sen			Second Ser	mester	
Code	Subjects	Credits		Subjects	Credits
BG 2001	English IV	3	 IND 3102	Design Research and Developme	ent 3
IND 2102	Human Factors	3	PD 3202	5	6
PD 2202	Product Design II	6	PD 3302	Material and Manufacturing	
PD 2303	History of Product Design	3		Processes II	3
MGT 1101	Introduction to Business	3	PD 3304	Product Design and Marketing	
				Communication	3
	Total	18	PD 3305	Practicum in Product Design	2
				One Major Elective Course	3
				Total	20



#### FOURTH YEAR First Semester

First Semest	er		Second Sen	nester
Code	Subjects	Credits	Code	Subje
PD 4201 PD 4301 PD 4302	Product Design V Individual Study in Product Desig Design in Emerging Market One Free Flective Course	6  n 3 3 3	PD 4202 PD 4303	Senio Profe One F
	Total	د 15		Total

Second Sem		
Code	Subjects	Credits
PD 4202 PD 4303	Senior Project Professional Ethics One Free Elective Course	6 3 3
	Total	12



## Institute for **English Language Education (IELE)**

The IELE at Assumption University of Thailand envisions itself as the leading institute in English language education and research in Thailand known for its excellence with:

- gualified and professional instructors
- motivated and proficient students
- state-of-the-art courses and technologies
- an international teaching and learning environment



IELE VISION AND MISSION STATEMENTS

The IELE envisions Assumption University students as individuals who:

- · Are linguistically competent and able to communicate effectively in English both in speech and in writing;
- Constantly seek to improve their English language competency;
- Are able to think critically and use English to perform successfully in society;
- Are able to function effectively in a multicultural society and professional environment.

The English courses offered by the IELE aim to enable the students:

- to acquire English language skills in reading, writing, listening and speaking
- to be exposed to World Englishes
- to be able to function successfully in a
- multicultural environment using English.



#### **COURSES OFFERED**

#### Intensive English Program (IEP)

A preparatory English course for incoming freshman students exposing them to a variety of texts and patterns, while focusing on grammar and usage, in order to better prepare and place them in further English language courses

#### Assumption University of Thailand | Institute for English Language Education (IELE)

#### BG 2001 English IV 3 credits

mulating logical and coherent opinions

0 credit

0 credit

#### Prerequisite: BG 2000 English III Advanced English for academic and career purposes, emphasizing critical and analytical skills, and for-

BG 0001, BG 0003Basic English I

A foundation course developing basic language skills, adjusted to accommodate the learning pace of students with various English language backgrounds, as part of an environment that fosters creative and communicative learning to prepare the students for academic English language courses

BG 0002	Basic English II	0 credit

A foundation course developing basic language competence as part of an environment that fosters creative and communicative learning to prepare the students for academic English language courses

BG 1001	English I	3 credits

Lower intermediate academic English, with activities to foster reading, writing, listening and speaking skills in English through communicative activities in a meaningful academic context

BG 1002	English II	3 credits
bg 1002	Englishin	5 creats

Prerequisite: BG 1001 English I

Intermediate academic English, reinforcing fluency and grammar with task-driven oral and writing exercises, developing vocabulary and sentence writing skills with combined reading comprehension exercises and writing practice

#### BG 2000 English III

Prerequisite: BG 1002 English II Advanced English for academic and career purposes, emphasizing organization of ideas and clarity of expression and understanding



3 credits

ACT 1600	Fundamentals of Financial Accounting	3 Credits
Prerequisite:	For Martin de Tours School of Management Students	

Basic accounting conceptual framework, theory and procedures, definition, purpose, usefulness, limitation of accounting information including analysis of business transactions, using basic double-entry system in recording process to complete the accounting cycle: journalizing, posting to the ledgers and preparation of trial balance, adjusting entries, worksheets and closing entries, as well as special journals and preparation of basic financial statements and also including basic accounting theory pertaining to accounting for service and merchandising firms: cash, receivable, merchandise inventory, plant assets, natural resources, intangible assets, investments, liabilities, owner's equity, and principle of voucher system

ACT 1601	Fundamentals of Financial Accounting	3 Credits
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Basic accounting theory and procedures for service and merchandising firms by using double-entry system, completing accounting process: journalizing, posting to the ledgers, preparation of trial balance, adjusting entries, worksheet and closing entries, as well as preparation and presentation of basic financial statements.

ACT 1602 Prerequisite:	Fundamentals of Financial Accounting I For Science & Technology Students	3 Credits
Basic accounting theory and procedures for service and merchandising firms by using double-entry system, con pleting accounting process: journalizing, posting to the ledgers, preparation of trial balance, adjusting entries, worl sheet and closing entries, as well as preparation and presentation of basic financial statements.		ance, adjusting entries, work-

ACT 1603	Fundamentals of Financial Accounting II	3 Credits
Prerequisite:	ACT 1602 Fundamentals of Financial Accounting I	
	(For Science & Technology Students)	

Basic accounting theory pertaining to accounting for cash, receivable, merchandise inventory, plant assets, natural resources, intangible assets, investments, liabilities, owner's equity, principle and method of voucher system, as well as financial statements to portray corporate financial position, operating results, cash flows, and financial strength.

ACT 2620	Fundamentals of Managerial Accounting	3 Credits
Prerequisite:	ACT 1600 Fundamentals of Financial Accounting	

Role that managerial accounting plays in servicing informational needs of managers in planning, organizing and controlling through study of systematic structuring of business decisions and identifying the information relevant to decision making, profit planning, cost-volume-profit analysis, responsibility accounting , preparation statement of cash flows and segment report

ACT 3602	Intermediate Accounting I	3 Credits
Prerequisite:	ACT 1600 Fundamentals of Financial Accounting	

Accounting conceptual framework, accounting principles, practices and problems of accounting for assets: definition, classification, recognition, measurements, valuation, impairment of assets, presentation and disclosure of assets in statement of financial position, accounting for cash, marketable securities, notes receivable, accounts receivable, merchandise inventory, investments, tangible and intangible assets, natural resources, different methods of depreciation, difference between capital and revenue expenditure, and preparation and presentation of financial statements in detail and good format

ACT 3603	Intermediate Accounting II	3 Credits
Prerequisite:	ACT 1600 Fundamentals of Financial Accounting	

Accounting principles and practices in accounting for current liabilities, non-current liabilities and owner's equity: definition, classification, recognition, measurements, valuation, presentation and disclosure on financial statements, accounting for partnership: organization, operation, dissolution, liquidation, financial statements preparation and presentation, accounting for corporation: organization, issuance of stock, increase and decrease of capital, additional paid-in capital, earnings per share, retained earnings, appropriated retained earnings, liquidation, and statements of change in shareholders' equity and retained earnings statement preparation and presentation, accounting for lease

## Course Description Academic Year 2015

ACT 3606	Public Sector and Fund Accounting	3 Credits
Prerequisite:	ACT 1600 Fundamentals of Financial Accounting	

System and procedure of governmental and state enterprise accounting, national budget system, government's financial management, national budget, financial funds, governmental and fund accounting systems, controlling function of the National Audit Council and the Comptroller General Department, national financial statements, accounting of municipalities and other government agencies, state enterprise accounting, fund accounting of foundations, and educational institutions

ACT 3608	Financial Report and Financial Statement Analysis	3 Credits
Prerequisites:	ACT 2620 Fundamentals of Managerial Accounting	
	FIN 3701 Corporate Finance	

Reading and interpreting financial statements, analyzing, criticizing departmental financial matters, stockholders' equity, investment, capital expansion, and division of profit, analysis and interpretation of financial statements, techniques employed in financial statement analysis, presentation of reports to stockholders and interested public, the principles employed in analyzing assets from the viewpoint of investment, profitability and other factors that affect price of securities, forecasting and analysis of security market environment, and critical problem solving

ACT 3614	Taxation I	3 Credits
Prerequisite:	BG 1401 Business Law II	

Factors relating to taxes paid by individuals and business enterprises: principles and features of taxation according to Revenue Codes; methods of various tax liability appraisal and collection such as personal income tax, corporate tax, business tax, custom, excise tax, duties and stamps, and other kinds of taxes involved in business

ACT 3615	Taxation II	3 Credits
Prerequisites:	ACT 1600 Fundamentals of Financial Accounting	
	ACT 3614 Taxation I	

Types of business firms that must prepare accounting in compliance with law and regulations of Revenue Codes including the comparative study of preparing accounting based on Generally Accepted Accounting Principles and based on Revenue Codes, principles for determining income tax for both personal and corporate income taxes, withholding tax, value added tax, special business tax, custom, excise tax, duties and stamps, accounting principles for taxable revenue and expense, including valuation of assets and liabilities, and depreciation in calculation of taxable income and practical problems related to tax accounting

ACT 3622	Cost Accounting	3 Credits
Prerequisite:	ACT 2620 Fundamentals of Managerial Accounting	

Cost concepts, cost terms, definition, importance and usefulness of cost accounting information for planning and controlling under certain and uncertain circumstances, cost accumulation, techniques in cost analysis, preparing production cost reports, accounting procedures for raw materials, labor and overhead costs as well as various cost accounting approaches: job-order accounting, process costing, joint-product and by-product costs, spoilage, waste, defect, and scrap, cost control by means of standard costs; analysis of variances; cost volume profit relationship; variable costing system; budgeting and planning; pricing and transfer price; and activity base costing

ACT 3623	Cost Management	3 Credits
Prerequisite:	ACT 3622 Cost Accounting	

Cost concepts and scope of using cost accounting information for managerial planning and production control, analysis of costs for decision-making, including the use of such information for product pricing, mixed cost, absorption costing, direct costing, variable cost, fixed cost, cost volume-profit analysis, variance analysis, performance evaluation, transfer pricing, capital expenditure planning, manufacturing expenses control, measurement and control of various work units

ACT 3624	Real Estate Accounting	3 Credits
Prerequisite:	ACT 3622 Cost Accounting	

Accumulation and selection of data; record analysis, and preparation in report format to conform to real estate accounting standard, laws and other pertinent laws of Thailand for investors, investment firms, housing projects, speculators, real estate agencies, condominium cooperatives, real estate developers and financial institution real estate portfolios, various expense allocation systems, analysis of variances against projected expenditures, including use of the case method

ACT 3625	Hospital Accounting	3 Credits
Prerequisite:	ACT 3622 Cost Accounting	

Accumulating, recording, interpreting accounting data and preparation of reports on various hospital procedures (including medical service functions and institutions such as polyclinics and nursing homes) both for the public and private sectors of hospitals, and rules and regulations governing the accounting of health services in Thailand

ACT 3626	Hotel Accounting	3 Credits
Prerequisite:	ACT 1600 Fundamentals of Financial Accounting	

Accumulation of data and preparation of reports on the performance of various hotel functions: room rentals, food and beverage, including indoor, banquet and outdoor catering, entertainment, laundry and other services, foreign exchange, arcade rental income and other franchise income such as limousine rentals, parking, exhibition stalls, sauna and health clubs, massage parlors, sports centers, control systems, periodical performance appraisals and analysis of variances for corrective action

ACT 3629	Profit Planning and Control	3 Credits
Prerequisite:	ACT 2620 Fundamentals of Managerial Accounting	

Process in preparing budgets for managerial planning and control: procedures for various types of budgets such as cash budgeting, capital budgeting, sales budgets, production budgets, interrelationship among budgets, cost-volume-profit analysis and other related topics

ACT 3643	Auditing	3 Credits
Prerequisite:	ACT 3602 Intermediate Accounting I	
or	ACT 3603 Intermediate Accounting II	

Auditing conceptual framework, standards, law and professional acts, roles and responsibilities of external auditors, accepting auditing jobs, professional ethics and accountability, audit planning, fraud and errors in auditing process, auditing reports and procedures: assets, liabilities, owners' equity, revenue and expenses, internal control, risk assessments, risk control as well as audit decision making and evidence accumulation, preparation of working paper, auditor's report, and guidelines on auditing by computer

ACT 3644	Internal Control and Audit	3 Credits
Prerequisite:	ACT 3602 Intermediate Accounting I	
or	ACT 3603 Intermediate Accounting II	

Performance of an internal audit in terms of an independent appraisal function which serves to examine and evaluate the adequacy and effectiveness of an organization's system on internal control and its overall quality of performance, furnishing top management with analysis, appraisals, recommendations, counsel, and information concerning the activities audited, internal auditing process, internal auditing skills, management control and information technology, and audit environment

ACT 4605	International Accounting	3 Credits
Prerequisite:	ACT 1600 Fundamentals of Financial Accounting	
	ACT 2620 Fundamentals of Managerial Accounting	

Accumulation and recording of accounting data for business firms with multinational presence, including analysis and reporting of these by function, products, product lines and by country/location for proper presentation of operational results to top management, and update of International Financial Reporting Standard- -IFRS, interpretation of IFRS and accounting applied in Asian countries

ACT 4607	Advanced Accounting I	3 Credits
Prerequisites:	ACT 3602 Intermediate Accounting I	
	ACT 3603 Intermediate Accounting II	

Specific accounting procedures: joint venture, consignment sale, installment sale, real estate, construction contract, funds accounting, not for profits organization, home office and branch accounting for both domestic and foreign countries, accounting procedures regarding currency exchange, accounting policy, change in accounting estimate, correction of errors, and preparation of financial statements from incomplete records

ACT 4608 Prerequisites:	Advanced Accounting II ACT 3602 Intermediate Accounting I ACT 3603 Intermediate Accounting II	3 Credits	ACT 4647 Prerequisites:	Accounting Software Package ACT 4646 Accounting Information Systems BIS 2180 Information Technology	3 Credits
preparation of consol of affairs, receivership ration statement of cl	and methods for business combination, investment in asso idated financial statements, statement of realization and liqu s, accounting for foreign currency translation, accounting for hange in stockholders' equity, comprehensive income statem d consolidated statements	idation, accounting for statement trouble debt restructuring, prepa-	purchasing, selling, i applications from the	ter software applications in accounting, including the systems of nventory, payroll, financial reporting and other means of reports designing of the chart of accounts, entering data, as well as the available for the needs of management for decision-making	, process of using software
ior both separated and	consolidated statements		ACT 4648	EDP Auditing	3 Credits
ACT 4609	Accounting Theory	3 Credits	Prerequisites:	ACT 3643 Auditing	
Prerequisites:	ACT 3602 Intermediate Accounting I ACT 3603 Intermediate Accounting II			BIS 2180 Information Technology	
holistic accounting sys counting history, alter	and concept of accounting, emphasis on comprehensive the stems, definitions and nature of the accounting and accountin rnative accounting theories and the role of theories in financia ner's equity, revenues including information disclosure in financ	g theories, theory verification, ac- I accounting and standard setting	in an enterprise to en of fundamental conce	work in terms of examining and analyzing computerized financial nsure the integrity and reliability of the computerized systems, und epts of EDP audit, computer audit tools and techniques used in EE and micro-computer systems, EDP controls, and concurrent auditing to	lerstanding and appreciation DP audit, importance of contrance of cont
ACT 4611 Prerequisite:	Seminar in Accounting ACT 4607 Advanced Accounting I	3 Credits	ACT 4649 Prerequisites:	Accounting Internship (135 Hours) Senior standing (Accounting Major) Completion of at least 100 credits	3 Credits
temporary, new, curre lated to generally acc of code of conduct, c	sis of using accounting conceptual framework and standard ent, interesting accounting issues, updating new accounting cepted accounting principles in both international and nation code of best practice, and code of accounting professional et managerial accounting and related field, using case study,	) standards, rules, regulations re- ial levels, concepts and principles nics, practical problems in field of	edge and skills from	c practice in organization of at least 135 hours, providing opportunit the real-world of Accounting profession, application of accounting t nalyzing, synthesizing and problem solving in accounting profession u Principles of Marketing Communication	theory and concept, enhanc
research			Prerequisite:	MKT 2280 Principles of Marketing	
ACT 4612 Prerequisite:	Independent Study Senior standing (Accounting Major)	3 Credits		is in communication and marketing communication process, inclu- the relations of advertising, public relations, sales promotion, sales	
specific area of conce	tical concepts to the real problems of any organization in a ntration will be chosen by students upon consultation with a report must be submitted and a presentation must be made		AD 3102 Prerequisite:	Advertising Media Planning CA 2018 Consumer Insight	3 Credits
ACT 4624 Prerequisite:	Seminar in Management Accounting ACT 3623 Cost Management	3 Credits	timing and media co	focuses on the quality and benefit of media suited to the purposist in buying efficiently, including survey of strategies of advertisi ation of assessment, frequency and rates to reach the target audience,	ng media planning, creative
work units involved in	the cost accounting system design, relationship, understand a data collection and analysis for the purpose of designing a the application of cost accounting concepts to various work syst	cost accounting system, as well as	AD 3103 Prerequisite:	Advertising Creative Strategy CA 2018 Consumer Insight	3 Credits
ACT 4641 Prerequisite:	Problems in Auditing ACT 3643 Auditing	3 Credits	ment of advertising f	agement and creation of advertisement for print, radio and telev om definition to creation of advertising strategy, from creative strat t, radio, television, film and poster.	
ent types of industrie	ns in auditing, use of accounting principles in auditing finances, and statements of certified public accountant institutes th sider, using case study analysis in teaching and learning		AD 3106 Prerequisite:	Art Direction CA 2004 Introduction to Advertising	3 Credits
ACT 4643 Prerequisite:	Seminar in Auditing ACT 4641 Problems in Auditing	3 Credits		ment of basic art skills, its impact in terms of color combination, la both print and TV on effective advertising.	yout format, typography and
	problems, principles and practices in auditing accounts, leg g the current issues related to auditing	al aspects in auditing, and other	AD 3112 Prerequisite:	Brand Communication AD 3101 Principles of Marketing Communication	3 Credits
ACT 4646 Prerequisites:	Accounting Information Systems ACT 3643 Auditing ACT 3644 Internal Control and Audit	3 Credits		es of brand communication, brand positioning and repositioning, tegrated brand communications, including current topics of branding.	brand equity measurement,
	I procedures of the accounting information system including evelopment and documentary techniques as well as the cor		AD 3113 Prerequisite:	Customer Relationship Management AD 3101 Principles of Marketing Communication	3 Credits
controls, computer fra	ind and its security, the design of data flow diagrams and systic as revenue, expenditure and production cycle, payroll cycle a	em flowchart, accounting cycle of		nd applications of direct database and e-commerce marketing straketing, integration of online and offline marketing strategies, and	

AD 3114 Prerequisite:	Interactive Advertising and Marketing Communication CA 2004 Introduction to Advertising	3 Credits
Implementation of inte	eractive advertising and marketing communication, including the identication of the id	
AD 3115 Prerequisite:	5	3 Credits
Issues of international	and cross cultural communication campaign, overview of cultural, levant to international communication.	economic, legal, politica
AD 3116 Prerequisite:	Account Planning CA 2004 Introduction to Advertising	3 Credits
Roles of account planr	ning in advertising agency in terms of aligning strategy throughour lated documents such as advertising brief, presentation, and budget allo	
AD 3117 Prerequisite:	Advertising and Popular Culture CA 2004 Introduction to Advertising	3 Credits
Development of advert	tising in relations to culture and popular culture, ideologies and val luding influence of advertising on consumers and vice versa.	ues based on cultural as-
AD 3118 Prerequisite:	Selected Topics in Advertising CA 2004 Introduction to Advertising	3 Credits
Exploration and analysis	s of selected topics in advertising. The topic will be announced semester l	by semester.
Exploration and analysis AD 3119 Prerequisite:	s of selected topics in advertising. The topic will be announced semester l Advertising and Marketing Communication Research CA 3011 Communication Arts Research	3 Credits
AD 3119 Prerequisite: Warious roles of advert	Advertising and Marketing Communication Research	3 Credits nd communication, impli-
AD 3119 Prerequisite: Various roles of advert cation of research met campaign planning. AD 4100	Advertising and Marketing Communication Research CA 3011 Communication Arts Research ising and marketing communication research in advertising and brai chodology and process, including conducting quantitative and quali Seminar in Advertising	3 Credits nd communication, impli-
AD 3119 Prerequisite: Various roles of advert cation of research met campaign planning. AD 4100 Facts and conditions ir	Advertising and Marketing Communication Research CA 3011 Communication Arts Research ising and marketing communication research in advertising and brai chodology and process, including conducting quantitative and quali Seminar in Advertising n relation to problems, concerns and ethical issues in advertising, tre nunication tools, including analyzing the current situations and propo	3 Credits nd communication, impli- tative research as part of 3 Credits ends and new possibilities
AD 3119 Prerequisite: Various roles of advert cation of research met campaign planning. AD 4100 Facts and conditions ir of advertising as comm	Advertising and Marketing Communication Research CA 3011 Communication Arts Research ising and marketing communication research in advertising and brai thodology and process, including conducting quantitative and quali Seminar in Advertising melation to problems, concerns and ethical issues in advertising, tre nunication tools, including analyzing the current situations and propo ituations. Advertising Workshop I CA 3011 Communication Arts Research	3 Credits nd communication, impli- tative research as part of 3 Credits ends and new possibilities
AD 3119 Prerequisite: Various roles of advert cation of research met campaign planning. AD 4100 Facts and conditions ir of advertising as comm opportunities for such si AD 4101 Prerequisites: Co-requisite:	Advertising and Marketing Communication Research CA 3011 Communication Arts Research ising and marketing communication research in advertising and brai thodology and process, including conducting quantitative and quali Seminar in Advertising melation to problems, concerns and ethical issues in advertising, tre- nunication tools, including analyzing the current situations and propo- ituations. Advertising Workshop I CA 3011 Communication Arts Research AD 3101 Principles of Marketing Communication AD 4104 Advertising and Marketing Communication Manageme	3 Credits nd communication, impli- tative research as part of 3 Credits ends and new possibilities using possible solutions of 3 Credits
AD 3119 Prerequisite: Various roles of advert cation of research met campaign planning. AD 4100 Facts and conditions in of advertising as comm opportunities for such si AD 4101 Prerequisites: Co-requisite: Training in advertising	Advertising and Marketing Communication Research CA 3011 Communication Arts Research ising and marketing communication research in advertising and brai chodology and process, including conducting quantitative and qualit Seminar in Advertising metation to problems, concerns and ethical issues in advertising, tree nunication tools, including analyzing the current situations and propo ituations. Advertising Workshop I CA 3011 Communication Arts Research AD 3101 Principles of Marketing Communication	3 Credits nd communication, impli- tative research as part of 3 Credits ands and new possibilities osing possible solutions of 3 Credits att analysis of data, planning
AD 3119 Prerequisite: Various roles of advert cation of research met campaign planning. AD 4100 Facts and conditions ir of advertising as comm opportunities for such si AD 4101 Prerequisites: Co-requisite: Training in advertising of marketing promotion AD 4102	Advertising and Marketing Communication Research CA 3011 Communication Arts Research ising and marketing communication research in advertising and braithodology and process, including conducting quantitative and quality Seminar in Advertising metation to problems, concerns and ethical issues in advertising, tree nunication tools, including analyzing the current situations and propo- ituations. Advertising Workshop I CA 3011 Communication Arts Research AD 3101 Principles of Marketing Communication AD 4104 Advertising and Marketing Communication Manageme and communication planning through the study of marketing trends, Students will be trained to work as advertising agency under the super-	3 Credits nd communication, impli- tative research as part of 3 Credits ands and new possibilities osing possible solutions of 3 Credits att analysis of data, planning
AD 3119 Prerequisite: Various roles of advert cation of research met campaign planning. AD 4100 Facts and conditions in of advertising as comm opportunities for such si AD 4101 Prerequisites: Co-requisite: Training in advertising of marketing promotion	Advertising and Marketing Communication Research CA 3011 Communication Arts Research ising and marketing communication research in advertising and braithodology and process, including conducting quantitative and quality Seminar in Advertising metation to problems, concerns and ethical issues in advertising, tree nunication tools, including analyzing the current situations and propo- ituations. Advertising Workshop I CA 3011 Communication Arts Research AD 3101 Principles of Marketing Communication AD 4104 Advertising and Marketing Communication Manageme and communication planning through the study of marketing trends, Students will be trained to work as advertising agency under the super- Advertising Workshop II CA 3011 Communication Arts Research AD 4101 Advertising Workshop II	3 Credits nd communication, impli- tative research as part of 3 Credits ands and new possibilities osing possible solutions of 3 Credits a Credits analysis of data, planning vision of the instructor.
AD 3119 Prerequisite: Various roles of advert cation of research met campaign planning. AD 4100 Facts and conditions ir of advertising as comm opportunities for such si AD 4101 Prerequisites: Co-requisite: Training in advertising of marketing promotion AD 4102 Prerequisites: Co-requisite:	Advertising and Marketing Communication Research CA 3011 Communication Arts Research ising and marketing communication research in advertising and braithodology and process, including conducting quantitative and quality Seminar in Advertising metation to problems, concerns and ethical issues in advertising, tree nunication tools, including analyzing the current situations and propo- ituations. Advertising Workshop I CA 3011 Communication Arts Research AD 3101 Principles of Marketing Communication AD 4104 Advertising and Marketing Communication Manageme and communication planning through the study of marketing trends, Students will be trained to work as advertising agency under the super- Advertising Workshop II CA 3011 Communication Arts Research	3 Credits nd communication, impli- tative research as part of 3 Credits ands and new possibilities osing possible solutions of 3 Credits a Credits analysis of data, planning vision of the instructor.
AD 3119 Prerequisite: Various roles of advert cation of research met campaign planning. AD 4100 Facts and conditions ir of advertising as comm opportunities for such si AD 4101 Prerequisites: Co-requisite: Training in advertising of marketing promotion AD 4102 Prerequisites: Co-requisite:	Advertising and Marketing Communication Research CA 3011 Communication Arts Research ising and marketing communication research in advertising and braithodology and process, including conducting quantitative and quality Seminar in Advertising metation to problems, concerns and ethical issues in advertising, tree nunication tools, including analyzing the current situations and propo- ituations. Advertising Workshop I CA 3011 Communication Arts Research AD 3101 Principles of Marketing Communication AD 4104 Advertising and Marketing Communication Manageme and communication planning through the study of marketing trends, Students will be trained to work as advertising agency under the super Advertising Workshop I CA 3011 Communication Arts Research AD 4101 Advertising Workshop I Advertising Workshop II CA 3011 Communication Arts Research AD 4101 Advertising Workshop I AD 4115 Campaign Planning and Management	3 Credits nd communication, impli- tative research as part of 3 Credits ands and new possibilities using possible solutions of 3 Credits analysis of data, planning vision of the instructor. 3 Credits

AD 4104 Co-requisite:	Advertising and Marketing Communication Management AD 4101 Advertising Workshop I	3 Credits
Management of personal and advertising and mark	and non-personal communication in marketing process, functions eting communication departments of large business firms, account eration of advertising and marketing communication effectiveness.	
AD 4107 Prerequisite:	Basic Copywriting (Thai) AD3101 Principles of Marketing Communication	3 Credits
Copywriting in Thai throu	igh analysis of effectiveness of advertisements in the media, signif ely applied, and practice in the art of copywriting in Thai.	icant characteristics c
AD 4108 Prerequisite: or	Basic Copywriting (English) AD3101 Principles of Marketing Communication MKT 2280 Principles of Marketing (For Marketing students)	3 Credits
Copywriting in English the	rough analysis of effectiveness of advertisements in the media, sig ately applied, and practice in the art of copywriting in English.	gnificant characteristic
AD 4111 Prerequisite:	Advanced Brand Communication AD 3112 Brand Communication	3 Credits
Analysis of branding issue	es and concepts arisen from problems with its improper usage in conception and product level, brand equity, and brand communication and product level, brand equity, and brand communication and product level.	
AD 4115 Prerequisite:	Campaign Planning and Management AD 4104 Advertising and Marketing Communication Management AD 4102 Advertising Workshop II	3 Credits
Lo-requisite:	5 · · · · · · · · · · · · · · · · · · ·	
Planning and Managemen	t of advertising campaign planning, including integration of various , selections and measurement of campaign effectiveness.	communication tool
Planning and Managemen	t of advertising campaign planning, including integration of various	s communication tool: 3 Credits
Planning and Managemen media strategy formulation AD 4122 Prerequisite: Non-traditional formal cha to targeted consumers, mo	t of advertising campaign planning, including integration of various , selections and measurement of campaign effectiveness. Direct Communication Campaign Management	3 Credits t advertising campaig
Planning and Managemen media strategy formulation AD 4122 Prerequisite: Non-traditional formal cha to targeted consumers, mo service in order to develop of AD 4123	t of advertising campaign planning, including integration of various , selections and measurement of campaign effectiveness. Direct Communication Campaign Management AD 3101 Principles of Marketing Communication nnels of advertising that is designed to present well-executed direct ethods of direct communication that widens customer experience to	3 Credits t advertising campaig
Planning and Managemen nedia strategy formulation AD 4122 Prerequisite: Non-traditional formal cha o targeted consumers, mo ervice in order to develop AD 4123 Prerequisites: ntegration of various com channel planning, and ch	t of advertising campaign planning, including integration of various , selections and measurement of campaign effectiveness. Direct Communication Campaign Management AD 3101 Principles of Marketing Communication nnels of advertising that is designed to present well-executed direct ethods of direct communication that widens customer experience to customer value and to accomplish marketing success. Marketing Channel Communication CA 2004 Introduction to Advertising MKT 2280 Principles of Marketing munication processes and interactions between manufacturers and annel communication management, principles and practices of marketing success.	3 Credits t advertising campaig owards the product o 3 Credits middlemen, includin
Planning and Managemen media strategy formulation AD 4122 Prerequisite: Non-traditional formal cha to targeted consumers, mo service in order to develop AD 4123 Prerequisites: Integration of various com channel planning, and ch munication management ir AE 1101 Theory of Single-Er	t of advertising campaign planning, including integration of various , selections and measurement of campaign effectiveness. Direct Communication Campaign Management AD 3101 Principles of Marketing Communication nnels of advertising that is designed to present well-executed direct ethods of direct communication that widens customer experience to customer value and to accomplish marketing success. Marketing Channel Communication CA 2004 Introduction to Advertising MKT 2280 Principles of Marketing annel communication management, principles and practices of man advertising campaign.	3 Credits t advertising campaig owards the product o 3 Credits middlemen, includin
Planning and Managemen media strategy formulation AD 4122 Prerequisite: Non-traditional formal cha to targeted consumers, mo service in order to develop AD 4123 Prerequisites: Integration of various com channel planning, and ch munication management ir AE 1101 Theory of Single-Er Prerequisite Prerequisite Prerequisite	t of advertising campaign planning, including integration of various selections and measurement of campaign effectiveness. Direct Communication Campaign Management AD 3101 Principles of Marketing Communication mnels of advertising that is designed to present well-executed direct ethods of direct communication that widens customer experience to customer value and to accomplish marketing success. Marketing Channel Communication CA 2004 Introduction to Advertising MKT 2280 Principles of Marketing munication processes and interactions between manufacturers and nannel communication management, principles and practices of man advertising campaign.	3 Credits t advertising campaig owards the product of 3 Credits middlemen, including arketing channel com 3 Credits ght Inspection, Entry
Planning and Managemen media strategy formulation AD 4122 Prerequisite: Non-traditional formal cha to targeted consumers, mo service in order to develop of AD 4123 Prerequisites: Integration of various com channel planning, and ch munication management ir AE 1101 Theory of Single-Er Prerequisite Pilot's Operation Handbo .eave Training Area, Patte Brief Mission Card, METAR, T AE 1100	t of advertising campaign planning, including integration of various selections and measurement of campaign effectiveness. Direct Communication Campaign Management AD 3101 Principles of Marketing Communication mnels of advertising that is designed to present well-executed direct ethods of direct communication that widens customer experience to customer value and to accomplish marketing success. Marketing Channel Communication CA 2004 Introduction to Advertising MKT 2280 Principles of Marketing munication processes and interactions between manufacturers and nannel communication management, principles and practices of man n advertising campaign. ngine Flight AE 1100 Single-Engine – Ground Mok (POH), Standard Operating Procedure (SOP), Checklist, Preflig- rm T/G, Taxi Check, NAV Check, Turn and Slip Check, Flight Contro TAF, Flight Plan, NOTAM before Flight Core Flying: Single-Engine Flight – Ground	3 Credits t advertising campaig owards the product of 3 Credits middlemen, includin arketing channel com 3 Credits ght Inspection, Entry
Planning and Managemen media strategy formulation AD 4122 Prerequisite: Non-traditional formal cha to targeted consumers, me service in order to develop AD 4123 Prerequisites: Integration of various com channel planning, and ch munication management in AE 1101 Theory of Single-Er Prerequisite Prerequisite Prote Soperation Handbo Leave Training Area, Patte Brief Mission Card, METAR, T AE 1100 Regulations, safety, pre-solo	t of advertising campaign planning, including integration of various selections and measurement of campaign effectiveness. Direct Communication Campaign Management AD 3101 Principles of Marketing Communication mnels of advertising that is designed to present well-executed direct ethods of direct communication that widens customer experience to customer value and to accomplish marketing success. Marketing Channel Communication CA 2004 Introduction to Advertising MKT 2280 Principles of Marketing munication processes and interactions between manufacturers and nannel communication management, principles and practices of man a dvertising campaign. ngine Flight AE 1100 Single-Engine – Ground mok (POH), Standard Operating Procedure (SOP), Checklist, Preflight rm T/G, Taxi Check, NAV Check, Turn and Slip Check, Flight Contro TAF, Flight Plan, NOTAM before Flight	3 Credits t advertising campaig owards the product of 3 Credits middlemen, includin arketing channel com 3 Credits ght Inspection, Entry d Check and Air Worl

AE 1910	Problem-based Training in Aircraft Maintenance I	1 credit
	engineering and training at the actual work site.	
AE 1911	Problem-based Training in Aircraft Maintenance II	1 credit
	engineering and training at the actual work site.	
AE 1920	Problem-based Training in Aircraft Maintenance III	1 credit
	engineering and training on the actual work site.	
AE 2100 Prerequisite:	Basic Flying: Single/Multi-Engine - Ground AE 1100 Core-Flying: Single-Engine Flight–Ground	3 credits
	, safety, operations, navigation systems, chart use, weather, flight plar	ining, decision-
AE 2200 Prerequisite:	Basic Flying: Single/Multi-Engine-Flight l AE 1200 Core Flying: Single-Engine-Flight	1 credit
	rding to AE 2100 Basic Flying: Single/Multi-Engine – Ground	
	Basic Flying: Single/Multi-Engine-Flight II AE 2200 Basic Flying: Single/Multi-Engine-Flight I AE 2202 Basic Flying: Multi-Engine Operations	3 credits
	rocedures required for instrument flight test in order to be endorsed v	vith instrument
AE 2202 Prerequisite:	Basic Flying: Multi-Engine Operations AE 1100 Core Flying: Single-Engine Flight – Ground	2 credits
	gine aerodynamics, maneuvers and procedures, engine-out operations	, safety, opera-
AE 2203 Prerequisite:	Basic Flying: Operational Procedures AE 1100 Core Flying: Single-Engine Flight – Ground	1 credit
	ed to the safe operations of flight, operational procedures prescribed in and international aviation law.	ICAO annex 6:
AE 2300 Prerequisite:	Basic Flying: Flight Communications AE 1100 Core Flying: Single-Engine Flight – Ground	1 credit
Radio Telephony (RT) commu	inications which lie at the base of procedural flying in the professsiona ies and terminologies used in international aviation environment.	
AE 2401 Prerequisite:	Basic Flying: Air Law AE 1100 Core Flying: Single-Engine Flight – Ground	3 credits
International air law, JAR-OPS	1 and ICAO documents and annous relevant to interactional convert	ons and agree-
ments.	i and ICAO documents and annexes relevant to international conventi	

English language used in aviation communications, practice of the reading skill to fully understand Route Manual and Flight Operations Manual, practice of ATC and radiotelephony exchange, the functionally created statements, questions and responses in English as required by the nature of the job and responsibility in both oral and written forms, including communication in English with ATC by using correct structures and pronunciation patterns in order to be understood by both native and non-native speakers of English.

AE 2501	Maintenance English I	1 credit
	English which is used in maintenance, and technical terms for maint	enance.
AE 2502	Maintenance English II	1 credit
	aintenance related to components and systems of aircraft, readin nents.	ng of technical document
AE 2700	Fundamental Aircraft: Propulsion Theory	2 credits
ntroduction to basic fu	ndamental theory of aerospace propulsion system, background in opulsion systems for aerospace applications to design, developments.	
AE 2701	Fundamental Aircraft: Aircraft Engine	3 credits
Basic fundamental theo piston and gas turbine	ry of piston and gas turbine engine, thermodynamics, mathemat engine, the working cycle of this heat engine, Basic Gas Turbir urgy and Cooling ,Gas Turbine Main Auxiliaries, Gas Turbine Safe urbine Maintenance.	ne Design, Gas Turbine As
AE 2702	Fundamental Aircraft: Aerodynamics	2 credits
	ation, namely fluid dynamics, introduction to flight, flight dynamic rd.	s, types of aircraft and be
AE 2703	Fundamental Aircraft: Aircraft Structure	3 credits
	both theory of basic structure and strength of material, including	fatigues and component
AE 2704	Fundamental Aircraft: Aircraft Material	3 credits
	knowledge of aircraft material, types of material especially compo nd fixing.	osite material including the
AE 2705	Fundamental Aircraft: Aircraft Performance	3 credits
Fundamentals of propel	lers and jet aircraft performance, equation of motion, level flight, sed on FAA requirement.	gliding, climbing including
AE 2901	Fundamental Aircraft: Practical Verification	1 credit
Practice of the theoreti given.	cal knowledge in "Fundamental Aircraft". The practical assignment	ent related to the topic i
AE 3200 Prerequisite:	Intermediate Flying: Flight Simulator Training Device I AE 1200 Core Flying: Single-Engine Flight - Flight	1 credit
	ources management, development of Threat and Error Managen GOPs), application of knowledge to the flight training by showing	competency in flying tech
	of flying method and also basic automatic flight by using correct lator.	basic of flying and flying

Training Device I Training in cockpit resources management, development of Threat and Error Management (TEM) skills, the Standard Operating Procedures (SOPs), application of knowledge to the flight training by showing competency in flying techniques, basic concept of flying method both in normal and non-normal flight procedures and also basic automatic flight by using correct basic of flying and flying techniques in flight simulator.

	AE 3301 Intermediate Flying: General Navigation AE 3502 Intermediate Flying: Radio Navigation				
anding of the aircraft whic				omprise of the essential components of the modern aircraft, every part o ucture, hydraulic, fuel, air conditioning, anti-icing and flight-control system	
	nd regulations stated in Route Manual for all phases of flight from pre-flig		equipment and landing	gear.	
	:h include pre-flight planning, en-route charts, approach and landing chart ations and information.	s, meteorological	AE 3501	Intermediate Flying: Power Plants and Instrumentations	3 credits
			Prerequisite:	AE 1100 Core Flying: Single-Engine Flight – Ground	
AE 3301 Prerequisite:	Intermediate Flying: General Navigation AE 1100 Core Flying: Single-Engine Flight – Ground	3 credits		jine operation considerations as well as recognition of engine malfunctions equipment and automatic flight control systems.	s, flight instrument
All aspects of classical air r and related charts for naviga	navigation from basic pilot navigation to advanced plotting, use of flight ation.	computers, maps	warning and recording	equipment and automatic night control systems.	
AE 3302 Prerequisite:	Intermediate Flying: Flight Performance and Planning I AE 1100 Core Flying: Single-Engine Flight – Ground	3 credits	AE 3502 Prerequisite:	Intermediate Flying: Radio Navigation AE 1100 Core Flying: Single-Engine Flight – Ground	3 credits
anced for safe and efficien	to enable the pilot and future captain to check that an aircraft is correctly at operations which include theories required to operate an aircraft safely , descent and landing, as well as typical aircraft types.			ties available for the navigation of aircraft during departure, en-route and sed for the control of aircraft and for in-flight safety, and the latest Global	
AE 3303 Prereguisite:	Intermediate Flying: Flight Performance and Planning II AE 3302 Intermediate Flying: Flight Performance and Flight Planning I	3 credits	AE 3511	Aircraft System: Aircraft Communications	1 credit
	AE 3500 Intermediate Flying: Airframes and Aircraft Systems			undamental theory of communication technology, communication equipments we chart and how to understand the communication system.	ent and systems u
Practical flight planning in planning such as the weathe	struction based upon aircraft such as the Boeing and Airbus, as well as er factor.	aspects of flight	AE 3512	Aircraft System: Ground Support Equipment	2 credits
AE 3304	Intermediate Flying: Meteorology	3 credits	Types of Ground Supp how to handle and pr	port Equipment (GSE) which are used to support during conducting mai ovide maintenance to GSE, units such as airline or maintenance compan	ntenance, includin y to be responsib
	v and its application to flight operations, meteorology and weather foreca ety, how weather-related, in-flight hazards arise and how they should be p		for GSE. AE 3513	Aircraft System: Non-Destructive Inspection	3 credits
AE 3310	Aircraft Maintenance: Maintenance Human Factor	1 credit		nethods of Non-Destructive Inspection (NDI) used for aircraft structures,	level of NDI, tech
actors that might cause c	lamage in maintenance, theory of human behavior and proactive model i	ncluding how to	nique and tools.		
void accidents during mair	ntaining aircraft and maintenance safety.		AE 3600	Advanced Flying: Multi-Engine Turbine – Ground	3 credits
AE 3311	Aircraft System: Technical Document System	3 credits	Prerequisite:	AE 3201 Intermediate Flying: Flight Simulator Training Device II AE 3300 Intermediate Flying: Route Manual and Pilot Applications	
	ng aircraft manual, service letters, service bulletin and other issued docui ystem for working in maintenance.	ments, which are		AE 3303 Intermediate Flying: Flight Performance and Flight Planning AE 3501 Intermediate Flying: Power Plants and Instrumentations	
AE 3312	Aircraft System: Logistics	2 credits	edge for flight operati	owered aircraft systems, high speed aerodynamics, aircraft stability and c on, basic airline business and ground operation, aircraft performance and nd automatic functions which include safety and emergency.	
	nd material support, how to supply the material or spare parts during co	-			
nance in order to avoid lack nanagement based on basi		systematic	AE 3601 Prerequisite or Co-requi	Advanced Flying: Multi-Engine Turbine Flight site: AE 3600 Advanced Flying: Multi-Engine Turbine – Ground	4 credits
AE 3400 Prerequisite:	Intermediate Flying: Advanced Aerodynamics AE 1100 Core Flying: Single-Engine Flight – Ground	3 credits	understanding of the showing competency i	sources management, development of Threat and Error Management (T Standard Operating Procedures (SOPs), application of knowledge to the n flying techniques, basic concept of flying method both in normal and no	e flight training b
	to transonic and supersonic flight to help professional pilots master ht depends and which are essential to a full understanding of the flight concrete		cedures and also basic a	Advanced Flying: Specific Aircraft Flight-Ground	3 credits
AE 3401	Avionics	3 credits	Prerequisite:	AE 3601 Advanced Flying: Multi-Engine Turbine Powered Flight AE 4300 Intermediate Flying: Crew Resource Management and Flight	
Basic theory of avionics in problems that might occur.	ncluding the indicators and instrument used on aircraft, usefulness of	this system and		80-300 commercial aircraft which include the airframe and power plant, a is, weight and balance and safety and emergency.	vionics, aircraft pe
AE 3411	Aircraft System: Aviation Acts and Airworthiness Regulations	3 credits			

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AE 3603	Advanced Flying: Specific Aircraft Flight-Flight	3 credits
Co-requisite:	AE 3602 Advance Flying: Specific Aircraft Flight-Ground	

Eight training modules which are Maintenance Flight Training Device (MFTD) normal, Full Flight Simulator (FFS) normal, Maintenance Flight Training Device (MFTD) abnormal and emergency, additional specific training, Base Training in Full Flight Simulator (FFS), Full Flight Simulator (FFS) conformity check or Skill Test and Base Training

and CAA Check (Based	d on A330-300 aircraft).	J
AE 3700 Prerequisite:	Commercial Flight I AE 2201 Basic Flying: Single/ Multi-Engine- Flight II	1 credit
Training in the mane	euvers and procedures necessary to meet the standards contained in the d training in cockpit resources management and safe flying practices.	commercial pilot practi-
AE 3701 Prerequisite:	Commercial Flight II AE 3700 Commercial Flight I	1 credit
Continued training in	n the maneuvers and procedures necessary to meet the standards cont	
AE 3702 Prerequisite:	ndards, and training in cockpit resources management and safe flying pract Commercial Flight III AE 3701 Commercial Flight II	1 credit
Continued training in	n the maneuvers and procedures necessary to meet the standards contained ndards, and training in cockpit resources management and safe flying pract	
AE 3703 Prerequisite:	Commercial Flight IV AE 3702 Commercial Flight III	1 credit
Continued training in	n the maneuvers and procedures necessary to meet the standards cont. ndards, and training in cockpit resources management and safe flying pract	
AE 3710	Aircraft Maintenance: Aircraft Maintenance I	3 credits
Basic aircraft mainter	nance which concerns the importance, the meaning, the program of n ral regulations related to maintenance.	naintenance and the or-
AE 3711	Aircraft Maintenance: Aircraft Maintenance II	3 credits
Relationship betweer section in maintenan	n the operation of flight and maintenance in airline or maintenance rep nce organization, discussion of problems in maintenance management to local and global region.	
AE 3712	Aircraft System: Hydraulic and Pneumatic System	3 credits
Basic fundamental th tems, Pascal's law in hydraulic system, fun	heory of hydraulic and pneumatic power system and their application an opened and closed chamber and its application, different componen actional principle of each component in hydraulic system. Students will d a flow chart diagram and perform maintenance on the system involving h	ts consisting in a simple learn to design a simple
AE 3713	Aircraft System: Landing Gear and Brake System	3 credits

Basic functional principle of landing gear and brake system, how to service and maintain landing gear systems and related components including wheels, brakes, indication systems and warning systems.

AE 3714	Aircraft System: Fuel System	
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Basic fundamental theory and functional principle of fuel system, how to safely service aircraft with correct rated fuel and theory towards the maintenance of aircraft airframe fuel systems, advises on aircraft fuel systems removal, repair, and installation maintenance procedures and policies, diagnoses fuel system and component malfunctions, recommendations of corrective actions and resolutions of problems using technical publications and analytic techniques.

AE 3715	Aircraft System: Power plant	3 credits
•••••		
Desite Constants and all Al	the same and four strength with state of an atom for a surrow when the surface	[14] B. Aller, A. S. Statistics and A. S. Matter, and A. S.

Basic fundamental theory and functional principle of an aircraft power plant system, all the equipment which work together with the propulsion system, flow chart of power system which supports the aircraft power, functional principle of each part and how to perform maintenance on power plant system.

AE 3716 Aircraft System: Stability and Weight & Balance System

Stability of aircraft based on basic physics and flight dynamics, basic of Weight and Balance (W&B), including tools, schedule and method, discussion of importance and problems.

3 credits

3 credits

AE 3800	Aircraft System: Aircraft Electrical System	3 credits
	eory of aircraft electrical system technology, equipment and sources ow chart and how to understand the communication.	s of electrical supply using
45 2000	Construction by the most to and Down as the New insettion	2 and dite

AE 3900	Seminar in International and Domestic Navigation	3 credits
Prerequisite:	AE 2100 Basic Flying: Single/Multi-Engine-Ground	

Domestic and flight regulations and evaluation of their impacts on long-range domestic and international flights, use of ICAO operational requirements and typical air carrier Ops SPECS to plan domestic and transoceanic flights, highaltitude airspace, navigation, and approach procedure chart interpretation, concepts of MNPS and RVSM airspace, dispatch procedures, ETOPS, ETP, drift down, track messages, LRN accuracy checks, Oceanic Air Traffic Control clearances, international METARs and TAFs and emergencies and contingencies while on oceanic tracks, communication systems requirements and methodology which include satellite, digital, and analog devices.

AE 3901	Aircraft Maintenance: Practical Verification	1 credit
	oretical knowledge in "Aircraft Maintenance Aircraft". The practical assign	nment related to the topic
AE 4300	Intermediate Flying: Crew Resources Management And Flight Safety	1 credit

## AE 1100 Core Flying: Single-Engine Flight- Ground Prerequisite:

AE 4301

3 credits

Human error and reliability, error chain, error prevention and detection, organizational factors, company safety culture, stress and stress management, fatigue and vigilance, information acquisition and processing, situational awareness, workload management, aeronautical decision making, communication and coordination inside and outside the cockpit, leadership and team behavior synergy, automation and philosophy of the usage of automation, basic flight safety concepts, theories of cause of accident, Human Factors Failure Analysis Classification System (H-FACS), and case study of both incident and accident.

Limitations of the human body operating in an aviation environment as well as dealing with all the aspects of the	3
decision making process relevant to the pilot.	

Intermediate Flying: Human Performance and Limitations

AE 4700 Prerequisite:	Commercial Pilot License Instructor Obtain commercial pilot license preferably with instrument and multi-engine rating	6 credits
	required to be the flight instructor for airplane which include learning pro- cation, teaching methods, critique and evaluation, and professional development	
AE 4701 Prerequisite:	Commercial Pilot License Instructor : Flight I Obtain Commercial Pilot License Single-Engine and instrument rating AE 4700 Commercial Pilot License Instructor	2 credits
cal test standards, Single and safe flying practices,	s and procedures necessary to meet the standards contained in the flight -Engine Land with Instrument Airplane Rating, training in cockpit resource associated ground instructions which include completion of the fundam rplane, and the flight instructor instrument written test.	ces management
AE 4702 Pre-requisite:	Commercial Pilot License Instructor: Flight II Obtain Commercial Pilot License multi-engine and instrument rating AE 4700 Commercial Pilot License Instructor	2 credits

Training in the maneuvers and procedures necessary to meet the standards required to add the Multi-Engine Flight Instructor Rating, additional instruction in advanced multi-engine flight crew training techniques including cockpit resources management and safe flying practices.

AE 4901	Aircraft System: Practical Verification	1 credit
	etical knowledge in "Aircraft System Aircraft". The practical assignment	nt related to the topic is
AE 4904	Special Problems in Aeronautic Engineering I	3 credits
	aeronautic engineering. Students will be supervised to do research g.	n on certain problems ir
AE 4905 Pre-requisite:	Special Problems in Aeronautic Engineering II AE 4904 Special Problems in Aeronautic Engineering I	2 credits
	aeronautic engineering. Students will be supervised to do research	n on certain problems ir
AE 4906 Pre-requisite:	Special Problems in Aeronautic Engineering III AE 4905 Special Problems in Aeronautic Engineering II	1 credit
	aeronautic engineering. Students will be supervised to do research g.	n on certain problems ir
AE 4930	Advanced Topics in Aeronautic Engineering I	3 credits
Most current advance	ments in a particular field of study as determined by the instructor of Is on the varied interests of the students or the research requirements.	f the course. The topic o
AE 4931 Pre-requisite:	Advanced Topics in Aeronautic Engineering II AE 4930 Advanced Topics in Aeronautic Engineering I	2 credits
Most current advance	ments in a particular field of study as determined by the instructor of s on the varied interests of the students or the research requirements.	f the course. The topic o
AE 4932 Pre-requisite:	Advanced Topics in Aeronautic Engineering III AE 4931 Advanced Topics in Aeronautic Engineering II	1 credit
Most current advance	ments in a particular field of study as determined by the instructor of s on the varied interests of the students or the research requirements.	f the course. The topic o
AI 3201 Prerequisites:	Biological Material and Biodegradation BS 1005 Principles of Biology and BS 1006 Biology Laboratory	3 Credits
assessing the extent	anisms of biodeterioration in natural materials important in Agro-indu and causes of deterioration, damage reduction strategy and techniqu nt, and corresponding laboratory sessions.	
Al 3202 Prerequisites:	Introduction to Agro-Industry BS 1001 General Chemistry and BS 1005 Principles of Biology	2 Credits
	nce of agro-industry to the economy of the country, factors and com I products and the value adding processes.	position of agro-industry
AI 3203 Prerequisites:	Instrumentation and Control in Agro-Industrial Process BS 1001 General Chemistry,	3 Credits

Principles and application of instruments involved in biotechnology and their variation in control system, their roles in production efficiency and stability and their application in research, the application of mathematics and physics models to convert the signal and the control system in Agro-Industry, and corresponding laboratory sessions.

Prerequisite:	Processing of Agricultural Products I AI 3202 Introduction to Agro-Industry	3 Credits
Chemical, physical and I	biological properties and characteristics of agricultural raw m rting agricultural raw materials into industrial products. This c	
Al 3205 Prerequisites:	Bioychemical Engineering BS 2006 Basic Biochemistry and BS 2011 Introduction to Microbiology	3 Credits
Applications of biologica economics, applied enzy	Il organisms and their enzymes in the bioprocesses and the en me kinetics, fermentation kinetics, metabolic stoichiometry, tra- tor design a nd operation, upstream and downstream proces	ansport phenomena, steriliza-
Al 3206 Prerequisite:	Agro-Industry Management and Marketing BG 2403 Introduction to Economics	3 Credits
Basic principles of market include environmental fa	eting and management which can be applied to use with agr actors in Agro- industry, consumer's buying behavior, marketin distribution channel, and promotion strategy in with the exam	g research, product develop-
AI 3207 Prerequisite:	Unit Operation of Agro-Industry I BT 3013 Introduction to Bioprocess Engineering	3 Credits
Concepts and principles	of engineering for various unit operations in agro-industry, , dryers, refrigerators, boilers, retorts, and size reduction eq	
Al 3208 Prerequisite: or	Standards and Regulations of Agricultural Products Al 3202 Introduction to Agro-Industry FT 3101 Introduction to Food Technology	2 Credits
Legal and scientific issue	es involved in the national and international regulations of agr g the application of regulation statutes, roles and responsibilit WTO and its agreements etc., Food Act B.E. 2522, food sta	
tional organizations e.g.	nd sources of information necessary for communication with go	andards, Codex, risk analysis,
tional organizations e.g. and nutrition labeling an	nd sources of information necessary for communication with go Processing of Agricultural Products II Al 3204 Processing of Agricultural Products I	andards, Codex, risk analysis,
tional organizations e.g. and nutrition labeling an included. Al 4208 Prerequisite: Processing methods of a	Processing of Agricultural Products II	andards, Codex, risk analysis, vernment and public are also 3 Credits including fruit and vegetable,
tional organizations e.g. and nutrition labeling an included. Al 4208 Prerequisite: Processing methods of a	Processing of Agricultural Products II AI 3204 Processing of Agricultural Products I gricultural products into food products and non-food products wood and textile and packaging of the products, and correspond Unit Operation for Agro-Industry II AI 3207 Unit Operation for Agro-Industry I	andards, Codex, risk analysis, vernment and public are also 3 Credits including fruit and vegetable,
tional organizations e.g. and nutrition labeling an included. Al 4208 Prerequisite: Processing methods of a cereal, meat, milk, rubber, Al 4209 Prerequisite: Concepts and principles distillation columns, extu	Processing of Agricultural Products II AI 3204 Processing of Agricultural Products I gricultural products into food products and non-food products wood and textile and packaging of the products, and correspond Unit Operation for Agro-Industry II	andards, Codex, risk analysis, vernment and public are also 3 Credits including fruit and vegetable, ing laboratory sessions. 3 Credits occesses which Topics include

stream processes in batch, continuous and fed batch bioreactors, and corresponding laboratory sessions.

AI 4212 Prerequisites:	Tissue Culture Techniques and Application BS 1005 Principles of Biology BS 1006 Biology	3 Credits
and	BS 1006 Biology Laboratory	
Techniques and physi	iological basis of plant tissue culture used in research and ind ogenesis, somatic embryogenesis and micropropagation, and o	lustry, commercial laboratorie
Al 4213 Prerequisite:	Agro-Industrial Quality Control BG 1201 Statistics I	3 Credits
Agro-industrial production production of quality, qu	ction as a systematic and controllable process, acceptance sar ality management, quality control, quality assurance and quality ality Management and ISO series within food factory, and correspond	mpling plans for analysis and y improvement, quality assur
Al 4215 Prerequisite:	Agro-Industry Preservation and Packaging AI 4208 Processing of Agricultural Product II	3 Credits
Reasons and factors of packaging that inc	relating to raw material and product spoilage, storage and pre- clude packaging materials used in transportation and distributio esponding laboratory sessions.	eservation methods, principle
Al 4216 Prerequisite:	Fiber Technology Al 4208 Processing of Agricultural Products II	3 Credits
Principles in production	on of natural fiber, sources of raw material, processing methods nt of natural fiber and application as agro-industrial, and correspond	used in Fiber Technology, re
Al 4217 Prerequisite:	Essential Oil Technology BS 2006 Basic Biochemistry	3 Credits
	and chemical characteristics of essential oils, sources of raw m	
	s, and corresponding laboratory sessions.	
and use of essential oil		3 Credits
and use of essential oil Al 4218 Prerequisite:	Agro-Industrial Product Development AI 4208 Processing of Agricultural Product II	3 Credits
and use of essential oil AI 4218 Prerequisite: New products and pro ng of new product i process development,	Agro-Industrial Product Development	 dustry, generation and screen s, prototype development and
and use of essential oil AI 4218 Prerequisite: New products and pro ng of new product i process development, products and evaluatio	Agro-Industrial Product Development Al 4208 Processing of Agricultural Product II oduct development system for Agro-industry in laboratory and in ideas, design of product concept, product design specifications sensory testing and testing of consumer acceptability, shelf life	 dustry, generation and screen s, prototype development and
AI 4218 Prerequisite: New products and pro ng of new product i process development, products and evaluatic	Agro-Industrial Product Development Al 4208 Processing of Agricultural Product II oduct development system for Agro-industry in laboratory and in ideas, design of product concept, product design specifications sensory testing and testing of consumer acceptability, shelf life on of launch and hand-on experience in laboratory. Sugar Technology BS 2006 Basic Biochemistry and	 dustry, generation and screen s, prototype development and e evaluation, launching of new
AI 4218 Prerequisite: New products and pro ng of new product i process development, products and evaluatic AI 4219 Prerequisites:	Agro-Industrial Product Development Al 4208 Processing of Agricultural Product II oduct development system for Agro-industry in laboratory and in ideas, design of product concept, product design specifications sensory testing and testing of consumer acceptability, shelf life on of launch and hand-on experience in laboratory. Sugar Technology	 dustry, generation and screer s, prototype development and e evaluation, launching of new
and use of essential oil AI 4218 Prerequisite: New products and pro ing of new product i process development, products and evaluation AI 4219 Prerequisites: pr	Agro-Industrial Product Development Al 4208 Processing of Agricultural Product II oduct development system for Agro-industry in laboratory and in ideas, design of product concept, product design specifications sensory testing and testing of consumer acceptability, shelf life on of launch and hand-on experience in laboratory. Sugar Technology BS 2006 Basic Biochemistry and Al 4208 Processing of Agricultural Product II	 adustry, generation and screen s, prototype development and e evaluation, launching of nev 3 Credits  sugar industry, quality contro
and use of essential oil AI 4218 Prerequisite: New products and pro ing of new product i process development, products and evaluatio AI 4219 Prerequisites: or Chemical and physica and development of ne	Agro-Industrial Product Development Al 4208 Processing of Agricultural Product II oduct development system for Agro-industry in laboratory and in ideas, design of product concept, product design specifications sensory testing and testing of consumer acceptability, shelf life on of launch and hand-on experience in laboratory. Sugar Technology BS 2006 Basic Biochemistry and Al 4208 Processing of Agricultural Product II FT 4108 Industrial Food Processing II al properties of sugar, sugar processing and by-products from sew sugar products to be used in other industries, and corresponding	 adustry, generation and screen s, prototype development and e evaluation, launching of nev 3 Credits  sugar industry, quality contro
and use of essential oil AI 4218 Prerequisite: New products and pro ing of new product i process development, products and evaluation AI 4219 Prerequisites: or Chemical and physica	Agro-Industrial Product Development Al 4208 Processing of Agricultural Product II oduct development system for Agro-industry in laboratory and in ideas, design of product concept, product design specifications sensory testing and testing of consumer acceptability, shelf life on of launch and hand-on experience in laboratory. Sugar Technology BS 2006 Basic Biochemistry and Al 4208 Processing of Agricultural Product II FT 4108 Industrial Food Processing II al properties of sugar, sugar processing and by-products from s ew sugar products to be used in other industries, and corresponding Post Harvest Technology BS 2006 Basic Biochemistry and	adustry, generation and screen s, prototype development and e evaluation, launching of new 3 Credits  sugar industry, quality contro g laboratory sessions.
and use of essential oil AI 4218 Prerequisite: New products and pro ing of new product i process development, products and evaluatio AI 4219 Prerequisites: or Chemical and physica and development of ne AI 4220	Agro-Industrial Product Development Al 4208 Processing of Agricultural Product II oduct development system for Agro-industry in laboratory and in ideas, design of product concept, product design specifications sensory testing and testing of consumer acceptability, shelf life on of launch and hand-on experience in laboratory. Sugar Technology BS 2006 Basic Biochemistry and Al 4208 Processing of Agricultural Product II FT 4108 Industrial Food Processing II al properties of sugar, sugar processing and by-products from se ew sugar products to be used in other industries, and corresponding Post Harvest Technology	adustry, generation and screen s, prototype development and e evaluation, launching of nev 3 Credits  sugar industry, quality contro g laboratory sessions.

Principles underlying physiological changes in fresh agricultural produces, harvesting methods and post harvest technology to handle the post harvested crops in order to maintain the crop qualities or to delay the changes involved in deterioration of the crop qualities and, corresponding laboratory sessions.

Alcoholic Beverage Technology	3 Credits
BT 3015 Industrial Fermentation	
	5 SV

Current technologies used in production of alcoholic beverage, and monitoring of impact of fermentation variables on microbial performance and product quality, distillation principles and practices, production technology of brandy, whiskey, rum, vodka, gins, and other distilled beverages, characteristics of raw materials, fermentation, distillation, and aging, manufacturing processes used in alcoholic beverages production, research development involving the use of biotechnology for the purpose of yield, solving quality related problems and stimulation innovation, an introduction to management, marketing and economics of most of the alcoholic beverages, review market segmentation and explore alternative, social policy formation, and corresponding laboratory sessions.

Al 4222 Prerequisite:	Water and Waste Management BS 2011 Introduction to Microbiology	3 Credits
	ement starting from good preparation of raw material for ir anagement of downstream process to reduce sources of po	
Al 4223 Prerequisite:	Waste and By-product Utilization BS 2011 Introduction to Microbiology	3 Credits
	sues for using of waste and by-products from industry to fir e materials, and corresponding laboratory sessions.	nd optimum method to produce

AI 4226	Plant Breeding Technology	3 Credits
Prerequisites:	BS 2012 Genetics and	
	AI 3202 Introduction to Agro-Industry	

Life cycle of monocotyledons and dicotyledons, sexual and asexual reproduction of plant, factors affecting plant growth, plant cultivation techniques and seed storage technology, mechanisms of germination, seed selection, techniques for sexual and asexual propagation. The course also includes the study of plant genetic, inheritance, germplasm bank, the use of genetic engineering to create new plant species and also industrial seed production techniques, and corresponding laboratory sessions.

AI 4232	Secondary Metabolites of Plant Cells	3 Credits
Prerequisites:	BS 2006 Basic Biochemistry	
and	BS 2007 Basic Biochemistry Laboratory	

Use of plant cells for production of secondary metabolism products such as alkaloid, monoterpenes, biopolymer, antimicrobial agents and flavors products. The course will also discuss on metabolic regulation of the desired products, genetic manipulation of plant cells with different techniques e.g. recombinant DNA and protoplast fusion techniques, and corresponding laboratory sessions.

Al 4233 Prerequisite:	Pulp and Paper Technology AI 4208 Processing of Agricultural Products II	3 Credits
coating of paper, use of no	nd paper science and technology, pulping process, pulp bleaching, p n-fibrous additives, measurement of pulp and paper quality, paper r nd paper mill, and new technology in pulp and paper processing.	1 1 37
Al 4234 Prerequisite:	Wood Technology AI 4208 Processing of Agricultural Products II	3 Credits
	erties of wood, mechanical properties and degradation, basic principle and commercial uses for wood products as well as safety and quality	

AI 4235	Rubber Technology	3 Credits
Prerequisite:	AI 4208 Processing of Agricultural Products II	

Chemical and physical properties of rubber, definition and basic concepts of Caoutechouc, rubber and elastomer, vulcanization, natural rubber latex and coagulation technology, manufacturing of industrial rubber latex sheets, block rubber and rubberized products and recent developments in the biotechnology associated with rubber technology.

Prerequisite:	Feed Manufacturing Technology Al 4208 Processing of Agricultural Products II	3 Credits	AR 1106	Architectural Drawing	3 Credits
	nutritional requirement of economically important animals, the on feeds, feed formulation, economics of feeding programs for fa			used in architecture and design profession i.e. orthographic projected drawing technique in pencil, and ink.	ction, perspective projection,
selection of appropri	riate equipment, quality control, feed manufacturing management try and also the application of biotechnology to improve quality of the	nt, safety and sanitation for feed	AR 1107	Introduction to Creative Culture	3 Credits
Al 4237	Leather Product Technology	3 Credits	lectual awareness of	emporary trends in design and art in the context of creative culture humankind's creativity, investigation of the developing, role, and	influences of designers and
Prerequisite:	AI 4208 Processing of Agricultural Products II		artists on our society,	promoting students' understanding and appreciation of art and design	ı.
	sed for industrial purposes and their properties as well as proce tools used in leather industry, waste and environmental manageme		AR 2106	History of Architecture I	3 Credits
Al 4238 Prerequisite:	Mushroom Cultivation Technology BT 3015 Industrial Fermentation	3 Credits	civilizations. Compa	from the Prehistoric era to the Enlightenment periods, spanning rative reviews incorporating research and analysis of the tendencies shy, and also construction methods as well as contextual influence	es and forms of architecture,
			architecture, i.e., ge	ographical, sociocultural, political, and technological factors by p	resenting a larger historical
tion, preparation of	on of different types of mushroom that is economically importan starter culture, support materials and media preparation and ste mation, preparation of cultivation room or space, cultivation meti	erilization, environmental control		ronological process and, expectantly, furthering the understanding evelopment of architecture.	g of world events and their
	n, including mushroom diseases and prevention methods.	ious and also post narvest teen	AR 2109	Building Technology and Construction I	3 Credits
AI 4239	Selected Topic	3 Credits		I building construction, standard timber construction methods, sho of basic construction materials such as timber, concrete, masonry and s	
Discussion and adva sions.	anced study of a selected topic in the field of Agro-Industry, an	d corresponding laboratory ses-	AR 2110 Prerequisite:	Building Technology and Construction II AR 2109 Building Technology and Construction I	3 Credits
AI 4290	Special Project	3 Credits	· · · · · · · · · · · · · · · · · · ·	nstruction using reinforced concrete construction methods, light f	former start for the weat and
	an aspect of Agro-Industry, design of the study, collection and ana supervision. A written report and presentation of the research wor			ral system, properties of building materials such as steel, glass a	
AI 4291	Field Trip	1 Credit	AR 2202 Prerequisite:	Architectural Design I AR 1104 Fundamental of Architectural Design	6 Credits
Visit to food or Agr written report of the t	ro-Industrial production facilities to view specific aspects of foo	d processing and management,	· · · · · · · · · · · · · · · · · · ·	itectural design of intimate-scale by considering basic related fact	ors such as space measure
	Seminar	1 Credit		ics, program, and habitation, poetic meaning, human needs and th	
AI 4292					
	on and performing a scientific presentation, demonstration of sc		AR 2204	Architectural Design II	6 Credits
Method in preparation from veteran sp	on and performing a scientific presentation, demonstration of sc beakers in the field of biotechnology, food technology and agro-i		AR 2204 Prerequisite:	Architectural Design II AR 2202 Architectural Design I	6 Credits
Method in preparation tion from veteran sp to present a selected	on and performing a scientific presentation, demonstration of sc beakers in the field of biotechnology, food technology and agro-in paper of interest from scientific journals.	ndustry. Each student is required	Prerequisite:  Continuation of prac	AR 2202 Architectural Design I tice from Architectural Design I, broader architectural dimensions,	multi-user private and small-
Method in preparatic tion from veteran sp to present a selected AI 4294	on and performing a scientific presentation, demonstration of sc beakers in the field of biotechnology, food technology and agro-i	ndustry. Each student is required Non-credit	Prerequisite:  Continuation of prac scale public design	AR 2202 Architectural Design I tice from Architectural Design I, broader architectural dimensions, problems, how architecture fits contextually into existing circumsta prms, analysis of existing places and synthesis incorporating the mo	multi-user private and small- nces, and how poetic mean-
Method in preparation tion from veteran sp to present a selected AI 4294 Practical training in <i>J</i>	on and performing a scientific presentation, demonstration of sc beakers in the field of biotechnology, food technology and agro-in paper of interest from scientific journals. Internship	ndustry. Each student is required Non-credit	Prerequisite: Continuation of praces scale public design ings relate to built for	AR 2202 Architectural Design I tice from Architectural Design I, broader architectural dimensions, problems, how architecture fits contextually into existing circumsta prms, analysis of existing places and synthesis incorporating the mo	multi-user private and small- nces, and how poetic mean-
Method in preparation tion from veteran sp to present a selected AI 4294 Practical training in <i>J</i>	on and performing a scientific presentation, demonstration of sc beakers in the field of biotechnology, food technology and agro-in paper of interest from scientific journals. Internship Agro-Industry or biotechnology related industry, government sec	ndustry. Each student is required Non-credit	Prerequisite: Continuation of pracess scale public design ings relate to built for of architectural environ AR 2303	AR 2202 Architectural Design I tice from Architectural Design I, broader architectural dimensions, problems, how architecture fits contextually into existing circumsta prms, analysis of existing places and synthesis incorporating the mo priments. Structural Analysis	multi-user private and small- nces, and how poetic mean- re complex multi-dimensions 3 Credits
Method in preparation tion from veteran sp to present a selected Al 4294 Practical training in 7 no less than 300 hour AR 1102 Composition of abstr Design experimental	on and performing a scientific presentation, demonstration of sc peakers in the field of biotechnology, food technology and agro-in paper of interest from scientific journals. Internship Agro-Industry or biotechnology related industry, government sec rs to develop skills and confidence after graduation. Visual Studies and Communication cract visual art using elements, such as shape, form, space, figure tion through various methods of communication, such as dra	Non-credit Non-credit  ctor and/or academic institute of 3 Credits  e and ground, color, and texture. awing painting, collage, folding,	Prerequisite: Continuation of pracess scale public design ings relate to built for of architectural enviro AR 2303 Analysis of structura footing, timber, steel	AR 2202 Architectural Design I tice from Architectural Design I, broader architectural dimensions, problems, how architecture fits contextually into existing circumsta prms, analysis of existing places and synthesis incorporating the mo- proments. Structural Analysis I members under apply loads of the building: consist of joist, bear and concrete structure and also properties of materials	multi-user private and small- nces, and how poetic mean- re complex multi-dimensions 3 Credits n, floor, floor beam, column,
Method in preparation tion from veteran sp to present a selected Al 4294 Practical training in 7 no less than 300 hour AR 1102 Composition of abstr Design experimental	on and performing a scientific presentation, demonstration of sc peakers in the field of biotechnology, food technology and agro-in paper of interest from scientific journals. Internship Agro-Industry or biotechnology related industry, government sec rs to develop skills and confidence after graduation. Visual Studies and Communication rract visual art using elements, such as shape, form, space, figure	Non-credit Non-credit  ctor and/or academic institute of 3 Credits  e and ground, color, and texture. awing painting, collage, folding,	Prerequisite: Continuation of pracess scale public design ings relate to built for of architectural enviro AR 2303 Analysis of structura	AR 2202 Architectural Design I tice from Architectural Design I, broader architectural dimensions, problems, how architecture fits contextually into existing circumsta prms, analysis of existing places and synthesis incorporating the mo priments. Structural Analysis	multi-user private and small- nces, and how poetic mean- re complex multi-dimensions 3 Credits
Method in preparation tion from veteran spito to present a selected Al 4294 Practical training in 7 no less than 300 hour AR 1102 Composition of abstri Design experimental carving and model of	on and performing a scientific presentation, demonstration of sc peakers in the field of biotechnology, food technology and agro-in paper of interest from scientific journals. Internship Agro-Industry or biotechnology related industry, government sec rs to develop skills and confidence after graduation. Visual Studies and Communication cract visual art using elements, such as shape, form, space, figure tion through various methods of communication, such as dra	Non-credit Non-credit  ctor and/or academic institute of 3 Credits  e and ground, color, and texture. awing painting, collage, folding,	Prerequisite: Continuation of pracescale public design ings relate to built for of architectural environ AR 2303 Analysis of structura footing, timber, steel AR 2304 Prerequisite: Principles and conces	AR 2202 Architectural Design I tice from Architectural Design I, broader architectural dimensions, problems, how architecture fits contextually into existing circumsta prms, analysis of existing places and synthesis incorporating the mo- proments. Structural Analysis I members under apply loads of the building: consist of joist, bear and concrete structure and also properties of materials Structural Design AR 2303 Structural Analysis pt of structural design in architecture, properties of materials, design	multi-user private and small- nces, and how poetic mean- re complex multi-dimensions 3 Credits m, floor, floor beam, column, 3 Credits gn criteria of materials selec-
Method in preparation tion from veteran sp to present a selected Al 4294 Practical training in 7 no less than 300 hour AR 1102 Composition of abstin Design experimentation carving and model in tion skills. AR 1104	on and performing a scientific presentation, demonstration of sc beakers in the field of biotechnology, food technology and agro-in paper of interest from scientific journals. Internship Agro-Industry or biotechnology related industry, government sec rs to develop skills and confidence after graduation. Visual Studies and Communication tract visual art using elements, such as shape, form, space, figure tion through various methods of communication, such as dra making. Emphasis given to the aesthetics of composition, idea Fundamentals of Architectural Design tural components and the basic design relationship between form	Non-credit Non-credit  ctor and/or academic institute of 3 Credits  e and ground, color, and texture. awing painting, collage, folding, manifestation, and communica- 3 Credits 	Prerequisite: Continuation of pracescale public design ings relate to built for of architectural environ AR 2303 Analysis of structura footing, timber, steel AR 2304 Prerequisite: Principles and conces	AR 2202 Architectural Design I tice from Architectural Design I, broader architectural dimensions, problems, how architecture fits contextually into existing circumsta prms, analysis of existing places and synthesis incorporating the mo- proments. Structural Analysis I members under apply loads of the building: consist of joist, bear and concrete structure and also properties of materials Structural Design AR 2303 Structural Analysis	multi-user private and small- nces, and how poetic mean- re complex multi-dimensions 3 Credits m, floor, floor beam, column, 3 Credits gn criteria of materials selec-

Architectural history from the Industrial Revolution to the 1960's Late Modernism, comparative reviews incorporating research and analysis of the tendencies and forms of architecture, its concept, philosophy, and also construction methods, contextual influences posing on the consequent architecture, i.e., geographical, sociocultural, political, and technological factors.

AR 3101	Introduction to Computer - Aided Design	3 Credits
Basic understanding c	of using computer as Architectural communication tool, AUTOCAI d representation, introduction to basic three dimensional modeling/rep	
AR 3106	Building Environmental Control I	3 Credits
Basic knowledge in bu ment system, sewage	uilding system and environmental control, water supply system, dr disposal, electrical system, fire protection system, communication ve design application of shading device.	
AR 3107 Prerequisite:	Building Environmental Control II AR 3106 Building Environmental Control I	3 Credits
Advanced knowledge	and practice of the building technology in relation to the building on and management, sustainable design concept and application.	g systems, natural resources
AR 3200	Theory and Concept in Architecture	3 Credits
logical, social, political, articulate the interacti gies for the making of a		hasis given to evaluate and ormulate and assess strate
AR 3203 Prereguisite:	Architectural Design III AR 2204 Architectural Design II	6 Credits
	Architectured Devices B/	C. Constitu
AR 3207 Prerequisite: Continuation of practi span structure, develop terials, site planning, a	Architectural Design IV AR 3203 Architectural Design III ce from Architectural Design III with more complexity, experiment pment of space and building form through the expression of struct nd space arrangement of building for tropical climate concerning a	ture, building envelope, ma
Continuation of practi span structure, develop terials, site planning, a of building, and explora	AR 3203 Architectural Design III ce from Architectural Design III with more complexity, experiment pment of space and building form through the expression of struct nd space arrangement of building for tropical climate concerning a ation of a medium scale public building.	t and application of a wide ture, building envelope, ma- aesthetics and utility system
AR 3207 Prerequisite: Continuation of practi- span structure, develop terials, site planning, a of building, and explora AR 3307 Prerequisite:	AR 3203 Architectural Design III ce from Architectural Design III with more complexity, experiment pment of space and building form through the expression of struct nd space arrangement of building for tropical climate concerning a ation of a medium scale public building. Building Technology and Construction III AR 2110 Building Technology and Construction II	t and application of a wide ture, building envelope, ma
AR 3207 Prerequisite: Continuation of practi- span structure, develop terials, site planning, a of building, and explora AR 3307 Prerequisite: Composite building m	AR 3203 Architectural Design III ce from Architectural Design III with more complexity, experiment pment of space and building form through the expression of struct nd space arrangement of building for tropical climate concerning a ation of a medium scale public building. Building Technology and Construction III	t and application of a wide ture, building envelope, ma- aesthetics and utility system 3 Credits post-tensioned systems for
AR 3207 Prerequisite: Continuation of practi span structure, develop terials, site planning, a of building, and explora AR 3307 Prerequisite: Composite building m floor and beam, fundan AR 3308 Prerequisite:	AR 3203 Architectural Design III ce from Architectural Design III with more complexity, experiment pment of space and building form through the expression of struct and space arrangement of building for tropical climate concerning a ation of a medium scale public building. Building Technology and Construction III AR 2110 Building Technology and Construction II materials and construction methods, large span pre-stressed and nental principles of prefabricated – construction system and curtain wa Building Technology and Construction IV AR 3307 Building Technology and Construction III	t and application of a wide ture, building envelope, ma- aesthetics and utility system 3 Credits post-tensioned systems for
AR 3207 Prerequisite: Continuation of practi span structure, develop terials, site planning, a of building, and explore AR 3307 Prerequisite: Composite building m floor and beam, fundan AR 3308 Prerequisite:	AR 3203 Architectural Design III ce from Architectural Design III with more complexity, experiment pment of space and building form through the expression of struct and space arrangement of building for tropical climate concerning a ation of a medium scale public building. Building Technology and Construction III AR 2110 Building Technology and Construction II materials and construction methods, large span pre-stressed and nental principles of prefabricated – construction system and curtain wa Building Technology and Construction IV	t and application of a wide ture, building envelope, ma aesthetics and utility system 3 Credits post-tensioned systems for all and studio work. 3 Credits
AR 3207 Prerequisite: Continuation of practi- span structure, develop terials, site planning, a of building, and explore AR 3307 Prerequisite: Composite building m floor and beam, fundan AR 3308 Prerequisite: Introduction to design studio work. AR 3309	AR 3203 Architectural Design III ce from Architectural Design III with more complexity, experiment pment of space and building form through the expression of struct ind space arrangement of building for tropical climate concerning a ation of a medium scale public building. Building Technology and Construction III AR 2110 Building Technology and Construction II naterials and construction methods, large span pre-stressed and nental principles of prefabricated – construction system and curtain wa Building Technology and Construction IV AR 3307 Building Technology and Construction III and construction principles of long span structure, high-rise build Architectural Design Methods	t and application of a wide ture, building envelope, ma aesthetics and utility system 3 Credits post-tensioned systems for all and studio work. 3 Credits
AR 3207 Prerequisite: Continuation of practi- span structure, develop terials, site planning, a of building, and explora AR 3307 Prerequisite: Composite building m floor and beam, fundan AR 3308 Prerequisite: Introduction to design studio work. AR 3309 Parallel investigation ir the discussion of actu- context, physical, and architectural project, si	AR 3203 Architectural Design III ce from Architectural Design III with more complexity, experiment pment of space and building form through the expression of struct and space arrangement of building for tropical climate concerning a ation of a medium scale public building. Building Technology and Construction III AR 2110 Building Technology and Construction II materials and construction methods, large span pre-stressed and nental principles of prefabricated – construction system and curtain wa Building Technology and Construction IV AR 3307 Building Technology and Construction III	t and application of a wide ture, building envelope, ma- aesthetics and utility system 3 Credits post-tensioned systems for all and studio work. 3 Credits ling and their behavior and 3 Credits tectural knowledge through lation, learned in the studic ensional organization of ar dge shall project a compre-

AR 4101	History of Thai Architecture	3 Credits
Components of Thai	Architecture from Sukhothai to Rattanakosin periods, various infuences of culture from outside and analysis of unique Thai Archite	
AR 4106	Methods of Research and Data Processing	3 Credits
Principles and regulat	tions of appropriate architectural research in conjunction with qua conservation, research in technology, marketing, social work and alysis.	
AR 4203 Prerequisite:	5	6 Credits
Continuation of pract integrated through c	tice from Architectural design IV, complexities of building prograr correspondence of design process and building systems, relation ctors as determinants in cluster buildings planning, and exploration	nships of contextual, spatia
AR 4205 Prerequisite:	Architectural Design VI AR 4203 Architectural Design V	6 Credits
Continuation of pract and communities, inv in an urban fabric, p	ice from Architectural design V, importance of built environments vestigation and analysis the programmatic organization, multi-leve arallel with current urban situation, forming the conceptual back macro planning issues.	el of correlation of building
AR 4301	Fundamentals of Urban and Regional Planning	3 Credits
	ing situ is physical aconomics structures social work and its a	
	ing city in physical, economics, structures, social work and its e rroundings, process of city and regional design, conceptual design vation.	
tween city and its sur environmental conserv AR 4302	rroundings, process of city and regional design, conceptual design vation. Seminar in Architecture	
tween city and its sur environmental conserv AR 4302 Architectural seminar	rroundings, process of city and regional design, conceptual design vation.	of urban, transportation, an 3 Credits erms of theoretical and prac
tween city and its sur environmental conserv AR 4302 Architectural seminar tice and the task of pro	rroundings, process of city and regional design, conceptual design vation. Seminar in Architecture involving architectural development from the past to present in to ofessional development, problems and obstacles in working and their Practicum in Architecture (240 Hours)	of urban, transportation, an 3 Credits erms of theoretical and prac
tween city and its sur environmental conserv AR 4302 Architectural seminar tice and the task of pro AR 4303 A 240 working hour p	rroundings, process of city and regional design, conceptual design vation. Seminar in Architecture involving architectural development from the past to present in to ofessional development, problems and obstacles in working and their	of urban, transportation, an 3 Credits erms of theoretical and prac solutions. Non-credit
tween city and its sur environmental conserv AR 4302 Architectural seminar tice and the task of pro AR 4303 A 240 working hour p	rroundings, process of city and regional design, conceptual design vation. Seminar in Architecture involving architectural development from the past to present in to ofessional development, problems and obstacles in working and their Practicum in Architecture (240 Hours) orofessional training at an architecture firm in order to expose stud	of urban, transportation, an 3 Credits erms of theoretical and prac solutions. Non-credit
tween city and its sur environmental conserv AR 4302 Architectural seminar tice and the task of pro AR 4303 A 240 working hour p experiences and know AR 5200 Prerequisite: Preparation of thesis	rroundings, process of city and regional design, conceptual design vation. Seminar in Architecture involving architectural development from the past to present in to ofessional development, problems and obstacles in working and their Practicum in Architecture (240 Hours) orofessional training at an architecture firm in order to expose stud ledge in the real architectural business world. Pre-Thesis in Architecture AR 5203 Architectural Design VII information, context, theory and facilities of thesis research. The	of urban, transportation, an 3 Credits erms of theoretical and prac solutions. Non-credit ents to all kinds of hands-o 3 Credits
tween city and its sur environmental conserv AR 4302 Architectural seminar tice and the task of pro AR 4303 A 240 working hour p experiences and know AR 5200 Prerequisite: Preparation of thesis supervised by assigned AR 5203 Prerequisite:	rroundings, process of city and regional design, conceptual design vation. Seminar in Architecture involving architectural development from the past to present in to ofessional development, problems and obstacles in working and their Practicum in Architecture (240 Hours) orofessional training at an architecture firm in order to expose stud dedge in the real architectural business world. Pre-Thesis in Architecture AR 5203 Architectural Design VII information, context, theory and facilities of thesis research. The d advisor. Architectural Design VII AR 4205 Architectural Design VI	of urban, transportation, an 3 Credits erms of theoretical and prac solutions. Non-credit ents to all kinds of hands-o 3 Credits
tween city and its sur environmental conserv AR 4302 Architectural seminar tice and the task of pro AR 4303 A 240 working hour p experiences and know AR 5200 Prerequisite: Preparation of thesis supervised by assigned AR 5203 Prerequisite: Continuation of pract	rroundings, process of city and regional design, conceptual design vation. Seminar in Architecture involving architectural development from the past to present in to ofessional development, problems and obstacles in working and their Practicum in Architecture (240 Hours) orofessional training at an architecture firm in order to expose stud dedge in the real architectural business world. Pre-Thesis in Architecture AR 5203 Architectural Design VII information, context, theory and facilities of thesis research. The d advisor. Architectural Design VII	of urban, transportation, an 3 Credits erms of theoretical and pra- solutions. Non-credit lents to all kinds of hands-o 3 Credits direction will be individual 6 Credits
tween city and its sur environmental conserv AR 4302 Architectural seminar tice and the task of pro AR 4303 A 240 working hour p experiences and know AR 5200 Prerequisite: Preparation of thesis supervised by assigned AR 5203 Prerequisite: Continuation of pract searches pertaining to AR 5205 Prerequisite:	rroundings, process of city and regional design, conceptual design vation. Seminar in Architecture involving architectural development from the past to present in te ofessional development, problems and obstacles in working and their Practicum in Architecture (240 Hours) orofessional training at an architecture firm in order to expose stud dedge in the real architectural business world. Pre-Thesis in Architecture AR 5203 Architectural Design VII information, context, theory and facilities of thesis research. The d advisor. Architectural Design VII AR 4205 Architectural Design VI tice from Architectural Design VI, developing design process focu- individual interests, analysis and studying of issues of interest. Thesis in Architecture AR 5200 Pre-Thesis in Architecture	of urban, transportation, an 3 Credits erms of theoretical and prac- solutions. Non-credit lents to all kinds of hands-o 3 Credits direction will be individual 6 Credits
tween city and its sur environmental conserv AR 4302 Architectural seminar tice and the task of pro AR 4303 A 240 working hour p experiences and know AR 5200 Prerequisite: Preparation of thesis supervised by assigned AR 5203 Prerequisite: Continuation of pract searches pertaining to AR 5205 Prerequisite: Students work on ind	rroundings, process of city and regional design, conceptual design vation. Seminar in Architecture involving architectural development from the past to present in the ofessional development, problems and obstacles in working and their Practicum in Architecture (240 Hours) orofessional training at an architecture firm in order to expose stud dedge in the real architectural business world. Pre-Thesis in Architecture AR 5203 Architectural Design VII information, context, theory and facilities of thesis research. The d advisor. Architectural Design VII AR 4205 Architectural Design VI tice from Architectural Design VI, developing design process focu- individual interests, analysis and studying of issues of interest. Thesis in Architecture	of urban, transportation, an 3 Credits erms of theoretical and prac- solutions. Non-credit lents to all kinds of hands-o 3 Credits direction will be individual 6 Credits using on multidisciplinary re 9 Credits

AR 5401	Building Cost Estimation and Control	3 Credits
Principles of buildin	g estimate and control by way of rough and exact estimation, the cost ality survey: materials, labor cost and equipment for final decision.	of materials, equipment
AR 5402	Fundamentals of Architectural and Urban Conservation	3 Credits
Principles of archite	ctural and urban conservation for evaluation and development, physical overnment policy to reinforce fundamentals of architectural and urban conservation for the second s	
AR 5403	Advanced Computer - Aided Design	3 Credits
Advanced study of a nology context, nar	computer-aided design and primary introduction to the creation of work rative, computation, and interactivity. Students will develop their investi ploration, experimentation, and methodologies.	-
AR 5404	Construction Management	3 Credits
Construction metho	ds in relation to the engineer, contractor, architect, and security cont laws of construction.	rol for safety purposes
AR 5405	Individual Study in Architecture	3 Credits
	nteresting architectural topics of interest of the students, under the supervisi	on of the lecturers.
AR 5407	Real Estate Development	3 Credits
	nent, procedure of financial investment and property management in city an	d rural areas.
AR 5409	Architectural Psychology	3 Credits
	osychology development, fundamentals of psychology, human behavior,	, mankind and environ-
AR 5410	Thai Architecture	3 Credits
Different componen	ts of Thai architecture as in building bodies, roofs and structures, analysi lings from past to present time, conducting research on Thai design, arc propriate functions.	
AR 5413	Project Management	3 Credits
	ed instruction of projects, site, economical techniques, professional man	agement, budget analy
AR 5414	Energy Saving	3 Credits
	rgy saving resources, alternative and renewable energy such as solar e al power and biomass.	nergy, wind power, wa-
AR 5415	Interactive Features Design	3 Credits
	creation of work within a design and technological context, i.e., new medi telligent space, developing individual investigations and interests by ex ation.	

Theoretical basis for a design understanding for overall performance of façades, examination of the complex interrelationships through a consideration of existing constructions, design criteria in successful design of façades, knowledge of materials, methods of manufacturing and installation.

AR 5417	Interior Design by Architects	3 Credits
Introduction to interi studio, issues surrou shaping and plannin	or spatial design and decoration necessary for professional architects incorpunding the interior profession and the architects, survey of contemporary g interior spatiality, design factors, programs, elements, colors, lighting, t materials for both new and renovation projects.	works, principles of
AR 5418	Introduction to Exhibition Design	3 Credits
Introduction to exhibing from programs system for products,	bition design, strategies in designing for exhibitions and trade show booths pace design, conceptual development of a thematic approach, and creati artifacts, or artwork activities as business practices specific to the trade s effective use of computer renderings and presentation skills.	on of a presentation
AR 5419	Special Topics in History, Theory and Technology in Architecture	3 Credits
	nterest in history, theory and technology of architecture and urbanism.	
AR 5420	Light, Perception and Culture	3 Credits
Influences of lighting human beings react	g design to the human perceptual system and the culture of the times, up to and interact within light by exploring contemporary theories of perce light, introduction to psychology of lighting design, and the impact of energy	ceptual, somatic, and
ART 0011	Intensive Drawing	Non-Credits
Introduction to draw	ring tools and equipment, model observation, scale and proportion, shad adio class with individual study.	ling, and shadowing,
ART 1001 Prerequisite:	Drawing ART 0011 Intensive Drawing	3 Credits
Principles of drawing shading, and shadow	, types of drawing tools and equipment, includes paper types, various med ving, scale and proportion, composition preparatory process in the creation ign work, including a required field trip.	
ART 1002	2 Dimensional Foundation	3 Credits
Theory of design fro	m nature and the relationship between man and his environment, signific luding practical design projects in 2 and 3 dimensions.	cance of elements in
ART 1003	Color Theory	3 Credits
psychology of visual	theory, tools and equipment, visual arts application, key terms and basics perception, theories of color relationships, color sphere, color and value, p colors identification. Portfolio of both assigned and individual painted projects	rimary color, second-
ART 1004	Technical Drawing	3 Credits
Introduction to mech	nanical drawing: equipment, lettering, sketching, orthographic projection, a done using the drafting board.	and basic dimension-
ART 1005 Prerequisite:	Painting ART 1001 Drawing	3 Credits
Introduction to paint tics, techniques on r	ing and its principles, theory of colors, tools and equipment, types of color nedium implementation, individual expression under practical and a theor que on assignments, including required field trip.	
ART 1006 Prerequisite:	3 Dimensional Foundation ART 1002 2 Dimensional Foundation	3 Credits

3D form, properties of light and shadow and their effects toward visual perception, and transformation of 2D to 3D works.

ART 1007 Prerequisite:	Figure Drawing ART 1001 Drawing	3 Credits	ART 4018	Art Appreciation	3 Credits
Introduction to huma	an anatomy, structures, types of figure drawing including gestund and shadowing, including life drawing in studio with real observation			mportance of visual arts, literature, music, drama, film, taste, a f art in human experiences with the artistic sense in visual co	
ART 1208	Computer Graphic Foundation	3 Credits	ART 4019	Aesthetics	3 Credits
	puter for design, software and hardware, vector and raster-bas nciples of graphics design process, techniques and printing optior			sed on sounded analytical skills from different perspectives in ocally, scientific methods and quantitative measurement as k	
ART 2009	History of Art	3 Credits	ART 4020	Louis and Ethics for Arts and Design	
	vey of Western and Eastern arts, classifications and periods of vilization from ancient to contemporary art.	i historical significances and their	Law and ethics for a	Laws and Ethics for Arts and Design rt and design, libel law, printing law, management act and reg adio, television, film and other laws defining the right duties,	
ART 2010	Typography	3 Credits	and design in public.	aulo, television, nim and other laws defining the right duties,	responsibilities and needon of a
	graphy as a tool for designers to make communication. Thround Roman typography in order to acquire basic working skills for p		BG 0008 Prerequisite or Co rec	General Chemistry Laboratory quisite: BG 1108 General Chemistry	1 Credit
ART 2112	Illustration	3 Credits	Experiments to be do	ne according to BG 1108 General Chemistry	
	ure and imagination in order to use in all print media, e.g. r	nagazines, documentaries, novels,	BG 1001	English I	3 Credits
etc. The course Includ ART 2311	Photography	2 Credits		academic English, with activities to foster reading, writing, lis nicative activities in a meaningful academic context.	stening and speaking skills in Eng
	l, types of lenses, photography technique, lighting condition a om class assignments.	nd exposure. History of photogra-	BG 1002 Prerequisite:	English II BG 1001 English I	3 Credits
ART 2313	Digital Imaging	3 Credits		nic English, reinforcing fluency and grammar with task-driver d sentence writing skills with combined reading comprehension	
	chnique by using Adobe Photoshop and other major image ed aging workflow, studio shooting, location, and laboratory exercise		BG 1108	General Chemistry	3 Credits
ART 3014	Thai Art	3 Credits		asis of the atomic theory; properties of gas, liquid, solid and s	
	aditions, folklore and influencing models for students to apply ill study from museums and historical parks which include outdoc		elements; nonmetal	al kinetic; electronic structures of atoms; chemical bonds; and transition metals.	penodic properties; representative
			BG 1200	Mathematics for Business	3 Credits
ion design with the	History of Modern Design esign since 1900s on historical contribution in the area of prod emphasis on graphic design, ideas of the past designers in th heir impacts toward contemporary design practice.			s functions: linear, polynomial, exponential, logarithmic, ratio s, linear programming, mathematics of finance and differenti	
			BG 1201	Statistics I	3 Credits
ART 3017 Prerequisite:	Internship (160 hours) CGI 3212 Computer Graphics Design Studio V (for Com VIS 3110 Visual Communication Design V (for Visual Co			, probability theory and inferential statistics, summarizing of statistics, rules of probability, probability distributions, confide othesis testing.	
graphics, photograph	by working in a company which provides design business su hy and/ or advertising design. This course requires 160 hours a company supervisor.		BG 1204	Calculus I	3 credits
ART 3215 Prerequisite:	Interactive and Time Based Media ART 1208 Computer Graphic Foundation	3 Credits		tinuity, differentiation, integration, introduction of numerical rentiation and line integration, surface integration and volume	
course will continue	phics design media such as motion graphics design, web desi from the Computer Graphics Foundation and explore more in t		BG 1205 Prerequisite:	Calculus II BG 1204 Calculus I	3 credits
ics, movement of 2d g	graphics and other elements of design.		Space vectors matr	ices and determinants, linear analytic geometry, differential	 calculus of multivariable function

Space vectors, matrices and determinants, linear analytic geometry, differential calculus of multivariable functions, vector analysis, linear integrals, surface integral and volume integrals.

BG 1211	Physics I	3 credits
	id Body, properties of matters, fluid mechanics, heat, vibrations, waves.	
BG 1212 Prerequisite or Co-requisite:		1 credit
Experiments to be done accord	ding to BG 1211 Physics I.	
BG 1213 Prerequisite:	Physics I BG 1211 Physics I	3 credits
	s, alternating current circuits, basic electronics, optics modern physics.	
BG 1214 Prerequisite or Co-requisite:		1 credit
Experiments to be done accord	ding to BG 1213 Physics II.	
BG 1221	Computer Programming	3 credits
Computer concepts, compute	er components, hardware and software interaction, EDP concepts, prog igh-level language programming.	ram design and
BG 1230	Calculus	3 Credits
Functions, limits, continuity,	technique and applications of differentiation, graphing functions, anti-d I equations, application of integrals, improper integrals and partial dif	
BG 1301	Fundamentals of Statistics	3 Credits
Descriptive statistics, probabi	ility theory and inferential statistics, summarizing of data in tables and , rules of probability, probability distributions, confidence interval estima g and simple linear regression.	- · ·
BG 1400	Business Law I (Civil & Commercial)	3 Credits
Legal principles and practices persons, nature of law, defin law on persons, types and contract, obligation, torts, p	s of civil and commercial laws, fundamental principles of law, legal relat ition, types, interpretation, application, and cancellation of law and the capacity of persons, things, property, movable and immovable prope rescription, specific contracts e.g. purchase and sell contract, exchan of works, hire of services, carriage, loan, deposit, surtyship, mortgage,	yudicial system, rty, juristic acts, ge, gift, hire of
Prerequisite:	Business Law II (Partnership & Company) BG 1400 Business Law I	3 Credits
third person, establishment,	ely partnership and limited company, relationship among partners, s management, auditing, increasing and decreasing of registered capital, the commercial bank concerning the bill of exchange, promissory no	dissolution and
BG 2000 Prerequisite:	English III BG 1002 English II	3 Credits
	mic and career purposes, emphasizing organization of ideas and clari	ty of expression
BG 2001 Prerequisite:	English IV BG 2000 English III	3 Credits
	emic and career purposes, emphasizing critical and analytical skills,	and formulating

BG 2200 Prerequisite:	Statistics II BG 1201 Statistics I	3 Credits
	relation and regression analysis, ANOVA, index number, time plications in business and economics.	
BG 2207 Prerequisite:	Engineering Mathematics BG 1205 Calculus II	3 Credits
First-order and higher-o their applications in engi	order ordinary differential equations, difference equations, fund neering.	 ctions of complex variable and
BG 2208	Discrete Mathematics	3 credits
Logic, set, proof, number	theory, counting, probability, graph theory, machine and language	 ges.
BG 2209 Prerequisite:	Statistics for Engineers BG 1204 Calculus I	3 credits
	andom variables, probability distribution, continuous and dis inge, hypothesis tests, regression and linear correlation.	 screte models, parameters ap-
BG 2301	Information Technology for Nurses	2 Credits
	applicable to healthcare and nursing service, use of specific a m.	 pplications or programs in the
BG 2400	Macroeconomics	3 Credits
production, national inc government and Central	nomic system, relationship between microeconomics and m come, output, saving and investment, economic growth, cons I Bank in fiscal and monetary policies, balance of trade, balance in a basic economic development, various economic problem t and business cycles.	sumption behavior, role of the ce of payment, importance and
BG 2401	Microeconomics	3 Credits
Microeconomics concept level), pricing mechanist sic economic theory thro	ts and theories in making decision at firm level and consum m, demand and supply, market equilibrium, consumption beh ough the perfectly competitive model, input and output marke theory of price determination, profit-maximization, and wage det	er level (individual and market navior, utility maximization, ba- ts and the connection between
BG 2403	Introduction to Economics	3 Credits
change activities take p ducers including the pr	les and analysis of the economic environment in which con place. The course will cover the analysis of economic decision ice mechanism. Demand and supply analysis in product and Supply Analysis, GNP and NI measurement of the whole economy	made by consumers and pro- factor markets, the Aggregate
BG 4000 Prerequisite:	Advanced Engineering Mathematics BG 2207 Engineering Mathematics	3 credits
Partial differential equa applications in engineer	tions; fourier analysis; boundary value problems; introductio ring; linear mapping and dimensions; vector spaces and sub ng; complex integrals; residue theory.	n to linear algebra and their
Partial differential equa applications in engineer tions; conformal mappin BIS 1141	itions; fourier analysis; boundary value problems; introductio ring; linear mapping and dimensions; vector spaces and sub ig; complex integrals; residue theory. Business Software Applications	n to linear algebra and their spaces; complex analytic func- 0 Credits
Partial differential equa applications in engineer tions; conformal mappin BIS 1141 Training of how to use	itions; fourier analysis; boundary value problems; introductio ring; linear mapping and dimensions; vector spaces and sub ng; complex integrals; residue theory.	n to linear algebra and their spaces; complex analytic func- 0 Credits

Types of information technology including system unit, I/O devices, storage devices, communications devices, software, data and information processing, functions and their applications in business.

logical and coherent opinions.

BIS 3315 Prerequisite:	Programming and Algorithms BIS 2180 Information Technology	3 Credits
Concepts in programmir	ng based on selected programming languages, essential pr gram coding and debugging.	
BIS 3340 Prerequisite:	Computer Tools in Research BIS 1141 Business Software Applications	0 Credits
	statistical software tools to conduct research including data conalytical features	
BIS 3348 Prerequisite:	A REAL PROPERTY AND	3 Credits
Introduction to the theor issue of creating and edit	ries and concepts of various multimedia types: image, audio, vi ting multimedia with the tools and techniques of digital media rn both the aesthetic and technical aspects of multimedia design.	ideo and animation. The basic a application programs will be
BIS 3349 Prerequisite:	Fundamentals of Computer Graphics BIS 1141 Business Software Applications	3 Credits
	f computer graphics, skills and techniques in implementation and programs.	
BIS 3515 Prerequisites:	Object-Oriented Concepts and Architecture BIS 3315 Programming and Algorithms	3 Credits
Advanced study of Obje syntax, object-oriented th	ect-oriented methodologies and programming for business ir heory, object-oriented programming in C#, error handling, gra opment for stand-alone or enterprise applications.	
BIS 3567 Prerequisites:		3 Credits
Techniques and tools for	r the analysis, design, implementation and testing of humar ed approaches to software requirements analysis, rapid prototypi	n-computer interfaces, special
BIS 3577 Prerequisite:	Online Media for Business BIS 2180 Information Technology	3 Credits
The effects and role of also provides the opport into the marketing funct video marketing in const	online media on marketing communications, public relations tunities, problems, tactics and strategies associated with inco- ions. The new role of online media such as social media, sea umer behavior and implications for online strategies. Digital ass models, and future trends in digital marketing	s in products or services and prporating electronic methods rch optimization (SEO), online marketing metrics, analysis of
BIS 3587 Prerequisites:	Principles of Electronic Commerce BIS 1141 Business Software Applications BIS 2180 Information Technology	3 Credits
Principles of electronic co sary mechanism, Hyper	ommerce with emphasis on how to establish electronic comn Text Markup Language (HTML), web-developing tools, multim merce, and multimedia concepts.	
BIS 3588 Prerequisite:	Digital Business Enterprise BIS 2180 Information Technology	3 Credits

Knowledge of information systems from both technological and managerial perspectives, how Information Technology creates a new infrastructure for the digital integration of a business enterprise ranging from a small company to multinational corporation (MNC), and management challenges and opportunities derived from information systems in order to resolve the current issues.

BIS 3589	Analysis Tools in Finance and Accounting	3 Credits
Prerequisite:	BIS 1141 Business Software Applications	
Spreadsheet software fo	or various finance and accounting applications, specific applicati alysis, capital budgeting, stock and bond valuation	ions of financial statements
BIS 3617	Web Design and Programming	3 Credits
Prerequisite:	BIS 2180 Information Technology	
Design and managemen	nt of websites for electronic business applications, aligning electing a website, programming for website, using web developm iveness.	
BIS 3618 Prerequisite:	Selected Programming Language BIS 1141 Business Software Applications	3 Credits
	of particular interest, features and application of that specific lan ougging.	guage to create informatior
BIS 3635	Database Systems	3 Credits
Prerequisites:	BIS 2180 Information Technology	
Data models with focus	on relational database systems and design through entity-relation ment system (DBMS), query, integrity and security of database.	onship diagram and normal
BIS 3647 Prerequisite:	Digital VDO Editing BIS 3348 Principles of Multimedia	3 Credits
	) editing software package as a tool to develop motion picture t, and audio effect.	e presentation, digital video
BIS 3655 Prerequisites:	Data Communications and Networking BIS 2180 Information Technology	3 Credits
	nd computer networks, communication devices, transmission me urity, and management.	edia, various network proto
BIS 3666	Information Systems Analysis and Design	3 Credits
Prerequisite:	BIS 3635 Database Systems	
Methodical approach by	y emphasizing strategies, tools and techniques of systems ar feasibility study to design interfaces, databases, processes, man d maintenance.	
BIS 3687	Electronic Banking and Payment Systems	3 Credits
Prerequisite:	BIS 2180 Information Technology	
Financial challenges, risl financing available for e	k, and opportunities of building electronic banking and its rel lectronic business ventures, deal structures defining financing tra erging electronic banking and payment models.	
BIS 4625	Computer Organization and Architecture	3 Credits
Prerequisite:	BIS 2180 Information Technology	
Overview of computer o	organization and architecture including central processing unit, sy y, cache memory, input/output, digital logic, computer arithmetic	
	51011.	
nal and external memory tion set, and operating sy BIS 4675	Information Systems Project Management	3 Credits

Prerequisite:	Current Topics in Business Information Systems Senior standing and completion of 106 credits	3 Credits
Critical examination of and leaders from tech	current topics in the field of Business Information Systems. Discundogy companies to share real-world experiences across entreprites with current business applications.	
	es with current business applications.	
BIS 4698 Prerequisite:	Selected Topics in Business Information Systems By Consent of Instructor	3 Credits
	eld of Business Information Systems.	
BIS 4699 Prerequisite:	Advanced Topics in Business Information Systems By Consent of Instructor	3 Credits
	el in the field of Business Information Systems.	
BIS 4718 Prerequisites:	Web Applications Development BIS 3617 Web Design and Programming BIS 3635 Database Systems	3 Credits
Development of web a way, database manage	applications sites for database-driven Websites up and running in a ment with Web based DBMS, Application Server, and using web ole and complex web applications.	-
BIS 4747 Prerequisite:	Graphics and Animation BIS 3348 Principles of Multimedia	3 Credits
ntroduction of concep	ts and theories of 2-D /and 3-D animation, storyboard writing and ols to create the graphics artwork.	the use of sophisticated
3IS 4748	3-D Modeling and Animation	3 Credits
Prerequisite:	BIS 3348 Principles of Multimedia	3 Credits
Prerequisite: Principles and techniquing, 3-D animation, tex	BIS 3348 Principles of Multimedia ues of three dimensional computer modeling and animation, 3-D s tures, lighting and rendering, animation quality and application of	oftware interface, model
Prerequisite: Principles and techniquing, 3-D animation, tex animation to 3D enviror	BIS 3348 Principles of Multimedia ues of three dimensional computer modeling and animation, 3-D s tures, lighting and rendering, animation quality and application of	oftware interface, model
Prerequisite: Principles and techniquing, 3-D animation, tex animation to 3D enviror BIS 4757 Prerequisite:	BIS 3348 Principles of Multimedia uses of three dimensional computer modeling and animation, 3-D s tures, lighting and rendering, animation quality and application of ment. Local Area Network Concepts BIS 3655 Data Communication and Networking	oftware interface, model key concepts from classic
Prerequisite: Principles and technique ng, 3-D animation, tex animation to 3D enviror BIS 4757 Prerequisite: Practical approach reg nstallation, significant	BIS 3348 Principles of Multimedia uses of three dimensional computer modeling and animation, 3-D s itures, lighting and rendering, animation quality and application of ment. Local Area Network Concepts	oftware interface, model key concepts from classi 3 Credits ing theory, concepts and
Principles and techniquing, 3-D animation, texanimation to 3D enviror BIS 4757 Prerequisite: Practical approach reg	BIS 3348 Principles of Multimedia ues of three dimensional computer modeling and animation, 3-D s itures, lighting and rendering, animation quality and application of ment. Local Area Network Concepts BIS 3655 Data Communication and Networking arding comprehensive introduction of Local Area Networks includi	oftware interface, model key concepts from classi 3 Credits ing theory, concepts and
Prerequisite: Principles and techniquing, 3-D animation, texanimation to 3D enviror BIS 4757 Prerequisite: Practical approach reginstallation, significant tocol and standards. BIS 4766 Prerequisite: Design of an organiza formation technologies	BIS 3348 Principles of Multimedia ues of three dimensional computer modeling and animation, 3-D s tures, lighting and rendering, animation quality and application of iment. Local Area Network Concepts BIS 3655 Data Communication and Networking arding comprehensive introduction of Local Area Networks includi updating in LAN Technology, in-depth knowledge on Client/ Server Business Process Reengineering	oftware interface, model key concepts from classi 3 Credits ing theory, concepts and technology, and its pro 3 Credits applications by using in
Prerequisite: Principles and techniques ng, 3-D animation, text animation to 3D enviror BIS 4757 Prerequisite: Practical approach regents nstallation, significant tocol and standards. BIS 4766 Prerequisite: Design of an organization formation technologies mplementing information BIS 4787 Prerequisite:	BIS 3348 Principles of Multimedia ues of three dimensional computer modeling and animation, 3-D s tures, lighting and rendering, animation quality and application of iment. Local Area Network Concepts BIS 3655 Data Communication and Networking arding comprehensive introduction of Local Area Networks includi updating in LAN Technology, in-depth knowledge on Client/ Server Business Process Reengineering BIS 3666 Information Systems Analysis and Design tion's structure and business processes, as well as the workflow to transform organizations and improve their performance and me on technologies to enable organizational change Data Structure BIS 3515 Object-Oriented Concepts and Architecture	oftware interface, model key concepts from classi- 3 Credits ing theory, concepts and r technology, and its pro 3 Credits applications by using in
Prerequisite: Principles and techniquing, 3-D animation, texa animation to 3D enviror BIS 4757 Prerequisite: Practical approach reginstallation, significant tocol and standards. BIS 4766 Prerequisite: Design of an organization technologies implementing information BIS 4787 Prerequisite: Data structures course type, stacks, queues, lite	BIS 3348 Principles of Multimedia ues of three dimensional computer modeling and animation, 3-D s tures, lighting and rendering, animation quality and application of iment. Local Area Network Concepts BIS 3655 Data Communication and Networking arding comprehensive introduction of Local Area Networks includi updating in LAN Technology, in-depth knowledge on Client/ Server Business Process Reengineering BIS 3666 Information Systems Analysis and Design tion's structure and business processes, as well as the workflow to transform organizations and improve their performance and me on technologies to enable organizational change Data Structure	oftware interface, model key concepts from classi 3 Credits ing theory, concepts and technology, and its pro 3 Credits applications by using in thods of introducing and 3 Credits
Prerequisite: Principles and techniquing, 3-D animation, texanimation to 3D enviror BIS 4757 Prerequisite: Practical approach reginstallation, significant tocol and standards. BIS 4766 Prerequisite: Design of an organization technologies primation technologies implementing information BIS 4787 Prerequisite: Data structures course type, stacks, queues, lite	BIS 3348 Principles of Multimedia ues of three dimensional computer modeling and animation, 3-D s tures, lighting and rendering, animation quality and application of iment. Local Area Network Concepts BIS 3655 Data Communication and Networking arding comprehensive introduction of Local Area Networks includi updating in LAN Technology, in-depth knowledge on Client/ Server Business Process Reengineering BIS 3666 Information Systems Analysis and Design tion's structure and business processes, as well as the workflow to transform organizations and improve their performance and me on technologies to enable organizational change Data Structure BIS 3515 Object-Oriented Concepts and Architecture using the Java programming language. Basic concept of data sists, trees, dictionary etc. Algorithm and manipulation of Information	oftware interface, model key concepts from classi 3 Credits ing theory, concepts and technology, and its pro 3 Credits applications by using in thods of introducing and 3 Credits

issues in data warehouse planning, design, data architecture and modeling, database design and database access, issues in data warehouse planning, design, implementation and administration, exploration of a contemporary data mining, tools and patterns in data mining and online analytical processing (OLAP).

BIS 4789 Prerequisites:	Mobile Applications BIS 3515 Object-Oriented Concept and Programming	3 Credits
Fundamental concepts design and programm	s, programming framework, and software tools for mobile applicati ning of mobile user interfaces, inter-activities communication, data geo-location, multimedia, security, and business development plan for r	persistency, network pro-
BIS 4848	Integrated Multimedia Applications	3 Credits
Prerequisites:	BIS 3647 Digital VDO Editing and	
	BIS 4747 Graphics and Animation	
Concepts, strategies a	nd techniques of interactive multimedia, which combines various for allow hands-on experience in integrating multimedia work pieces as "h	
BIS 4858	Information Systems Security	3 Credits
Prerequisite:	BIS 3655 Data Communications and Networking	
firewall, and to impler	to understand legal and ethical issues, to apply security technologi- ment information security controls and maintenance of information curity planning and the development of policies are included.	
BIS 4875	Strategic Technology Management Senior standing and Completion of at least 106 credits	3 Credits
Prereatusite		
Technical foundations agement, and organiz ment as well as strat	and significance of information systems to management, roles of ation, information policies, network-oriented computing, and organ regic information system, enterprise resource planning to support	izational change manage
Technical foundations agement, and organiz ment as well as strat decision-making. BIS 4878	and significance of information systems to management, roles of ation, information policies, network-oriented computing, and organ regic information system, enterprise resource planning to support Software Risk Management	izational change manage-
Technical foundations agement, and organiz ment as well as strat decision-making. BIS 4878 Prerequisite: Practical techniques, c	and significance of information systems to management, roles of ation, information policies, network-oriented computing, and organ regic information system, enterprise resource planning to support Software Risk Management BIS 3666 Information Systems Analysis and Design oncepts and methodologies of software development process, inclu	izational change manage management action and 3 Credits uding analysis and design
Technical foundations agement, and organiz ment as well as strat decision-making. BIS 4878 Prerequisite: Practical techniques, c efficient coding, testabi	and significance of information systems to management, roles of ation, information policies, network-oriented computing, and organ regic information system, enterprise resource planning to support Software Risk Management BIS 3666 Information Systems Analysis and Design oncepts and methodologies of software development process, inclu- ility, modular decomposition verification, debugging, and performance	izational change manage- management action and 3 Credits uding analysis and design analysis.
Technical foundations agement, and organiz ment as well as strat decision-making. BIS 4878 Prerequisite: Practical techniques, c	and significance of information systems to management, roles of ation, information policies, network-oriented computing, and organ regic information system, enterprise resource planning to support Software Risk Management BIS 3666 Information Systems Analysis and Design oncepts and methodologies of software development process, inclu- lity, modular decomposition verification, debugging, and performance Seminar in Business Information Systems	izational change manage management action and 3 Credits uding analysis and design
Technical foundations agement, and organiz ment as well as strat decision-making. BIS 4878 Prerequisite: Practical techniques, c efficient coding, testabi BIS 4897 Prerequisite: Critical examination of	and significance of information systems to management, roles of ation, information policies, network-oriented computing, and organ regic information system, enterprise resource planning to support Software Risk Management BIS 3666 Information Systems Analysis and Design oncepts and methodologies of software development process, inclu- ility, modular decomposition verification, debugging, and performance	izational change manage management action and 3 Credits uding analysis and design analysis. 3 Credits usiness. Students will read
Technical foundations agement, and organiz ment as well as strat decision-making. BIS 4878 Prerequisite: Practical techniques, c efficient coding, testabi BIS 4897 Prerequisite: Critical examination of	and significance of information systems to management, roles of ation, information policies, network-oriented computing, and organ regic information system, enterprise resource planning to support Software Risk Management BIS 3666 Information Systems Analysis and Design oncepts and methodologies of software development process, inclu- lity, modular decomposition verification, debugging, and performance Seminar in Business Information Systems Senior standing and Completion of a 106 credits	izational change manage management action and 3 Credits uding analysis and design analysis. 3 Credits usiness. Students will read
Technical foundations agement, and organiz ment as well as strat decision-making. BIS 4878 Prerequisite: Practical techniques, c efficient coding, testabi BIS 4897 Prerequisite: Critical examination of present, discuss and de	and significance of information systems to management, roles of ation, information policies, network-oriented computing, and organ regic information system, enterprise resource planning to support Software Risk Management BIS 3666 Information Systems Analysis and Design oncepts and methodologies of software development process, inclu- lity, modular decomposition verification, debugging, and performance Seminar in Business Information Systems Senior standing and Completion of a 106 credits	izational change manage management action and 3 Credits uding analysis and design analysis. 3 Credits usiness. Students will read ies and practice.
Technical foundations agement, and organiz ment as well as strat decision-making. BIS 4878 Prerequisite: Practical techniques, c efficient coding, testabi BIS 4897 Prerequisite: Critical examination of present, discuss and de BIS 4886 Prerequisite:	and significance of information systems to management, roles of ation, information policies, network-oriented computing, and organ regic information system, enterprise resource planning to support Software Risk Management BIS 3666 Information Systems Analysis and Design oncepts and methodologies of software development process, inclu- lity, modular decomposition verification, debugging, and performance Seminar in Business Information Systems Senior standing and Completion of a 106 credits information and communication technology (ICT) in the realm of b bate on weekly readings on topics that cover both contemporary theor Directed Study I	izational change manage management action and 3 Credits uding analysis and design analysis. 3 Credits usiness. Students will read ies and practice.
Technical foundations agement, and organiz ment as well as strat decision-making. BIS 4878 Prerequisite: Practical techniques, c efficient coding, testabi BIS 4897 Prerequisite: Critical examination of present, discuss and de BIS 4886 Prerequisite:	and significance of information systems to management, roles of ation, information policies, network-oriented computing, and organ regic information system, enterprise resource planning to support Software Risk Management BIS 3666 Information Systems Analysis and Design oncepts and methodologies of software development process, inclu- lity, modular decomposition verification, debugging, and performance Seminar in Business Information Systems Senior standing and Completion of a 106 credits 'information and communication technology (ICT) in the realm of b bate on weekly readings on topics that cover both contemporary theor Directed Study I By Consent of Instructor t a research topic directed by an appointed advisor. Directed Study II	izational change manage management action and 3 Credits uding analysis and design analysis. 3 Credits usiness. Students will read ies and practice.
Technical foundations agement, and organiz ment as well as strat decision-making. BIS 4878 Prerequisite: Practical techniques, c efficient coding, testabi BIS 4897 Prerequisite: Critical examination of present, discuss and de BIS 4886 Prerequisite: A student may carry ou	and significance of information systems to management, roles of ation, information policies, network-oriented computing, and organ regic information system, enterprise resource planning to support Software Risk Management BIS 3666 Information Systems Analysis and Design oncepts and methodologies of software development process, inclu- lity, modular decomposition verification, debugging, and performance Seminar in Business Information Systems Senior standing and Completion of a 106 credits 'information and communication technology (ICT) in the realm of b bate on weekly readings on topics that cover both contemporary theor Directed Study I By Consent of Instructor t a research topic directed by an appointed advisor. Directed Study II By Consent of Instructor	izational change manage management action and 3 Credits uding analysis and design analysis. 3 Credits usiness. Students will read ies and practice. 3 Credits
Technical foundations agement, and organiz ment as well as strat decision-making. BIS 4878 Prerequisite: Practical techniques, c efficient coding, testabi BIS 4897 Prerequisite: Critical examination of present, discuss and de BIS 4886 Prerequisite: A student may carry ou BIS 4887 Prerequisite:	and significance of information systems to management, roles of ation, information policies, network-oriented computing, and organ regic information system, enterprise resource planning to support Software Risk Management BIS 3666 Information Systems Analysis and Design oncepts and methodologies of software development process, inclu- lity, modular decomposition verification, debugging, and performance Seminar in Business Information Systems Senior standing and Completion of a 106 credits 'information and communication technology (ICT) in the realm of b bate on weekly readings on topics that cover both contemporary theor Directed Study I By Consent of Instructor t a research topic directed by an appointed advisor. Directed Study II	izational change manage management action and 3 Credits uding analysis and design analysis. 3 Credits usiness. Students will read ies and practice. 3 Credits 3 Credits
Technical foundations agement, and organiz ment as well as strat decision-making. BIS 4878 Prerequisite: Practical techniques, c efficient coding, testabi BIS 4897 Prerequisite: Critical examination of present, discuss and de BIS 4886 Prerequisite: A student may carry ou BIS 4887 Prerequisite: A student may continu	and significance of information systems to management, roles of ation, information policies, network-oriented computing, and organ regic information system, enterprise resource planning to support Software Risk Management BIS 3666 Information Systems Analysis and Design oncepts and methodologies of software development process, inclu- lity, modular decomposition verification, debugging, and performance Seminar in Business Information Systems Senior standing and Completion of a 106 credits 'information and communication technology (ICT) in the realm of b bate on weekly readings on topics that cover both contemporary theor Directed Study I By Consent of Instructor t a research topic directed by an appointed advisor. Directed Study II By Consent of Instructor	izational change manage management action and 3 Credits uding analysis and design analysis. 3 Credits usiness. Students will read ies and practice. 3 Credits 3 Credits

Research project for students to apply all the acquired knowledge in an information system development project including system design and computer application development based on a real business solution. Students must produce professional and system documentation, and defend their projects with the appointed committee

BS 1001	General Chemistry	3 Credits	BS 2004 Prerequisite:	Analytical Chemistry BS 1001 General Chemistry	3 Credits
as a survey of representativ	nic theory and electronic structure of atom, bonding e and transition elements and periodic properties, g d base chemical equilibrium, oxidation-reduction and b	as and kinetic theory of gas, acids/	Quantitative chemical analy	ysis, steps involved in the preparation and analysis of a sa etric methods; especially, acid-base titration, precipitation tit	
BS 1002 Prerequisite or Co-requisite:	General Chemistry Laboratory BS 1001 General Chemistry	1 Credit	BS 2005 Prerequisite or Co-requisite:	Analytical Chemistry Laboratory BS 2004 Analytical Chemistry	1 Credit
racy, molecular structure, ch	e of basic chemical instrument, experimentation tec emical reactions, determination of pH of solution ar chniques and basic theory in qualitative analysis.		Chemistry analysis exercise theories and techniques, i	es emphasizing on quantitative chemical analysis of cher including chemical sample preparation and analysis techn ally acid-base titration, precipitation titration, redox titration tec	niques using gravimetric ar
BS 1005	Principles of Biology	3 Credits	DC 2007		
	otic cell structure and functions of organelle in the nce, gene expression, energy and photosynthesis, st		BS 2006 Prerequisite:	Basic Biochemistry BS 1007 Organic Chemistry	3 Credits
ecology, behavioral science a BS 1006	nd evolution. Biology Laboratory	1 Credit		tabolism of biomolecules including carbohydrates, lipids, am ication and functions of proteins, enzymes and vitamins, th ng.	
	b BS1005 Principles of Biology, general concepts of		BS 2007 Prerequisite or Co-requisite:	Basic Biochemistry Laboratory BS 2006 Basic Biochemistry	1 Credit
cell structure, somatic cell div BS 1007	ision including the production of reproductive cells, en Organic Chemistry	ergy and photosynthesis. 3 Credits	Laboratory corresponding ties, use of laboratory equip	to BS 2006 Basic Biochemistry, preparation of buffers, ana ment and instruments.	lysis of biomolecules prope
	rganic chemistry involving the classification of orga ature and structure, reactions of organic molecule		BS 2008 Prerequisite:	Physical Chemistry BS 1001 General Chemistry	3 Credits
BS 1008 Prerequisite or Co-requisite:	Organic Chemistry Laboratory BS 1007 Organic Chemistry	1 Credits	dynamics, entropy, the second	properties of gas and kinetic theory of gas, energy and w nd and third laws of thermodynamics, free energy and applicati	ions of thermodynamics.
point, solubility, and analyti	e of apparatus, physical characteristics of organic su cal techniques of organic substances e.g. separation onal groups in organic compounds.		BS 2011 Prerequisites: and	Introduction to Microbiology BS 1005 Principles of Biology BS 1006 Biology Laboratory	3 Credits
BS 1101	Calculus I for Bioscience	3 Credits	biology, growth and metab	n both theoretical and practical aspects, eukaryotic and pro polisms of microorganisms, microbial genetic, classification a environment and in the industries and corresponding laborato	ind identification of microbe
	pect to factors, differentials, second and higher ord		PC 2012	Constitue	2 Cue dite
	inite and definite integration, and higher order integ mization, surrounded area by curves, volume of geome		BS 2012 Co-requisite:	Genetics BS 2011 Introduction to Microbiology	3 Credits
BS 1102 Prerequisite: Multivariable function, chan	Calculus II for Bioscience BS 1101 Calculus I for Bioscience ging of value of multivariable function with respect	3 Credits 	mosome mapping, molecu scription, translation, contro	tics, Mendel's principles, exception of Mendel, sex determin lar genetics which includes the structure and functions of ol of gene expression and extra chromosomal inheritance, a ualitative genetics, and corresponding laboratory sessions.	f DNA, DNA replication, trar
able function, partial deriva coordinate and spherical co	tive and its application; 3-D geometrics function b ordinate; evaluation of the area and volume of tho cluding basic vector operations, transition of genera	y rectangular coordinate, cylindrical se 3-D geometric shapes, principles	BS 2013	Engineering Drawing for Bioscience	1 Credit
	ion of an objects, tangent vector, and normal vector			ring, lettering, applied geometry, theory and technique of o ion view, and assembly drawing	rthographic drawing, pictoria
BS 1201	Physics for Bioscience	3 Credits	BS 4001 Prerequisite:	Ecology, Conservation and Environmentalism BS 1005 Principles of Biology	3 Credits
vation of energy and mome	including units, vector, force and motion, Newtonia ntum, fluids mechanics, internal energy and fundam and magnetism, light and color and introduction to adv	ental heat transfer, thermodynamics,	Biological productivity in e in population growth and th	cosystem and limiting productivity and perturbation, interactive ecological balance, protection activities of the environment	
	Physics Laboratory for Bioscience	1 Credit	concerning conservation, im	provement and sustainability of natural resources.	

BT 2011	Introduction to Biotechnology	3 Credits
Prerequisite:	BS 2006 Basic Biochemistry or	
Co-requisite:	BS 2011 Introduction to Microbiology	

Introduction and historical perspective of biotechnology, the relationship between traditional biotechnology and modern biotechnology, examples of application drawn from agriculture, medicine, and molecular biotechnology, commercial dimension of the discipline of biotechnology in market place.

BT 3013	Introduction to Bioprocessing Engineering	3 Credits
Prerequisites:	BS 1102 Calculus II for Bioscience	
and	BS 2008 Physical Chemistry	

Introduction to chemical engineering principles importance of understanding bioprocess operation and bioreactor design, unit conversions, material and energy balances, fluid flow, heat and mass transfer, reaction kinetics, and bioreactor operation.

BT 3014	Microbial Physiology	3 Credits
Prerequisite:	BS 2012 Genetics	

Microbial structures and functions to understand how physiology relates to microbial growth and survival. Bacteria are used as the primary model and are focused on the molecular aspect of cell growth, structure and functions, cell envelope, cellular metabolism and genetics, and corresponding laboratory sessions.

BT 3015	Industrial Fermentation	3 Credits
Prerequisite:	BS 2011 Introduction to Microbiology	

Selection of microbial culture, and the use of microorganism for the production of industrial products, food products, enzymes, antibiotics and organic compounds, cultural improvement, emphasizing on the metabolic regulation of the pathways that generate fermentation products from yeast and other microbial fermentations, and genetic manipulation of industrial microorganisms, and corresponding laboratory sessions.

BT 3016	Enzyme Technology	3 Credits
Prerequisite:	BS 2006 Basic Biochemistry	

Structure and functions of enzymes, including enzyme kinetics, regulation and inhibition, effect of pH and temperature, production and extraction of enzymes by means of mechanical, physical or chemical disruption of plant, animal or microbial cells, techniques such as purification, immobilization and isolation of enzymes as catalysts, and corresponding laboratory sessions.

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DT 3017	Finciples of Research	5 Cieuris
Introduction to research met	thodology, experimental design, hypothesis generation, literat	ure review, collection and
analysis of the data, use of	spread sheet packages to perform statistical analysis, summ	narizing and writing a re-
search report, presentation, an	nd ethical principles of a researcher.	

Principles of Pesearch

RT 3017

BT 3018	Genetic Engineering	3 Credits
Prerequisites:	BS 2006 Basic Biochemistry,	
	BS 2007 Basic Biochemistry laboratory	
and	BS 2012 Genetics	

Molecular biology and techniques of genetic engineering, application of enzymes, vectors, and host gene isolation, detection of recombinant genes, strategies of gene cloning, genomic libraries, cDNA synthesis, gene identification, application of genetic engineering, ethical issues in genetic engineering, and corresponding laboratory sessions.

CA 1001	Introduction to Communication	3 Credits
	unication, definition and types of communication, including principles of communication, small group communication, public communication and	
CA 1002	Introduction to Photography and Cinematography	3 Credits

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Basic theories and practice of photography and cinematography, uses of equipment, composition, principles of setting, types of lens through the applications in digital photography. Students will be assigned to create photographs suitable for various types of communication.

CA 1006	Introduction to Journalism and Mass Communication	3 Credits
Concepts of mass concepts of mass concepts of mass concepts of mass concepts and the concepts of the concepts	mmunication and mass media, functions of mass communication, theori iples of journalism such as news gathering and reporting, news flow, w rage including ethical concerns.	es and effects of mass
CA 1012	Macro-environment, Media Effect and Media Literacy 3	
Elements and concep environmental structu as skills, tools, vocab	ots of the macro-environment structure (political, economic, social, teo ures), its relationship to media and individuals, including the concepts ularies to understand the important role media play in shaping, reflectir as skills of experiencing, interpreting, analyzing and making media products	chnological, legal, and of media literacy such ng, and subverting the
CA 2016 Prerequisite:	Psychology for Persuasive Communication CA 1001 Introduction to Communication	3 Credits
Components, tools a	ind applications of basic psychology and social psychology for persu concepts and practices.	
CA 1017	Introduction to Creative Communication Design	3 Credits
Basic principles and and structural elemen or story-telling, story- ncluding applicability	artistic elements of creative communication and of the relationships b nts of short stories, poetry, and film, Idea generation and organization -telling forms and techniques, principles and applications of structures and of these elements to other creative media. Students will be assigned to content in the creation and presentation of works in different media.	etween them, creative across media platform d forms of story-telling
CA 2003	Presentation Technique	3 Credits
	presentation, public speaking and the use of audio-visual equipment in munication skills.	
CA 2004	Introduction to Advertising	3 Credits
analysis of products,	g and basic methods of advertising, role of advertising, products and markets and consumers, process of advertising, advertising planning, sel execution, creation of advertisements, function and services of advertisi tising.	services to consumers ection of media, judg
A 2005	Introduction to Public Relations	3 Credits
haracteristics of put	blic relations, process of public relations, target group and equipment in olic relations in organizations, such as business organizations, governm ations, including ethics for public relations.	
CA 2007	Introduction to New Media and Broadcasting	3 Credits
nfluential histories of digital practices and o sion and new media,	f communications media and technological development, focusing on th cultures that began mid-century and continues to the present, the develo general program production, function and relationship between differe ction of new media projects.	pment of radio, televi
A 2013	Utilization of Multimedia Tools	3 Credits
Prerequisite:	CA 1017 Introduction to Creative Communication Design	
trategies to use broa	adcast and multimedia applications for communication, multimedia tools on of communication materials.	and various computer
CA 2015	Introduction to Performance Communication	3 Credits
Basic principles and	the process of communication through performance, shows, events, etc ocation needed in putting up a performance as well as considerations to	

A 2016 rerequisite:	Psychology for Persuasive Communication CA 1001 Introduction to Communication	3 Credits
	plications of basic psychology and social psychology for persu s and practices.	asive communication
A 2018 rerequisite:	Consumer Insight CA 2016 Psychology for Persuasive Communication	3 Credits
ramework for customer insi nunication and marketing p iques for developing custo	ights, aspect of consumer decision-making and application of the propositions, fundamentals of customer value management, reso omer knowledge, customer insights and for becoming more cus on campaign such as advertising, public relations, performance co	earch tools and tech- stomer-focused in the
A 3011 rerequisite:	Communication Arts Research BG 1203 Fundamentals of Statistics	3 Credits
rinciples and methods of	research process, framework, and methodology, including applic projects in communication campaign.	cation of methods in
A 4010	Law and Ethical Concerns for Communication	3 Credits
reedom, rights, duties, resp ng regulation, copyright la	ponsibilities and ethical considerations of communication professi aw, advertising regulations and self-regulations, telecommunicati ans, rating and censorship of entertainment materials.	and the second
E 2102	Data Structure and Algorithms	3 credits
arious type of data structu	ire, e.g., array, string, stack, queue, dequeue, tree, binary tree, B- e allocation; coding; table handling.	tree, AVL – tree; data
E 2703	Introduction to Computer Systems	3 credits
Digital computer organizatio	n, memory unit, input-output device units, A/D conversion, D/A , multi-utilization, multiprogramming, multiprocessing, on-line co gn.	
E 2704 rerequisite: r	Digital Logic Design EE 3601 Electronics Circuit Design EE 2605 Engineering Electronics	3 credits
lumber system, logic coml nethod, combination logic	bination, logic systems and Boolean algebra, comparator, Karna circuit, adder, subtract, multiple output circuits, encoder, decode cuits: synchronous and asynchronous circuits, flip-flops, counter circui	er, multiplexer, demul-
E 2705 rerequisite or Co-requisite:	Digital Logic Design Laboratory CE 2704 Digital Logic Design.	1 credit
xperiments on the designs	of Gate, digital and switching circuits, interconnection of logic monories and small computer circuits.	dules, counter, control
	Computer Architecture	3 Credits

	CE 2102 Data Structure and Algorithms	
Language fundamentals, veloping a commercial ap CE 3103 Prerequisite:		
Prerequisite:	, Library IDE (Integrated Development Environment) and high-leve	el languages used in de-
	Computer Operating Systems	3 Credits
or	BG 1205 Calculus II	
	CE 2101 Introduction to Data Structure CE 2102 Data Structure and Algorithms	
Components and types management, I/O mana	of operating systems, command interpreter, management of main s agement, device management; resource protecting; freestanding ing systems, multiprocessor operating systems.	5
CE 3104	Software Engineering	3 Credits
Prerequisite:	CE 2101 Introduction Data Structure	5 creates
or	CE 2102 Data Structure and Algorithms	
Software design techniq and output process; det	ues; problem definition; function design; modular program; prograr tailed design; decision tables; pseudo code; debugging test data; n and development of large scale software.	
CE 3105	Microprocessor Programming Using Assembly & C	3 Credits
Prerequisite:	CE 2101 Introduction to Data Structure	
or	CE 2102 Data Structure and Algorithms	
CE 3106 Prerequisite: or	Programming Languages CE 2101 Introduction to Data Structure CE 2102 Data Structure and Algorithms	3 Credits
Definition of language i	including specification of syntax and semantics; programming tec DRTRAN, PL/1, PASCAL; language structure, data types, run-time enviro	
CE 3109	Database Management Systems	3 Credits
Prerequisite:	CE 2101 Introduction to Data Structure	
or	CE 2102 Data Structure and Algorithms	
	database design: hierarchical, network, and relational models; dat grity and file security.	ta description languages
Models and theories of	Design and Analysis of Algorithms	3 Credits
Models and theories of query facilities, data integ CE 3111		3 Credits
Models and theories of query facilities, data integ CE 3111 Prerequisite: pr	Design and Analysis of Algorithms CE 2101 Introduction to Data Structure CE 2102 Data Structure and Algorithms	3 Credits
Models and theories of query facilities, data integ CE 3111 Prerequisite: pr	Design and Analysis of Algorithms CE 2101 Introduction to Data Structure	
Models and theories of query facilities, data integ CE 3111 Prerequisite: or Fechniques of design ar problems.	Design and Analysis of Algorithms CE 2101 Introduction to Data Structure CE 2102 Data Structure and Algorithms and analysis of algorithms for internal and external sorting, searching	
Models and theories of query facilities, data integ CE 3111 Prerequisite: or Fechniques of design ar	Design and Analysis of Algorithms CE 2101 Introduction to Data Structure CE 2102 Data Structure and Algorithms	ng and margins; NP-hard
Models and theories of query facilities, data integ CE 3111 Prerequisite: or Fechniques of design ar problems. CE 3707 Prerequisite: Microprocessor architect	Design and Analysis of Algorithms CE 2101 Introduction to Data Structure CE 2102 Data Structure and Algorithms and analysis of algorithms for internal and external sorting, searchin Microprocessor Systems Design	ng and margins; NP-hard 3 Credits struction; registers; index

CE 3901	Digital Audio/Video Coding Technique	3 Credits
Basics technique of au	dio/video encoding.	
CE 4001	Software Development Laboratory	2 Credit
Prerequisite:	CE 2101 Introduction to Data Structure	
or	CE 2102 Data Structure and Algorithms	
	plementation. One software project will be assigned as case study.	
CE 4002	Introduction to Broadcasting Technology	3 credits
Prerequisite:	CE 4228 Data Communication and Networking	
	ing in the broadcasting technology e.g. Broadcasts protocol, video editi	ng technology.
CE 4106	Object-Orient Programming	3 Credits
Prerequisite:	CE 3106 Programming Languages	
Object-oriented desig	in and object-oriented software construction; design and construct; inement; polymorphism analysis; frameworks and design patterns	
CE 4108	Operations Research	3 Credits
Prerequisite:	BG 2207 Engineering Mathematics	
Scientific methods of	operations research, linear programming, dynamic programming, g lications of these techniques to industrial operations.	ame theory, queuing theo-
CE 4109	Information Systems Analysis and Design	3 Credits
Prerequisite:	CE 2101 Introduction to Data Structure	
or	CE 2102 Data Structure and Algorithms	
Data and information	;; data processing system; information system design; data storage form design, sequential, indexed, VSAM, ISAM.	and data classification; er-
CE 4110	Compilers	3 Credits
Prerequisite:	CE 3106 Programming Languages	
Programming langua	ge structures; compiling systems, lexical analysis, syntax and so gnostics and recovery, code generation, examples of typical compilers.	emantics analysis, parsors,
CE 4114	Data Mining	3 Credits
Prerequisite:	CE 3108 Database Management Systems	
	s of data mining; data mining methodologies; classification; association	rules; clustering.
CE 4201	Image Processing and Computer Vision	3 Credits
Prerequisite:	CE 1100 Computer Programming for Engineer	
or	BG 1220 Fundamental of Computer Processing	
or	BG 1221 Computer Programming or Equivalent	
	al image processing including such topics as digital image represe It formats, edge detection, image segmentation, object recognition, mo	
CE 4207	System and Network Programming	3 Credits
Prerequisite:	CE 2101 Introduction to Data Structure	
or	CE 2102 Data Structure and Algorithms	
	-	

Syntax and semantics of C++ applied to object oriented programming concept of abstract data type, classes, data hiding, polymorphism and inheritance. General introduction to UNIX operating system and UNIX file system, and use of UNIX system calls in C++.

CE 4221 Prerequisite: or	Network Applications and Technology CE 2101 Introduction to Data Structure CE 2102 Data Structure and Algorithms	3 Credits
Internet/Intranet tech security, Internet engi ogies of today's Intern	nology, Web technology, protocols, and applications including neering effort, parameters of the technical Internet/Intranet enviro net/Intranet, new directions already emerging, and surveying the ir v telecommunications environment quite different from today's parac	onment, contributing technol- mminent technologies shortly
CE 4223	Advanced Computer Networks	3 Credits
Prerequisite: or	CE 4222 Computer Networks CE 4228 Data Communication and Networking	
Hardware and softwa connection Reference cols from the hardwa	re organization for computer communication networks, using the Model and IP protocol suite as a basis for study, typical designs are through the communications software and application software kamples including internetworking concept and technology.	for computer network proto-
CE 4224 Prerequisite:	Telecommunication Networks Laboratory Completion of 90 Credits	1 Credit
Setup and test of LA	AN network (Ethernet), install and setup the Network Operating ncluding network management system, network printer, file trans Client.	
CE 4225	Computer and Network Security	3 Credits
Prerequisite:	CE 4222 Computer Networks	
or		
or Security techniques for	CE 4228 Data Communication and Networking or both network and database; cryptography technique; concep	
or Security techniques for	CE 4228 Data Communication and Networking or both network and database; cryptography technique; concep authentication and digital signature; Firewalls World Wide Web s	
or Security techniques fo key, Hash algorithm, protocol in both theory	CE 4228 Data Communication and Networking or both network and database; cryptography technique; concep authentication and digital signature; Firewalls World Wide Web s y and practice. Network Systems Analysis and Design CE 4222 Computer Networks	ecurity, and Internet security
or Security techniques fo key, Hash algorithm, protocol in both theory CE 4226 Prerequisite: or	CE 4228 Data Communication and Networking or both network and database; cryptography technique; concep authentication and digital signature; Firewalls World Wide Web s y and practice. Network Systems Analysis and Design CE 4222 Computer Networks CE 4228 Data Communication and Networking	ecurity, and Internet security
or Security techniques for key, Hash algorithm, protocol in both theory CE 4226 Prerequisite: or Analysis and design o	CE 4228 Data Communication and Networking or both network and database; cryptography technique; concep authentication and digital signature; Firewalls World Wide Web s y and practice. Network Systems Analysis and Design CE 4222 Computer Networks	ecurity, and Internet security 3 Credits ne existing network or desigr
or Security techniques for key, Hash algorithm, protocol in both theory CE 4226 Prerequisite: or Analysis and design o	CE 4228 Data Communication and Networking or both network and database; cryptography technique; concep authentication and digital signature; Firewalls World Wide Web s y and practice. Network Systems Analysis and Design CE 4222 Computer Networks CE 4228 Data Communication and Networking f networks; methods to analyze the existing networks, redesign th	ecurity, and Internet security 3 Credits ne existing network or design
or Security techniques for key, Hash algorithm, protocol in both theory CE 4226 Prerequisite: or Analysis and design o and evaluate the netwo	CE 4228 Data Communication and Networking or both network and database; cryptography technique; concep authentication and digital signature; Firewalls World Wide Web s y and practice. Network Systems Analysis and Design CE 4222 Computer Networks CE 4228 Data Communication and Networking of networks; methods to analyze the existing networks, redesign th ork; queuing theory, traffic analysis, security, reliability, availability and	ecurity, and Internet security 3 Credits ne existing network or design d flexibility.
or Security techniques for key, Hash algorithm, protocol in both theory CE 4226 Prerequisite: or Analysis and design o and evaluate the netwo CE 4227	CE 4228 Data Communication and Networking or both network and database; cryptography technique; concep authentication and digital signature; Firewalls World Wide Web s y and practice. Network Systems Analysis and Design CE 4222 Computer Networks CE 4228 Data Communication and Networking of networks; methods to analyze the existing networks, redesign th ork; queuing theory, traffic analysis, security, reliability, availability and Mobile and Wireless Networks	ecurity, and Internet securit 3 Credits ne existing network or design d flexibility.
or Security techniques for key, Hash algorithm, protocol in both theory CE 4226 Prerequisite: or Analysis and design o and evaluate the netwo CE 4227 Prerequisite: or Mobile cellular phone	CE 4228 Data Communication and Networking or both network and database; cryptography technique; concep authentication and digital signature; Firewalls World Wide Web s y and practice. Network Systems Analysis and Design CE 4222 Computer Networks CE 4228 Data Communication and Networking of networks; methods to analyze the existing networks, redesign th ork; queuing theory, traffic analysis, security, reliability, availability and Mobile and Wireless Networks CE 4222 Computer Networks CE 4222 Computer Networks CE 4222 Computer Networks CE 4222 Computer Networks CE 4228 Data Communication and Networking mobile and Wireless Networks CE 4228 Data Communication and Networking methods to analyze the analysis, security, reliability, availability and Mobile and Wireless Networks CE 4228 Data Communication and Networking methods to analyze the analysis, security, reliability, availability and Mobile and Wireless Networks CE 4228 Data Communication and Networking methods to analyze the analysis, routing, transpor	ecurity, and Internet security 3 Credits ne existing network or design d flexibility. 3 credits ols above the physical layer
or Security techniques for key, Hash algorithm, protocol in both theory CE 4226 Prerequisite: or Analysis and design o and evaluate the netwo CE 4227 Prerequisite: or Mobile cellular phone multiple access contr planning, and capacity	CE 4228 Data Communication and Networking or both network and database; cryptography technique; concep authentication and digital signature; Firewalls World Wide Web s y and practice. Network Systems Analysis and Design CE 4222 Computer Networks CE 4228 Data Communication and Networking of networks; methods to analyze the existing networks, redesign th ork; queuing theory, traffic analysis, security, reliability, availability and Mobile and Wireless Networks CE 4222 Computer Networks CE 4222 Computer Networks CE 4222 Computer Networks CE 4222 Computer Networks CE 4228 Data Communication and Networking mobile and Wireless Networks CE 4228 Data Communication and Networking e systems, wireless data networks with an emphasis on protoco rol, mobility management, hand-over, roaming, routing, transport restimation.	ecurity, and Internet securit 3 Credits ne existing network or design d flexibility. 3 credits ols above the physical laye t protocol, security, networ
or Security techniques for key, Hash algorithm, protocol in both theory CE 4226 Prerequisite: or Analysis and design o and evaluate the netwo CE 4227 Prerequisite: or Mobile cellular phone multiple access contr planning, and capacity CE 4228	CE 4228 Data Communication and Networking or both network and database; cryptography technique; concep authentication and digital signature; Firewalls World Wide Web s y and practice. Network Systems Analysis and Design CE 4222 Computer Networks CE 4228 Data Communication and Networking of networks; methods to analyze the existing networks, redesign th ork; queuing theory, traffic analysis, security, reliability, availability and Mobile and Wireless Networks CE 4222 Computer Networks CE 4222 Computer Networks CE 4222 Computer Networks CE 4222 Computer Networks CE 4228 Data Communication and Networking mobile and Wireless Networks CE 4228 Data Communication and Networking methods to analyze the analysis, security, reliability, availability and Mobile and Wireless Networks CE 4228 Data Communication and Networking methods to analyze the analysis, security, reliability, availability and Mobile and Wireless Networks CE 4228 Data Communication and Networking methods to analyze the analysis, routing, transpor	ecurity, and Internet securit 3 Credits ne existing network or design d flexibility. 3 credits ols above the physical laye
or Security techniques for key, Hash algorithm, protocol in both theory CE 4226 Prerequisite: or Analysis and design o and evaluate the netwo CE 4227 Prerequisite: or Mobile cellular phone multiple access contr planning, and capacity CE 4228	CE 4228 Data Communication and Networking or both network and database; cryptography technique; concep authentication and digital signature; Firewalls World Wide Web s y and practice. Network Systems Analysis and Design CE 4222 Computer Networks CE 4228 Data Communication and Networking or networks; methods to analyze the existing networks, redesign th ork; queuing theory, traffic analysis, security, reliability, availability and Mobile and Wireless Networks CE 4222 Computer Networks CE 4222 Computer Networks CE 4222 Computer Networks CE 4222 Computer Networks CE 4228 Data Communication and Networking mobility management, hand-over, roaming, routing, transpor restimation. Data Communication and Networking	ecurity, and Internet securit 3 Credits ne existing network or design d flexibility. 3 credits ols above the physical laye t protocol, security, networ
or Security techniques for key, Hash algorithm, protocol in both theory CE 4226 Prerequisite: or Analysis and design o and evaluate the netwo CE 4227 Prerequisite: or Mobile cellular phone multiple access contr planning, and capacity CE 4228 Prerequisite: or	CE 4228 Data Communication and Networking or both network and database; cryptography technique; concep authentication and digital signature; Firewalls World Wide Web s y and practice. Network Systems Analysis and Design CE 4222 Computer Networks CE 4228 Data Communication and Networking or, queuing theory, traffic analyze the existing networks, redesign th ork; queuing theory, traffic analysis, security, reliability, availability and Mobile and Wireless Networks CE 4228 Data Communication and Networking e systems, wireless data networks with an emphasis on protoco rol, mobility management, hand-over, roaming, routing, transpor restimation. Data Communication and Networking TE 3000 Principles of Communications	ecurity, and Internet security 3 Credits ne existing network or design d flexibility. 3 credits ols above the physical layer t protocol, security, networl 3 credits
or Security techniques for key, Hash algorithm, protocol in both theory CE 4226 Prerequisite: or Analysis and design o and evaluate the netwo CE 4227 Prerequisite: or Mobile cellular phone multiple access contr planning, and capacity CE 4228 Prerequisite: or Introduction to data of delay models in data	CE 4228 Data Communication and Networking or both network and database; cryptography technique; concep authentication and digital signature; Firewalls World Wide Web s y and practice. Network Systems Analysis and Design CE 4222 Computer Networks CE 4228 Data Communication and Networking of networks; methods to analyze the existing networks, redesign the ork; queuing theory, traffic analysis, security, reliability, availability and Mobile and Wireless Networks CE 4222 Computer Networks CE 4222 Computer Networks CE 4222 Computer Networks CE 4228 Data Communication and Networking e systems, wireless data networks with an emphasis on protoco ol, mobility management, hand-over, roaming, routing, transpor restimation. Data Communication and Networking TE 3000 Principles of Communications TE 3003 Fundamental of Communication Systems communications and networks; layered network architecture; point	ecurity, and Internet security 3 Credits ne existing network or design d flexibility. 3 credits ols above the physical layer t protocol, security, networl 3 credits

CE 4713 Prerequisite:	Advanced Computer Architecture CE 2709 Computer Architecture	3 Credits
	computer and mainframe architectures; computer system organization s.	s pipeline processors,
CE 4714 Prerequisite:		3 Credits
Maintainable and dia	ignosable design techniques; test generation algorithms; Boolean difference d	
CE 4715 Prerequisite: or and	Artificial Intelligence CE 2101 Introduction to Data Structure CE 2102 Data Structure and Algorithms CE 2703 Introduction to Computer Systems	3 Credits
Programming language	ges; LISP, PROLOG; evolution of AI; grammar and languages; survey of stion, answering and inference; visual perception.	current AI techniques;
CE 4905 Prerequisite:	<ul> <li>A second sec second second sec</li></ul>	1 Credit
	ent of project in Computer and Network Engineering. Students must sub	mit reports at the end
CE 4906 Prerequisite:	Computer and Network Engineering Project II CE 4901 Computer and Network Engineering Project I	2 Credits
	ct done in Computer and Network Engineering Project I. Report is also	required at the end of
CE 4905 Prerequisite:	Advanced Topics in Computer Engineering Completion of 90 Credits with the consent of the Chairperson	3 Credits
	st and new developments on computer engineering.	
CE 4906 Prerequisite:	Special Problems in Computer Engineering Completion of 90 Credits with the consent of the Chairperson	3 Credits
	al problems assigned by the instructor with the consent of the Faculty;	a written report is re-
CEL 1101	Sight Reading Lab I	1 Credit
Introductory lab for chord changes, time-	musicians to further develop listening skills, reading notation, concept feels, and grooves applied to singing rhythms and pitches simultaneous eet music, and specific arrangements.	
CEL 1102 Prerequisite:	Sight Reading Lab II CEL 1101 Sight Reading Lab I	1 Credit
A continuation of Sig	ht Reading Lab I. Additional concentration on singing on chordtones, different time-feels and grooves.	seventh chords, minor
CEL 1510	Pop/Rock Ensemble I	1 Credit
	ance of the song based on repertoire of pop and rock idioms. Typical i	nstrumentation: piano,
bass, drums, guitar, vo	Cals.	

Instrumental/vocal ensembles with focus on the performance of various jazz styles. Typical instrumentation: piar bass, drums, guitar, vocals.

	Vocal Ensemble I	1 Credit
	s with emphasis on songs and vocal repertoire. Typical instrumentati	on: piano, bass,
CEL 1513	Funk/Fusion Ensemble I	1 Credit
Performance of funk and fu	sion arrangemented by contemporary groups as well as student comp nesizer, piano, guitar, bass, drums, and percussion.	oositions. Instru-
CEL 1514	Blues/R&B Ensemble I	1 Credit
	s that focus on the performance of blues and rhythms & blues styles	. Typical instru-
CEL 1515	Latin Ensemble I	1 Credit
Ensembles for the performar	nce of Latin American music styles and Latin American rhythms. Instrum	entation: mixed
winds, bass, drums, guitar, and CEL 2510	Pop/Rock Ensemble II	1 Credit
	CEL 1510 Pop/Rock Ensemble I	. creare
	Il group performance of the song based on repertoire of pop and rock drums, guitar, vocals.	idioms. Typical
CEL 2511	Jazz Ensemble II	1 Credit
Prerequisite:	CEL 1511 Jazz Ensemble I	
	rumental/vocal ensembles with focus on the performance of various jaz	zz styles. Typical
CEL 2512	Vocal Ensemble II	1 Credit
Prerequisite:	CEL 1512 Vocal Ensemble I	
	s with emphasis on songs and vocal repertoire. Typical instrumentati	on ninno hass
drums, guitar, vocals.	is with emphasis on songs and vocal repertone. Typical instrumentation	un: piano, bass,
	Funk/Fusion Ensemble II	1 Credit
drums, guitar, vocals.		
drums, guitar, vocals. CEL 2513 Prerequisite: Further development of perf	Funk/Fusion Ensemble II	1 Credit
drums, guitar, vocals. CEL 2513 Prerequisite: Further development of perf	Funk/Fusion Ensemble II CEL 1513 Funk/Fusion Ensemble I ormance of funk and fusion arrangemented by contemporary groups as	1 Credit
drums, guitar, vocals. CEL 2513 Prerequisite: Further development of perf compositions. Instrumentation	Funk/Fusion Ensemble II CEL 1513 Funk/Fusion Ensemble I ormance of funk and fusion arrangemented by contemporary groups as n: mixed winds, synthesizer, piano, guitar, bass, drums, and percussion.	1 Credit well as student
drums, guitar, vocals. CEL 2513 Prerequisite: Further development of perf compositions. Instrumentation CEL 2514 Prerequisite: Further development of instr	Funk/Fusion Ensemble II CEL 1513 Funk/Fusion Ensemble I formance of funk and fusion arrangemented by contemporary groups as n: mixed winds, synthesizer, piano, guitar, bass, drums, and percussion. Blues/R&B Ensemble II	1 Credit well as student 1 Credit
drums, guitar, vocals. CEL 2513 Prerequisite: Further development of perf compositions. Instrumentation CEL 2514 Prerequisite: Further development of instr	Funk/Fusion Ensemble II CEL 1513 Funk/Fusion Ensemble I formance of funk and fusion arrangemented by contemporary groups as in: mixed winds, synthesizer, piano, guitar, bass, drums, and percussion. Blues/R&B Ensemble II CEL 1514 Blues/R&B Ensemble I	1 Credit well as student 1 Credit
drums, guitar, vocals. CEL 2513 Prerequisite: Further development of perf compositions. Instrumentation CEL 2514 Prerequisite: Further development of instr styles. Typical instrumentation	Funk/Fusion Ensemble II CEL 1513 Funk/Fusion Ensemble I formance of funk and fusion arrangemented by contemporary groups as in: mixed winds, synthesizer, piano, guitar, bass, drums, and percussion. Blues/R&B Ensemble II CEL 1514 Blues/R&B Ensemble I cumental/vocal ensembles with focus on the performance of blues and in it: piano, bass, drums, guitar, vocals.	1 Credit well as student 1 Credit hythms & blues
drums, guitar, vocals. CEL 2513 Prerequisite: Further development of perf compositions. Instrumentation CEL 2514 Prerequisite: Further development of instr styles. Typical instrumentation CEL 2515 Prerequisite: Further development of ense	Funk/Fusion Ensemble II CEL 1513 Funk/Fusion Ensemble I formance of funk and fusion arrangemented by contemporary groups as in: mixed winds, synthesizer, piano, guitar, bass, drums, and percussion. Blues/R&B Ensemble II CEL 1514 Blues/R&B Ensemble I furmental/vocal ensembles with focus on the performance of blues and in it: piano, bass, drums, guitar, vocals.	1 Credit well as student 1 Credit hythms & blues 1 Credit
drums, guitar, vocals. CEL 2513 Prerequisite: Further development of perf compositions. Instrumentation CEL 2514 Prerequisite: Further development of instr styles. Typical instrumentation CEL 2515 Prerequisite: Further development of ense Instrumentation: mixed winds CET 1811	Funk/Fusion Ensemble II CEL 1513 Funk/Fusion Ensemble I ormance of funk and fusion arrangemented by contemporary groups as n: mixed winds, synthesizer, piano, guitar, bass, drums, and percussion. Blues/R&B Ensemble II CEL 1514 Blues/R&B Ensemble I 	1 Credit well as student 1 Credit hythms & blues 1 Credit
drums, guitar, vocals. CEL 2513 Prerequisite: Further development of perf compositions. Instrumentation CEL 2514 Prerequisite: Further development of instr styles. Typical instrumentation CEL 2515 Prerequisite: Further development of ense Instrumentation: mixed winds CET 1811	Funk/Fusion Ensemble II CEL 1513 Funk/Fusion Ensemble I ormance of funk and fusion arrangemented by contemporary groups as n: mixed winds, synthesizer, piano, guitar, bass, drums, and percussion. Blues/R&B Ensemble II CEL 1514 Blues/R&B Ensemble I rumental/vocal ensembles with focus on the performance of blues and n it: piano, bass, drums, guitar, vocals. Latin Ensemble II CEL 1515 Latin Ensemble I mubles for the performance of Latin American music styles and Latin An bass, drums, guitar, percussion. Foundation Chinese I	1 Credit well as student 1 Credit hythms & blues 1 Credit herican rhythms. 3 Credits
drums, guitar, vocals. CEL 2513 Prerequisite: Further development of perf compositions. Instrumentation CEL 2514 Prerequisite: Further development of instr styles. Typical instrumentation CEL 2515 Prerequisite: Further development of ense Instrumentation: mixed winds CET 1811 Basic skills in listening, spea	Funk/Fusion Ensemble II CEL 1513 Funk/Fusion Ensemble I ormance of funk and fusion arrangemented by contemporary groups as n: mixed winds, synthesizer, piano, guitar, bass, drums, and percussion. Blues/R&B Ensemble II CEL 1514 Blues/R&B Ensemble I rumental/vocal ensembles with focus on the performance of blues and n it: piano, bass, drums, guitar, vocals. Latin Ensemble II CEL 1515 Latin Ensemble I mubles for the performance of Latin American music styles and Latin An bass, drums, guitar, percussion. Foundation Chinese I	1 Credit well as student 1 Credit hythms & blues 1 Credit herican rhythms. 3 Credits

## sentence patterns focusing on everyday conversation

	Chinese Listening and Speaking I	3 Credits
Listening to daily conve	ersation and practice of pronunciation	
CET 1822 Prerequisite:	Chinese Listening and Speaking II CET 1821 Chinese Listening and Speaking I	3 Credits
	ted to daily life and practice of common daily dialogues in Mandarin	
CET 1831	Chinese Reading and Writing I	3 Credits
	e orders and Chinese characters, writing basic sentences and reading	basic published materi-
CET 1832 Prerequisite:	Chinese Reading and Writing II CET 1831 Chinese Reading & Writing I	3 Credits
	d speed reading on various kinds of Chinese articles	
CET 1841	Chinese Grammar and Usage I	3 Credits
	word orders, sentence structures, interrogation, adverbials, sentence h adjectival predicate	s with verbs as predi-
CET 1842 Prerequisite:	Chinese Grammar and Usage II CET 1841 Chinese Grammar and Usage I	3 Credits
Additional grammatica	al rules on sentences with a subject-predicate phrase as its predica pivotal sentences, and grammatical supplements in Chinese language	ate, enumeration rules,
CET 2813 Prerequisite:	Intermediate Chinese I CET 1812 Foundation Chinese II	3 Credits
Intermediate skills in	listening, speaking, reading and writing in Mandarin: vocabulary, com termediate level and Chinese expression in daily communication needs	plex sentence patterns,
CET 2814 Prerequisite:	Intermediate Chinese II CET 2813 Intermediate Chinese I	3 Credits
	Na ta Diseasta a substance and ta substance to Manufacture to Manufacture to the second state of the substance	
	lls in listening, speaking, reading and writing in Mandarin: more vocabu rules of intermediate level, expansion of Chinese expressions in oral commu	
patterns, grammatical r CET 2823		
patterns, grammatical r CET 2823 Prerequisite:	rules of intermediate level, expansion of Chinese expressions in oral commu Intermediate Chinese Listening and Speaking I	3 Credits
patterns, grammatical r CET 2823 Prerequisite: Listening and conversa CET 2824 Prerequisite:	ules of intermediate level, expansion of Chinese expressions in oral commu Intermediate Chinese Listening and Speaking I CET 1822 Chinese Listening and Speaking II tion practice focusing on texts of intermediate level and self-expression on Intermediate Chinese Listening and Speaking II CET 2823 Intermediate Chinese Listening and Speaking I	3 Credits
patterns, grammatical r CET 2823 Prerequisite: Listening and conversa CET 2824 Prerequisite: Further practice of list	ules of intermediate level, expansion of Chinese expressions in oral commu Intermediate Chinese Listening and Speaking I CET 1822 Chinese Listening and Speaking II tion practice focusing on texts of intermediate level and self-expression on Intermediate Chinese Listening and Speaking II CET 2823 Intermediate Chinese Listening and Speaking I ening and conversation focusing on texts of intermediate level on vario	3 Credits general topics 3 Credits
patterns, grammatical r CET 2823 Prerequisite: Listening and conversa CET 2824 Prerequisite: Further practice of list modern life at a mother CET 2833 Prerequisite:	ules of intermediate level, expansion of Chinese expressions in oral commu Intermediate Chinese Listening and Speaking I CET 1822 Chinese Listening and Speaking II tion practice focusing on texts of intermediate level and self-expression on Intermediate Chinese Listening and Speaking II CET 2823 Intermediate Chinese Listening and Speaking I ening and conversation focusing on texts of intermediate level on vario r-tongue speed Intermediate Chinese Reading and Writing I CET 1832 Chinese Reading and Writing I	3 Credits general topics 3 Credits
patterns, grammatical r CET 2823 Prerequisite: Listening and conversa CET 2824 Prerequisite: Further practice of list modern life at a mother CET 2833 Prerequisite:	ules of intermediate level, expansion of Chinese expressions in oral commu Intermediate Chinese Listening and Speaking I CET 1822 Chinese Listening and Speaking II tion practice focusing on texts of intermediate level and self-expression on Intermediate Chinese Listening and Speaking II CET 2823 Intermediate Chinese Listening and Speaking I ening and conversation focusing on texts of intermediate level on vario r-tongue speed Intermediate Chinese Reading and Writing I	3 Credits 9 general topics 3 Credits ous topics of interest in 3 Credits
patterns, grammatical r CET 2823 Prerequisite: Listening and conversa CET 2824 Prerequisite: Further practice of list modern life at a mother CET 2833 Prerequisite: Reading business-relate CET 2834 Prerequisite:	ules of intermediate level, expansion of Chinese expressions in oral commu Intermediate Chinese Listening and Speaking I CET 1822 Chinese Listening and Speaking II tion practice focusing on texts of intermediate level and self-expression on Intermediate Chinese Listening and Speaking II CET 2823 Intermediate Chinese Listening and Speaking I ening and conversation focusing on texts of intermediate level on vario r-tongue speed Intermediate Chinese Reading and Writing I CET 1832 Chinese Reading and Writing I	3 Credits 9 general topics 3 Credits ous topics of interest in 3 Credits

CET 2852 Chinese for Business II 3 Credits Prerequisite: CET 2851 Chinese for Business I Conversation and writing in business contexts and reading business reports CET 3815 Advanced Chinese I 3 Credits Prerequisite: CET 2814 Intermediate Chinese II Advanced skills in listening, speaking, reading and writing in Mandarin, advanced vocabulary and grammatical rules and practice of four language skills at the advanced level CET 3816 Advanced Chinese II 3 Credits Prerequisite: CET 3815 Advanced Chinese I More advanced skills in listening, speaking, reading and writing in Mandarin, expansion of the vocabulary and grammatical rules of advanced level, introduction to practical Chinese in business, economy and trade CET 3851 Chinese for Economy and Trade I 3 Credits CET 2852 Chinese for Business II Prerequisite: Basic knowledge of economy and trade in Chinese and practice of four language skills in the contexts of economy and trade CET 3852 Chinese for Economy and Trade II 3 Credits CET 3851 Chinese for Economy and Trade I Prerequisite: Vocabulary and expressions in international trade and economy focusing on speaking and reading skills CET 3853 **Business Writing in Chinese I** 3 Credits Prerequisite: CET 2814 Intermediate Chinese I Vocabulary and formats in writing business documents CET 3854 Business Writing in Chinese II 3 Credits Prerequisite: CET 3853 Business Writing in Chinese I Vocabulary and formats in writing business documents in international trade environments and writing reports for business presentations CET 3862 Chinese for Business Conversation I 3 Credits CET 2814 Intermediate Chinese II Prerequisite: Chinese oral communication in formal business encounters CET 3863 Chinese for Business Conversation II 3 Credits Prerequisite: CET 3862 Chinese for Business Conversation I Conversation of the more complex genres of business and trade focusing on international trade CET 4853 Chinese for Economy and Trade III 3 Credits Prerequisite: CET 3852 Chinese for Economy and Trade II Vocabulary and expressions in international trade and economy focusing on writing skills CET 4854 Thai-Chinese Translation in Economy and Trade 3 Credits Prerequisite: CET 3816 Advanced Chinese II Translation from Thai into Chinese on economy and trade topics, methodology of translation from Thai to Chinese focusing on business-related texts CET 4861 **Business Negotiation in Chinese** 3 Credits Prerequisite: CET 3816 Advanced Chinese II

Basic knowledge and understanding about international trade and the usage of Chinese language in business

Practice of four language skills on the usage of Chinese in business environments

## negotiation

CET 4871 Prerequisite:	Principles of Economics in Chinese CET 3816 Advanced Chinese II	3 Credits
Introduction of micro	and macroeconomics principles and various basic theories of economic	s in Chinese
CET 4872	Contemporary Chinese Economy and Trade	3 Credits
Prerequisite:	CET 3816 Advanced Chinese II	
	s of the present macroeconomic and trade situation of China	
CET 4873	Reading Comprehension on Economy and Trade	3 Credits
Prereguisite:	CET 3816 Advanced Chinese II	
	ts related to business, economy and trade and writing concise reports fr	om the articles
CET 4874	Directed Studies in Economy and Trade	3 Credits
Prerequisite:	CET 3854 Business Writing in Chinese II	
	lucting business in mainland China, Chinese corporate culture and Thai-	Chinese relationship
CET 4881	Business Research Methodology in Chinese	3 Credits
Prerequisite:	CET 3854 Business Writing in Chinese II	5 creates
	pusiness research paper writing, methods of research paper writing, cs.	research of information or
CET 4882	Business Research Writing in Chinese	3 Credits
Prerequisite:	CET 4881 Business Research Methodology in Chinese	
	rs from actual business research	
Writing Chinese pape CGI 1201	rs from actual business research Graphics Design Studio I	3 Credits
Writing Chinese paper CGI 1201 Fundamentals of idea	rs from actual business research Graphics Design Studio I a development for creating the moving image, principles of storyboa	
Writing Chinese paper CGI 1201 Fundamentals of idea set design, criticism of CGI 2202	rs from actual business research Graphics Design Studio I a development for creating the moving image, principles of storyboa n the short story and scene development. Introduction to Motion Picture and Animation	
Writing Chinese paper CGI 1201 Fundamentals of idea set design, criticism of CGI 2202 Fundamentals of vide hands-on exercises, in the video preprod of short film projects. CGI 2203	rs from actual business research Graphics Design Studio I Graphics Design Studio I Graphics Design Studio I Graphics Design Studio I Graphics and scene development. Introduction to Motion Picture and Animation Graphics and overview of film and moving images students are expected to develop the technical, analytical and cri uction, production and postproduction process. Students may be real Computer Graphics Design Studio II	rding, character design and 3 Credits . By combining theory and tical foundations necessary
Writing Chinese paper CGI 1201 Fundamentals of idea set design, criticism of CGI 2202 Fundamentals of vide hands-on exercises, in the video preprod of short film projects. CGI 2203 Prerequisite: Fundamentals of mo	rs from actual business research Graphics Design Studio I a development for creating the moving image, principles of storyboa n the short story and scene development. Introduction to Motion Picture and Animation eo production techniques and overview of film and moving images students are expected to develop the technical, analytical and cri uction, production and postproduction process. Students may be rea	rding, character design and 3 Credits . By combining theory and tical foundations necessary quired to produce a variety 1 Credits and application to the 2 di
Writing Chinese paper CGI 1201 Fundamentals of idea set design, criticism of CGI 2202 Fundamentals of vide hands-on exercises, in the video preprod of short film projects. CGI 2203 Prerequisite: Fundamentals of mo mensional animation	rs from actual business research Graphics Design Studio I a development for creating the moving image, principles of storyboa in the short story and scene development. Introduction to Motion Picture and Animation eo production techniques and overview of film and moving images students are expected to develop the technical, analytical and cri uction, production and postproduction process. Students may be re- Computer Graphics Design Studio II CGI 1201 Computer Graphics Design Studio I vement in 2 dimension drawing, principles of animation in theory a s such as cell animation, including required criticisms on the story of Introduction to 3D Modeling	rding, character design and 3 Credits . By combining theory and tical foundations necessary quired to produce a variety 1 Credits and application to the 2 di-
Writing Chinese paper CGI 1201 Fundamentals of idea set design, criticism of CGI 2202 Fundamentals of vide hands-on exercises, s in the video preprod of short film projects. CGI 2203 Prerequisite: Fundamentals of mo mensional animation are required. CGI 2204 Prerequisite:	rs from actual business research Graphics Design Studio I a development for creating the moving image, principles of storyboa in the short story and scene development. Introduction to Motion Picture and Animation eo production techniques and overview of film and moving images students are expected to develop the technical, analytical and cri uction, production and postproduction process. Students may be rea Computer Graphics Design Studio II CGI 1201 Computer Graphics Design Studio I vement in 2 dimension drawing, principles of animation in theory a s such as cell animation, including required criticisms on the story of Introduction to 3D Modeling ART 1208 Computer Graphics Foundation	rding, character design and 3 Credits 6. By combining theory and tical foundations necessary quired to produce a variety 1 Credits and application to the 2 di and character development
Writing Chinese paper CGI 1201 Fundamentals of idea set design, criticism of CGI 2202 Fundamentals of vide hands-on exercises, i in the video preprod of short film projects. CGI 2203 Prerequisite: Fundamentals of mo mensional animation are required. CGI 2204 Prerequisite: Principles of 3-D spa mapping, lighting an	rs from actual business research Graphics Design Studio I a development for creating the moving image, principles of storyboa in the short story and scene development. Introduction to Motion Picture and Animation eo production techniques and overview of film and moving images students are expected to develop the technical, analytical and cri uction, production and postproduction process. Students may be re- Computer Graphics Design Studio II CGI 1201 Computer Graphics Design Studio I vement in 2 dimension drawing, principles of animation in theory a s such as cell animation, including required criticisms on the story of Introduction to 3D Modeling	rding, character design and 3 Credits . By combining theory and tical foundations necessary quired to produce a variety 1 Credits and application to the 2 di and character developmen 3 Credits ing, procedures for texture
Writing Chinese paper CGI 1201 Fundamentals of idea set design, criticism of CGI 2202 Fundamentals of vide hands-on exercises, i in the video preprod of short film projects. CGI 2203 Prerequisite: Fundamentals of mo mensional animation are required. CGI 2204 Prerequisite: Principles of 3-D spa mapping, lighting an	rs from actual business research Graphics Design Studio I a development for creating the moving image, principles of storyboa in the short story and scene development. Introduction to Motion Picture and Animation eo production techniques and overview of film and moving images students are expected to develop the technical, analytical and cri uction, production and postproduction process. Students may be re- Computer Graphics Design Studio II CGI 1201 Computer Graphics Design Studio I comment in 2 dimension drawing, principles of animation in theory a s such as cell animation, including required criticisms on the story of Introduction to 3D Modeling ART 1208 Computer Graphics Foundation acce and 3 dimensional modeling techniques, such as object model d rendering, construction of basic digital 3-D models of character and	rding, character design and 3 Credits . By combining theory and tical foundations necessary quired to produce a variety 1 Credits and application to the 2 di- and character development 3 Credits ing, procedures for texture

various sound tools.		
CGI 2206	Sound Design	3 Credits
Sound design princip introduction to acoust	oles as applied to motion pictures and interactive systems, pheno stics, exploration of creative use of sound, introduction to field re- riginal sound recordings from an extensive sound library.	
CGI 2207	Animation Concept and Story Telling	3 Credits
Introduction to divers cal contexts and met practical investigation	sity of animation aesthetics from industrial processes to individual thods as well as contemporary trends and techniques. oral and w into personal aesthetic choice, examination of a number of appro form, how to transpose ideas through 2-D storyboards and anima	vritten critique supported by aches for adaptation of story
CGI 2208 Prerequisite:	Computers Graphics Design Studio III CGI 2203 Computer Graphics Design Studio II	3 Credits
Techniques and conce	epts of animation such as stop motion, clay animation or claymat quired to fulfill these requirements.	tion. Story development and
CGI 3209 Prerequisite:	3D Animation CGI 2204 Introduction to 3D Modeling	3 Credit
3-D Animation with e thumbnail and creatic as applied to a series	mphasis on weight, pose and mechanics of character movement, up on of rough animations that help push their 3-D poses, basic princip of very different characters. Students explore basic tools and apply eling and rigging solutions for character motion.	ples of modeling and rigging
CGI 3210 Prerequisite:	Computer Graphics Design Studio IV CGI 2208 Computer Graphics Design Studio III	3 Credits
Development of a un	iqueness of story, sense of style and material as alternative for fo employ imagery, objects and different media types to develop a m ct.	
CGI 3211 Prerequisite:	Cinematic Lighting and Rendering CGI 3209 3D Animation	3 Credits
Lighting and renderir lighting for studio, pr	ng issues needed in the animation production work flow, technica resentation, cinema and visual effects, as well as tonal evaluation of nnical issues which include shadows, soft shadow control, light type	of images, color temperature
CGI 3212 Prerequisite:	Computer Graphics Design Studio V CGI 3210 Computer Graphics Design Studio IV	3 Credits
Technical and aesthet tinue to develop cont	ic skill set of the advanced animation major. Through the explorati tent delivery, story and technical mastery with emphasis on the pr mation. The technique of animation such as stop motion, clayma yzed.	ocess development through-
CGI 3213 Prerequisites:	Digital Image for Digital Production CGI 2207 Animation Concept and Story Telling CGI 2208 Computer Graphics Design Studio III	3 Credits
Digital image principl	es as applied to digital production, exploration of creative use of ir visual effects with emphasis on techniques of photo retouching.	mages in the real production
CGI 3214 Prerequisites:	Movement Analysis and Integration	3 Credits

Character emotion and physical movement, realistic movements simply from a movement of a bouncing ball to a much more complicated walk cycle, professional choreography, how human body moves with the correct speed and

CGI 2207 Animation Concept and Story Telling

CGI 2208 Computer Graphics Design Studio III

Prerequisites:

in conjunction with software programs such as Adobe After Effects, Adobe Premiere, Adobe Photoshop, Vegas, and

Prerequisite:	Animation Production CGI 3209 3D Animation	3 Credits
Importance of scene I	ayout and how it will affect the final production. Students will create storyline for final compositing. The work will start from concept, the cenery.	
CGI 3216 Prerequisites:	Creative Process of Character Design and Setup CGI 2204 Introduction to 3D Modeling CGI 3209 3D Animation	3 Credits
Fundamentals of cha Students will design veloped character tha	racter design such as, figure, anatomy, props, and costumes givin a character based on two-dimension sketches and drawings startir at is ready to be used in various fields such as games and animati ree-dimension with full character setup and structure ready to animate	ng from an idea to fully o on. The final work will be
CGI 3218 Prerequisites:	Cinematic Setup CGI 2207 Animation Concept and Story Telling CGI 2208 Computer Graphics Design Studio III	3 Credits
Art and science of pre	e-production and production from visualizing the narrative to lighti eceive an outcome that is ready for post-production.	ng and shooting product
CGI 3219 Prerequisites:	Principles of Digital Effects CGI 2207 Animation Concept and Story Telling CGI 2208 Computer Graphics Design Studio III	3 Credits
Fundamental approact	hes to compositing techniques from past to present.	
CGI 3220 Prerequisite:	Digital Compositing CGI 3219 Principles of Digital Effects	3 Credits
Prerequisite: Students will learn to Students will learn to	Digital Compositing CGI 3219 Principles of Digital Effects composite with digital photography based on the concepts of tr use digital SLR cameras, apply digital darkroom techniques, crea standing of lighting and perspective with the use of compositing softw	aditional compositing ide
Prerequisite: Students will learn to Students will learn to	CGI 3219 Principles of Digital Effects composite with digital photography based on the concepts of tr use digital SLR cameras, apply digital darkroom techniques, crea	aditional compositing ide
Prerequisite: Students will learn to Students will learn to and develop an under: CGI 3221 Prerequisite: Techniques of compo	CGI 3219 Principles of Digital Effects composite with digital photography based on the concepts of tr use digital SLR cameras, apply digital darkroom techniques, crea standing of lighting and perspective with the use of compositing softw Visual Effects I	aditional compositing ide tively manage transparer rare. 3 Credits to seamlessly blend CG a
Prerequisite: Students will learn to Students will learn to and develop an under CGI 3221 Prerequisite: Techniques of compo live action film togethe CGI 4217 Prerequisite:	CGI 3219 Principles of Digital Effects o composite with digital photography based on the concepts of tr o use digital SLR cameras, apply digital darkroom techniques, crea standing of lighting and perspective with the use of compositing softw Visual Effects I CGI 3219 Principles of Digital Effect siting especially rotoscoping, chroma-keying, matte creation, how the er and render it with professional multi-pass rendering and time-based Digital Painting for Visual Effects CGI 3213 Digital Image for Digital Production	aditional compositing ide tively manage transparer rare. 3 Credits to seamlessly blend CG a
Prerequisite: Students will learn to Students will learn to and develop an unders CGI 3221 Prerequisite: Techniques of compo live action film togethe CGI 4217 Prerequisite: Development of a hig production illustratior ence. Students will ta	CGI 3219 Principles of Digital Effects o composite with digital photography based on the concepts of tr o use digital SLR cameras, apply digital darkroom techniques, crea standing of lighting and perspective with the use of compositing softw Visual Effects I CGI 3219 Principles of Digital Effect siting especially rotoscoping, chroma-keying, matte creation, how ter er and render it with professional multi-pass rendering and time-based Digital Painting for Visual Effects	aditional compositing ide tively manage transparer are. 3 Credits to seamlessly blend CG a compositing techniques. 3 Credits s. Assignments will focus color keys for lighting re
Prerequisite: Students will learn to Students will learn to and develop an unders CGI 3221 Prerequisite: Techniques of compo live action film togethe CGI 4217 Prerequisite: Development of a hig production illustratior ence. Students will ta	CGI 3219 Principles of Digital Effects o composite with digital photography based on the concepts of tr o use digital SLR cameras, apply digital darkroom techniques, crea standing of lighting and perspective with the use of compositing softw Visual Effects I CGI 3219 Principles of Digital Effect siting especially rotoscoping, chroma-keying, matte creation, how the er and render it with professional multi-pass rendering and time-based Digital Painting for Visual Effects CGI 3213 Digital Image for Digital Production gh-end concept art portfolio for film, animation and game industrie as for film and game pitches, environment illustrations and quick of ilor their work to the style of their selection from realism to a more	aditional compositing ide tively manage transparer are. 3 Credits to seamlessly blend CG a compositing techniques. 3 Credits s. Assignments will focus color keys for lighting re
Prerequisite: Students will learn to Students will learn to and develop an unders CGI 3221 Prerequisite: Techniques of compo- live action film togethe CGI 4217 Prerequisite: Development of a hig production illustration ence. Students will ta on working in the indu CGI 4222 Prerequisite: Relevant new techniq	CGI 3219 Principles of Digital Effects o composite with digital photography based on the concepts of tr o use digital SLR cameras, apply digital darkroom techniques, crea standing of lighting and perspective with the use of compositing softw Visual Effects I CGI 3219 Principles of Digital Effect siting especially rotoscoping, chroma-keying, matte creation, how the er and render it with professional multi-pass rendering and time-based Digital Painting for Visual Effects CGI 3213 Digital Image for Digital Production gh-end concept art portfolio for film, animation and game industrie hs for film and game pitches, environment illustrations and quick of ilor their work to the style of their selection from realism to a more istry and portfolio critiques. Visual Effects II	aditional compositing ide tively manage transparer are. 3 Credits to seamlessly blend CG a compositing techniques. 3 Credits s. Assignments will focus color keys for lighting re stylized form as well as to 3 Credits

the proje mple present it to the committee with all documents included.

CGI 4225 Prerequisite:	Art Thesis II CGI 4223 Art Thesis I	6 Credits
The class project corr orientation related to discussed through the mastery with emphas	ntinues from CGI 4223 Art Thesis I. In this class students will cor their project's achievement. Technical and aesthetic skill set of e exploration of projects. Students continue to develop content d is on the identification and utilization of individual strengths in the c st finish their final project and organize their Art Thesis Exhibition in pu	the advanced skill w lelivery, story and tec ontext of a production
CIS 1401	Keyboards Harmony I	2 Credits
Basic and intermedia lead sheets reading.	te keyboard playing skills involving keyboard techniques, keyboar Students will be introduced to triads, melody, comping, seventh ings and melody with accompaniment. Training of students in using creativity.	chords families, har
CIS 1402 Prerequisite:	Keyboards Harmony II CIS 1401 Keyboard Harmony I	2 Credit
Further development	of CIS 1401-Keyboard Harmony I. Skills involving keyboard tech chord voicings, melody with accompaniment and also training of stu- eir musical creativity.	
CIS 1501	Instrumental Instruction I	2 Credits
	formance techniques and interpretation of fine art music. Princip nd, brass or voice	al instrument: guitar,
CIS 1502 Prerequisite:	Instrument Instruction II CIS 1501 Instrument Instruction I	2 Credits
Further development	of performance techniques and interpretation of fine art music. voodwind, brass or voice, based on student's selection of instrume	
CIS 2503 Prerequisite:	Instrument Instruction III CIS 1502 Instrumental Instruction II	2 Credits
Further development	of performance techniques and interpretation of fine art music. woodwind, brass or voice, based on student's selection of instrume	
CIS 2504 Prerequisite:	Instrument Instruction IV CIS 2503 Instrumental Instruction III	2 Credits
Further development	of performance techniques and interpretation of fine art music. voodwind, brass or voice, based on student's selection of instrum	
CIS 3505 Prerequisite:	Instrument Instruction V CIS 2504 Instrumental Instruction IV	2 Credits
	of performance techniques and interpretation of fine art music.	Duto stored to store south

Computer Graphics Design Portfolio CGI 3212 Computer Graphics Design Studio V

3 Credits

CGI 4224

Prerequisite:

## the previous course.

Prerequisite:	Instrument Instruction VI CIS 3505 Instrumental Instruction V	2 Credits
Further development	of performance techniques and interpretation of fine art mus voodwind, brass or voice, based on student's selection of inst	sic. Principal instrument: guitar,
CIS 4507 Prerequisite:	Instrument Instruction VII CIS 3506 Instrumental Instruction VI	2 Credits
Further development	of performance techniques and interpretation of fine art mus voodwind, brass or voice, based on student's selection of inst	sic. Principal instrument: guitar,
CIS 4508 Prerequisite:	Instrument Instruction VIII CIS 4507 Instrumental Instruction VI	2 Credits
Further development	of performance techniques and interpretation of fine art mus voodwind, brass or voice, based on student's selection of inst	sic. Principal instrument: guitar,
CMP 1201 Prerequisite:	Contemporary Arranging I MU 1112 Theory of Western Music II	3 Credits
Musical concepts of r arranging for the rhy ment, two horns (Tru	nelody, rhythm, harmony, and form as applied to the principles thm section (drums, bass, guitar, keyboards, basic percussion) a npet plus alto or tenor saxophone), or voice with focus on the co s to create a musically satisfying arrangement.	and techniques of writing and nd a lead-line for a solo instru-
CMP 1202 Prereguisite:	Contemporary Arranging II CMP 1201 Contemporary Arranging I	3 Credits
1		
Properties of the trui arranging processes tone backgrounds wit	mpet, alto saxophone, tenor saxophone, trombone, and baritor of standard and spread voicings, approach techniques, melo ch focus on application of processes to soli and background writ s of these instruments.	ne saxophone, and the writing/ odic embellishment, and guide
Properties of the trun arranging processes tone backgrounds wit five- part combination CMP 2601 Prerequisite:	mpet, alto saxophone, tenor saxophone, trombone, and baritor of standard and spread voicings, approach techniques, melo th focus on application of processes to soli and background writ s of these instruments. Practicum in Music Technology MU 1401 Computer for Musicians	ne saxophone, and the writing/ dic embellishment, and guide ting for two-, three-, four- , and 3 Credits
Properties of the trun arranging processes tone backgrounds wit five- part combination CMP 2601 Prerequisite: Development of skills	mpet, alto saxophone, tenor saxophone, trombone, and baritor of standard and spread voicings, approach techniques, melo th focus on application of processes to soli and background writ s of these instruments. Practicum in Music Technology	ne saxophone, and the writing/ odic embellishment, and guide ting for two-, three-, four- , and 3 Credits
Properties of the trun arranging processes tone backgrounds wit five- part combination CMP 2601 Prerequisite: Development of skills and recording. Studen CMP 2602	mpet, alto saxophone, tenor saxophone, trombone, and baritor of standard and spread voicings, approach techniques, melo th focus on application of processes to soli and background writ s of these instruments. Practicum in Music Technology MU 1401 Computer for Musicians and concepts necessary for the effective use of various music	ne saxophone, and the writing/ odic embellishment, and guide ting for two-, three-, four- , and 3 Credits
Properties of the trun arranging processes tone backgrounds with five- part combination CMP 2601 Prerequisite: Development of skills and recording. Studen CMP 2602 Prerequisite: Acquisition of technic	mpet, alto saxophone, tenor saxophone, trombone, and baritor of standard and spread voicings, approach techniques, melo th focus on application of processes to soli and background writ s of these instruments. Practicum in Music Technology MU 1401 Computer for Musicians and concepts necessary for the effective use of various music ts will schedule weekly hands-on time in the MIDI lab. Song Demo Production	ne saxophone, and the writing/ dic embellishment, and guide ting for two-, three-, four- , and 3 Credits  technology tools in sequencing 3 Credits  professional quality song dem-
Properties of the trun arranging processes tone backgrounds wit five- part combination CMP 2601 Prerequisite: Development of skills and recording. Studen CMP 2602 Prerequisite: Acquisition of technic os. Hands-on knowled CMP 3105 Prerequisite:	mpet, alto saxophone, tenor saxophone, trombone, and baritor of standard and spread voicings, approach techniques, melo th focus on application of processes to soli and background writ s of these instruments. Practicum in Music Technology MU 1401 Computer for Musicians and concepts necessary for the effective use of various music ts will schedule weekly hands-on time in the MIDI lab. Song Demo Production CMP 2601 Practicum in Music Technology al, interpersonal and group skills needed in the development of ge in professional music production (pre production, production ar Traditional Harmony I MU2114 Theory of Western Music IV	ne saxophone, and the writing/ idic embellishment, and guide ting for two-, three-, four- , and 3 Credits  technology tools in sequencing 3 Credits  professional quality song dem- nd post production protocol). 2 Credits
Properties of the trun arranging processes tone backgrounds wit five- part combination CMP 2601 Prerequisite: Development of skills and recording. Studen CMP 2602 Prerequisite: Acquisition of technic os. Hands-on knowled CMP 3105 Prerequisite: Harmonic principles monic function, seco harmonic functions, ac	mpet, alto saxophone, tenor saxophone, trombone, and baritor of standard and spread voicings, approach techniques, melo th focus on application of processes to soli and background writ s of these instruments. Practicum in Music Technology MU 1401 Computer for Musicians and concepts necessary for the effective use of various music ts will schedule weekly hands-on time in the MIDI lab. Song Demo Production CMP 2601 Practicum in Music Technology al, interpersonal and group skills needed in the development of ge in professional music production (pre production, production ar Traditional Harmony I	ne saxophone, and the writing/ dic embellishment, and guide ting for two-, three-, four- , and 3 Credits  technology tools in sequencing 3 Credits  professional quality song dem- nd post production protocol). 2 Credits  Practice Period): diatonic har- d, augmented sixth chords, en- chromatic mediants, coloristic
Properties of the trun arranging processes tone backgrounds wit five- part combination CMP 2601 Prerequisite: Development of skills and recording. Studen CMP 2602 Prerequisite: Acquisition of technic os. Hands-on knowled CMP 3105 Prerequisite: Harmonic principles monic function, seco harmonic functions, a	mpet, alto saxophone, tenor saxophone, trombone, and baritor of standard and spread voicings, approach techniques, melo th focus on application of processes to soli and background writ s of these instruments. Practicum in Music Technology MU 1401 Computer for Musicians and concepts necessary for the effective use of various music ts will schedule weekly hands-on time in the MIDI lab. Song Demo Production CMP 2601 Practicum in Music Technology al, interpersonal and group skills needed in the development of ge in professional music production (pre production, production ar Traditional Harmony I MU2114 Theory of Western Music IV and techniques of the Classical art music tradition (Common ndary dominants, modulation, mode mixture, Neapolitan chorce altered dominants, common-tone diminished seventh chords,	ne saxophone, and the writing, dic embellishment, and guide ting for two-, three-, four- , and 3 Credits  technology tools in sequencing 3 Credits  professional quality song dem- nd post production protocol). 2 Credits  Practice Period): diatonic har- d, augmented sixth chords, en- chromatic mediants, coloristic

developments. Development of score analysis skills and analytical skills required for non-tonal music.

developments. Develop	ment of score unarysis skills and analytical skills required for non-conc	
CMP 3204 Prerequisite:	Arranging for Songwriting CMP 1202 Contemporary Arranging II	2 Credits
Writing effective arrang rhythm section, backgro	gements around a lead vocal with various ensemble backing, ound vocals, synthesizers, a small horn section, and a small strin lls, and use of various textures including background vocals, horns, st	g section including groove,
CMP 3303 Prerequisite:	Chord Scale Voicings for Arranging CMP 1202 Contemporary Arranging II	2 Credits
Five- and six-part writing	ng for instruments. Application of voicings in seconds, thirds, a r non-mechanical voicings derived from chord scales.	nd fourths. Upper-structure
CMP 3601 Prerequisite:		2 Credits
Fundamental songwritir	ng techniques. Development of basic skill through the awareness and rhythm. Lyric and vocal considerations. Students will comp	
CMP 3602 Prerequisite:	Advanced Songwriting CMP 3601 Songwriting	2 Credits
	nd melody. Continued exploration of songwriting techniques inclunsive score analysis.	uding modulation, modality,
CMP 3603 Prerequisite:	Music Production for all Media CMP 2602 Song Demo Production	3 Credits
Musical Instrument Dig	ital Interface (MIDI) and its many applications, with an emphasis nd other devices. Students will use computer-based workstations	
CMP 3604 Prerequisite:	Jingle Writing CMP 2602 Song Demo Production Or CMP 3603 Music Production for all media	2 Credits
Various aspects related to	o jingle writing – composition, product image, instrumentation, and	timing.
CMP 3611 Prerequisite:	Vocal and Lyric Writing MU 2114 Theory of Western Music IV	2 Credits
Writing and production	techniques for vocals – background vocals, a cappella, Gospel, r ding and exploration of the structural aspects of Lyric writing, foc	
CMP 4109 Prerequisite:	Reharmonization Techniques MU 2114 Theory of Western Music IV	2 Credits
Practical techniques of	functional, extended, and bass line reharmonization. Incomplet ished chord. Application of these techniques for the writing of tur	
CMP 4110 Prerequisite:	Jazz Composition MU 2114 Theory of Western Music IV	2 Credits
Systematic approach to principles. Standard jaz	<ul> <li>the art of composing in the jazz idiom. Exploration of melod</li> <li>z song form. Analysis of jazz standards. Arranging consideration. Projects for small jazz group required.</li> </ul>	

Introduction to two-part counterpoint within a diatonic context.

CMP 4118 Prerequisite:	Counterpoint II CMP 4117 Counterpoint I	2 Credits
	vo, three and four part counterpoint – canon, invention, fugue, and cl	norale prelude.
CN 0400	Chinese for Beginners I	3 Credits
	pronunciation, Chinese Romanization-Pinyin and everyday conv	ersation focusing on basic
CN 0401 Perquisite:	Chinese for Beginners II CN 0400 Chinese for Beginners I	3 Credits
Basic vocabularies and se	entence patterns to develop the listening and speaking skills in daily l	ife.
CN 1400	Introduction to Chinese	3 Credits
Mandarin sound system	n, pronunciation, writing of Chinese characters, fundamental Chine ng on listening and speaking skills.	ese grammar and everyday
CN 1401 Prerequisite:	Chinese I CN 1400 Introduction to Chinese	3 Credits
	texts concerning with everyday life to broaden basic vocabularies and	l Chinese grammar.
CN 1430	Listening and Speaking in Chinese I	1 credit
	d speaking simple sentences and daily-life conversations with en	nphasis on correct pronun-
CN 1431 Prerequisite:	Listening and Speaking in Chinese II CN 1430 Listening and Speaking in Chinese I	1 credit
Practice of listening and	speaking conversations in everyday situation focusing on fluency.	
CN 2401 Prerequisite:	Chinese II CN 1401 Chinese I	3 Credits
Conversations and texts matical structures.	in the intermediate level to expand the number of vocabularie	s and knowledge of gram-
CN 2402 Prerequisite:	Chinese III CN 2401 Chinese II	3 Credits
Practical exercises in for on Chinese life and cultu	ur language skills focusing on grammatical points and oral exp re.	ressions, and reading texts
CN 2431 Prerequisite:	Chinese Oral Comprehension and Expression I CN 1431 Listening and Speaking in Chinese II	2 credits
	d to general interests and oral practice of summary on the selected to	opics.
CN 2432	Chinese Oral Comprehension and Expression II	2 credits
istening to conversatio	inese Oral Comprehension and Expression I ons and texts related to Chinese culture and current situations a he selected topics and actual experience.	and practice of recounting
CN 3403 Prerequisite:	Chinese IV CN 2402 Chinese III	3 credits

Reading of academic texts, practice of writing a short paragraph, and introduction to literary Chinese : vocabulary, expressions, sentence structures, and idiomatic usage.

CN 3410 Prerequisite:	Business Communication in Chinese CN 2402 Chinese III	3 credits
	s in business writing, various forms of business correspondences, res duct descriptions.	sumes, agenda,
CN 3434 Prerequisite:	Chinese Conversation and Discussion I CN 2432 Chinese Oral Comprehension and Expression II	3 credits
	pics related to academic and career purposes with emphasis on discussion s	skills.
CN 3435 Prerequisite:	Chinese Conversation and Discussion II CN 3430 Chinese Conversation and Discussion I	3 credits
	usiness topics and development of fluency and accuracy in discussion.	
CN 3433 Prerequisite:	Chinese from Audio-Visual Media CN 3430 Chinese Conversation and Discussion I	3 credits
	om audio-visual aids, and practice of recounting, analytical and discussion sl	kills.
CN 3441 Prerequisite:	Chinese Reading and Oral Report CN 2402 Chinese III	3 credits
	s of texts related to current political, social, economic situations and pra g oral reports.	ctice of gather-
CN 3450 Prerequisite:	Introduction to Chinese Writing CN 2402 Chinese III	3 credits
Practice of writing correct se	entences, notes, diaries, summaries and essays with emphasis on using ssions in the appropriate formats.	the right Chi-
CN 3463 Prerequisite:	Introduction to Chinese Culture CN 3403 Chinese IV	3 credits
Development of Chinese cult	ture from the Xia dynasty to the modern era focusing on significant h plishments in the science, arts and literature and specific features of Ch	
CN 3470 Prerequisite:	Translation I: Chinese-Thai CN 2402 Chinese III	3 credits
	translation from Chinese to Thai and practice of translation of sentence	es, paragraphs,
CN 3480 Prerequisite:	Chinese for Secretaries CN 2402 Chinese III	3 credits
5	ies in Chinese, practice of spoken and written Chinese in secretarial con work schedules, memoranda, agenda and minutes.	texts, and writ-
CN 3481 Prerequisite:	Chinese for Tourism CN 2402 Chinese III	3 credits
General knowledge and Chin	lese terminology in tourism industry, description of Thailand's tourist att as of tour guides and practice of Chinese oral communication as a tour guide	
CN 3482 Prerequisite:	Chinese for Hotels CN 2402 Chinese III	3 credits
	nese terminology in hotel industry, duties and responsibilities of person	nel in hotel in-

General knowledge and Chinese terminology in hotel industry, duties and responsibilities of personnel in hotel in dustry and practice of Chinese communication in hotel industry context.

CN 3483 Prerequisite:	Chinese for Service Industries CN 2402 Chinese III	3 credits
	, and conversations used in service industries: airlines, hospitals,	restaurants, banks, and
CN 4433 Prerequisite:	Public Speaking in Chinese CN 3432 Chinese Conversation and Discussion II	3 credits
Basic principles and pra	actice of public speaking for persuasive purposes, selection and ev ation, voice and non-verbal communicative means.	valuation of materials for
CN 4434 Prerequisite:	Advanced Listening and Speaking in Chinese I CN 3432 Chinese Conversation and Discussion II	3 credits
	ns and texts for business purposes and oral practice of presenting t and systematically.	he information, idea and
CN 4435 Prerequisite:	Advanced Listening and Speaking in Chinese II CN 4434 Advanced Listening and Speaking in Chinese I	3 credits
	lvanced level and practice of analyzing and criticizing the selected	d texts and making oral
	Reading in Business Chinese	3 credits
CN 4440 Prerequisite:	CN 3403 Chinese IV	
Prerequisite:	-	/5.
Prerequisite: Development of reading CN 4442 Prerequisite:	CN 3403 Chinese IV proficiency in business-related materials, writing summaries and review Reading in Chinese Newspapers CN 3403 Chinese IV	rs. 3 credits
Prerequisite: Development of reading CN 4442 Prerequisite: Reading and analyzing	CN 3403 Chinese IV proficiency in business-related materials, writing summaries and review Reading in Chinese Newspapers	3 credits
Prerequisite: Development of reading CN 4442 Prerequisite: Reading and analyzing writing. CN 4460	CN 3403 Chinese IV proficiency in business-related materials, writing summaries and review Reading in Chinese Newspapers CN 3403 Chinese IV	3 credits
Prerequisite: Development of reading CN 4442 Prerequisite: Reading and analyzing writing. CN 4460 Prerequisite: Overall development of	CN 3403 Chinese IV proficiency in business-related materials, writing summaries and review Reading in Chinese Newspapers CN 3403 Chinese IV of various newspaper articles and understanding of expressions a Survey of Chinese Literature CN 3403 Chinese IV Chinese literature from the beginning to the present day, and rea	3 credits and styles used in news 3 credits
Prerequisite: Development of reading CN 4442 Prerequisite: Reading and analyzing writing. CN 4460 Prerequisite: Overall development of poetry, fiction and drama	CN 3403 Chinese IV proficiency in business-related materials, writing summaries and review Reading in Chinese Newspapers CN 3403 Chinese IV of various newspaper articles and understanding of expressions a Survey of Chinese Literature CN 3403 Chinese IV Chinese literature from the beginning to the present day, and rea	3 credits and styles used in news 3 credits
Prerequisite: Development of reading CN 4442 Prerequisite: Reading and analyzing writing. CN 4460 Prerequisite: Overall development of poetry, fiction and drama CN 4471 Prerequisite:	CN 3403 Chinese IV proficiency in business-related materials, writing summaries and review Reading in Chinese Newspapers CN 3403 Chinese IV of various newspaper articles and understanding of expressions a Survey of Chinese Literature CN 3403 Chinese IV Chinese literature from the beginning to the present day, and rea A. Translation II: Thai-Chinese	3 credits and styles used in news 3 credits ding selections in prose, 3 credits
Prerequisite: Development of reading CN 4442 Prerequisite: Reading and analyzing writing. CN 4460 Prerequisite: Overall development of poetry, fiction and drama CN 4471 Prerequisite: Methods and technique articles and texts. CN 4491 Prerequisite:	CN 3403 Chinese IV proficiency in business-related materials, writing summaries and review Reading in Chinese Newspapers CN 3403 Chinese IV of various newspaper articles and understanding of expressions a Survey of Chinese Literature CN 3403 Chinese IV Chinese literature from the beginning to the present day, and rea a. Translation II: Thai-Chinese CN 3470 Translation I: Chinese-Thai es of translation from Thai to Chinese and practice of translation of Seminar on Selected Topics Consent of Instructor	3 credits and styles used in news 3 credits ding selections in prose, 3 credits
Prerequisite: Development of reading CN 4442 Prerequisite: Reading and analyzing writing. CN 4460 Prerequisite: Overall development of poetry, fiction and drama CN 4471 Prerequisite: Methods and technique articles and texts. CN 4491 Prerequisite:	CN 3403 Chinese IV proficiency in business-related materials, writing summaries and review Reading in Chinese Newspapers CN 3403 Chinese IV of various newspaper articles and understanding of expressions a Survey of Chinese Literature CN 3403 Chinese IV C Chinese literature from the beginning to the present day, and rea a. Translation II: Thai-Chinese CN 3470 Translation I: Chinese -Thai es of translation from Thai to Chinese and practice of translation of Seminar on Selected Topics	3 credits and styles used in news 3 credits ding selections in prose, 3 credits of sentences, paragraphs, 3 credits

Basic concepts of improvisation: techniques, scales, and analysis of classic solos in a variety of idioms, including but not limited to Blues, Rock, Country, and Ethnic traditions, assimilation of these influences into what is commonly called "Jazz Improvisation". Students will complete 6 projects per semester, using computer and/or live performances in class.

CPS 1102 Prerequisite:	Jazz Improvisation II CMS 1101 Jazz Improvisation I	2 Credits
	of improvising skills. Continuation of computer and/or live performances	s in class.
CPS 2101 Prerequisite:	Jazz Improvisation III CMS 1102 Jazz Improvisation II	2 Credits
Further development	of improvising skill. Continuation of computer and/or live performa Fusion Jazz improve techniques.	nces in class with primary
	Performance Ear Training I MU 0102 Ear Training II	2 Credits
Recognizing pitch, rh	ythm, harmony, and timbre by ear with emphasis on practical pe nt's instrument in class, dictation, sight singing, transcription, and memo	
CPS 3402 Prerequisite:	Performance Ear Training II CPS 3401 Performance Ear Training I	2 Credits
Continuation of Perforwith emphasis on pra	rmance Ear Training I. Development of recognizing pitch, rhythm, hat icitical performance experience and utilization of the student's instruiscription, and memorization projects.	
CPS 4401 Prerequisite:	Jazz Recital CIS 4507 Instrumental Instruction VII	2 Credits
	ire for performance in public and at the recital workshop for performanc	e majors.
DA 1121	Basic Mathematics and Statistics	3 Credits
Basic foundation in m	nathematics and statistics such as algebra, trigonometry, collection I and numerical, and elementary of probability.	of data, summarizing data
DA 2101 Prerequisite:	Calculus I DA 1121 Basic Mathematics and Statistics	3 Credits
Rate of change, limits	s, finding limits and continuity, derivatives of function, chain rule, te opital's rule. Integration, integration techniques and application of integ	
DA 2102 Prerequisite:	Calculus II DA 2101 Calculus I	3 Credits
Transcendental function	on and differential equations for the first order and the second orc inite series, multivariable functions and their derivatives, and multiple in	
DA 2103	Principles of Statistics DA 1121 Basic Mathematics and Statistics	3 Credits
Prerequisite:		
Prerequisite: Introduction of statist ance, introduction to	ical methods such as collection of data, tabulation, statistical compu probability, sampling distribution, statistical estimation and test of h ons, Analysis of Variance (ANOVA), and Chi-square test.	
Prerequisite: Introduction of statisti ance, introduction to tion and two populatic DA 2201 Prerequisite:	probability, sampling distribution, statistical estimation and test of h ons, Analysis of Variance (ANOVA), and Chi-square test. Linear Algebra DA 2101 Calculus I	
Prerequisite: Introduction of statisti ance, introduction to tion and two populatic DA 2201 Prerequisite: Systems of linear equ	probability, sampling distribution, statistical estimation and test of hons, Analysis of Variance (ANOVA), and Chi-square test. Linear Algebra	ypotheses for one popula- 3 Credits aces, polar coordinate and

Quantitative methods such as correlation analysis, linear regression, introduction to time series forecasting, non-parametric statistical methods, quality control and decision making.

DA 2204 Prerequisite:	Statistical Packages DA 2103 Principles of Statistics	3 Credits
Structures and uses of	of software packages, design of statistical software, choosing the s niques and summarizing of data.	tatistical tools in data analy-
DA 3201 Prerequisite:	Statistical Inferences and Theory of Probability DA 2203 Probability and Statistical Methods	3 Credits
Probability theory, co distributions, expecta	onditional probability and independence, discrete and continuous tions and variances of random variables, central limit theorems, in as maximum likelihood, Bayes' estimator, unbiased and minimum ng of hypotheses.	ferential statistics, point esti-
DA 3202	Databases System and Data Warehouse Concepts	3 Credits
Basic concepts and	elements of file and database systems and data-warehouse, dat se technologies and applications of database and information manage	
DA 3203	Nonparametric Methods	3 Credits
Non-parametric statis	stical test in the case of one sample, two dependent samples, t ependent samples, and measures of association.	wo independent samples, k
DA 3301 Prerequisite:	Principles of Data Collection Methods DA 2103 Principles of Statistics	3 Credits
Characteristics of col	lecting data from survey and experimental designs, probability s methods, how to design an experimental study including statistic	
DA 3302	Qualitative Research for Business and Application	3 Credits
Characteristics of de	signing and conducting qualitative research methods in busin depth survey, ethnography, content analysis, and laddering analysis.	ess research including case
DA 3303 Prerequisite:	Quantitative Research for Business and Application DA 2103 Principles of Statistics	3 Credits
Characteristics of des ing research problem	igning and conducting quantitative research methods in business is, questionnaire design, data gathering techniques, sampling desi gata and report presentation.	5
DA 3304	Intelligence Systems	3 Credits
Techniques and basic cial intelligence devel analysis, insurance, m	principles of artificial intelligence, the basic knowledge-based ex lopment, the application of artificial intelligence in industries, produ- nedication, engineering and other appropriate business. Each type stem and techniques used for particular type of business.	uct design, planning, finance,
DA 3305	Data Mining Methods	3 Credits
Introduction and term	ninologies of Data Mining, techniques for exploring to meaningful ru on (Apiori, FP-Growth), Classification and Cluster (SOM, K-Mean, Hierac	5 .
DA 3306	Statistical Forecasting Techniques I	3 Credits
Industrial and busine analysis; time series	ess forecasting techniques such as simple linear regression analyse analysis with decomposition methods, smoothing methods, the E me application of forecasting techniques to industrial and business prol	Box-Jenkins methodology for

Multivariate techniques such as discriminant analysis, principal component analysis, factor analysis, multidimensional scaling, graphical exploration and representation of multivariate data, analysis of multivariate categorical data, MANOVA and uses of multivariate statistical computer packages.

DA 3402	Data Analysis	3 Credits
Philosophy of explor	atory data analysis in the case of multivariate data, time series data g data, include estimation and hypothesis testing of parameters,	1
DA 4299	Senior Project	3 Credits
Prerequisite:	The fourth-year student status with at least 100 Credits complete	ted
Specific project whic	h requires students to apply the knowledge acquired to application The instructor will advise students throughout the project development n their project.	
DA 4301 Prerequisite:	Operations Research I DA 2103 Principles of Statistics	3 Credits
	, transportation problem, assignment problem, PERT/CPM technic rry.	ques, inventory, decisior
DA 4302	Operations Research II	3 Credits
Prerequisite:	DA 4301 Operations Research I	
	ov chain, dynamic programming and non-linear programming.	
DA 4303	Counselor Workshop	3 Credits
consulting, developin	tionship, consulting sessions, communication skills, professional ethi g models, searching the literature for relevant background material, ng, and critical assessment.	
DA 4304	Customer Relationship Management and E-Business	3 Credits
Aspects of CRM, incl channels transformat	Customer Relationship Management and E-Business Iuding developing a market-oriented strategy, innovation in product ion, customer relationship marketing and customer care, how CRM I te an enterprise's revenue and profits and provide maximum customer sat	inks people, process, and
Aspects of CRM, incl channels transformat	luding developing a market-oriented strategy, innovation in product ion, customer relationship marketing and customer care, how CRM I	s and services, sales and inks people, process, and
Aspects of CRM, incl channels transformat technology to optimiz DA 4310 Prerequisite:	luding developing a market-oriented strategy, innovation in product ion, customer relationship marketing and customer care, how CRM I te an enterprise's revenue and profits and provide maximum customer sat Statistical Forecasting Techniques II DA 3306 Statistical Forecasting Techniques I	is and services, sales and inks people, process, and isfaction.
Aspects of CRM, incl channels transformat technology to optimiz DA 4310 Prerequisite: Non-linear multiple ro series analysis with t	luding developing a market-oriented strategy, innovation in product ion, customer relationship marketing and customer care, how CRM I te an enterprise's revenue and profits and provide maximum customer sat Statistical Forecasting Techniques II	s and services, sales and inks people, process, and isfaction. 3 Credits relation problem etc., time
Aspects of CRM, incl channels transformat technology to optimiz DA 4310 Prerequisite: Non-linear multiple ro series analysis with t problem etc., and app	luding developing a market-oriented strategy, innovation in product ion, customer relationship marketing and customer care, how CRM I te an enterprise's revenue and profits and provide maximum customer sat Statistical Forecasting Techniques II DA 3306 Statistical Forecasting Techniques I egression and its problems such as multicollinearity problem, autocorre the Box-Jenkins methodology for nonstationary data and its problem	s and services, sales and inks people, process, and isfaction. 3 Credits relation problem etc., time
Aspects of CRM, incl channels transformat technology to optimiz DA 4310 Prerequisite: Non-linear multiple re series analysis with t problem etc., and app DA 4311 Prerequisite:	Iuding developing a market-oriented strategy, innovation in product ion, customer relationship marketing and customer care, how CRM I te an enterprise's revenue and profits and provide maximum customer sat Statistical Forecasting Techniques II DA 3306 Statistical Forecasting Techniques I egression and its problems such as multicollinearity problem, autocorre he Box-Jenkins methodology for nonstationary data and its problem lication of forecasting techniques to industrial and business problems. Statistics for Quality Control DA 2103 Principles of Statistics	inks people, process, and inks people, process, and isfaction. 3 Credits relation problem etc., time is such as autocorrelation
Aspects of CRM, incl channels transformat technology to optimiz DA 4310 Prerequisite: Non-linear multiple re series analysis with t problem etc., and app DA 4311 Prerequisite: Control chart for vari	luding developing a market-oriented strategy, innovation in product ion, customer relationship marketing and customer care, how CRM I te an enterprise's revenue and profits and provide maximum customer sat Statistical Forecasting Techniques II DA 3306 Statistical Forecasting Techniques I egression and its problems such as multicollinearity problem, autocorr the Box-Jenkins methodology for nonstationary data and its problem lication of forecasting techniques to industrial and business problems. Statistics for Quality Control	as and services, sales and inks people, process, and isfaction. 3 Credits relation problem etc., time as such as autocorrelation 3 Credits
Aspects of CRM, incl channels transformat technology to optimiz DA 4310 Prerequisite: Non-linear multiple re series analysis with t problem etc., and app DA 4311 Prerequisite: Control chart for vari sampling plans.	luding developing a market-oriented strategy, innovation in product ion, customer relationship marketing and customer care, how CRM I te an enterprise's revenue and profits and provide maximum customer sat Statistical Forecasting Techniques II DA 3306 Statistical Forecasting Techniques I egression and its problems such as multicollinearity problem, autocorr he Box-Jenkins methodology for nonstationary data and its problem lication of forecasting techniques to industrial and business problems. Statistics for Quality Control DA 2103 Principles of Statistics	as and services, sales and inks people, process, and isfaction. 3 Credits relation problem etc., time as such as autocorrelation 3 Credits
Aspects of CRM, incl channels transformat technology to optimiz DA 4310 Prerequisite: Non-linear multiple re series analysis with t problem etc., and app DA 4311 Prerequisite: Control chart for vari sampling plans. DA 4319 Prerequisite:	luding developing a market-oriented strategy, innovation in product ion, customer relationship marketing and customer care, how CRM I te an enterprise's revenue and profits and provide maximum customer sat Statistical Forecasting Techniques I DA 3306 Statistical Forecasting Techniques I egression and its problems such as multicollinearity problem, autocorrishe Box-Jenkins methodology for nonstationary data and its problem lication of forecasting techniques to industrial and business problems. Statistics for Quality Control DA 2103 Principles of Statistics ables and control chart for attributes such as chart, R chart, S chart Introduction to Simulation DA 2103 Principles of Statistics	es and services, sales and inks people, process, and isfaction. 3 Credits relation problem etc., time as such as autocorrelation 3 Credits ; p chart, and acceptance
Aspects of CRM, incl channels transformat technology to optimiz DA 4310 Prerequisite: Non-linear multiple re series analysis with t problem etc., and app DA 4311 Prerequisite: Control chart for vari sampling plans. DA 4319 Prerequisite: Design and application	Iuding developing a market-oriented strategy, innovation in product ion, customer relationship marketing and customer care, how CRM I te an enterprise's revenue and profits and provide maximum customer sat Statistical Forecasting Techniques I DA 3306 Statistical Forecasting Techniques I egression and its problems such as multicollinearity problem, autocorriche Box-Jenkins methodology for nonstationary data and its problem lication of forecasting techniques to industrial and business problems. Statistics for Quality Control DA 2103 Principles of Statistics ables and control chart for attributes such as chart, R chart, S chart Introduction to Simulation	as and services, sales and inks people, process, and isfaction. 3 Credits elation problem etc., time is such as autocorrelation 3 Credits 5, p chart, and acceptance 3 Credits
Aspects of CRM, incl channels transformat technology to optimiz DA 4310 Prerequisite: Non-linear multiple re series analysis with t problem etc., and app DA 4311 Prerequisite: Control chart for vari sampling plans. DA 4319 Prerequisite: Design and application tic process with applic	Indiang developing a market-oriented strategy, innovation in product ion, customer relationship marketing and customer care, how CRM I te an enterprise's revenue and profits and provide maximum customer sat         Statistical Forecasting Techniques II         DA 3306 Statistical Forecasting Techniques I         egression and its problems such as multicollinearity problem, autocorre he Box-Jenkins methodology for nonstationary data and its problem         Ication of forecasting techniques to industrial and business problems.         Statistics for Quality Control         DA 2103 Principles of Statistics         ables and control chart for attributes such as       chart, R chart, S chart         Introduction to Simulation         DA 2103 Principles of Statistics	as and services, sales and inks people, process, and isfaction. 3 Credits elation problem etc., time is such as autocorrelation 3 Credits 5, p chart, and acceptance 3 Credits
Aspects of CRM, incl channels transformat technology to optimiz DA 4310 Prerequisite: Non-linear multiple re series analysis with t problem etc., and app DA 4311 Prerequisite: Control chart for vari sampling plans. DA 4319 Prerequisite: Design and application tic process with applic	Indiang developing a market-oriented strategy, innovation in product ion, customer relationship marketing and customer care, how CRM I te an enterprise's revenue and profits and provide maximum customer sat Statistical Forecasting Techniques II DA 3306 Statistical Forecasting Techniques I         Egression and its problems such as multicollinearity problem, autocorre the Box-Jenkins methodology for nonstationary data and its problem lication of forecasting techniques to industrial and business problems.         Statistics for Quality Control DA 2103 Principles of Statistics         ables and control chart for attributes such as chart, R chart, S chart         Introduction to Simulation DA 2103 Principles of Statistics         on of simulation for business or science by methods of queuing, mod ration software package such as GPSS.	as and services, sales and inks people, process, and isfaction. 3 Credits relation problem etc., time as such as autocorrelation 3 Credits c, p chart, and acceptance 3 Credits lels, Monte Carlo, stochas 3 Credits
Aspects of CRM, incl channels transformat technology to optimiz DA 4310 Prerequisite: Non-linear multiple re series analysis with t problem etc., and app DA 4311 Prerequisite: Control chart for vari sampling plans. DA 4319 Prerequisite: Design and application tic process with applic	Indiang developing a market-oriented strategy, innovation in product ion, customer relationship marketing and customer care, how CRM I te an enterprise's revenue and profits and provide maximum customer sat         Statistical Forecasting Techniques II         DA 3306 Statistical Forecasting Techniques I         egression and its problems such as multicollinearity problem, autocorre         he Box-Jenkins methodology for nonstationary data and its problem         lication of forecasting techniques to industrial and business problems.         Statistics for Quality Control         DA 2103 Principles of Statistics         ables and control chart for attributes such as         chart, R chart, S chart         Introduction to Simulation         DA 2103 Principles of Statistics         on of simulation for business or science by methods of queuing, modiation software package such as GPSS.         Applied Statistics for Decision Making	as and services, sales and inks people, process, and isfaction. 3 Credits relation problem etc., time as such as autocorrelation 3 Credits c, p chart, and acceptance 3 Credits lels, Monte Carlo, stochas 3 Credits

Special topics that the department and instructors think appropriate for students for detailed study and research in business data analysis.

DA 4390 Prerequisite:	Seminar in Business Data Analysis The fourth-year students and by the instructor's consent	3 Credits	ECO 3715 Prerequisite:	Introduction to Econometrics BG 2200 Statistics II and ECO 2502 Principles of Macroeconomics	3 Credits
	f statistics in business data analysis. Experts in specialized are I to give lectures on specialized topics. Each student will be		and multiple regressi	relationships, analyzing economic data, building economic mod on analysis, technical problems of multicollinearity, heteroscedar rror correction models and evaluating government and business	sticity, autocorrelation, dummy
ECO 1401	Economic Reasoning	3 Credits		International Trade	2 Cue dite
economic theories, bas	king to examine development of economics, structure and fr sic concepts in economic research analysis, concept of marg		ECO 3716 Prerequisite:	International Trade ECO 2501 Principles of Microeconomics	3 Credits
ception of cost benefit a	analysis.			of international trade, neoclassical trade theory to modern tra- dvantage, H-O Model, Standard Trade Model, Inter- and Intra-	
ECO 2501 Prerequisite:	Principles of Microeconomics ECO 1401 Economic Reasoning	3 Credits		policies and strategies in both developing countries and adva	
	ources in market economies, theory of consumption and proc n, cost, roles of firms, market mechanisms to determine pri		ECO 3717 Prerequisite: and	Intermediate Microeconomics ECO 2501 Principles of Microeconomics ECO 2502 Principles of Macroeconomics	3 Credits
ECO 2502 Prerequisite:	Principles of Macroeconomics ECO 1401 Economic Reasoning	3 Credits	forecasting, production	mic tools to the analysis of management decisions with emphon and cost analysis, market structure and competitive analysis, ing under uncertainty, organization design.	
ations, level of interest	ncome, macro-economic issues: unemployment, inflation, econ rates, savings and investment, exchange rate and balance or icies influencing the economy.		ECO 3721 Prerequisite:	Industrial Organization ECO 2501 Principles of Microeconomics	3 Credits
ECO 2503 Prerequisite:	Economy, Society and Government ECO 1401 Economic Reasoning	3 Credits	mance of firms, impa	avior in imperfectly competitive market, relationship between in acts of technological change on costs, profitability and industria tures, strategy of firms to create market power.	
	economy, society and government, influence of the governn pacts on both society and economy	nent policies, and the range of	ECO 3722 Prerequisite:	Business Cycles and Forecasting ECO 2502 Principles of Macroeconomics	3 Credits
ECO 3711 Prerequisite:	Intermediate Microeconomics ECO 2501 Principles of Microeconomics	3 Credits		ysis of business cycle fluctuation, theories of business cycles, metric and statistical techniques relevant to forecasting in a busines.	
	hoice: analysis of consumer preference and utility maximizat				
	cost minimization and factor demands, market structure: pr librium and welfare economics.	ice determination, competition,	ECO 3723 Prerequisites:	Public Finance ECO 2501 Principles of Microeconomics ECO 2502 Principles of Macroeconomics	3 Credits
ECO 3712 Prerequisite:	Intermediate Macroeconomics ECO 2502 Principles of Macroeconomics	3 Credits	-	vernment with emphasis on public expenditure and taxation, bu the economy, theory of taxation.	 Idgetary policy and impacts of
	nomic models, relationship between aggregate demand and a				
	ility, growth, and employment, theory of income determinati e closed and open economy, and implications of different theorie		ECO 3724 Prerequisites:	Comparative Economic Systems ECO 2501 Principles of Microeconomics ECO 2502 Principles of Macroeconomics	3 Credits
economic policies in the					
economic policies in the ECO 3713 Prerequisites:	Economics of Money and Banking ECO 2501 Principles of Microeconomics ECO 2502 Principles of Macroeconomics	3 Credits	developing countries,	n the major economic systems in the world: capitalism, socialism operation of modern market economy, variants of capitalism, to Asian economy.	
ECO 3713 Prerequisites: Money and capital mar	ECO 2501 Principles of Microeconomics	 of money, time value of money,	developing countries, market economy, the . ECO 3725	operation of modern market economy, variants of capitalism, the	
ECO 3713 Prerequisites: Money and capital mar	ECO 2501 Principles of Microeconomics ECO 2502 Principles of Macroeconomics kets, role of bank and non-bank financial institutions, theories	 of money, time value of money,	developing countries, market economy, the ECO 3725 Prerequisite: 	operation of modern market economy, variants of capitalism, tr Asian economy. Financial Economics ECO 3713 Economics of Money and Banking omic principles in the development of modern finance theory, th	ransformation of socialism into 3 Credits  neoretical models used finance,
ECO 3713 Prerequisites: Money and capital mar bonds, role of central ba ECO 3714 Prerequisite: Mathematical techniqu	ECO 2501 Principles of Microeconomics ECO 2502 Principles of Macroeconomics rests, role of bank and non-bank financial institutions, theories ank, conduct of monetary policy in stabilizing the economy, and Mathematical Economics	of money, time value of money, basic for IS-LM framework. 3 Credits	developing countries, market economy, the ECO 3725 Prerequisite: 	operation of modern market economy, variants of capitalism, tr Asian economy. Financial Economics ECO 3713 Economics of Money and Banking	ransformation of socialism into 3 Credits  neoretical models used finance,

International monetary theory, macroeconomics in open economy, balance of payments, foreign exchange market, exchange rate systems, theories of exchange rate determination, international financial markets and instruments, international macroeconomic policies.

ECO 4712 Prerequisites: or	Economics of Strategy ECO 3711 Intermediate Microeconomics ECO 3717 Managerial Economics	3 Credits
Strategy from the per- analysis of vertical and	spective of economics, economies of scale and scope as sour I horizontal integration, analysis of firm boundaries and diversi petitive approaches, analysis of strategic positioning for comp age strategies.	ces of competitive advantage, fication, industry and competi-
ECO 4721 Prerequisites:	Project Evaluation ECO 2501 Principles of Microeconomics FIN 3701 Corporate Finance	3 Credits
Feasibility study of inve discounted cash flow	estment project, application of economic and finance technique such as internal rate of return, net present value, pay-back p viability of business investment projects.	s to both discounted and non-
ECO 4722 Prerequisite:	Economics of Human Resources ECO 2501 Principles of Microeconomics	3 Credits
Economic analysis of h productivity theory, the	numan resources management, traditional model of labor dema eory of wage differentials and structure of earnings, human res ng and skills, human capital theory, labor relation and theory of ba	and and labor supply, marginal sources development and plan-
ECO 4723 Prerequisite:	Agricultural Economics and Agri-business ECO 2501 Principles of Microeconomics	3 Credits
Economic theory of ag price risks, market and	ricultural sector, nature of supply, demand and production in ag industry structures, role of the financial market and future exc the world market, and government intervention in agricultural sec	ricultural products, market and hange in agricultural products,
competitive strategy in		
ECO 4724	Economics of E-business BIS 2280 Information Technology ECO 2501 Principles of Microeconomics	3 Credits
ECO 4724 Prerequisites: Economic analysis of on cost of goods and	Economics of E-business BIS 2280 Information Technology ECO 2501 Principles of Microeconomics electronic business, linkage of e-business to economics, analy services, relationship between business and information techr	3 Credits  sis of impacts of e-commerce
ECO 4724 Prerequisites: Economic analysis of a	Economics of E-business BIS 2280 Information Technology ECO 2501 Principles of Microeconomics electronic business, linkage of e-business to economics, analy services, relationship between business and information techn and e-government. Economics of Sustainability ECO 2501 Principles of Microeconomics ECO 2502 Principles of Macroeconomics	3 Credits  sis of impacts of e-commerce
ECO 4724 Prerequisites: Economic analysis of o on cost of goods and commerce, e-business, a ECO 4725 Prerequisite: and Theoretical and empiric costs and benefits of	Economics of E-business BIS 2280 Information Technology ECO 2501 Principles of Microeconomics electronic business, linkage of e-business to economics, analy services, relationship between business and information techn and e-government. Economics of Sustainability ECO 2501 Principles of Microeconomics	3 Credits  sis of impacts of e-commerce tology, economic aspects of e- 3 Credits  ental policies around the world, water quality, toxic substances,
ECO 4724 Prerequisites: Economic analysis of o on cost of goods and commerce, e-business, a ECO 4725 Prerequisite: and Theoretical and empiric costs and benefits of	Economics of E-business BIS 2280 Information Technology ECO 2501 Principles of Microeconomics electronic business, linkage of e-business to economics, analy services, relationship between business and information techn and e-government. Economics of Sustainability ECO 2501 Principles of Microeconomics ECO 2502 Principles of Macroeconomics cal studies of the economic effects of national or local environment alternative environmental policies to deal with air pollution, v warming, pattern of resource use to meet human needs while press Business and Government ECO 2501 Principles of Microeconomics ECO 2502 Principles of Microeconomics ECO 2502 Principles of Microeconomics	3 Credits  sis of impacts of e-commerce tology, economic aspects of e- 3 Credits  ental policies around the world, water quality, toxic substances,
ECO 4724 Prerequisites: Economic analysis of o on cost of goods and commerce, e-business, a ECO 4725 Prerequisite: and Theoretical and empiric costs and benefits of solid waste, and global o ECO 4726 Prerequisites: Linkage between busi industrial policies) on	Economics of E-business BIS 2280 Information Technology ECO 2501 Principles of Microeconomics electronic business, linkage of e-business to economics, analy services, relationship between business and information techn and e-government. Economics of Sustainability ECO 2501 Principles of Microeconomics ECO 2502 Principles of Macroeconomics Cal studies of the economic effects of national or local environment alternative environmental policies to deal with air pollution, v warming, pattern of resource use to meet human needs while press Business and Government ECO 2501 Principles of Microeconomics	3 Credits  sis of impacts of e-commerce tology, economic aspects of e- 3 Credits  ental policies around the world, vater quality, toxic substances, erving the environment. 3 Credits  s (fiscal, monetary, trade and

EE 2201 Prerequisite:	Electric Circuits BG 1205 Calculus II BG 1213 Physics II	3 credits
Circuit elements, nod	e and mesh analysis, circuit theorems, resistance, inductance, a sor diagram, AC power circuits, three- phase systems.	
EE 2202	Electric Circuits Laboratory	1 credit
Prerequisite:	BG 1214 Physics Laboratory II	
Co-requisite:	EE 2201 Electric Circuits	
	e done according to EE 2201 Electric Circuits.	
EE 2203	Signals and Systems	3 Credits
Prerequisite:	BG 2207 Engineering Mathematics EE 2201 Electric Circuits	
Continuous-time and	discrete-time signal and system; linear time-invariant system ( e transform, and Z-transform; applications of signal and system	LTI); signal analysis using Fou-
EE 2401 Prerequisite:	Electromechanical Energy Conversion EE 2201 Electric Circuits	3 credits
	ion, transformer banking in three phases system, auto transformer.	
EE 2402 Co-requisite:	Electromechanical Energy Conversion Laboratory EE 2401 Electromechanical Energy Conversion	1 credit
EE 2402 Co-requisite: Laboratory works to be	Electromechanical Energy Conversion Laboratory EE 2401 Electromechanical Energy Conversion e done according to EE-2401 Electromechanical Energy Conversion.	1 credit 
EE 2402 Co-requisite: Laboratory works to be EE 2605 Prerequisite:	Electromechanical Energy Conversion Laboratory EE 2401 Electromechanical Energy Conversion e done according to EE-2401 Electromechanical Energy Conversion. Engineering Electronics BG 1213 Physics II	1 credit  3 credits
EE 2402 Co-requisite: Laboratory works to be EE 2605 Prerequisite: Semiconductor device analysis and design of EE 2606	Electromechanical Energy Conversion Laboratory EE 2401 Electromechanical Energy Conversion e done according to EE-2401 Electromechanical Energy Conversion. Engineering Electronics BG 1213 Physics II es; device current-voltage and frequency characteristics; analysis BJT and MOS transistor circuits; operational amplifier and its applica Engineering Electronics Laboratory	1 credit  3 credits  s and design of diode circuits;
EE 2402 Co-requisite: Laboratory works to be EE 2605 Prerequisite: Semiconductor device analysis and design of EE 2606 Co-requisite:	Electromechanical Energy Conversion Laboratory EE 2401 Electromechanical Energy Conversion e done according to EE-2401 Electromechanical Energy Conversion. Engineering Electronics BG 1213 Physics II es; device current-voltage and frequency characteristics; analysis BJT and MOS transistor circuits; operational amplifier and its applica Engineering Electronics Laboratory EE 2605 Engineering Electronics	1 credit  3 credits  s and design of diode circuits; ations. 1 credit
EE 2402 Co-requisite: Laboratory works to be EE 2605 Prerequisite: Semiconductor device analysis and design of EE 2606 Co-requisite: Laboratory works to be	Electromechanical Energy Conversion Laboratory EE 2401 Electromechanical Energy Conversion e done according to EE-2401 Electromechanical Energy Conversion. Engineering Electronics BG 1213 Physics II es; device current-voltage and frequency characteristics; analysis BJT and MOS transistor circuits; operational amplifier and its applica Engineering Electronics Laboratory EE 2605 Engineering Electronics e done according to EE 2605 Engineering Electronics.	1 credit  3 credits  s and design of diode circuits; ations. 1 credit 
EE 2402 Co-requisite: Laboratory works to be EE 2605 Prerequisite: Semiconductor device analysis and design of EE 2606 Co-requisite:	Electromechanical Energy Conversion Laboratory EE 2401 Electromechanical Energy Conversion e done according to EE-2401 Electromechanical Energy Conversion. Engineering Electronics BG 1213 Physics II es; device current-voltage and frequency characteristics; analysis BJT and MOS transistor circuits; operational amplifier and its applica Engineering Electronics Laboratory EE 2605 Engineering Electronics	1 credit  3 credits  s and design of diode circuits; ations. 1 credit
EE 2402 Co-requisite: Laboratory works to be EE 2605 Prerequisite: Semiconductor device analysis and design of EE 2606 Co-requisite: Laboratory works to be EE 3301 Prerequisite: Electrostatic fields; co	Electromechanical Energy Conversion Laboratory EE 2401 Electromechanical Energy Conversion e done according to EE-2401 Electromechanical Energy Conversion. Engineering Electronics BG 1213 Physics II es; device current-voltage and frequency characteristics; analysis BJT and MOS transistor circuits; operational amplifier and its applica Engineering Electronics Laboratory EE 2605 Engineering Electronics e done according to EE 2605 Engineering Electronics. Electromagnetic Fields BG 1205 Calculus II	1 credit 3 credits 3 credits; ations. 1 credit 3 credits 
EE 2402 Co-requisite: Laboratory works to be EE 2605 Prerequisite: Semiconductor device analysis and design of EE 2606 Co-requisite: Laboratory works to be EE 3301 Prerequisite: Electrostatic fields; co fields; time-varying ele	Electromechanical Energy Conversion Laboratory EE 2401 Electromechanical Energy Conversion e done according to EE-2401 Electromechanical Energy Conversion. Engineering Electronics BG 1213 Physics II es; device current-voltage and frequency characteristics; analysis BJT and MOS transistor circuits; operational amplifier and its applica Engineering Electronics Laboratory EE 2605 Engineering Electronics e done according to EE 2605 Engineering Electronics. Electromagnetic Fields BG 1205 Calculus II BG 1213 Physics II onductors and dielectrics; capacitance; convection and condu	1 credit 3 credits 3 credits; ations. 1 credit 3 credits 
EE 2402 Co-requisite: Laboratory works to be EE 2605 Prerequisite: Semiconductor device analysis and design of EE 2606 Co-requisite: Laboratory works to be EE 3301 Prerequisite: Electrostatic fields; co fields; time-varying ele EE 3402 Prerequisite:	Electromechanical Energy Conversion Laboratory EE 2401 Electromechanical Energy Conversion e done according to EE-2401 Electromechanical Energy Conversion. Engineering Electronics BG 1213 Physics II es; device current-voltage and frequency characteristics; analysis BJT and MOS transistor circuits; operational amplifier and its applica Engineering Electronics Laboratory EE 2605 Engineering Electronics e done according to EE 2605 Engineering Electronics. Electromagnetic Fields BG 1205 Calculus II BG 1213 Physics II onductors and dielectrics; capacitance; convection and conductors ctromagnetic fields; Maxwell's equations.	

results.

EE 3403	Electrical Machines Laboratory	1 Credit
	EE 3402 Electrical Machines	
	according to EE 3402 Electrical Machines.	
EE 3405	Digital Control Systems	3 Credits
Prerequisite:	EE 3404 Feedback Control Systems	
or	EE 3406 Control Systems	
Z-transform, Pulse transfer f	unction, Discrete equivalent to the continuous time systems olem with discretization and numerical round-off	, State-space models and
EE 3406	Control Systems	3 credits
Prerequisite:	EE 2203 Signals and systems	
Mathematical models of sys	tems, closed-loop and open-loop control system, transfer fur -domain analysis and design of control system; root locus, Electronic Circuit Design	nction, signal flow graphs, Nyquist plots; Bode plots, 3 credits
Prerequisite: or	EE 2603 Electronics Circuits Analysis	
or	EE 2605 Engineering Electronics	
	Electronic Circuit Design Laboratory EE 3601 Electronic Circuit Design	1 credit
	according to EE 3601 Engineering Electronic Circuit Design	
EE 3606	Electrical Instruments and Measurements	3 credits
Prerequisite:	EE 2201 Electric Circuits	
and	EE 2601 Electronic Devices and Circuits	
or	EE 2605 Engineering Electronics	
Units and standard of elec sis; measurement of dc and	trical measurement; instrument classification and characteris ac current and voltage using analog and digital instruments; neasurement of resistance, inductance, and capacitance; free ; transducers.	power, power factor, and
EE 3703	Microprocessor	3 credits
Prerequisite:	CE 2704 Digital Logic Design	
	troller: architecture, hardware, software, and interfacing.	
EE 3704	Embedded Systems	3 credits
Prerequisite:	EE 3703 Microprocessor	
Architecture, features and ir	nstruction sets of microcontrollers and DSP processors, interf s, external memory, peripherals, timers, DAC and ADC, sampl acquisition.	
EE 4201	Network Theory	3 Credits

EE 4201	Network Theory	3 Credits
Prerequisite:	EE 2201 Electric Circuits	

Components of electric circuits; non-time-varying linear circuit, steady-state analysis for sinusoidal signals, graph network theory, mesh and node analysis, state equation, natural frequency, network function, four terminal network, positive-real function, driving point synthesis with R-R, R-C-L, one-port and two-port synthesis, Foster and Maclaurin network synthesis.

EE 4301 Prerequisite:	Introduction to Electromagnetic Compatibility EE 3301 Electromagnetic Fields	3 Credits
Concepts of Electromagnet	ic Interferences (EMI) and EMC definitions, sources of EMI and d control, EMC standards, EMC testing techniques.	their characteristics, EM
EE4305 Prerequisite:	Digital Signal Processing EE 2203 Signals and Systems	3 credits
Basic concepts of digital si ransform, digital signal fil	gnal processing, fourier transform revision, discrete-time fouri tering, analog-digital conversion, sampling process, digital-anal onstruction of FIR and IIR, digital filter, effect of word length, res	og conversion, optimum
E 4401 Prerequisite:	Electric Drive EE 3402 Electrical Machines	3 Credits
Development of electric dr starting and braking, calcul	ives, moment of electric drives, types of duties, electric braking ation of motions of electric machines using analytical and graphi t tracking machines, electric circuits and controls of traction n of electric motors.	cal methods, calculations
EE 4402 Prerequisite:	Analysis and Design of Electrical Machines EE 3402 Electrical Machines	3 Credits
electrical transient in syncl	nronous and induction machines, repulsion motors, universal n protection of machines, introduction to generalized machines to design of some conventional electrical machines.	
E 4403	Basic Mechatronics	3 credits
Prerequisite:	ME 2210 Engineering Mechanics	
or Ind	ME 2211 Engineering Mechanics I EE 2401 Electromechanical Energy Conversion	
E 4501 Prerequisite:	Power System Analysis EE 3402 Electrical Machines	3 Credits
Transmission and distribution	on networks calculation; load flow; load flow control; symmetri analysis; power system stability; economic operation.	cal short circuit analysis
EE 4503 Prerequisite:	Electrical Systems Design EE 2401 Electromechanical Energy Conversion	3 credits
Basic design concepts, pow electrical drawing, load es	ver distribution schemes, codes and standards for electrical inst timation, wiring design, grounding, short-circuit calculation, co rement, emergency power systems.	
E 4504 Prerequisite:	Illumination Engineering EE 2201 Electric Circuits	3 Credits
	metric quantities, measurements of light, radiation from incand orescence, lamps and lighting fitting, light properties of constr ions.	-
EE 4505 Prerequisite:	Power System Protection EE 4501 Power System Analysis	3 Credits
Fundamental of protection	practices, instrument transformer and transducers, protection arth fault protection; differential protection, transmission line p	

EE 4506	High Voltage Engineering	3 Credits
Prerequisite:	EE 3301 Electromagnetic Fields	

Uses of high voltage and over voltage in power systems; generation of high voltage for testing; high voltage measurement techniques; electric field stress and insulation techniques, breakdown of gas; liquid and solid dielectric; high voltage testing techniques; insulation coordination.

EE 4507	Power Plant Engineering	3 Credits
Prerequisite:	EE 3402 Electrical Machines	

Electrical energy demand-prediction of load-load duration curve-load factor diversity factor. Conventional sources of energy generation: thermal power station- steam turbines and turbo generators-excitation control, auxiliaries and instrumentation; hydropower plants-types of hydraulic turbines and salient pole hydro generators and controls. Principles of operation of nuclear power plants-precautions, gas turbine power plants-captive power plants using diesel engines. Parallel operation and load sharing. Power station switch yard equipment- step up transformers, reactors, CBs, protection. Economic operation and method of loading. Non conventional energy sources and power generation: solar, wind, geothermal and MHD and future trends.

EE 4508	Power Plant and Substations	3 Credits
Prerequisite:	EE 3402 Electrical Machines	

Load curve, diesel power plant, steam power plant; gas turbine power plant, combined cycle power plant, hydro power plant, nuclear power plant, renewable energy sources, type of substation, substation equipment, substation layout, lightning protection, grounding system.

EE 4600	IC Technology	3 Credits
Prerequisite:	EE 2603 Electronics Circuits Analysis	

Crystal growth and sample preparation, magnetic cleaning, epitaxial processes, oxidation, diffusion, ion implantation, CVD, metallization, sputtering, lithography, etching, assembly, packaging, IC devices and components such as resistance, capacitors, diode etc., MOSIC, bipolar transistor IC.

EE 4602	Industrial Instrumentation and Control	3 credits
Prerequisite:	EE 3404 Feedback Control Systems	
or	EE 3406 Control Systems	

Analog and digital equipment and measuring instruments, various types of transducers, data processing and displays, techniques of system control in industry in order to be able to do some analysis, design, equipment selection and maintenance for the control system in industry.

EE 4603	Industrial Electronics	3 Credits
Prerequisite:	EE 3601 Electronic Circuit Design	
or	EE 2605 Engineering Electronics	

Solid-state devices in industry; sensors, light detector, time etc. and their applications, multiphase solid-state rectifier, voltage control, magnetic amplifier, integrated circuits, digital circuits, sequential control, digital control.

EE 4606	Industrial Electronics	3 Credits
Prerequisite:	EE 3601 Electronic Circuit Design	

Solid-state devices in industry; sensors, light detector, time etc. and their applications, multiphase solid-state rectifier, voltage control, magnetic amplifier, integrated circuits, digital circuits, sequential control, digital control.

EE 4606	Industrial Electronics	3 Credits
Prerequisite:	EE 3601 Electronic Circuit Design	
Solid-state devices in i	industry; sensors, light detector, time etc. and their applications, mu	Itiphase solid-state rectifier, vol

oltage control, magnetic amplifier, integrated circuits, digital circuits, sequential control, digital control.

EE 4701	Microprocessor Interface Techniques	3 Credits
Prerequisite:	EE 3703 Microprocessor	

Revision of 8-bit, 12-bit, 16-bit microprocessors, hardware, using programming in instruction sets. Emphasis will be placed on techniques of interfacing microprocessor to computer systems: (ISA, Serial communication port, Parallel communication port, PCI, SCSI, IDE, A/D & D/A converters). Project work piece and report are required to complete the course requirements.

EE 4705	Power Electronics	3 Credits
Prerequisite:	EE 2603 Electronic Circuit Analysis	
or	EE 2605 Engineering Electronics	
and	EE 3402 Electrical Machines	
Characteristics of power	electronics devices, power diode, thyristors, power bipolar; MOSFET, IGBT	, characteristics

Ch <u>^</u> of magnetic material, power transformer core, ferrite core, iron powder core, converters, ac to dc converter, dc to dc converter, ac to ac converter, dc to ac converter.

EE 4706 Prerequisite or Co-requisite:	Power Electronics Laboratory EE 4705 Power Electronics	1 Credit
	rding to EE 4705 Power Electronics	
EE 4901 Prerequisite:	Electrical and Electronic Engineering Project I Completion of 100 Credits	1 Credit
	project in electrical and electronics engineering. Students must sub	mit a report at the
EE 4902 Prerequisite:	Electrical and Electronic Engineering Project II EE 4901 Electrical and Electronic Engineering Project I	2 Credits
	e in electrical and electronic engineering Project I. Report is also req	uired at the end of
EE 4903 Prerequisite:	Advanced Topics in Electrical and/or Electronic Engineering Completion of 90 Credits with the consent of the Chairperson	3 Credits
	new developments on Electrical and/or Electronics Engineering.	
EE 4904 Prerequisite:	Special Problems in Electrical and/or Electronic Engineering Completion of 90 Credits with the consents of the Chairperson	3 Credits
	lems assigned by the instructor with the consent of the Faculty: a v	vritten report is re-
EN 2230 Prerequisite:	Listening and Speaking BG 2000 English III	3 Credits
	ening and speaking within the contexts of daily usage, academic and bus	iness.
EN 3210 Prerequisite:	Business Communication in English I BG 2000 English III	3 Credits
	inication in various forms, technical terms, appropriate formats to e	nsure clear and ef-
EN 3211 Prerequisite:	Business Communication in English II EN 3210 Business Communication in English I	3 Credits
	communication, both internal and external, its scope and importance nunication using various forms of media, significance and basic prin	
EN 3232 Prerequisite:	English Pronunciation I BG 2000 English III	3 Credits
<b>S</b> .	ronunciation with emphasis on individual sounds, sounds in words, y in academic, social and professional settings	phrases, and sen-
EN 3233 Prerequisite:	English Pronunciation II BG 2000 English III	3 Credits

Correct American English pronunciation with emphasis on practicing stress, rhythm and intonation, practice for speech intelligibility in academic, social and professional settings

EN 3240 Prerequisite:	Reading in Business English BG 2000 English III	3 Credits
Comprehension capacit	ty and speed in reading on current issues related to business ous texts outlines and short synopses of selected material as	s, interpretation of the structure
EN 3270 Prerequisite:	Translation: English-Thai BG 2000 English III	3 Credits
Purposes, methods and	I techniques of translation from English into Thai, developmen language, the use of words, idioms and structure for accuracy	t of skills in analyzing sentence
EN 3271 Prerequisite:	Translation: Thai-English BG 2001 English IV	3 Credits
Purposes, methods and	I techniques of translation from Thai into English, developmen nguage, the use of words, idioms and structure for accuracy i	nt of skills in analyzing sentence
EN 3281 Prerequisite:	English for Tourism BG 2000 English III	3 Credits
	rrect and efficient communication in all aspects of travel and tou	
EN 3282 Prerequisite:	English for Hotels BG 2000 English III	3 Credits
	ed in hotel administration, reception, services and business conta	
EN 3283 Prerequisite:	English for International Trade BG 2000 English III	3 Credits
	skills and general concepts of import/export and international bu	
EN 3284 Prerequisite:	English for Property Development BG 2000 English III	3 Credits
English skills and speci	al terminology used in property development and property l f property development	
EN 3287 Prerequisite:	English for Office Management BG 2000 English III	3 Credits
English skills and profit	ciency for office management, practice in office work arranger iate work etiquette and professionalism	
EN 3288 Prerequisite:	English for Airline Business BG 2000 English III	3 Credits
	skills used in airline business, basic knowledge of the aviat y for airline business	
EN 3289 Prerequisite:	English for Music Business BG 2000 English III	3 Credits
	skills, terminology, and printed materials used in the music indust	
EN 4232 Prerequisite:	Business Conversation EN 3210 Business Communication in English I	3 Credits
Practice in conversation	n on topics related to business, development of efficiency in gs, effective problem-solving in small groups.	

EN 4233 Prerequisite:	Public Speaking in English BG 2001 English IV	3 Credits
	king skills in public, methods and practice for better informati nd visual aids.	ve and persuasive speaking
EN 4240 Prerequisite:	-	3 Credits
Analysis of various fo	rms of journalism: headline news, columns, editorials, news fea ess and the impact of journalism on society	atures and interesting topic
EN 4241 Prerequisite:	Critical and Analytical Reading BG 2001 English IV	3 Credits
Development of critica	al and analytical reading skills, identification of various types of economic and humanitarian issues	rhetorical strategies, analysi
EN 4250 Prerequisite:	Understanding, Note-taking and Summarizing BG 2001 English IV	3 Credits
Advanced skills in und	lerstanding, note-taking, outlining and summarizing both in written n the organizing and drafting of detailed business reports	n and spoken texts related t
EN 4252 Prerequisite:	Article Writing BG 2001 English IV	3 Credits
	of article and essay writing for various media	
EN 4253 Prerequisite:	Introduction to Public Relations Writing BG 2001 English IV	3 Credits
	relations writing, use of research and language techniques to cr stakeholders, government and general public	reate good relationships wit
EN 4254 Prerequisite:	Academic Writing BG 2001 English IV	3 Credits
	Is for communication within academic and business contexts in	an internationally accepte
EN 4256 Prerequisite:	Introduction to Business Research Writing EN 3210 Business Communication in English I	3 Credits
	ls in business research, practice in writing for clarity and efficier ness research documents	ncy with correct terminolog
EN 4262 Prerequisite:	Reading of Modern Viewpoints BG 2001 English IV	3 Credits
Reading and discussion	ns of texts representing recent thoughts and views on the humar future development, analysis of written documents published for variety of fields	
EN 4266 Prerequisite:	Reading Thai Literary Works in English By consent of the instructor	3 Credits
Recent literary works	and other texts written in English, or translated into English by ne political, social and religious concepts embedded in the writir	
	Aspects of American Culture	3 Credits

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EN 4272	Translation in Business English	3 Credits
Prerequisite:	BG 2001 English IV	
or	EN 3270 Translation: English-Thai	
or	EN 3271 Translation: Thai-English	

Translation of business contents in printed materials and media from English into Thai and Thai into English

EN 4291	Seminar in Business English	3 Credits
Prerequisite:	By consent of the instructor	

Seminar on selected topics related to business or business English, case study in a form of workshop and/or panel discussion for efficient communicative and leadership skills

FIN 2700	Money, Banking and Financial Markets	3 Credits
Prerequisite:	BG 1200 Mathematics for Business	

Principles of money, financial system, financial intermediaries, financial markets, interest rate determination, money supply and the impacts of monetary and fiscal policies on money supply, financial statements analysis, pricing of debt instruments, time value of money, foreign exchange system, banking products and services, application of principles of finance on the money management including financial planning, personal investment, budgeting, tax planning, credit management, insurance protection, and retirement planning.

FIN 3701	Corporate Finance	3 Credits
Prerequisite:	FIN 2700 Money, Banking and Financial Markets	
or	ECO 3713 Economics of Money and Banking	

Introduction to corporate financial management and comprehensive overview from managerial perspectives, theories related to the corporate investment, financing options and decision making, time value of money, securities valuation, analysis of financial statement, cash flow and leverage, working capital management, cost of capital, capital structure, and capital budgeting for corporation.

FIN 3711	Investment	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Fundamental knowledge of investment: definitions, theories, implementations, and decision making in the financial markets including philosophical basis of investment principles, risk and expected return relationship, company and securities analysis, valuation frameworks and methodologies, portfolio management theory, portfolio management and analysis, capital market theory, capital market efficiency, fixed income valuation, and introduction to derivative securities.

FIN 3712	Money and Capital Markets	3 Credits
Prerequisite:	FIN 2700 Money, Banking and Financial Markets	
or	ECO 3713 Economics of Money and Banking	

A comprehensive study of concepts, theories and application of financial system including financial markets, financial institutions, financial risks, financial assets, covering topics such as interest rate, asset pricing, flow of funds, term structure of interest, duration, loanable fund theory, money and capital markets with respect to structural characteristics, operations, roles, regulations, management, instruments, and market participants, a discussion of government, Central Bank and regulators, and financial institutions such as pension funds, mutual funds and insurance companies with respect to their operations, products/services, challenges and trends.

FIN 3713	Business Analysis and Valuation	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Financial statements as a framework for business analysis by applying integrating the concepts of accounting, economics and business perspectives to examine the companies' performance, value the companies, and evaluate the potential investment opportunity in order to make sound business decisions.

FIN 3714	Business Condition Analysis	3 Credits
Prerequisite:	BG 2400 Macroeconomics	

Understanding of the working of macro-economy that crucially affects business activities such as production, consumption and investment by using tools of macroeconomic theory and applying them to an analysis of the change in economic environment that caused by economic growth, business cycle, unemployment, inflation, aggregate

demand and aggregate supply, national income, money supply, interest rate, international trade and exchange rate in order to understand the impact of government's and the Central Bank's policies on industry, financial market economy and business environment.

FIN 3715	Personal Finance	3 Credits
Prerequisite:	FIN 2700 Money, Banking and Financial Markets	
or	ECO 3713 Economics of Money and Banking	

Conceptual framework for making personal financial planning, management and decision, available techniques and tools, importance of personal finance, personal income, spending and budgeting, money management, wealth management, debt management, risk management, credit management, taxes implications, basic investment techniques, investment planning and strategies (saving, credit and debt instruments, life and property insurance, mutual funds, retirement, housing and automobile decision, consumer credits, etc.), consumer financial responsibilities, and current issues in personal finance.

FIN 3716	Export-Import Procedure and Financing	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Institutional arrangements, methods, and techniques used to finance international trade with special emphasis on export-import financing within Thailand, government's and financial institutions' rules, regulations and services, financial markets for export-import financing instruments, risk-return aspects of international trades, insurance needs, use of letters of credits, international factoring, accounts receivable insurance, other financing techniques, required export-import documentation, export-import rules and regulations and pertinent customs procedures and practices.

FIN 3723	Central Banking System and Policy	3 Credits
Prerequisite:	FIN 2700 Money, Banking and Financial Markets	
or	ECO 3713 Economics of Money and Banking	

Basic principles and practical implementation of the Central banking, functioning of the financial markets in an attempt to better understand the monetary policy transmission and how the Central bank's operations affect financial institutions and economic system of the country, causes and management of banking crises with emphasis on policies designed to prevent them, such as capital adequacy regulations, deposit insurance, and lender of last resort function of the Central banks.

FIN 3724	Financial Feasibility Planning	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Theories with practice to assess structure, procedures and data of an investment project in order to evaluate its feasibility, investment opportunities, relationship between financial feasibility and other related factors: economic feasibility, marketing situations, and legal framework in making investment decision.

FIN 3725	Managerial Economics	3 Credits
Prerequisites:	BG 2400 Macroeconomics	
	BG 2401 Microeconomics	

Application of economic theories, methodologies and analysis to develop essential tools for making optimal decision, demand-supply analysis and estimation, production and cost analysis under different market structures, forecasting, competitive analysis, game theory, and decision making under uncertainty.

FIN 3726	Financial Statement Analysis	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Principles, concepts, analytical process and techniques employed in interpretation and analysis of financial statements in assessing a firm's performance, prospects and value in order to make business decision, comprehensive analysis of financing activities, investing activities, operating activities, cash flows, return on invested capital, profitability, prospective financial statements, and credit.

FIN 3727	Real Estate Investment Analysis and Valuation	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Real estate valuation, real estate investment, portfolio management, legal aspects of real estate, discounted cash flow, common real estate valuation models, appraisal of real estate development projects, choices of discount rate, risk and return, analysis of risk-return characteristics of commercial real estate, construction of real estate portfolios, diversification in real estate, efficiency of real estate market and its inflation hedging characteristics, real estate portfolio strategies, and performance measurement.

FIN 3728	Fixed Income Securities	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Fixed income instruments and fixed income markets such as technical terms used in the industry, properties of different types of fixed income securities, assessment of value of instruments, techniques used to analyze the market, assessment and control of risk, methods to evaluate direction of changes in interest rates and impact of changes in interest rates on pricing, hedging of forwards, futures and swaps, asset-backed securities, and other fixed income derivatives leading to construction of fixed income investment strategies to achieve expected return on investment.

FIN 3733	Institutional Banking for Emerging Markets	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Characteristics and functions of institutional banking in emerging markets including financial system, products, market factors, legal issues, and risk management of institutional banking, crisis, culture risk and country risk of emerging countries, micro finance, commodity finance, problems encountered in the emerging markets and solutions to the problems, current issues regarding institutional banking in emerging markets, and global banking cases applied to facilitate the understanding of new practices and techniques.

FIN 3734	Financial Mathematics	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Basic calculus for applications in finance and economics, brief review of polynomials, trigonometric, exponential, and logarithmic functions, discussion of derivatives, integration and differential equations as well as applications to real-world problem areas such as marginal analysis, growth and decay, asset-pricing models, and optimization.

FIN 4721	Laws and Practices in Finance	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Legal guide to the application of Thai laws, rules, and regulations to finance industry, focusing on financial institutions laws regulated by the Bank of Thailand (BOT) such as capital requirement, liquidity requirement, and deposit guarantee scheme as well as capital market laws regulated by the Securities and Exchange Commission (SEC) such as issuance of securities, public offering of securities, takeover, to starting a securities businesses and derivatives businesses in Thailand.

FIN 4811	Risk Management	3 Credits
Prerequisite:	FIN 3711 Investment	

Financial and non-financial risks framework including concepts, process and practical application containing analytical techniques in identifying, quantifying, assessing, controlling risk and making risk management decision; financial risks including credit risk, market risk and liquidity risk, regarding equity, bond, interest rate, currency, and derivative instruments as well as non-financial risks such as business risk, operational risk, policy risk, legal risk, and reputational risk.

FIN 4812	International Finance	3 Credits
Prerequisite:	IN 3701 Corporate Finance and Senior standing (106 credits)	

International finance and financial environment focusing on the managerial aspects of international financial management from the MNCs' perspectives, international financial markets, foreign exchange markets, exchange rate determinations, policies and strategies adopted by MNCs in assessing, planning and managing their foreign exchange rate risk exposures, and international financing, and capital structure decision.

FIN 4813	Financial Management	3 Credits
Prerequisite:	FIN 3701 Corporate Finance and Senior standing (100 credits)	

Advanced financial management with emphasis on practical application and case-study approach to strategically evaluate the performance of corporations and create value for shareholders, financial planning and forecasting, cash budgeting, capital structure, capital budgeting, cost of capital, firm valuation, dividend policies, working capital management, and corporate risk management.

FIN 4815	Bank Management	3 Credits
Prerequisite:	FIN 3713 Business Analysis and Valuation	

Management and regulations of commercial banks, essential elements in the process of commercial bank management; assets, liabilities and capital management, liquidity management, credit management, risk management,

international banking regulatory standards, organization and structure of the commercial banking industry, impact of bank regulatory changes, and current issues on the banking industry.

bank regulatory changes, and current issues on the banking industry.		
FIN 4817 Prerequisite:	Portfolio Management and Security Analysis FIN 3711 Investment	3 Credits
monitoring, simplified port	eories and models in terms of security analysis, portfolio const folio selection process, optimum portfolio and selection process, through economic, industry and business analysis.	-
FIN 4818	Seminar in Investment	3 Credits
Prerequisite:	Senior standing (121 credits)	
derivatives investment, the tance in the financial mark of Thailand: SET and Thail	instruments regarding equity investment, fixed income instru- ories or definition to acknowledge various types of investment xets by applying case studies. Student will attend seminars org and Securities Institute: TSI as well as share experience with o is fields of business and research.	products and their impor- anized by Stock Exchange
FIN 4819	Contemporary Issues in Finance	3 Credits
Prerequisite:	Department approval and Senior standing (121 credits)	
Contemporary issues in finance and applying theories into real world practices regarding corporate governance, venture capital, merger and acquisition, financial law, business sustainability, investment banking, simulation, wealth management, financial planning, microfinance, and Islamic bank.		

FIN 4821	Behavioral Finance	3 Credits
Prerequisites:	FIN 3701 Corporate Finance and	
	MGT 2404 Managerial Psychology	

How individuals and firms make financial decisions and how these decisions might deviate from those predicted by traditional financial or economics theories, existence of psychological biases in financial decision-making, examination of the impacts of these biases on the financial markets and other financial settings, investigation of how insights of behavioral finance complement traditional finance paradigm, limited arbitrage, style investing, stock valuation, portfolio construction, asset allocation, and risk management.

FIN 4822	Individual Research	3 Credits
Prerequisite:	Department approval and Senior standing (Finance and Banking M	ajor)
· · · · · · · · · · · · · · · · · · ·	ing theoretical financial concepts and theories to real world proble	<b>U</b>

in a selected industry in Thailand, with a specific area of concentration selected by students upon the agreement of a supervisor assigned by the Finance and Banking Department and a submission of a typewritten report and analysis at the end of the semester.

FIN 4832	Entrepreneurial Finance	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Venture capital, financing new or small and medium sized enterprises including techniques for forecasting and planning the firm's investment needs, identifying and valuing business opportunities, sources of capital and characteristics, credits and banking relationship, working capital management, assets investment, risk management, business planning, structuring deals, and managing through multiple stages of financing.

FIN 4833	Wealth Management	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Wealth management by using practical portfolio construction and management, life cycle wealth management, purpose and structure of financial services industry and economic factors that affect investment returns, basis relationship between adviser and client and codes of conduct governing business dealings, process of giving financial advice, importance of regular reviews of a client's circumstances, asset allocation and management, financial assets and markets, investment funds and planning, valuation and risk management, retirement and protection planning, real estate, alternative investment products and tax planning.

Prerequisite:	Quantitative Analysis for Financial Decision FIN 3711 Investment	3 Credits
Modern quantitative concept of financial models of how finan	methods including statistical and financial techniques and mathe econometric for analyzing financial data supporting financial dec cial markets operate and address the relationship among various rder to support financial decision-making.	cision-making, and testing the
FIN 4921 Prerequisite:	Corporate Strategy and Financial Policies FIN 3701 Corporate Finance and Senior standing (121 Cred	
Corporate strategy, firent issues in finance	nancial policies and theoretical framework used in making corpo e including capital structure, mergers and acquisitions, corporate ng, leveraged buyouts, tax implications, and other topics related to t business situations.	rate decision focusing on cur- e takeovers, financial strategy,
FIN 4922 Prerequisite:	Derivatives Securities FIN 3711 Investment	3 Credits
energy, and other der FIN 4923 Prerequisite:	Advanced Valuation FIN 3713 Business Analysis and Valuation	3 Credits
Advanced valuation	FIN 3713 Business Analysis and Valuation	proximate the market estimate
	ort the valuation analysis, sources of return decomposition, real c assets and small firm valuation, taxation, mergers and acquisitic vate equity.	
FIN 4924 Prerequisite:	-	3 Credits
	nanagement, role and responsibility towards stakeholders, capital	structure and dividend policy
Advanced financial n of the firm, advanced mergers and acquisi national finance, adv	difination of the and responsibility towards statentities, capital difinancial analysis and planning, advanced investment valuation a tions, corporate reconstruction and reorganization, evaluation of ranced risk management techniques, and identification and asses rding finance and financial management.	of alternative advanced inter-
Advanced financial n of the firm, advanced mergers and acquisi national finance, adv	d financial analysis and planning, advanced investment valuation a tions, corporate reconstruction and reorganization, evaluation o ranced risk management techniques, and identification and asses	of alternative advanced inter-
Advanced financial n of the firm, advanced mergers and acquis national finance, adv emerging issues regain FIN 4925 Prerequisite: Financial modeling a ing financial decision financial modeling a	d financial analysis and planning, advanced investment valuation a tions, corporate reconstruction and reorganization, evaluation of ranced risk management techniques, and identification and asse ding finance and financial management. Introduction to Modeling	of alternative advanced inter- ssment of potential impact of 3 Credits n of financial models in mak- nd R) in handling complicate

Prerequisite:	French for Beginners II FR 0500 French for Beginners I	3 Credits
Intermediate French gramma everyday situations.	r, practice of listening, speaking reading and writing in simple French	in a range of

FR 1500	Introduction to French	3 Credits
FR 1500	Introduction to French	3 Credits

Introduction to fundamental grammar, practice of reading and writing short essay and dialogues on various areas, use of oral comprehension and expressions.

	nar, reading basic texts and dialogues concerned with everyday ting paragraph.	life in French-speaking cour
FR 2501 Prerequisite:	French II FR 1501 French I	3 Credits
	structure, reading texts and dialogues concerned with everyday ting short articles.	life in French-speaking cour
FR 2502 Prerequisite:		3 Credits
Advanced grammar sti	ructure, reading texts and dialogues concerned with everyday I ting short articles with complex sentences.	life in French-speaking cour
FR 3503 Prerequisite:	Introduction to Business French FR 2502 French III	3 Credits
	s vocabulary, practice of reading and writing business texts.	
FR 3510 Prerequisite:	Business Communication in French I FR 2502 French III	3 Credits
	s in business, various types and forms of letters, practice of liste in business context.	ening, speaking, reading an
writing texts and letters FR 3511 Prerequisite:	in business context. Business Communication in French II FR 3510 Business Communication in French I	aning, speaking, reading an 3 Credits
writing texts and letters FR 3511 Prerequisite: Review technical term	in business context. Business Communication in French II	3 Credits
writing texts and letters FR 3511 Prerequisite: Review technical term writing different types o FR 3520	in business context. Business Communication in French II FR 3510 Business Communication in French I s in business letters, study advanced French for career purpose	3 Credits
writing texts and letters FR 3511 Prerequisite: Review technical term writing different types of FR 3520 Prerequisite: Nature, structure and	in business context. Business Communication in French II FR 3510 Business Communication in French I s in business letters, study advanced French for career purpose of business letters with complex forms and contents. Introduction to French Linguistics	3 Credits es, practice of speaking an 3 Credits
writing texts and letters FR 3511 Prerequisite: Review technical term writing different types of FR 3520 Prerequisite: Nature, structure and patterns. FR 3530	in business context. Business Communication in French II FR 3510 Business Communication in French I s in business letters, study advanced French for career purpose of business letters with complex forms and contents. Introduction to French Linguistics FR 2502 French III	3 Credits es, practice of speaking an 3 Credits
writing texts and letters FR 3511 Prerequisite: Review technical term writing different types of FR 3520 Prerequisite: Nature, structure and patterns. FR 3530 Prerequisite: Practice of listening, or	in business context. Business Communication in French II FR 3510 Business Communication in French I s in business letters, study advanced French for career purpose of business letters with complex forms and contents. Introduction to French Linguistics FR 2502 French III use of spoken language, features of French language: phonem Oral Comprehension and Expression	3 Credits es, practice of speaking an 3 Credits nics, phonetics and gramma 3 Credits
writing texts and letters FR 3511 Prerequisite: Review technical term writing different types of FR 3520 Prerequisite: Nature, structure and patterns. FR 3530 Prerequisite: Practice of listening, or ics. FR 3531	in business context. Business Communication in French II FR 3510 Business Communication in French I s in business letters, study advanced French for career purpose of business letters with complex forms and contents. Introduction to French Linguistics FR 2502 French III use of spoken language, features of French language: phonem Oral Comprehension and Expression FR 2502 French III	3 Credits es, practice of speaking an 3 Credits nics, phonetics and gramma 3 Credits
writing texts and letters FR 3511 Prerequisite: Review technical term writing different types of FR 3520 Prerequisite: Nature, structure and patterns. FR 3530 Prerequisite: Practice of listening, or ics. FR 3531 Prerequisite:	in business context. Business Communication in French II FR 3510 Business Communication in French I s in business letters, study advanced French for career purpose of business letters with complex forms and contents. Introduction to French Linguistics FR 2502 French III use of spoken language, features of French language: phonem Oral Comprehension and Expression FR 2502 French III ral comprehension and discussion, technique of giving opinion and French Conversation and Discussion I	3 Credits es, practice of speaking an 3 Credits nics, phonetics and gramma 3 Credits nd argument on various top 3 Credits

3 Credits

FR 1501

Prerequisite:

French I

FR 1500 Introduction to French

FR 3535 Basic Conversation in Business French I 3 Credits Prerequisite: FR 2501French II

Practice of listening and speaking skills with emphasis on business topics, formal and informal business conversation.

FR 3536 Prerequisite:	Basic Writing in Business French I FR 2501 French II	3 Credits
	ills through intensive practical exercises in grammar and vocabula im vitae., advertisement, signs used in business, such as in hote	ary, writing documents related
FR 3541 Prerequisite:	French Reading and Oral Report FR 2502 French III	3 Credits
	retainability of data and oral report through business articles.	
FR 3570 Prerequisite:	Translation: French-Thai (or FR3531 French Conversation and Discussion I - for interr FR 2502 French III	3 Credits national students)
Translation of senten advertisement and we	ces, paragraphs and articles from various sources : extracts from ebsites, selection of proper words, idioms and structures to conve iginal documents, discussion on some major problems specific to	n articles, newspapers, books ey the accurate meanings and
FR 3580 Prerequisite:	French for Secretaries FR 2502 French III	3 Credits
	s in hearing, speaking, reading and writing of the French lang and techniques of business communication, practice of comp French for Tourism FR 2502 French III	
	nguage in tourism, a field trip with the professional guide, genera	al knowledge of tourism bus
	French for Hotels FR 2502 French III	3 Credits
Various dialogues of		•
Prerequisite: Various dialogues of and outside calls, Fren FR 4504	FR 2502 French III French as used in hotels and restaurants. reception, services and ch-Thai foods and beverages, French wine. Business French I	•
Prerequisite: Various dialogues of and outside calls, Fren FR 4504 Prerequisite: Development of spok	FR 2502 French III French as used in hotels and restaurants. reception, services and ch-Thai foods and beverages, French wine.	d message taking from insid 3 Credits
Prerequisite: Various dialogues of and outside calls, Fren FR 4504 Prerequisite:	FR 2502 French III French as used in hotels and restaurants. reception, services and ch-Thai foods and beverages, French wine. Business French I FR 3503 Introduction to Business French	d message taking from insid 3 Credits
Prerequisite: Various dialogues of and outside calls, Fren FR 4504 Prerequisite: Development of spok French. FR 4505 Prerequisite: Review of advanced	FR 2502 French III French as used in hotels and restaurants. reception, services and ch-Thai foods and beverages, French wine. Business French I FR 3503 Introduction to Business French en and written skills in business contexts with advanced vocabula Business French II	d message taking from insid 3 Credits ary, in-depth study of busines 3 Credits
Prerequisite: Various dialogues of and outside calls, Frence FR 4504 Prerequisite: Development of spok French. FR 4505 Prerequisite: Review of advanced analytical skills. FR 4532 Prerequisite:	FR 2502 French III French as used in hotels and restaurants. reception, services and ch-Thai foods and beverages, French wine. Business French I FR 3503 Introduction to Business French ren and written skills in business contexts with advanced vocabula Business French II FR 4504 Business French I business French vocabulary with emphasis on fluency of speal French Conversation and Discussion II FR 3531 French Conversation and Discussion I	d message taking from insid 3 Credits ary, in-depth study of busines 3 Credits king and writing, critical an 3 Credits
Prerequisite: Various dialogues of and outside calls, Fren FR 4504 Prerequisite: Development of spok French. FR 4505 Prerequisite: Review of advanced analytical skills. FR 4532 Prerequisite:	FR 2502 French III French as used in hotels and restaurants. reception, services and ch-Thai foods and beverages, French wine. Business French I FR 3503 Introduction to Business French ren and written skills in business contexts with advanced vocabula Business French II FR 4504 Business French I business French vocabulary with emphasis on fluency of speal French Conversation and Discussion II	d message taking from insid 3 Credits ary, in-depth study of busines 3 Credits king and writing, critical an 3 Credits

Methods and techniques of listening, speaking and deliver speeches, practice of argumentation, non-verbal communication and language behavior, selection and evaluation of materials for speech; organization of information, thought, voice, action, and the optimal speaker-listener relation.

FR 4540 Prerequisite:	Reading in Business French FR 2502 French III	3 Credits
Techniques of readin	g articles in business contexts, interpretation of factors and purp short synopses of selected material and leading discussions on the a	
FR 4542 Prerequisite:	Reading French Magazines and Newspapers FR 3503 Introduction to Business French	3 Credits
Readings and analys current interest and	es of various articles, with the study of the vocabulary and the obsiness oriented, study of French language press in particular: internet, and its impact on the French-speaking society and disc	newspapers, magazines and
FR 4572 Prerequisite:	Translation in Business French FR 3503 Introduction to Business French	3 Credits
	n from French into Thai: various types of articles and business et articles, etc.	data from newspapers, texts
FR 4573 Prerequisite:	Aspects of French-Speaking Countries FR 2502 French III	3 Credits
	tries' life style, thought patterns, mentality, civilization and interdiscip	linary studies.
FR 4590 Prerequisite:	Seminar Consent of Instructor	3 Credits
	sing Business French. Workshop and panel discussions.	
FR 4591 Prerequisite:	Selected Topics in French Studies FR 2502 French III	3 Credits
	nch language or culture on assigned topics.	
FT 3100 Prerequisite:	Introduction to Food Technology BS 2006 Basic Biochemistry	3 Credits
Role of food industry and manufacture of cial foods, current co	in relation to modern societies, scientific principles and operation food, food composition, nutrition labeling and marketing of a rep onsumer issues such as the safety of food additives, food irradiation t, food regulations and future trends in food supplies.	resentative range of comme
FT 3102 Prerequisite:	Food Engineering BT 3013 Introduction to Bio-processing Engineering	3 Credits
Concepts and principers, evaporators, dry	bles of engineering for various unit operations in food-industry, inders, refrigerators, boilers, retorts, and size reduction equipment, a	
sessions.	Food Microbiology BS 2011 Introduction to Microbiology	3 Credits
FT 3103 Prerequisite:		
Prerequisite: Microorganisms in fo pathogens e.g. bact	bood safety and spoilage, their growth parameters, main character eria, viruses, parasites and fungi, contamination routes and su e means for controlling, a background to practically identify and tory sessions.	rviving in foods, subsequer

Importance of nutrition in daily life, dietary nutrients, chemical composition, food sources, roles and functions in human body, the digestion, absorption, and metabolism of nutrients, diseases associated with nutrient deficiency, and appropriate nutrition for people through the life cycle for example pregnancy and lactation, infancy, childhood, and adolescence, adulthood and the later years.

Prerequisite:	Human Nutrition BS 2006 Basic Biochemistry	3 Credits	FT 411!
Importance of nutritie	on in daily life, dietary nutrients, chemical composition, food	source, roles and functions in hu-	Prerequ or
	tion, absorption, and metabolism of nutrients, diseases associan for people through the life cycle for example pregnancy and and the later years.		Chemic and ve gies in
FT 3106 Prerequisite:	•••	3 Credits	FT 4116
Fundamental knowle ing, dehydration, irra	dge of commercial food processing, thermal processing, lov diation and chemical preservation, food variables, food quali vaste treatment in food factory, and corresponding laboratory ses	v temperature processing, freez- ty and raw material preparation,	Prerequand
FT 3108	Food Chemistry I	3 Credits	Chemis ism, fo
Prerequisites:	BS 2004 Analytical Chemistry BS 2006 Basic Biochemistry		corresp
Basic food componer	nts, water, carbohydrate, protein and lipid, their chemistry go anges of food components during processing and storing, ch poratory sessions.		FT 4112 Prerequ or
FT 3109 Prerequisite:		3 Credits	Milk pr comme corresp
Chemistry of pigmer in different foods, ch	nts, odor and food additives, factors affecting properties, fu emical reaction of enzymes, changes and contamination of t	nctions, sources and mechanism oxic substances in foods, theory,	FT 4120 Prerequ
selection, analysis tech	and use of food with scientific instrument and corresponding lab		
FT 4108 Prerequisite:	nniques of food with scientific instrument, and corresponding lab Industrial Food Processing II FT 3106 Industrial Food Processing I	3 Credits	Types sacchai pounds sion
FT 4108 Prerequisite: Processing technolog ery, dairy, appropriat	Industrial Food Processing II	3 Credits  bultry, fishery, bakery, confection-	saccha pound sion. FT 412
FT 4108 Prerequisite: Processing technolog ery, dairy, appropriat	Industrial Food Processing II FT 3106 Industrial Food Processing I ies of food products, fruit and vegetable, cereal, meat and po ed packaging, and factors affecting product qualities during	3 Credits  bultry, fishery, bakery, confection-	sacchai pounds
FT 4108 Prerequisite: Processing technolog ery, dairy, appropriat plant layout, advanced FT 4110 Prerequisite: Basic principles of ma buying behavior, food	Industrial Food Processing II FT 3106 Industrial Food Processing I ies of food products, fruit and vegetable, cereal, meat and po ed packaging, and factors affecting product qualities during food processing, and corresponding laboratory sessions. Food Marketing and Management	3 Credits bultry, fishery, bakery, confection- storage and transportation, basic 3 Credits	sacchai pounds sion. FT 412
FT 4108 Prerequisite: Processing technolog ery, dairy, appropriat plant layout, advanced FT 4110 Prerequisite: Basic principles of ma buying behavior, food	Industrial Food Processing II FT 3106 Industrial Food Processing I ies of food products, fruit and vegetable, cereal, meat and po ed packaging, and factors affecting product qualities during a food processing, and corresponding laboratory sessions. Food Marketing and Management BG 2403 Introduction to Economics arketing and management of food products, environmental fac d marketing research, product development, pricing strategy,	3 Credits bultry, fishery, bakery, confection- storage and transportation, basic 3 Credits	sacchai pounds sion. FT 412 Prerequ Chemic and fac tion ar
FT 4108 Prerequisite: Processing technolog ery, dairy, appropriate plant layout, advanced FT 4110 Prerequisite: Basic principles of ma buying behavior, food tion strategy with exam FT 4112 Prerequisites: Food production as quality, quality mana	Industrial Food Processing II FT 3106 Industrial Food Processing I ies of food products, fruit and vegetable, cereal, meat and po ed packaging, and factors affecting product qualities during a food processing, and corresponding laboratory sessions. Food Marketing and Management BG 2403 Introduction to Economics arketing and management of food products, environmental fac d marketing research, product development, pricing strategy, mples and case studies of food products. Food Quality Control BG 1201 Statistics I and FT 3106 Industrial Food Processing I a systematic and controlling process, acceptance sampling p gement, quality control, quality assurance and quality improv	3 Credits  bultry, fishery, bakery, confection- storage and transportation, basic 3 Credits  ctors in food industry, consumer's distribution channel, and promo- 3 Credits  blans for analysis and control of ement, quality assurance systems	Saccha pound sion. FT 412 Prerequ Chemic and fac tion ar fishery FT 4122 Prerequ Impact process
FT 4108 Prerequisite: Processing technolog ery, dairy, appropriate plant layout, advanced FT 4110 Prerequisite: Basic principles of ma buying behavior, food tion strategy with exam FT 4112 Prerequisites: Food production as quality, quality mana	Industrial Food Processing II FT 3106 Industrial Food Processing I ies of food products, fruit and vegetable, cereal, meat and po ed packaging, and factors affecting product qualities during d food processing, and corresponding laboratory sessions. Food Marketing and Management BG 2403 Introduction to Economics arketing and management of food products, environmental fac d marketing research, product development, pricing strategy, mples and case studies of food products. Food Quality Control BG 1201 Statistics I and FT 3106 Industrial Food Processing I a systematic and controlling process, acceptance sampling p	3 Credits  bultry, fishery, bakery, confection- storage and transportation, basic 3 Credits  ctors in food industry, consumer's distribution channel, and promo- 3 Credits  blans for analysis and control of ement, quality assurance systems	Sacchai pounds sion. FT 412 ² Prerequ Chemic and fac tion ar fishery FT 412 ² Prerequ
FT 4108 Prerequisite: Processing technolog ery, dairy, appropriat plant layout, advanced FT 4110 Prerequisite: Basic principles of ma buying behavior, food tion strategy with exam FT 4112 Prerequisites: Food production as quality, quality mana such as Total Quality M FT 4113 Prerequisite: New products and ne concept into actual ment, product formul	Industrial Food Processing II FT 3106 Industrial Food Processing I ies of food products, fruit and vegetable, cereal, meat and po ed packaging, and factors affecting product qualities during if food processing, and corresponding laboratory sessions. Food Marketing and Management BG 2403 Introduction to Economics arketing and management of food products, environmental fac d marketing research, product development, pricing strategy, mples and case studies of food products. Food Quality Control BG 1201 Statistics I and FT 3106 Industrial Food Processing I a systematic and controlling process, acceptance sampling p gement, quality control, quality assurance and quality improv fanagement and ISO series within food factory; and correspondin Food Product Development	3 Credits bultry, fishery, bakery, confection- storage and transportation, basic 3 Credits  ctors in food industry, consumer's distribution channel, and promo- 3 Credits  blans for analysis and control of ement, quality assurance systems ig laboratory sessions. 3 Credits 	Saccha pound sion. FT 412 Prereq Chemia and fa tion at fishery FT 412. Prereq Impact proces ing lab FT 412.

Science and technology in the production of safe and nutritious bakery products, properties and quality of ingredients, production methods of different bakery products, equipment, quality control, causes of product spoilage, storage methods to maintain good quality of bakery products, plant sanitation, packaging of bakery products, and corresponding laboratory sessions.

FT 4115 Prerequisite: or	Fruit and Vegetable Technology FT 4108 Industrial Food Processing II AI 4208 Processing of Agricultural Products II	3 Credits
Chemical and physical struc and vegetables, and comm	ture of fruits and vegetables, post harvest changes and handling metho ercial processing methods for preservation of fruits and vegetables, adv ocessing, and corresponding laboratory sessions.	
FT 4116 Prerequisites: and	Food Toxicology FT 3103 Food Microbiology FT 3104 Human Nutrition FT 3109 Food Chemistry II	3 Credits
Chemistry and biochemistry	v of toxins naturally occurring in food from plants and animals, toxins f emical contaminants, routes of entry, metabolism, manifestation of the to issions.	
FT 4117 Prerequisite: or	Dairy Technology FT 4108 Industrial Food Processing II AI 4208 Processing of Agricultural Product II	3 Credits
Milk production and quality	y in terms of composition, structure, properties and microbiology of m pressing of milk and dairy products, advanced technology used in dair	
FT 4120 Prerequisite:	Food Additives FT 3109 Food Chemistry II	3 Credits
Types of food additives fro saccharides, food colors, a	m nature and synthesis, amino acids, antioxidants, antimicrobial agents nd food flavor, functional food ingredients, phytochemicals, flavonoids ns, their significant in commercial food processing, and corresponding	, phenolic com-
FT 4121 Prerequisites:	Meat Poultry and Fishery Technology BS 2011 Introduction to Microbiology AI 4208 Processing of Agricultural Product II FT 4108 Industrial Food Processing II	3 Credits
Chemical and physical strue and factors affecting the qu	ture of animal muscles used for human consumption, postmortem cha lality of muscle products, pigment development and changes in animal I tissues during processing and storage, and production of different m onding laboratory sessions.	tissue, deteriora-
FT 4122 Prerequisite:	Confectionery Technology FT 4108 Industrial Food Processing II	3 Credits
Impact qualities and prope	rties of raw materials used in confectionery products, characteristics an tions, quality control, spoilage, packaging, storage of the confectionery,	
FT 4123 Prerequisite:	Food Sanitation FT 3103 Food Microbiology	3 Credits
Principles of cGMPs of food cleaning, pest controlling,	I processing, plant layout, receiving raw material, food handling, wareh water treatment and personnel hygiene, theory and practices on prin ints (HACCP) to produce safe food product; and corresponding laboratory so	ciples of Hazard
FT 4124 Prerequisites: or	Lipid Technology BS 2006 Basic Biochemistry and FT 4108 Industrial Food Processing II AI 4208 Processing of Agricultural Product II	3 Credits

Chemistry and biochemistry of triglycerides and related lipid substances, biosynthesis and degradation of lipids, industrial production of fats and oils including extraction, degumming, and refining, deordorization, crystallization, and hydrogenation, microbial and enzymatic modification of lipids, corresponding laboratory sessions involving with analytical methods and quality control of the edible fat and oil and their products.

FT 4125 Prerequisite:	Beverage Technology FT 4108 Industrial Food Processing II	3 Credits
Technology for the proof beverages in huma	roduction of carbonated and non-carbonated, alcoholic and non-ale an life, the manufacturing processes, quality control for production cages, and corresponding laboratory sessions.	3
FT 4126 Prerequisite: or	Food Packaging FT 4108 Industrial Food Processing II AI 4208 Processing of Agricultural Products II	3 Credits
Chemical, physical and packages such as pa	d biological properties of packaging material, production techniques per, glass, tin plate, plastic films, aluminum foil, laminates and c ackage to extend shelf life of different types of food and current tree	composite materials, criteria
FT 4127	Cereal Technology	3 Credits
Prerequisite:	FT 4108 Industrial Food Processing II	5 cicults
or	AI 4208 Processing of Agricultural Product II	
Composition, structur	e and significance of various kinds of cereals, manufacturing te cereal products, and development of new products from cereal, ar	
FT 4131	Selected Topic	3 Credits
	ced study of a selected topic in the field of food technology includir	ng corresponding laboratory
FT 4132	Color and Flavor Technology	3 Credits
Prerequisites:	BS 2004 Analytical Chemistry	
and	BS 2005 Analytical Chemistry Laboratory	
Chemistry of various factors, flavor chemist	food colorants, their properties, physiological changes, measurementry, properties of flavor, development and extraction process of flav pplication of color and flavor in foods, and corresponding laboratory set	or from plants, animals, via
FT 4190	Special Project	3 Credits
Prerequisite:	BT 3017 Principles of Research	Screates
A project involving an	aspect of food technology, design of study, collection and analysis ty member's supervision. A written report and presentation of the	
FT 4191	Field Trip	1 Credit
	-industrial production facilities to view specific aspects of processin s required.	g and management. A writ
FT 4192	Seminar	1 Credit
Method in preparing tion from veteran spe	and performing a scientific presentation, demonstration of scientif akers in the field of biotechnology, food technology and agro-indust nterest from scientific journals.	
FT 4194	Internship	Non-credit
Practical experience f	rom training in food technology or biotechnology related industry, to less than 300 hours to develop skills and confidence after graduation	
GE 1101	Thai Civilization	3 Credits

Foundation and evolution of the Thai race from prehistoric, and historical periods in the Sukhothai, Ayudhaya, Thonburi, and Rattanakosin periods, Thai culture and society during the present period under King Rama IX, and the implementation of the Self-sufficient Economy and other royal projects.

GE 1102	Introduction to Philosophy	3 Credits
Discussions on basic tence and essence,	c philosophical problem of western and eastern philosophies, such as rea human true happiness, value of life, human freedom, and Self and society, ics, epistemology, and moral philosophy from Empiricism, Rationalism, De	including impo
GE 1201	Information Literacy Skills	1 Credit
Definition and impo	rtance of information literacy skills, values of information, determination o techniques in gathering information, evaluation, syntheses and information utili	
GE 1202	General Psychology	3 Credits
	al theories and factors, processes and conditions that form one's charac s.	cters, behaviors
GE 1203	Society, Politics and Economics	3 Credits
Culture and relation contemporary social	nship between culture and individual, factors in social and cultural change problems and social control, political and economic functions, the causes Cold War, political and economic changes, globalization and related problems.	
GE 1204	Physical Education	1 Credit
	tness and psychomotor skills, creating unity among students, and developing the	e sportive mind.
GE 1301	Environmental Science	3 Credits
General science, scie	entific approaches, understanding the interrelationships of the nature, ident I problems, application and alternative solutions for preventing and solving	
General science, scie sis of environmenta problems. GE 1401 Prerequisite:	entific approaches, understanding the interrelationships of the nature, ident I problems, application and alternative solutions for preventing and solving Language and Communication Skills (Only for foreign students)	
General science, scie sis of environmental problems. GE 1401 Prerequisite: Theoretical introduct conferences, present	entific approaches, understanding the interrelationships of the nature, ident I problems, application and alternative solutions for preventing and solving Language and Communication Skills	g the environmo 3 Credits such as interv
General science, scie sis of environmental problems. GE 1401 Prerequisite: Theoretical introduct conferences, present delivery skills. GE 1403	entific approaches, understanding the interrelationships of the nature, ident I problems, application and alternative solutions for preventing and solving Language and Communication Skills (Only for foreign students) tion to the nature of language, communication skills in different situations tation, large group, small group, and interpersonal communication, commun Communication in Thai	g the environmo 3 Credits such as interv
General science, scie sis of environmental problems. GE 1401 Prerequisite: Theoretical introduct conferences, present delivery skills. GE 1403 Prerequisite:	entific approaches, understanding the interrelationships of the nature, ident I problems, application and alternative solutions for preventing and solving Language and Communication Skills (Only for foreign students) tion to the nature of language, communication skills in different situations tation, large group, small group, and interpersonal communication, commun Communication in Thai (Only for Thai students)	g the environmo 3 Credits such as interv nicative prepara 3 Credits
General science, scie sis of environmental problems. GE 1401 Prerequisite: Theoretical introduct conferences, present delivery skills. GE 1403 Prerequisite: Skills in Thai usage,	entific approaches, understanding the interrelationships of the nature, ident I problems, application and alternative solutions for preventing and solving Language and Communication Skills (Only for foreign students) tion to the nature of language, communication skills in different situations tation, large group, small group, and interpersonal communication, commun Communication in Thai (Only for Thai students)	g the environmo 3 Credits such as interv nicative prepara 3 Credits
General science, scie sis of environmental problems. GE 1401 Prerequisite: Theoretical introduct conferences, present delivery skills. GE 1403 Prerequisite: Skills in Thai usage, art tools, effective pu	entific approaches, understanding the interrelationships of the nature, ident I problems, application and alternative solutions for preventing and solving Language and Communication Skills (Only for foreign students) tion to the nature of language, communication skills in different situations ration, large group, small group, and interpersonal communication, commun Communication in Thai (Only for Thai students) listening, speaking, reading and writing, main ideas finding, information sea blic speaking. Thai Culture and Traditions (Required GE course for Communication Arts international students)	g the environmo 3 Credits such as interv nicative prepara 3 Credits
General science, scie sis of environmental problems. GE 1401 Prerequisite: Theoretical introduct conferences, present delivery skills. GE 1403 Prerequisite: Skills in Thai usage, art tools, effective pu GE 1404 Cultural and traditic	entific approaches, understanding the interrelationships of the nature, ident I problems, application and alternative solutions for preventing and solving Language and Communication Skills (Only for foreign students) tion to the nature of language, communication skills in different situations tation, large group, small group, and interpersonal communication, commun Communication in Thai (Only for Thai students) listening, speaking, reading and writing, main ideas finding, information sea blic speaking. Thai Culture and Traditions	3 Credits 3 Credits such as interv nicative prepara 3 Credits arch by state-of 3 Credits
General science, scie sis of environmental problems. GE 1401 Prerequisite: Theoretical introduct conferences, present delivery skills. GE 1403 Prerequisite: Skills in Thai usage, art tools, effective pu GE 1404 Cultural and traditic values, festivals and la GE 2101	entific approaches, understanding the interrelationships of the nature, ident I problems, application and alternative solutions for preventing and solving Language and Communication Skills (Only for foreign students) tion to the nature of language, communication skills in different situations tation, large group, small group, and interpersonal communication, commun Communication in Thai (Only for Thai students) listening, speaking, reading and writing, main ideas finding, information sea blic speaking. Thai Culture and Traditions (Required GE course for Communication Arts international students) mal patterns in Thailand, influence of Thai language on culture, role of tra ocal cultures in different parts of Thailand. World Civilization	3 Credits 3 Credits such as interv nicative prepara 3 Credits arch by state-of 3 Credits
General science, scie sis of environmental problems. GE 1401 Prerequisite: Theoretical introduct conferences, present delivery skills. GE 1403 Prerequisite: Skills in Thai usage, art tools, effective pu GE 1404 Cultural and traditic values, festivals and la GE 2101 Development of hu	entific approaches, understanding the interrelationships of the nature, ident I problems, application and alternative solutions for preventing and solving Language and Communication Skills (Only for foreign students) tion to the nature of language, communication skills in different situations tation, large group, small group, and interpersonal communication, commun Communication in Thai (Only for Thai students) Istening, speaking, reading and writing, main ideas finding, information sea blic speaking. Thai Culture and Traditions (Required GE course for Communication Arts international students) main patterns in Thailand, influence of Thai language on culture, role of tra ocal cultures in different parts of Thailand.	g the environme 3 Credits such as interv nicative prepara 3 Credits arch by state-of 3 Credits aditional beliefs 3 Credits Vestern and Ea:
General science, scie sis of environmental problems. GE 1401 Prerequisite: Theoretical introduct conferences, present delivery skills. GE 1403 Prerequisite: Skills in Thai usage, art tools, effective pu GE 1404 Cultural and traditic values, festivals and la GE 2101 Development of hu	entific approaches, understanding the interrelationships of the nature, ident I problems, application and alternative solutions for preventing and solving Language and Communication Skills (Only for foreign students) tion to the nature of language, communication skills in different situations tation, large group, small group, and interpersonal communication, commun Communication in Thai (Only for Thai students) listening, speaking, reading and writing, main ideas finding, information sea blic speaking. Thai Culture and Traditions (Required GE course for Communication Arts international students) mal patterns in Thailand, influence of Thai language on culture, role of tra ocal cultures in different parts of Thailand. World Civilization man society, rise and fall of civilizations, achievements and heritages of W tient time in order to understand their roots and their impacts on modern societion Art of Reasoning	g the environme 3 Credits such as interv nicative prepara 3 Credits arch by state-of 3 Credits aditional beliefs 3 Credits Vestern and Ea:
General science, scie sis of environmental problems. GE 1401 Prerequisite: Theoretical introduct conferences, present delivery skills. GE 1403 Prerequisite: Skills in Thai usage, art tools, effective pu GE 1404 Cultural and traditio values, festivals and lo GE 2101 Development of hui civilizations since and GE 2103	entific approaches, understanding the interrelationships of the nature, ident I problems, application and alternative solutions for preventing and solving Language and Communication Skills (Only for foreign students) tion to the nature of language, communication skills in different situations ation, large group, small group, and interpersonal communication, commun Communication in Thai (Only for Thai students) listening, speaking, reading and writing, main ideas finding, information sea blic speaking. Thai Culture and Traditions (Required GE course for Communication Arts international students) onal patterns in Thailand, influence of Thai language on culture, role of tra ocal cultures in different parts of Thailand. World Civilization man society, rise and fall of civilizations, achievements and heritages of W cient time in order to understand their roots and their impacts on modern societic Art of Reasoning is of logical elements and rational applications for daily life emphasizing or	y the environme 3 Credits such as interv nicative prepara 3 Credits arch by state-of 3 Credits aditional beliefs 3 Credits Vestern and Eases. 3 Credits

analysis, and ways to live a meaningful and happy life.

GL 1101 Prerequisite:	Elements of Spoken Language BG 1001 English I	3 Credits	GS 2205	Communication and Cultures	3 Credits
	f Spoken language; concepts and principles of phonetics; use of phonetic transcription and practice in speech sound produc			s, effective interaction with other people, human relationship in a multicu ills in learning and living with others	tural society, interp
of problems of pronur		cuon and identification, analysis	GS 2206	Personality Development	3 Credits
GL 3102 Prerequisite:	Introduction to Linguistics BG 2000 English III	3 Credits		s self-confidence, positive thinking towards oneself, making friends, table gs, keeping healthy, public speaking, and other interpersonal relationship skill	
guage and the relation	ions, concepts and principles of the human language; four majc onship to one another; language change, language acquisition a		GS 2207	Sports, Health and Wellness Development	3 Credits
and society.				lerstanding of sports, exercise, health promotion and fitness, principles of s, self-care for good health and wellness development	sport spectator, sel
GL 3103 Prerequisite:	Language, Culture and Behavior GL 3102 Introduction to Linguistics	3 Credits	GS 2208	Thai Politics	3 Credits
	en language, culture and behavior in an international environm behavior; language variations in different contexts, World Eng communication			nonarchy to democracy, political reforms, military in ascendancy, develound private sectors, election, political corruption	pment of democra
GS 1004	Arts of Delineation	3 Credits	GS 3101	Applied Philosophy to Contemporary Society	3 Credits
Elementary concepts	and techniques of freehand perspective sketch and rendering, t , various media and techniques of creation of artistic forms in lig	 training in perception of materi-		in contemporary ethical topics and problems, the relationship between mucation, business, and communication	oral theories and la
sizing upon conceptu	al development of personal skills.		GS 3401 Prerequisite:	Public Speaking in Thai (For international students only)	3 Credits
GS 1005	Graphic Presentation	3 Credits	Knowledge and Tha	i basic knowledge skills in communication, basic principles and techniqu	es of effective spe
	f presentation, emphasizing upon concepts, theories and skil rom two- dimensional presentation to three-dimensional modeling		ing, practical experie	nce, and development of speakers' personality	
GS 1006	General Calculus	3 Credits	HTM 3001 Prerequisite:	Sustainable Tourism HTM 3102 Introduction to Tourism Management	3 Credits
	erential calculus, review of algebra, coordinate geometry and integration and trigonometric functions, limits, differentiation, and integration		nomic perspectives,	nt as well as its impacts to the host country in terms of environmental, s different approaches for understanding tourism development and its su elated to sustainable tourism, components, procedures and techniques of	stainability, definitio
GS 1007	General Physics	3 Credits	management and pla	anning.	
and elasticity of mat	ctural properties of construction materials, loads and reactions terials, rigid-body concept and free-body diagram, stability and uilibrium equations, shear, moment and bending moment diagr	determinacy, behavior of struc-	HTM 3002 Prerequisite:	Business Operation and Leadership in Hospitality and Tourism HTM 3205 Marketing in Hospitality and Tourism	3 Credits
and mechanics.				theories and styles of leadership in the field of hospitality and tourism ind a of business and operation decision making to improve by utilizing all the unc	
GS 1302	Contemporary Science and Sustainability	3 Credits	HTM 3003	Information Technology in Hospitality and Tourism	3 Credits
	ce concepts, scientific invention and innovation, the essential o ship of globalization, resources, energy and environmental issue	5	Prerequisites:	BIS 2180 Information Technology HTM 3101 Introduction to Hospitality Management HTM 3102 Introduction to Tourism Management	
GS 2103	Thai Buddhism	3 Credits		echnologies in the hospitality and tourism industries, property managemen practice of current global distribution system software packages.	nt systems and cen
General concepts of dhists' way of life	Buddhism, history of Buddhism in Thailand and influences o	 f Buddhism towards Thai Bud-	HTM 3101	Introduction to Hospitality Management	3 Credits
GS 2104	Contextual Religions	3 Credits	Prerequisite:	MKT 2280 Principles of Marketing	
Critical and compara ism, and Zen Buddhisi	tive study on the greatest religions of the world, especially Ch m	 ıristianity, Islam, Buddhism, Tao-		tel management, hotel structure and staff, receptions, public relations, ot d beverage, housekeeping and engineering.	her hotel services of
GS 2106	Logical Thinking and Application	3 Credits	HTM 3102 Prerequisite:	Introduction to Tourism Management MKT 2280 Principles of Marketing	3 Credits
	omplicate logic through symbolization, justification of argument istency of premises in Logical Formulae	ative validity via contingency of	cess, impacts of tou	demand and supply-element of tourism, model of consumer behavior and irism together with role and importance of tourism planning in minimizing	

r and decision-making process, impacts of tourism together with role and importance of tourism planning in minimizing those impacts of tourism and developing strategies to ensure sustainable evolution, and ticketing process.

HTM 3103 Prerequisite:	Consumer Behavior in Hospitality and Tourism Industry MKT 2280 Principles of Marketing	3 Credits
Diversity of tourists psychological factors, consideration, purchas	and their consumer behavior, traditional, social and cultural backgro social groups, demographic variables, social strata and culture that sing behavior and consumption, tourist behavior with qualitative and c standing of diversity of tourist behavior.	form tourist attitudes
HTM 3204 Prerequisites:	Human Resource Management in Hospitality and Tourism HTM 3101 Introduction to Hospitality Management HTM 3102 Introduction to Tourism Management	3 Credits
Overview of policies, ployees, factors that	practices, and procedures that can be used to attract, select, develop, influence human resource management policies and practices, substa tality and tourism professional	
HTM 3205 Prerequisites:	Marketing in Hospitality and Tourism HTM 3101 Introduction to Hospitality Management HTM 3102 Introduction to Tourism Management	3 Credits
Application of knowle and tourism industry,	edge and skills acquired in principles of marketing and consumer beh evaluation of the industry, analyzing and developing marketing plans s and tools to achieve organization's marketing objectives, departmen key personnel.	, application of various
HTM 3211 Prerequisite:	Food and Beverage Management HTM 3101 Introduction to Hospitality Management	3 Credits
1 C C C C C C C C C C C C C C C C C C C		
Role and contribution key personnel, overvio	n of the Food & Beverage department, its structure, and functions and ew of the department's functions: purchasing, receiving, storing, food p od service and sales, including food sanitation, food quality and kitchen equ	preparation, stewarding
Role and contribution key personnel, overvio	n of the Food & Beverage department, its structure, and functions and ew of the department's functions: purchasing, receiving, storing, food p od service and sales, including food sanitation, food quality and kitchen equ Food and Beverage Service	preparation, stewarding
Role and contribution key personnel, overvie planning the menu, for HTM 4111 Prerequisite: Food and beverage o service and restauran for orientation, trainir	n of the Food & Beverage department, its structure, and functions and ew of the department's functions: purchasing, receiving, storing, food p od service and sales, including food sanitation, food quality and kitchen equ Food and Beverage Service	verage, identification o on as well as strategie
Role and contribution key personnel, overvie planning the menu, for HTM 4111 Prerequisite: Food and beverage o service and restauran for orientation, trainir poutside catering, as we HTM 4112 Prerequisite:	n of the Food & Beverage department, its structure, and functions and ew of the department's functions: purchasing, receiving, storing, food p od service and sales, including food sanitation, food quality and kitchen equ Food and Beverage Service HTM 3211 Food and Beverage Management perations, service principles and practices, types of table service of bev t equipment and supplies, effective employee recruitment and selection and evaluations, principles and application of menu planning, oper ill as sales and cash control. Kitchen Operation HTM 3211 Food and Beverage Management	verage, identification o on as well as strategie
Role and contribution key personnel, overvio planning the menu, for HTM 4111 Prerequisite: Food and beverage o service and restauran for orientation, trainir outside catering, as we HTM 4112 Prerequisite: Principles and technic equipment and utilitie	n of the Food & Beverage department, its structure, and functions and ew of the department's functions: purchasing, receiving, storing, food p od service and sales, including food sanitation, food quality and kitchen equ Food and Beverage Service HTM 3211 Food and Beverage Management perations, service principles and practices, types of table service of bev t equipment and supplies, effective employee recruitment and selection and evaluations, principles and application of menu planning, oper and evaluations, principles and application of menu planning, oper and evaluations deverage Management Kitchen Operation HTM 3211 Food and Beverage Management ques involved in food production, kitchen organization, food and per es, basic food preparation methods, kitchen stewarding, sanitation food	oreparation, stewarding uipment. 3 Credits verage, identification o on as well as strategie rations of in-house and 3 Credits rsonal hygiene, kitchei
Role and contribution key personnel, overvio planning the menu, for HTM 4111 Prerequisite: Food and beverage o service and restauran for orientation, trainir outside catering, as we HTM 4112 Prerequisite: Principles and technic equipment and utilitie standards, and kitchen HTM 4210 Prerequisite:	<ul> <li>a of the Food &amp; Beverage department, its structure, and functions and ew of the department's functions: purchasing, receiving, storing, food production and Beverage Service and sales, including food sanitation, food quality and kitchen equiped service and Beverage Service and Beverage Service and Beverage Service and Beverage Management</li> <li>perations, service principles and practices, types of table service of beverage and evaluations, principles and application of menu planning, oper and evaluations, principles and application of menu planning, oper and evaluations and cash control.</li> <li>Kitchen Operation HTM 3211 Food and Beverage Management</li> <li>ques involved in food production, kitchen organization, food and peres, basic food preparation methods, kitchen stewarding, sanitation food terms.</li> <li>Strategic Management in Hospitality and Tourism HTM 3205 Marketing in Hospitality and Tourism</li> </ul>	oreparation, stewarding uipment. 3 Credits verage, identification o on as well as strategie rations of in-house and 3 Credits rsonal hygiene, kitcher
Role and contribution key personnel, overvio planning the menu, for HTM 4111 Prerequisite: Food and beverage o service and restauran for orientation, trainir outside catering, as we HTM 4112 Prerequisite: Principles and technic equipment and utilitie standards, and kitchen HTM 4210 Prerequisite: Analytical discussion important global tren	n of the Food & Beverage department, its structure, and functions and ew of the department's functions: purchasing, receiving, storing, food p od service and sales, including food sanitation, food quality and kitchen equ Food and Beverage Service HTM 3211 Food and Beverage Management perations, service principles and practices, types of table service of bev t equipment and supplies, effective employee recruitment and selection and evaluations, principles and application of menu planning, oper and evaluations, principles and application of menu planning, oper and evaluations deverage Management Kitchen Operation HTM 3211 Food and Beverage Management ques involved in food production, kitchen organization, food and per es, basic food preparation methods, kitchen stewarding, sanitation food terms. Strategic Management in Hospitality and Tourism	oreparation, stewarding uipment. 3 Credits verage, identification o on as well as strategie ations of in-house and 3 Credits rsonal hygiene, kitcher production control and 3 Credits evaluation of the mos
Role and contribution key personnel, overvie planning the menu, for HTM 4111 Prerequisite: Food and beverage of service and restauran for orientation, trainir poutside catering, as we HTM 4112 Prerequisite: Principles and technic equipment and utilitie standards, and kitchen HTM 4210 Prerequisite: Analytical discussion important global tren- the major factors affect HTM 4301 Prerequisite:	a of the Food & Beverage department, its structure, and functions and ew of the department's functions: purchasing, receiving, storing, food productions and service and sales, including food sanitation, food quality and kitchen equipod service and Beverage Service HTM 3211 Food and Beverage Management perations, service principles and practices, types of table service of bevit equipment and supplies, effective employee recruitment and selection g and evaluations, principles and application of menu planning, oper ill as sales and cash control. Kitchen Operation HTM 3211 Food and Beverage Management ques involved in food production, kitchen organization, food and peres, basic food preparation methods, kitchen stewarding, sanitation food terms. Strategic Management in Hospitality and Tourism HTM 3205 Marketing in Hospitality and Tourism management: of key areas of contemporary hospitality and tourism management in given analysis of the impact of crucial environmental issues and ting international tourism.	oreparation, stewarding uipment. 3 Credits verage, identification o on as well as strategies ations of in-house and 3 Credits rsonal hygiene, kitcher production control and 3 Credits evaluation of the mos
Role and contribution key personnel, overvio planning the menu, for HTM 4111 Prerequisite: Food and beverage o service and restauran for orientation, trainir outside catering, as we HTM 4112 Prerequisite: Principles and technic equipment and utilitie standards, and kitchen HTM 4210 Prerequisite: Analytical discussion important global trend the major factors affect HTM 4301 Prerequisite: Room division, front	a of the Food & Beverage department, its structure, and functions and ew of the department's functions: purchasing, receiving, storing, food production and Beverage Service HTM 3211 Food and Beverage Management perations, service principles and practices, types of table service of beverage and evaluations, principles and application of menu planning, oper and evaluations, principles and application of menu planning, oper and evaluations, principles and application of menu planning, oper and evaluations, principles and application of menu planning, oper and evaluations, principles and application of menu planning, oper and evaluations, principles and application of menu planning, oper and evaluations (food production, kitchen organization, food and peres, basic food preparation methods, kitchen stewarding, sanitation food terms. Strategic Management in Hospitality and Tourism HTM 3205 Marketing in Hospitality and tourism management: of key areas of contemporary hospitality and tourism management: of key areas of contemporary hospitality and tourism management: of key areas of contemporary hospitality and tourism management: of key areas of contemporary hospitality and Tourism MTM 3205 Marketing in Hospitality and Tourism Group Division Management HTM 3205 Marketing in Hospitality and Tourism Office operations which covers reception, reservation, room sales, regis diting, functions and roles of the hotel housekeeping department and selection.	oreparation, stewarding uipment. 3 Credits verage, identification o on as well as strategies rations of in-house and 3 Credits rsonal hygiene, kitcher production control and 3 Credits evaluation of the mos d their implications and 3 Credits tration, cashier respon

Principles of event management, formulation of event tourism strategies such as implementation of festivals, enter tainment, corporate, cultural and sports events.

HTM 4303 Prerequisite:	Service Management HTM 3205 Marketing in Hospitality and Tourism	3 Credits
A holistic and interdise	ciplinary approach which is used to explore the principles of servic nstitutes quality, nature of service and strategies for improving it.	e management, understand-
HTM 4401 Prerequisite:	Tourism Policy and Development HTM 3205 Marketing in Hospitality and Tourism	3 Credits
Tourism planning in b of planning process, t	oth public and private sectors at local, regional and national leve he role and the importance of the involvement of communities, policies and strategies for successful development.	
HTM 4402 Prerequisite:	Tourism Destination Management HTM 3205 Marketing in Hospitality and Tourism	3 Credits
Comprehensive covera	age of various tourism destinations, basic principles underlying p–to-date trends and implementation of different management appr	
HTM 4403 Prerequisite:	Tour Guiding and Operation in Practice HTM 3205 Marketing in Hospitality and Tourism	3 Credits
Roles and ethics of a	professional tour guide including tour guide practices, tourist ses and Thai tourism law, aspects of tourism distribution channe	
HTM 4404 Prerequisite:	Cultural Heritage Tourism HTM 3001 Sustainable Tourism	3 Credits
heritage visitors' beha	p of cultural heritage and tourism, analysis of a wide range of cul vior and motivation, contemporary approaches to heritage tourisr ing, roles of interpretation programs employed in major cultural tation. International Tourism Studies HTM 4210 Strategic Management in Hospitality and Tourism	n development and manage heritage sites and principle 3 Credits
International issues go	verning the tourism industry including industry trends and best n organizations, principles and practices of related laws and regu spectives.	
IBM 2702 Prerequisite:	International Business Environment BG 2401 Microeconomics	3 Credits
of international busin policies, institutional	onment focusing on economics, social-cultural, and political, reguless environment, international business theories, global busin arrangements, government business relationships, global perspectitive business environment.	ness environment, FDI, trade
IBM 3642 Prerequisite:	International Buyer Behavior MGT 2404 Managerial Psychology MKT 2280 Principles of Marketing	3 Credits
Methods of how indu segmentation, targetir ables in addition to o responses of industria	strial and consumer goods are marketed to international buyers ag and positioning, international buyer behavior models and de- culture that affect international buyers' purchase behaviors, cogn I and consumer buyers from other countries in various contexts otional incentives, direct marketing and e-commerce.	cision making schemes, vari iitive, affective and co-native
IBM 3643 Prerequisite:	International Marketing Communications MKT 2280 Principles of Marketing	3 Credits
Global and domestic of lying assumptions rel- versus localization of	MK1 2280 Principles of Marketing cultural diversity and their impact on IMC strategy development, ated to verbal and visual communication strategies, the debate worldwide marketing communications campaigns, case studies o estic and international audiences.	surrounding standardizati

IBM 3711 Prerequisite:	Comparative Management IBM 2702 International Business Environment	3 Credits	IBM 4841 Prerequisite:	International Services Marketing MKT 3620 Global Marketing and Completion of 106 credits	3 Credits
tions and concepts of	arities of managerial systems and management practices in diff f culture, cultural differences at the national, organizational and n cteristics, complexities and challenges of running global organizatior	nanagerial levels, regional and	cases in the marketing	an international context, market orientation, long-term relationship, q g of services to help students gain more insight on the issues and pro l to practice their problem-solving skills.	
IBM 3713 Prerequisite:	International Management IBM 3711 Comparative Management	3 Credits	IBM 4843 Prerequisite:	International Product and Brand Planning MKT 3620 Global Marketing and Completion of 106 credits	3 Credits
	and operations beyond the borders of one's home country, manage bilities for planning, organizing, leading and controlling the firm's act		management such as	and introducing new products and brands for different culture markets, product standardization versus differentiation, brand extensions and di onal product positioning and branding, and their impacts on building brand	lutions, multiple pro
IBM 3714 Prerequisite:	Export-Import Policy and Strategy MKT 3620 Global Marketing	3 Credits	IBM 4921 Prerequisite:	Individual Research MGT3940 Business Research and Completion of 118 credits	3 Credits
institutions and their nizations to promote	veloping comprehensive export/import strategies at national sector roles in balancing exports and imports among sectors, strateg economic and competitive advantages, procedures and practice t/import compliance, export/import channels, foreign trade zones, a	ic use of export-import orga- es of export-import financing,		ability to apply a theoretical approach to the real world problems of hailand, a specific area of concentration will be chosen by students up of IBM.	
IBM 3722 Prerequisite:	Legal and Ethical Issues in International Business IBM 2702 International Business Environment	3 Credits	IBM 4923 Prerequisite:	Seminar in Regional Studies Completion of 118 credits	3 Credits
	nical aspects involved in international business environment focus tional contracts, foreign investments and ethical issues across border			vironments, management practices and activities of multinational co analytical skills and strategic thinking in managing operations in these region	
IBM 3723 Prerequisite:	International Relations IBM 2702 International Business Environment	3 Credits	IDM 3200 Prerequisites:	Quantitative Analysis BG 2200 Statistics II MGT 3905 Operations Management	3 Credits
	es, issues, conflicts and resolutions in international relations, a ation, the World Trade Organization the World Bank that govern	5		forecasting, mathematical decision making techniques, normal distrib aplex method, simulation, and linear programming.	ution theory, decis
IBM 3841 Prerequisite:	International Pricing Strategy MKT 3620 Global Marketing	3 Credits	IDM 3202 Prerequisites:	Motion and Time Study BG 2200 Statistics II MGT 3905 Operations Management	3 Credits
ior and psychology) a ing pricing of goods a on pricing structures,	aspects of pricing decisions in international context through both and quantitative (economics and statistics) analyses, application of and services in the global market, the influences of both domestic across product lines and customer segments, pricing implications sfer pricing issues, and buyer arbitrate affects.	f pricing theory, factors affect- and international competition	making, the implement		job analysis, standa
IBM 4811 Prerequisite:	International Strategic Management IBM 3713 International Management and Completion of 11	3 Credits 8 credits	IDM 3203 Prerequisites:	Logistics and Supply Chain Management MGT 3905 Operations Management MKT 2280 Principles of Marketing	3 Credits
edge and skills learner international settings,	It amidst the phenomena of globalization to encourage students ed in earlier courses, critical business skills of understanding and , environmental analysis, challenges and benefits of globalizatio alue creation, and evaluation of corporate strategies.	managing strategic issues in	service level, logistic	stics collaboration, tools and techniques for logistical analysis, trade- functions, customer accommodation strategies, procurement strategies, ies and operations, order processing, inventory, transportation, warehout ance measurement.	manufacturing strat
IBM 4820 Prerequisite:	International Cooperative Strategy IBM 3713 International Management	3 Credits	IDM 3204 Prerequisite:	Industrial Safety and Risk Management MGT 2900 Principles of Management	3 Credits
necessary to form an works for strategic a	al framework of international cooperative strategies and managed manage effective cross-border partnerships, issues related to sulliances and partner selection, ownership structure decision, de assessment, inter-partner fit/trust building, and evolution and stabilities	various typologies and frame- sign of management control	age safety procedures	agement and its process, methods of handling risks especially loss prev s and how safety cultures can be built and established among organiz reduction, productivity and efficiency improvement for the company as a wl	ational members, h
IBM 4840 Prerequisite:	Global Supply Chain Management IBM 3714 Export-Import Policy and Strategy	3 Credits	IDM 3306 Prerequisite:	Warehousing and Material Handling IDM 3203 Logistics and Supply Chain Management	3 Credits
Activities involved in about supply chain n	the flow of goods from point of origin to point of consumption nanagement in the international setting, nature of international ons management, inventory control, logistics and transportation,	problems associated with the		ons and systems, warehousing pallet, case, and small items storage a le, functional analysis, layout, resources, and warehousing development syst	

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Prerequisite:	Transportation and Distribution Management IDM 3203 Logistics and Supply Chain Management	3 Credits
analysis of logistics ar	selection and management system, transportation routing analysis and transportation services, distribution operations, transportation cost dal transportation and transportation mode interface.	
IDM 3308 Prerequisite:	Supply Chain Relationship Management IDM 3203 Logistics and Supply Chain Management	3 Credits
Introduction to relation ment focusing on its ment, organization and ships, selecting and e	nship management for both customers and suppliers aspects, custor application in marketing and sales strategies, data management and d CRM, supplier relationship management covering the scope, struct valuating alliance potential, and incorporating supplier alliances into collaborative relationship e.g. Continuous Replenishment Program.	d customer data develop ture of strategic relation
IDM 3402 Prerequisite:	Facility Management IDM 3203 Logistics and Supply Chain Management	3 Credits
Layout management,	maintenance management, material flow design and control, total allocation and design, layout setup consideration, site selection, ba	
IDM 3403 Prerequisite:	Industrial Engineering Management IDM 3200 Quantitative Analysis	3 Credits
Management of engir	eering aspects of an operation, concept of re-engineering of process , machinery utilization, development of work structure, work flow, a t.	
IDM 4201 Prerequisites:	Manufacturing Planning and Control MGT 3905 Operations Management IDM 3200 Quantitative Analysis	3 Credits
	IDM 5200 Quantitative Analysis	
Production systems, r	naterials planning and control, production aspects, market demand n of production schedule and dispatching, production control syst	
Production systems, r linkages, determinatio	naterials planning and control, production aspects, market demand n of production schedule and dispatching, production control syst	
Production systems, r linkages, determinatic inventory managemen IDM 4202 Prerequisite: Cost accounting appr tion cost planning an	materials planning and control, production aspects, market demand on of production schedule and dispatching, production control syst t. Production Costing and Budgeting	em, implementation, an 3 credits ed costing (ABC), produc
Production systems, r linkages, determinatic inventory managemen IDM 4202 Prerequisite: Cost accounting appr tion cost planning an	naterials planning and control, production aspects, market demand on of production schedule and dispatching, production control syst t. Production Costing and Budgeting ACT 2620 Fundamentals of Managerial Accounting oaches, job order costing, process cost accounting and activity-base d controlling by budgeting and responsibility accounting, evaluation	em, implementation, an 3 credits ed costing (ABC), produc
Production systems, r linkages, determinatic inventory managemen IDM 4202 Prerequisite: Cost accounting appr tion cost planning an mance through standa IDM 4203 Prerequisite: Principles and practic improvement and qua	naterials planning and control, production aspects, market demand on of production schedule and dispatching, production control syst t. Production Costing and Budgeting ACT 2620 Fundamentals of Managerial Accounting oaches, job order costing, process cost accounting and activity-base d controlling by budgeting and responsibility accounting, evaluation rd costs and financial statement analysis techniques. Quality Management	em, implementation, an 3 credits ed costing (ABC), product of manufacturing perfort 3 Credits of techniques in qualit n Baldrige criteria for perfort
Production systems, r linkages, determinatic inventory managemen IDM 4202 Prerequisite: Cost accounting appr tion cost planning an mance through standa IDM 4203 Prerequisite: Principles and practic improvement and qua formance excellence an IDM 4206 Prerequisite:	naterials planning and control, production aspects, market demand on of production schedule and dispatching, production control syst t. Production Costing and Budgeting ACT 2620 Fundamentals of Managerial Accounting oaches, job order costing, process cost accounting and activity-base d controlling by budgeting and responsibility accounting, evaluation rd costs and financial statement analysis techniques. Quality Management MGT 3905 Operations Management lity control, modern concept of quality with emphasis on the Malcoln nd six-sigma which increase efficiency and effectiveness in industrial busi Industrial Environmental Management GE 1301 Environmental Science	em, implementation, an 3 credits ed costing (ABC), product of manufacturing perfo 3 Credits of techniques in qualit n Baldrige criteria for pe
Production systems, r linkages, determinatic inventory managemen IDM 4202 Prerequisite: Cost accounting appr tion cost planning an mance through standa IDM 4203 Prerequisite: Principles and practic improvement and qua formance excellence an IDM 4206 Prerequisite: Concepts of environm	naterials planning and control, production aspects, market demand on of production schedule and dispatching, production control syst t. Production Costing and Budgeting ACT 2620 Fundamentals of Managerial Accounting oaches, job order costing, process cost accounting and activity-base d controlling by budgeting and responsibility accounting, evaluation rd costs and financial statement analysis techniques. Quality Management MGT 3905 Operations Management lity control, modern concept of quality with emphasis on the Malcoln nd six-sigma which increase efficiency and effectiveness in industrial busi Industrial Environmental Management GE 1301 Environmental Science	em, implementation, an 3 credits ed costing (ABC), produc of manufacturing perfo 3 Credits of techniques in qualit n Baldrige criteria for peness. 3 Credits quality, meteorology an

Internship program with an industrial company for not less than 300 hours of work. Weekly progress reports and approved by the student's immediate supervisor must be submitted. A report submission and final presentation must be given.

IDM 4208 Prerequisites:	Project Analysis and Management FIN 3701 Corporate Finance MGT 3905 Operations Management	3 Credits
Foundation of project ma	nagement, project life cycle: starting from project selection until g project successfully, simulation program and software for project n	
IDM 4301 Prerequisites:	Information Technology in Supply Chain BIS 2180 Information Technology IDM 3203 Logistics and Supply Chain Management IDM 4201 Manufacturing Planning and Control	3 Credits
Conceptual and practical i for resource planning an support system in such	issues in information systems to aid in decision-making in indust id scheduling: ERP, CRP, APS, RFID, and inventory management areas as Demand Planning, Logistics Network Design, Invent ment, DRP, MRP, Production Location Assignment, Fleet Plannin rkforce Scheduling, etc.	nt, supply chain decision ory Deployment, Sales &
IDM 4302 Prerequisite:	Industrial Strategic Management IDM 4208 Project Analysis and Management	3 Credits
Definition and different I	evels of strategies, environmental analysis techniques, analysis well as capabilities, strategy selection model, strategy implementati	
IDM 4401 Prerequisite:	Technology and Innovation Management IDM 4203 Quality Management	3 Credits
Technology introduction	process, research and development control and management, strategy, product/process/technology life cycle, innovation proce	5 5
IDM 4501 Prerequisite: or	Seminar in Industrial Management Senior Standing (Industrial Management Major) Approval of the Lecturer	3 credits
	ions, problems, and solutions, class discussion, business exp	osure, guest speaker, re-
IE 1110	Engineering Materials	3 credits
Study of relationship betv neering materials i.e. met	veen structures, properties, production processes and application rals, polymers, ceramics and composites, phase equilibrium diag s and materials degradation.	
IE 4100 Prerequisite:	Manufacturing Processes IE 1110 Engineering Material	3 Credits
Theory and concept of r	nanufacturing processes such as casting, forming, machining a elationships; fundamental of manufacturing cost.	nd welding; material and
IE 4101 Prerequisite:	Manufacturing and Information Technology Senior Standing	3 credits
Basics of CAD/CAM; CAD and fundamentals of Auto	modeling methods; Computer Aided Manufacturing, solid mod omation; Automation technology; Flexible manufacturing system gy; machine tools technology.	
IE 4201 Prerequisite:	Engineering Management Completion of 90 Credits with the consent of the Chairperson	3 Credits
Modern management prin	nciples, methods of increasing productivity, human relation, inc economy, finance, marketing, project management.	dustrial safety, commercial

E 4203 Prerequisite:	Engineering Economics Completion of 90 Credits	3 Credits
	ison, depreciation, evaluation of replacement, risk and uncertair sses of decision making for investment of challenging projects.	 nty, estimating of income, tax
N 2202 Prerequisite:	Interior Architectural Design I AR 1104 Fundamental of Architectural Design	6 Credits
ntegration of artistic	c sensibility, creativity, and the understanding of human factor es an individual concept, analysis of human relations to space, a	s through basic living spaces
N 2204 Prerequisite:	Interior Architectural Design II IN 2202 Interior Architectural Design I	6 Credits
Practices on small so	caled, more complex, multi-users programs, student's hand-draw spatial model for conceptual and professional communication.	
N 2305	Interior Architectural Design Methods	3 Credits
Design activity and	its inherited methods, influential design methods to broaden st ieve the qualified interior architectural design.	
N 2306 Prerequisite:	History of Interior Architecture AR 2106 History of Architecture I	3 Credits
History and the evol	lution of space planning, interior architecture, decorative details, the 19th century in Europe, styles and characteristics of each p	and furniture design from an
N 3200	Theory and Concept in Interior Architecture	3 Credits
Significant theories o History from the 151	of architecture as well as interior architecture as a discipline, the of th century to the early 20th century, reviewing the ideas, philo ustrated lectures and discussion based on analysis of interior architec	osophies, concepts and design
N 3203 Prerequisite:	Interior Architectural Design III IN 2204 Interior Architectural Design II	6 Credits
Human perception, b	behavior activity, scale, and the use of materials in small scale cognage in relation to interior environment.	
N 3207	Interior Architectural Design IV IN 3203 Interior Architectural Design III	6 Credits
Prerequisite:		
Complex commercial space planning, exist nology which are inco		ng materials and lighting tech
Complex commercial space planning, exist hology which are inco N 3301	ing building conditions, new trends and details of furniture finishi prporated in design. Interior Construction Technology I	ng materials and lighting tech 3 Credits 
Complex commercial space planning, exist hology which are inco N 3301 Basic consideration r	ing building conditions, new trends and details of furniture finishi proparted in design. Interior Construction Technology I namely: human ecology, which includes anthropometric and ere naterials and finishes and typical details which include skeleton	ng materials and lighting tech 3 Credits  gonomic principles, basic con-
Complex commercial space planning, exist hology which are inco N 3301 Basic consideration r struction methods, n	ing building conditions, new trends and details of furniture finishi proparted in design. Interior Construction Technology I namely: human ecology, which includes anthropometric and ere naterials and finishes and typical details which include skeleton	ng materials and lighting tech 3 Credits  gonomic principles, basic con-

Advanced construction methods that relate to complex volumes of interior space, which include principles of skeleton structures and modern material and installation techniques, framed structure of regular and raised floors with various aspects of installation of finishing material namely wood, metal, plastic and glass, focusing on interior architecture working drawing following specifications and construction documents.

	Lighting Design	3 Credits
Factors that influence law, reading and usi ing design, including	e lighting design decisions, including properties of materials as ing catalogs, documentation, and health effects of light, technic g the physics of light, lab technology, the use and design of natu broad understanding of the culture and historical implications of	s they relate to light, codes and al and practical aspects of light- ral and artificial light throughout
IN 3305	Furniture Design	3 Credits
Specific proponents, revolution to conter ative projects are as	movements and conceptual approaches relevant to key furnitun porary period, forms development, design process, aesthetics signed to encourage students to emerge in-class knowledge an , and practical design.	re designers from the industrial quality, fashion and trend. Cre-
IN 3306	Interior Material Application	3 Credits
Systematic approach	n to selecting essential interior design elements, color and i ticality as well as awareness of ecological problems, sustainab rials.	materials: types, properties, ap-
IN 4102	Methods of Research and Data Processing	3 Credits
Processes of selectin	ng and preparing materials for research, learning to recognize damental design research to achieve effective design solution.	
IN 4203 Prerequisite:	Interior Architectural Design V IN 3207 Interior Architectural Design IV	6 Credits
	cusing on critical observation and experiment to create design	
cial and institutional mental system and un	l designs, the balance between visionary concept and practical niversal design.	solution, awareness of environ-
mental system and un IN 4205 Prerequisite:	niversal design. Interior Architectural Design VI IN 4203 Interior Architectural Design V	6 Credits
mental system and un IN 4205 Prerequisite: Commercial and ins understanding and o	niversal design. Interior Architectural Design VI	6 Credits  programs with universal users, cial contexts, building codes and
mental system and un IN 4205 Prerequisite: Commercial and ins understanding and o	niversal design. Interior Architectural Design VI IN 4203 Interior Architectural Design V stitutional designs, projects which are structured to complex concern of the assigned building condition, architectural and soc	6 Credits  programs with universal users, cial contexts, building codes and
mental system and un IN 4205 Prerequisite: Commercial and insunderstanding and or regulations. The cour IN 4304 A 240 working hour	niversal design. Interior Architectural Design VI IN 4203 Interior Architectural Design V stitutional designs, projects which are structured to complex concern of the assigned building condition, architectural and so se provides opportunity for collaborative team working experiences	6 Credits programs with universal users, cial contexts, building codes and Non-credit
mental system and un IN 4205 Prerequisite: Commercial and insunderstanding and or regulations. The cour IN 4304 A 240 working hour	niversal design. Interior Architectural Design VI IN 4203 Interior Architectural Design V stitutional designs, projects which are structured to complex concern of the assigned building condition, architectural and so se provides opportunity for collaborative team working experience. Practicum in Interior Architecture (240 Hours) professional training at an interior architecture firm in order to	6 Credits programs with universal users, cial contexts, building codes and Non-credit
mental system and un IN 4205 Prerequisite: Commercial and insu understanding and or regulations. The cour IN 4304 A 240 working hour hand-on experiences IN 4305 Development of inter	niversal design. Interior Architectural Design VI IN 4203 Interior Architectural Design V stitutional designs, projects which are structured to complex concern of the assigned building condition, architectural and so se provides opportunity for collaborative team working experience. Practicum in Interior Architecture (240 Hours) r professional training at an interior architecture firm in order to and knowledge in the real interior architecture business world.	6 Credits programs with universal users, cial contexts, building codes and Non-credit 
mental system and un IN 4205 Prerequisite: Commercial and insu understanding and or regulations. The cour IN 4304 A 240 working hour hand-on experiences IN 4305 Development of inter relating to the profes IN 4306 Prerequisite:	niversal design. Interior Architectural Design VI IN 4203 Interior Architectural Design V stitutional designs, projects which are structured to complex concern of the assigned building condition, architectural and so se provides opportunity for collaborative team working experience Practicum in Interior Architecture (240 Hours) professional training at an interior architecture firm in order to and knowledge in the real interior architecture business world. Seminar in Interior Architecture erior design from the past to present, academic and practical sion and their solutions. Furniture Production Methods IN 3305 Furniture Design	6 Credits programs with universal users, cial contexts, building codes and Non-credit  o expose students to all kinds of 3 Credits  thinking, obstacles and setbacks 3 Credits
mental system and un IN 4205 Prerequisite: Commercial and insu understanding and or regulations. The courr IN 4304 A 240 working hour hand-on experiences IN 4305 Development of inter relating to the profes IN 4306 Prerequisite: Process of making f lectures, demonstrat	niversal design. Interior Architectural Design VI IN 4203 Interior Architectural Design V stitutional designs, projects which are structured to complex concern of the assigned building condition, architectural and so se provides opportunity for collaborative team working experience. Practicum in Interior Architecture (240 Hours) professional training at an interior architecture firm in order to and knowledge in the real interior architecture business world. Seminar in Interior Architecture erior design from the past to present, academic and practical sion and their solutions. Furniture Production Methods	6 Credits programs with universal users, cial contexts, building codes and Non-credit  o expose students to all kinds of 3 Credits  3 Credits  3 Credits

Independent study on interior architectural issue and program based on student's individual interest. The student collects the analytical information on the chosen existing building and study context, case study, specific user behavior, and etc. which are beneficial to his/her topic. The student is required to work consistently under the supervision of the assigned advisor throughout the semester.

IN 5203 Prerequisite:	Interior Architectural Design VII IN 4205 Interior Architectural Design VI	6 Credits	IN 5417	Arts Appreciation	3 Credits
Student's experience gram under the time marketable concept	of public large scale design project, managing to initiate and ex- constraint, the design process reinforcing critical and analytical thir and practical solution. The quality of construction drawings is ob ip and realistic vision to professional design.	king through the search for	imitation of nature vision, materials and	on, diverse branches of arts at differential periods, conceptual ide and also environment which urges inspiration to influence the a d process of creation, including history of arts which can be app eriences from out-door study as extra lecture on visiting art gallery a	rtists' philosophical life and hi olied in the subjects of desigr
		0. Cradita	IND 1101	Visual Design	3 Credits
N 5205 Prerequisites:	Thesis in Interior Architecture IN 5200 Pre-Thesis in Interior Architecture IN 5203 Interior Architectural Design VII	9 Credits	0.00	sic design elements, and design composition used in conveying mphasis on actual application through a series of corresponding proj	
	ed design project under the thesis advisor supervision which inve ng and analyzing project condition, case studies, user behaviors before	5 1 71	IND 1102	Introduction to Design Culture and Trend	3 Credits
N 5300	Professional Ethics and Practices	3 Credits		s in design within the context of creative culture that aims to p gn works through an investigation of the development, role, and	
inderstanding fire pr	ne professionals in the field, relationship between client and desi otection material regulation in building laws, study building law wi		IND 1301	Basic Drawing	3 Credits
ections , bidding and N 5400	contracts, and work supervision. Elements of Thai Architecture	3 Credits		used in architecture and design profession i.e. orthographic pro nd drawing technique in pencil and ink.	 ojection, perspective projection
	f Thai architecture as in building bodies, roofs and structures, and ional architecture, conducting research on Thai design, architectu		IND 1302	Design Fundamentals	3 Credits
•	ly to use in interior design.		Theory and architect the perfection of architect	tural components and the basic design relationship between forms nitectural design.	s and function in order to fulfil
N 5401	Interior Architecture Cost Estimation and Control	3 Credits	IND 1303	Computer Applications for Interior Design	3 Credits
	estimating of a finished interior by making quality survey of materia practice of cost controlling within a given budget, payment and penalty			in assisting design process, drafting, and presentation through p AD, and basic 3 dimensional modeling application	 practicing of computer applica-
IN 5403	Advanced Computer - Aided Design	3 Credits	IND 2101	Design Methods	3 Credits
echnology context, r	omputer aided design and the primary introduction to the creation narrative, computation, and interactivity. Students have to develop the for exploration, experimentation, and methodologies.		Design activity and	its inherited methods through an exploration of influential desig to present in order to provide a broad perspective of plausible design	 In methods from the period of
IN 5404	Individual Study in Interior Architecture	3 Credits	IND 2102	Human Factors	3 Credits
Study and research of	individual's interests pertaining to interior architecture under the appr	oval of an advisor.		cal, and social interaction aspects related to humans especially ir surroundings such as anthropometry, sensation and percepti	
IN 5411	Advanced Lighting	3 Credits		esigning for health, safety and comfort.	
	lighting, color and illumination practical functions and aesthetic set sign in different scale and perspective which site excursion and seminal		IND 2201 Prerequisite:	Interior Design I IND 1302 Design Fundamentals	6 Credits
IN 5413	Facilities Management	3 Credits		of human-spatial relationship through investigations and analys s of volumetric interior space via small scale residential projects	
	pility of a project by familiarizing with financial forecasting and budg nce and operations management, and forecasting risks.	eting, architectural planning	multiple users.	s of volumetric interior space via small scale residential projects	ranging from a single user to
IN 5415	Fabric Design and Applications	3 Credits	IND 2202 Prerequisite:	Interior Design II IND 2201 Interior Design I	6 Credits
	esign and applications, technical language associated with qualitie apply in interior design.	s of fabric, texture, pattern	involve multiple use	complex programming both in functions as well as in users' requers and conjoining of different functions, with emphasis on design ic standards through more rigorous project drawing requirements.	
IN 5416	Introduction to Exhibition Design	3 Credits	IND 2301	History of Interior Design	3 Credits
ing from programs, s system for products,	ition design, strategies in designing for exhibitions and trade show space design, conceptual development of a thematic approach, and artifacts, or artwork activities as business practices specific to the effective use of computer renderings and precentation skills.	creation of a presentation	rative details, and fu	ry through chronological exploration of the evolution of space purniture design from ancient Egypt to the 19th century in Europe	

lecorative details, and furniture design from ancient Egypt to the 19th century in Europe with emphasis on styles and characteristics of each period as a reference to future developments.

sign industry, and the effective use of computer renderings and presentation skills.

IND 2302	Building Construction	3 Credits	IND 3305	Practicum in Interior Design	2 Credits
	components of small building, standard timber construction-skeleto			is in professional training at interior design firm to expose si al sector of interior design business.	tudents to all kinds of profession
beams, columns, floor	r, staircase and its material such as timber, masonry, concrete through st	udio works.	IND 3306	Lighting Design	3 Credits
IND 2303	Furniture Production and Fabrication Technology	3 Credits	Lighting design his	tory and its implement culture, lighting components, aesth	 natic sense health effects of lice
component, ergonor cupation of existing t	furniture design and furniture production including, history and their mics, design trend, conceptual and aesthetic approaches, and form tool and technique to produce innovative and practical furniture desig lecture including, system, structure, and material selections in mod	development process, oc- n, exploration of fabrication	physics of light, lab	technology, codes and law, reading and using light catalogs, nd concern throughout various kinds of experimental project.	
	artition, prefabricated low raised floor.		Prerequisite:	IND 3202 Interior Design IV	o credits
IND 3101	Theory and Concept in Design	3 Credits		nterior design, which includes critical analyses of design envi siderations in order to initiate corresponding design programr	
concept derivation as	neories and concepts that have led to effective designs in order to p s well as insights for critical analysis of current design trends and trend fo e: Design Semiotics, Phenomenology, Design Hermeneutics, Funct	recasting.	large scale commerce	cial and institutional projects. This course also provides ar cusing on increasing project feasibility.	
ronmentalism, and Cr		onalism, Rationalism, Envi-	IND 4202	Senior Project	6 Credits
			Prerequisite:	IND 4201 Interior Design V	
	Design Research and Development in how to conduct design-based research that yields balancing resul icturing, and profitability through understanding of the liaison betwee esearch.		ing design trends, so	vell-contemplated design project through analyses of design optical-cultural context, and environmental concerns resulting in plex prototype interior design project of appropriate function, and	a viable business plan and design
5		C Cardita	IND 4301	Design Management	3 Credits
IND 3201 Prerequisite:	Interior Design III IND 2202 Interior Design II	6 Credits		t skills and the process of organizing and controlling the inte frame, cost, procurement, and risk awareness in order to me	
	nercial interior design and its intrinsic components including activities		frame.	manie, cost, procurement, and fisk awareness in order to me	eet clients needs and project th
	ealms, materials and fabrications in public spaces, environmental grap blic spaces through small-scale commercial interior design projects.	bhic design, as well as rules	IND 4302	Individual Study in Interior Design	3 Credits
IND 3202 Prerequisite:	Interior Design IV IND 3201 Interior Design III	6 Credits	Individual study and	research on the topic of interest pertaining to interior design.	
	-	established and encouring	IND 4303	Professional Ethics and Practice	3 Credits
Evelopetion of mon					
theories and design	complex commercial and hospitality interior design, which includes principles, material fabrications and lighting technology, interior de olved building.			professional interior design including, client's brief, service ract types, contract documents, tender process, site inspection, li	
	principles, material fabrications and lighting technology, interior de				
theories and design and conditions of invo IND 3301 Basic interior constru- on consideration of h	principles, material fabrications and lighting technology, interior de olved building. Interior Construction uction through construction methods, typical interior finishes, detai uman ecology, anthropometric and ergonomic principles.	sign codes, and constraints 3 Credits Is and material uses based	design fees and contr IND 4401 Design environmenta design, design-relate The approach will b	act types, contract documents, tender process, site inspection, li Seminar in Interior Design al topics or events that are in trend including, interior design, ed business management, entrepreneurship in interior design e topics analysis in class and special lectures from guest lec	cense and regulations. 3 Credits , fine arts, furniture design, lightin business and other related field turers in specialized area from t
theories and design and conditions of invo IND 3301 Basic interior constru	principles, material fabrications and lighting technology, interior de olved building. Interior Construction uction through construction methods, typical interior finishes, detai	sign codes, and constraints 3 Credits	design fees and contr IND 4401 Design environmenta design, design-relate The approach will b	act types, contract documents, tender process, site inspection, li Seminar in Interior Design al topics or events that are in trend including, interior design, ed business management, entrepreneurship in interior design	cense and regulations. 3 Credits , fine arts, furniture design, lightin business and other related field turers in specialized area from t
theories and design and conditions of invo IND 3301 Basic interior constru- on consideration of h IND 3302 Systematic approach	principles, material fabrications and lighting technology, interior de olved building. Interior Construction uction through construction methods, typical interior finishes, detai uman ecology, anthropometric and ergonomic principles.	sign codes, and constraints 3 Credits Is and material uses based 3 Credits n elements, colors, material	design fees and contr IND 4401 Design environmenta design, design-relate The approach will b faculty members from IND 4402	ract types, contract documents, tender process, site inspection, li Seminar in Interior Design al topics or events that are in trend including, interior design, ed business management, entrepreneurship in interior design e topics analysis in class and special lectures from guest lec n other public or private universities, representatives from design Advanced Computer-Aided Design	cense and regulations. 3 Credits , fine arts, furniture design, lightin a business and other related field trurers in specialized area from t a enterprises, or private sectors. 3 Credits
theories and design and conditions of invo IND 3301 Basic interior constru- on consideration of h IND 3302 Systematic approach and applications, eco in composing variety	principles, material fabrications and lighting technology, interior de olved building. Interior Construction uction through construction methods, typical interior finishes, detain uman ecology, anthropometric and ergonomic principles. Interior Material and Technology	sign codes, and constraints 3 Credits Is and material uses based 3 Credits n elements, colors, material ternated creative possibility	design fees and contr IND 4401 Design environmenta design, design-relate The approach will b faculty members from IND 4402 Advanced study of c of interior design st	ract types, contract documents, tender process, site inspection, li Seminar in Interior Design al topics or events that are in trend including, interior design, ed business management, entrepreneurship in interior design e topics analysis in class and special lectures from guest lec n other public or private universities, representatives from design Advanced Computer-Aided Design computer-aided design including all necessary update softwar udents, interior space for exploration, experimentation, meth	cense and regulations. 3 Credits , fine arts, furniture design, lightir a business and other related field turers in specialized area from the n enterprises, or private sectors. 3 Credits 
theories and design and conditions of invo IND 3301 Basic interior constru- on consideration of h IND 3302 Systematic approach and applications, ecc	principles, material fabrications and lighting technology, interior de olved building. Interior Construction uction through construction methods, typical interior finishes, detain uman ecology, anthropometric and ergonomic principles. Interior Material and Technology	sign codes, and constraints 3 Credits Is and material uses based 3 Credits n elements, colors, material	design fees and contr IND 4401 Design environmenta design, design-relate The approach will b faculty members from IND 4402 Advanced study of c of interior design st	ract types, contract documents, tender process, site inspection, li Seminar in Interior Design al topics or events that are in trend including, interior design, ed business management, entrepreneurship in interior design e topics analysis in class and special lectures from guest lec n other public or private universities, representatives from design Advanced Computer-Aided Design	cense and regulations. 3 Credits , fine arts, furniture design, lightir a business and other related field turers in specialized area from the n enterprises, or private sectors. 3 Credits 
theories and design and conditions of invo IND 3301 Basic interior constru- on consideration of h IND 3302 Systematic approach and applications, ecc in composing variety IND 3303 Basic factors about ficiency with the other	principles, material fabrications and lighting technology, interior de olved building. Interior Construction uction through construction methods, typical interior finishes, detai uman ecology, anthropometric and ergonomic principles. Interior Material and Technology in in variety of material selections and factors including interior desig ological material, and new innovative material. Experiment in the al of color schemes, material presentation board. Building System Study building systems which interior designers need to understand and er parties in the design team, information of each different type of sm	sign codes, and constraints 3 Credits Is and material uses based 3 Credits n elements, colors, material ternated creative possibility 3 Credits co-operate the project suf- iall building which is related	design fees and contr IND 4401 Design environment: design, design-relate The approach will b faculty members from IND 4402 Advanced study of co of interior design st context, narrative, con IND 4403	act types, contract documents, tender process, site inspection, li Seminar in Interior Design al topics or events that are in trend including, interior design, d business management, entrepreneurship in interior design e topics analysis in class and special lectures from guest lec n other public or private universities, representatives from design Advanced Computer-Aided Design computer-aided design including all necessary update softwar udents, interior space for exploration, experimentation, meth mputation, and interactivity. Model Making and 3D Exploration	cense and regulations. 3 Credits , fine arts, furniture design, lightir a business and other related field turers in specialized area from th n enterprises, or private sectors. 3 Credits 
theories and design and conditions of invo IND 3301 Basic interior constru- on consideration of h IND 3302 Systematic approach and applications, ecc in composing variety IND 3303 Basic factors about ficiency with the oth- to interior design p	principles, material fabrications and lighting technology, interior de olved building. Interior Construction uction through construction methods, typical interior finishes, detai uman ecology, anthropometric and ergonomic principles. Interior Material and Technology in in variety of material selections and factors including interior desig ological material, and new innovative material. Experiment in the al of color schemes, material presentation board. Building System Study building systems which interior designers need to understand and	sign codes, and constraints 3 Credits Is and material uses based 3 Credits n elements, colors, material ternated creative possibility 3 Credits co-operate the project suf- iall building which is related	design fees and contr IND 4401 Design environments design, design-relate The approach will b faculty members from IND 4402 Advanced study of c of interior design st context, narrative, con IND 4403 Elementary concepts texture, form, scale,	act types, contract documents, tender process, site inspection, li Seminar in Interior Design al topics or events that are in trend including, interior design, ed business management, entrepreneurship in interior design e topics analysis in class and special lectures from guest lect n other public or private universities, representatives from design Advanced Computer-Aided Design computer-aided design including all necessary update software udents, interior space for exploration, experimentation, mether mputation, and interactivity. Model Making and 3D Exploration	cense and regulations. 3 Credits , fine arts, furniture design, lightir a business and other related field turers in specialized area from th a enterprises, or private sectors. 3 Credits 
theories and design and conditions of invo IND 3301 Basic interior constru- on consideration of h IND 3302 Systematic approach and applications, ecc in composing variety IND 3303 Basic factors about ficiency with the oth- to interior design p	principles, material fabrications and lighting technology, interior de olved building. Interior Construction uction through construction methods, typical interior finishes, detai uman ecology, anthropometric and ergonomic principles. Interior Material and Technology in in variety of material selections and factors including interior desig ological material, and new innovative material. Experiment in the al of color schemes, material presentation board. Building System Study building systems which interior designers need to understand and er parties in the design team, information of each different type of sm process such as; structure system, mechanical system, electrical s	sign codes, and constraints 3 Credits Is and material uses based 3 Credits n elements, colors, material ternated creative possibility 3 Credits co-operate the project suf- iall building which is related	design fees and contr IND 4401 Design environments design, design-relate The approach will b faculty members from IND 4402 Advanced study of c of interior design st context, narrative, con IND 4403 Elementary concepts texture, form, scale,	act types, contract documents, tender process, site inspection, li Seminar in Interior Design al topics or events that are in trend including, interior design, ed business management, entrepreneurship in interior design e topics analysis in class and special lectures from guest lec n other public or private universities, representatives from design Advanced Computer-Aided Design computer-aided design including all necessary update softwar udents, interior space for exploration, experimentation, meth mputation, and interactivity. Model Making and 3D Exploration	cense and regulations. 3 Credits , fine arts, furniture design, lightir a business and other related field turers in specialized area from th a enterprises, or private sectors. 3 Credits 

scope of design works, scope of design services, estimated budget, work schedule forecast, necessary preliminary design, fee calculation and cash flow, design contract, and effective communication and presentation skills.

IND 4405	Thai Architecture Study	3 Credits
Thai architecture and tifs, and functions wh	d ornaments that have emerged throughout the history, analys ich are reflected in Thai culture and characteristics ontemporary interior design without losing the mainstream of Thai	is of space, form, decorated mo-
IND 4406	Advanced Lighting	3 Credits
Theoretical lighting, drawing for lighting	color, and illumination for interior design, practical functions, a design session which is needed to be combined into interior ject scale and type, professional presentation technique for t ar are also provided.	esthetic sense, technical detailed design works, lighting design in
IND 4407	Decorative Art	3 Credits
Variety of decorative aesthetic appreciatio	art related to interior design that has emerged throughout the n, conceptual idea of imaginative interpretation, critical thinking ive technique, and cultural influence to the art.	e history, perception of arts with
INS 3101	Principles of Risk Management and Insurance	3 Credits
Concepts of risk, teri handling risk, princip liability, life, health, ar	minologies used in risk management and insurance, risk mana- ples that underline the field of insurance, various types of insur and government insurance, nature and operator of the insurance bu	gement process and methods of ance contracts, such as property, isiness.
Concepts of risk, teri handling risk, princip liability, life, health, ar INS 3102	minologies used in risk management and insurance, risk mana- ples that underline the field of insurance, various types of insur	gement process and methods of ance contracts, such as property,
Concepts of risk, teri handling risk, princip liability, life, health, ar INS 3102 Prerequisite: Insurance law and N	minologies used in risk management and insurance, risk mana oles that underline the field of insurance, various types of insur nd government insurance, nature and operator of the insurance bu Insurance Law	gement process and methods of ance contracts, such as property, isiness. 3 Credits  act of insurance in all fields such
Concepts of risk, teri handling risk, princip liability, life, health, ar INS 3102 Prerequisite: Insurance law and N as life, accident, fire,	minologies used in risk management and insurance, risk mana oles that underline the field of insurance, various types of insur nd government insurance, nature and operator of the insurance bu Insurance Law BG 1400 Business Law I Ainisterial Regulations of the Kingdom pertaining to the contra	gement process and methods of ance contracts, such as property, isiness. 3 Credits  act of insurance in all fields such
Concepts of risk, teri handling risk, princip liability, life, health, ar INS 3102 Prerequisite: Insurance law and N as life, accident, fire, the U.K. and U.S. INS 3201 Prerequisite: Analysis of an insura ness firm in general, lines, Industrial All F	minologies used in risk management and insurance, risk mana oles that underline the field of insurance, various types of insur nd government insurance, nature and operator of the insurance bu Insurance Law BG 1400 Business Law I Ministerial Regulations of the Kingdom pertaining to the contra transportation, and liability court interpretation on applicable Property Insurance	gement process and methods of ance contracts, such as property, isiness. 3 Credits  act of insurance in all fields such coverage, comparison of laws in 3 Credits  ss exposures of family and busi- market, fire insurance and allied
Concepts of risk, teri handling risk, princip liability, life, health, ar INS 3102 Prerequisite: Insurance law and N as life, accident, fire, the U.K. and U.S. INS 3201 Prerequisite: Analysis of an insura ness firm in general, lines, Industrial All F	minologies used in risk management and insurance, risk mana- oles that underline the field of insurance, various types of insur and government insurance, nature and operator of the insurance bu- linsurance Law BG 1400 Business Law I Ministerial Regulations of the Kingdom pertaining to the contra- transportation, and liability court interpretation on applicable Property Insurance INS 3101 Principles of Risk Management and Insurance ince contract and measurement of property and net income los , major insurance policies and extension available in the Thai Risk business interruption insurance, motor insurance, ocean a	gement process and methods of ance contracts, such as property, isiness. 3 Credits  act of insurance in all fields such coverage, comparison of laws in 3 Credits  ss exposures of family and busi- market, fire insurance and allied
Concepts of risk, teri handling risk, princip liability, life, health, ar INS 3102 Prerequisite: Insurance law and <i>N</i> as life, accident, fire, the U.K. and U.S. INS 3201 Prerequisite: Analysis of an insuran ess firm in general, lines, Industrial All F other modern proper INS 3202 Prerequisite: Analysis of source o insurance coverage fidelity guarantee in	minologies used in risk management and insurance, risk mana- oles that underline the field of insurance, various types of insur and government insurance, nature and operator of the insurance bu- linsurance Law BG 1400 Business Law I Ministerial Regulations of the Kingdom pertaining to the contra- transportation, and liability court interpretation on applicable Property Insurance INS 3101 Principles of Risk Management and Insurance mince contract and measurement of property and net income los , major insurance policies and extension available in the Thai Risk business interruption insurance, motor insurance, ocean a ty insurance for business firm. Casualty Insurance	gement process and methods of ance contracts, such as property, isiness. 3 Credits  act of insurance in all fields such coverage, comparison of laws in 3 Credits  3 Credits  as exposures of family and busi- market, fire insurance and allied nd inland marine insurance and 3 Credits  th family and business firm and urance, public liability insurance, professional liability insurance,

pressure vessel insurance, consequential loss following machinery breakdown, computer all risks insurance ar deterioration of stock.

INS 3301	Principles of Life Assurance	3 Credits
Prerequisite:	INS 3101 Principles of Risk Management and Insurance	

Features of life insurance industry, life insurance contract, life insurance policy, life insurance products and supplemental benefits, life insurance policy provisions, policy ownership rights, paying life insurance policy proceeds and group life insurance.

INS 4103 Prerequisites:	Insurance Marketing INS 3101 Principles of Risk Management and Insurance MKT 2280 Principles of Marketing	3 Credits
Marketing principles a	and functions of marketing as an integral aspect of major branches of i omotion, product developments, distribution channels, customer relatic	
INS 4104 Prerequisite:	Reinsurance INS 3101 Principles of Risk Management and Insurance	3 Credits
Nature and functions national reinsurance i	of reinsurance, main types of insurers and reinsurer, legal principles ar market, facultative, and treaty for both proportional and excess of loss d loss reserves including reinsurance audits.	
INS 4105	Seminar in Insurance	3 Credits
Prerequisite:	Senior Standing	
emphasis on research, INS 4106 Prerequisites:	rant to professional goals and interest of students and current issues in i class discussion, and presentation. Information Management in Insurance INS 3101 Principles of Risk Management and Insurance BIS 2180 Information Technology	3 Credits
Data processing tech to policy control, cor	niques used in pertinent functions in all branches of insurance, speci nmission, premiums, renewals, branch/broker control and costing, cost ion technologies such as internet and World Wide Web.	
INS 4203 Prerequisite:	Marine and Aviation Insurance INS 3101 Principles of Risk Management and Insurance	3 Credits
Insurance of cargo by clauses A., B., C., war	<ul> <li>all modes of transportation and from aspects of loss, damage, and li risk, strike, commodity trades, and other clauses, principles of interes argoes, hull Insurance and aviation insurance.</li> <li>Property and Casualty Insurance Accounting and Finance INS 3101 Principles of Risk Management and Insurance</li> </ul>	
rerequisites.	ACT 1600 Fundamentals of Financial Accounting	
Analysis of insurance	accounting and financial statements of the non life insurance company, nues, expenses, liabilities and policyholders' surplus, interpretation of urveillance.	
INS 4205	Survey and Claim Management in Property and	
Prerequisites:	Casualty Insurance INS 3201 Property Insurance	3 Credits
Frerequisites.	INS 3201 Property insurance	
skill, claim managem transacting insurance	and duties of the claim representative, human relations in claim, comme ent, claim professionalism, negotiation process and styles, application business on an industry wide basis, pre-insurance survey and post -I policy wording in each class of business.	of claims practice to
INS 4206	Essentials of Risk Management	3 Credits
Prerequisite:	INS 3101 Principles of Risk Management and Insurance	
niques, risk financing current issues regardi master contract and	s on both personal and business firm and risk management process, r and risk control, role of the risk manager in an organization, pre ar ng risk management, medical expense benefit, disability benefit, theo certificate, various aspects and clauses under group insurance contra- up insurance and evaluation of current trends.	nd post loss objective ry of group insurance

Prerequisites:	Insurance Management INS 3101 Principles of Risk Management and Insurance MGT 2900 Principle of Management	3 Credits	INS 4307 Prerequisites:	Life Assurance Agency Administration INS 3301 Principles of Life Assurance	3 Credits
Charles and an entited		The file of the second state of the		MKT 2280 Principles of Marketing	
	on of insurance companies and broking companies incorporated in insurance companies and broking companies, all main functions ations.		cation and workflow k	office management concepts, agency organization and structure, wa between insurer and agency offices, ways to organize agency office to tive sales support for agency force, office productivity, agency expense	maximize efficiency and
INS 4208 Prerequisite:	Internship in Property and Casualty Insurance (240 Hours) Consent of Department Chairperson	3 Credits	compliance and sales p	practices, supervisory skills, people management techniques and agency of	office automation.
business organization.	weeks (30 hours/week) internship with selected property and cas The internship will focus mainly on insurance operations of such the students will be evaluated by their supervisor and submit a deta	organization. Upon com-	INS 4308 Prerequisites:	Managing for Solvency and Profitability in Life Assurance INS 3301 Principles of Life Assurance FIN 2700 Money, Banking and Financial Markets	3 Credits
gained.	·····			l profitability of life insurance companies, with emphasis on financial r surance companies pursue the key financial objectives, insurance fina	
INS 4209 Prerequisite:	Directed Studies in Property and Casualty Insurance Consent of Department Chairperson	3 Credits		duct design and pricing for insurance company product, concept of apital management and monitor the financial performance of Life Insuran	
	f the department chairperson, a student must carry out an approve ance. The depth and innovativeness of the research will determine the c		INS 4309 Prerequisite:	Internship in Life Assurance (240 Hours) Consent of Department Chairperson	3 Credits
INS 4210 Prerequisites:	Risk Control and Risk Financing INS 3101 Principles of Risk Management and Insurance INS 4206 Essential of Risk Management	3 Credits	zations. The internsh	8 weeks (40 hours/week) internship with selected life assurance or ip will focus mainly on insurance operations of such organizations. will be evaluated by their supervisor and submit a detail report of the kno	Upon completion of the
	agement process (1) implementing the selected risk management to tive control and coordination of the organization's total risk manageme		INS 4310 Prerequisite:	Directed Studies in Life Assurance Consent of Department Chairperson	3 Credits
INS 4302 Prerequisite:	Accident, Group and Health Insurance INS 3301 Principles of Life Assurance	3 Credits		f the Department advisor, a student must conduct a research in an ap novativeness of the research will determine the credits given.	pproved area of life assu
	nent of personal loss exposure in respect of family and business fil accident insurance, health insurance for medical expense benefit		IT 2130	Systems Science	3 Credits
of group insurance, m	naster contract and certificate, various aspects and clauses under d distribution of group insurance and evaluation of current trends.		classification of syster	inputs, outputs and environment, and its behavioral characteristics, ns, hierarchy of systems, and adaptability of system, various approa cybernetic principles and applications, system dynamics, operatior	aches to system thinking
INS 4303 Prerequisite:	Life Assurance Underwriting INS 3301 Principles of Life Assurance	3 Credits	analysis.		
	ν and anatomy, proposals and medical report forms, main concept nderwriting method, underwriting factors and underwriting aspect		IT 2172 Prerequisite:	Programming Workshop SC 1101 Computer Programming I	4 Credits
diseases and physiologi		i clating to impairments,		of practical problem solving and programming concepts and skills de ots and the C++ language	veloped in SC1101, using
	Life Assurance Mathematics	3 Credits	IT 2210	File Structures and Processing	
Prerequisite:	INS 3301 Principles of Life Assurance		IT 2210 Prerequisite:	IT 2172 Programming Workshop	3 Credits
	INS 3301 Principles of Life Assurance , probability of death and survival, fundamentals of premium ratin premium rate calculation, reserve calculation and various types of reserved.		Prerequisite: or	IT 2172 Programming Workshop SC 2101 Computer Programming II	
Prerequisite: Concepts of life table, and essential factors of INS 4305	, probability of death and survival, fundamentals of premium ratin		Prerequisite: or File structures, file or	IT 2172 Programming Workshop	ment, different file orga
Prerequisite: Concepts of life table, and essential factors of INS 4305 Prerequisite: Administrative aspects renders and partial su	, probability of death and survival, fundamentals of premium ratin premium rate calculation, reserve calculation and various types of rese Claim Management in Life Assurance	rve in life insurance. 3 Credits and annuity payments, sur-	Prerequisite: or File structures, file or nizations and accessir	IT 2172 Programming Workshop SC 2101 Computer Programming II ganizations, basic data structures for file organizations and manage	ment, different file orga
Prerequisite: Concepts of life table, and essential factors of INS 4305 Prerequisite: Administrative aspects renders and partial su	, probability of death and survival, fundamentals of premium ratin premium rate calculation, reserve calculation and various types of reserve Claim Management in Life Assurance INS 3301 Principles of Life Assurance of payments with respect to death and disability claims, maturity a urrenders of policies, loans on policy and dividends, claim decision	rve in life insurance. 3 Credits and annuity payments, sur-	Prerequisite: or File structures, file or nizations and accessir in Pascal or C. IT 2220 Prerequisite: Computer system or configuration (CPU, m	IT 2172 Programming Workshop SC 2101 Computer Programming II ganizations, basic data structures for file organizations and manage ng methods such as sequential file, relative file, indexed file, and mu Computer System Concepts	ment, different file orga ılti-key file, programming 3 Credits iew of computer systen ling, linking, loading, and

Various types of data structures (primitive, simple, structured, linear, and nonlinear data types), applications developed under aforementioned data structures, tradeoffs and criteria for selecting the appropriate data structure, searching and sorting techniques.

personal financial fact-finding as well as the investment planning

	Introduction to Information Technology	3 Credits
Various types of inforr erations, communication	nation technology, effect of information technology on the informa- ion systems, information processing, input/output devices, proce ation technology, and applications of current technology in informati	essors, storage and retrieva
IT 2371 Prerequisite:	Object Oriented Programming I IT 2172 Programming Workshop	3 Credits
Widely used commer	cial object-oriented programming language Java, development or and coding of application programs in the environment of the Java la	
IT 3210 Prerequisite:	Database Management Systems IT 2230 Information Structures	3 Credits
	ples of database, database system, database management syste	em, application of database
IT 3211 Prerequisite:	<b>3 7</b>	3 Credits
	tics of information systems, data files in computer systems, inv nformation systems.	verting files, analysis of the
IT 3230 Prerequisite:	Management Information Systems IT 2231 Introduction to Information Technology	3 Credits
	stems that affect decision making and organization, characteristic	s and structures of manage
ment information sys	tems, management and decision-making styles, information syste S applications and other trends of information systems.	ems and organization struc
ment information sys tures, MIS planning, MI IT 3231 Prerequisite:	tems, management and decision-making styles, information syste S applications and other trends of information systems. Information Systems Analysis IT 2231 Information Technology	ems and organization struc 3 Credits
ment information sys tures, MIS planning, MI IT 3231 Prerequisite: System development	tems, management and decision-making styles, information syste S applications and other trends of information systems. Information Systems Analysis IT 2231 Information Technology life cycle, analysis of system's requirements, information requirem to analyze an information system and determine system's requ	ems and organization struc 3 Credits nents for management, tool
ment information sys tures, MIS planning, MI IT 3231 Prerequisite: System development and techniques used control of system deve IT 3232 Prerequisite:	tems, management and decision-making styles, information syste S applications and other trends of information systems. Information Systems Analysis IT 2231 Information Technology life cycle, analysis of system's requirements, information requirem to analyze an information system and determine system's requ lopment. Information Systems Design IT 3231 Information Systems Analysis	ems and organization struc 3 Credits nents for management, tool
ment information sys tures, MIS planning, MI IT 3231 Prerequisite: System development and techniques used control of system deve IT 3232 Prerequisite: Design techniques for	tems, management and decision-making styles, information syste S applications and other trends of information systems. Information Systems Analysis IT 2231 Information Technology life cycle, analysis of system's requirements, information requirem to analyze an information system and determine system's requi lopment. Information Systems Design	ems and organization struc 3 Credits nents for management, tool lirements, management an 3 Credits gn, file and database desigr
ment information sys tures, MIS planning, MI IT 3231 Prerequisite: System development and techniques used control of system deve IT 3232 Prerequisite: Design techniques for system testing design, IT 3253 Prerequisite:	tems, management and decision-making styles, information syste S applications and other trends of information systems. Information Systems Analysis IT 2231 Information Technology Iffe cycle, analysis of system's requirements, information requirem to analyze an information system and determine system's requirement. Information Systems Design IT 3231 Information Systems Analysis information systems, I/O design, processing design, control desig implementation phases and procedures, and system maintenance and Data Communication and Networking IT 2231 Information Technology	ems and organization struc 3 Credits nents for management, tool lirements, management an 3 Credits gn, file and database desigr
ment information sys tures, MIS planning, MI IT 3231 Prerequisite: System development and techniques used control of system deve IT 3232 Prerequisite: Design techniques for system testing design, IT 3253 Prerequisite: Different network typ various alternatives in concepts of data com	tems, management and decision-making styles, information syste S applications and other trends of information systems. Information Systems Analysis IT 2231 Information Technology Iffe cycle, analysis of system's requirements, information requirem to analyze an information system and determine system's requi lopment. Information Systems Design IT 3231 Information Systems Analysis information systems, I/O design, processing design, control desig implementation phases and procedures, and system maintenance and Data Communication and Networking	ems and organization struc 3 Credits eents for management, tool irements, management an 3 Credits gn, file and database desigr d review. 3 Credits ayer of the ISO-OSI mode and gateways, fundamenta
ment information sys tures, MIS planning, MI IT 3231 Prerequisite: System development and techniques used control of system deve IT 3232 Prerequisite: Design techniques for system testing design, IT 3253 Prerequisite: Different network typ various alternatives in concepts of data com valid information trans IT 3351 Prerequisite:	tems, management and decision-making styles, information syste S applications and other trends of information systems. Information Systems Analysis IT 2231 Information Technology Iffe cycle, analysis of system's requirements, information requirem to analyze an information system and determine system's requirement. Information Systems Design IT 3231 Information Systems Analysis information systems, I/O design, processing design, control desig implementation phases and procedures, and system maintenance and Data Communication and Networking IT 2231 Information Technology Des, various network media and topologies, functions of each I n interconnecting networks such as routers, switches, bridges, munication, transmission media, computer and data equipment inf fer, security issue, cost effectiveness of data communication. Web Design and Development I IT 2172 Programming Workshop	ems and organization struct 3 Credits tents for management, too tirements, management an 3 Credits gn, file and database design d review. 3 Credits ayer of the ISO-OSI mode and gateways, fundamenta
ment information sys tures, MIS planning, MI IT 3231 Prerequisite: System development and techniques used control of system deve IT 3232 Prerequisite: Design techniques for system testing design, IT 3253 Prerequisite: Different network typ various alternatives in concepts of data com valid information trans IT 3351 Prerequisite: Web-based design and	tems, management and decision-making styles, information syste S applications and other trends of information systems. Information Systems Analysis IT 2231 Information Technology Iffe cycle, analysis of system's requirements, information requirem to analyze an information system and determine system's requirement. Information Systems Design IT 3231 Information Systems Analysis information systems, I/O design, processing design, control desig implementation phases and procedures, and system maintenance and Data Communication and Networking IT 2231 Information Technology Des, various network media and topologies, functions of each I n interconnecting networks such as routers, switches, bridges, munication, transmission media, computer and data equipment inf fer, security issue, cost effectiveness of data communication. Web Design and Development I	ams and organization struct 3 Credits another the structure and th

Workshop to develop multiple-form applications, organize and manage them across modules, concepts of building forms and reports, development of current applications with custom menus, reports, and charts, advantages and disadvantages of various forms and report methods, retrieve and display data through appropriate use of forms and reports using Oracle Developer 2000.

IT 3371 Prerequisite:	Object Oriented Programming II IT 2371 Object Oriented Programming I	3 Credits
Extension of concepts	and skills developed in IT 2371, practical skills and ability to design dvanced features of the Java programming language.	n and implement applica
IT 3372 Prerequisite:	Visual Programming IT 2172 Programming Workshop	3 Credits
	programming concepts, tools and techniques, use of visual program	ming for the rapid devel
IT 4299 Prerequisite:	Senior Project The fourth-year students with at least 100 Credits	3 Credits
Specific project which define the solution, an	n requires students to design and develop a real information systened design the system by applying information technology concepts, are project development. The students will have an oral examination on the students will have an oral examination orange at the students will have at the students wi	The instructors will advise
IT 4311 Prerequisite:	Introduction to Computer Graphics IT 2172 Programming Workshop	3 Credits
Foundations of compo	uter graphics, characteristics of computer graphics on graphic mor graphics, techniques for creating animation, use of a sophisticated graphic design.	
IT 4314 Prerequisite:	Software Engineering Concepts IT 3232 Information System Design	3 Credits
Prerequisite: Software life cycle, and	Software Engineering Concepts IT 3232 Information System Design alysis of requirements, structured software design, development, imp are, reusable software, documentation and software manuals, and s	blementation, testing, an
Prerequisite: Software life cycle, an. maintenance of softw. ment. IT 4315 Prerequisite:	IT 3232 Information System Design alysis of requirements, structured software design, development, imp are, reusable software, documentation and software manuals, and s Object Oriented Software Analysis and Design IT 3232 Information System Design	plementation, testing, an
Prerequisite: Software life cycle, an maintenance of softwarent. IT 4315 Prerequisite: Object-oriented softwarent	IT 3232 Information System Design alysis of requirements, structured software design, development, imp are, reusable software, documentation and software manuals, and s Object Oriented Software Analysis and Design	olementation, testing, an software project manage 3 Credits
Prerequisite: Software life cycle, an. maintenance of softw. ment. IT 4315 Prerequisite: Object-oriented softwa opment endeavor, stan IT 4316 Prerequisite:	IT 3232 Information System Design alysis of requirements, structured software design, development, imp are, reusable software, documentation and software manuals, and s Object Oriented Software Analysis and Design IT 3232 Information System Design are development paradigm, basic knowledge to embark on an object dard modeling approach for describing object-oriented system design. Image Processing IT 2172 Programming Workshop	olementation, testing, an software project manage 3 Credits
Prerequisite: Software life cycle, an maintenance of softw. ment. IT 4315 Prerequisite: Object-oriented softwa opment endeavor, stan IT 4316 Prerequisite: Concepts of image pro	IT 3232 Information System Design alysis of requirements, structured software design, development, imp are, reusable software, documentation and software manuals, and s Object Oriented Software Analysis and Design IT 3232 Information System Design are development paradigm, basic knowledge to embark on an object dard modeling approach for describing object-oriented system design. Image Processing	olementation, testing, an software project manage 3 Credits t-oriented software deve 3 Credits
Prerequisite: Software life cycle, an maintenance of softw. ment. IT 4315 Prerequisite: Object-oriented softwa opment endeavor, stan IT 4316 Prerequisite: Concepts of image pro	IT 3232 Information System Design alysis of requirements, structured software design, development, imp are, reusable software, documentation and software manuals, and s Object Oriented Software Analysis and Design IT 3232 Information System Design are development paradigm, basic knowledge to embark on an object dard modeling approach for describing object-oriented system design. Image Processing IT 2172 Programming Workshop Decessing including digital image, image viewing, encoding images for	olementation, testing, an software project manage 3 Credits t-oriented software deve 3 Credits
Prerequisite: Software life cycle, an maintenance of softw. ment. IT 4315 Prerequisite: Object-oriented softwa opment endeavor, stan IT 4316 Prerequisite: Concepts of image pro ing images from memo IT 4340 Prerequisite: Management of inform	IT 3232 Information System Design alysis of requirements, structured software design, development, imp are, reusable software, documentation and software manuals, and s Object Oriented Software Analysis and Design IT 3232 Information System Design are development paradigm, basic knowledge to embark on an object dard modeling approach for describing object-oriented system design. Image Processing IT 2172 Programming Workshop pocessing including digital image, image viewing, encoding images for ary for processing, analysis of images. Introduction to Information Resource Management	olementation, testing, an software project manage 3 Credits t-oriented software deve 3 Credits r memory storage, retriev 3 Credits
Prerequisite: Software life cycle, an maintenance of softw. ment. IT 4315 Prerequisite: Object-oriented softwa opment endeavor, stan IT 4316 Prerequisite: Concepts of image pro ing images from memo IT 4340 Prerequisite: Management of inform puter-based system, sys IT 4357 Prerequisite:	IT 3232 Information System Design alysis of requirements, structured software design, development, imp are, reusable software, documentation and software manuals, and s Object Oriented Software Analysis and Design IT 3232 Information System Design are development paradigm, basic knowledge to embark on an object dard modeling approach for describing object-oriented system design. Image Processing IT 2172 Programming Workshop Decessing including digital image, image viewing, encoding images for rry for processing, analysis of images. Introduction to Information Resource Management IT 2231 Information Technology mation resources and database, design acquisition, implementation a stematic approach to information resource management. Human Computer Interaction Senior Students and by consent of instructor	olementation, testing, an software project manage 3 Credits t-oriented software deve 3 Credits r memory storage, retriev 3 Credits
Prerequisite: Software life cycle, an maintenance of softw. ment. IT 4315 Prerequisite: Object-oriented softwa opment endeavor, stan IT 4316 Prerequisite: Concepts of image pro ing images from memo IT 4340 Prerequisite: Management of inform puter-based system, system IT 4357 Prerequisite: Basic knowledge about	IT 3232 Information System Design alysis of requirements, structured software design, development, imp are, reusable software, documentation and software manuals, and s Object Oriented Software Analysis and Design IT 3232 Information System Design are development paradigm, basic knowledge to embark on an object dard modeling approach for describing object-oriented system design. Image Processing IT 2172 Programming Workshop Decessing including digital image, image viewing, encoding images for rry for processing, analysis of images. Introduction to Information Resource Management IT 2231 Information Technology mation resources and database, design acquisition, implementation a stematic approach to information resource management. Human Computer Interaction Senior Students and by consent of instructor ut human behavior, interaction between humans and computers, computer interaction, design of computer interfaces to fit with	blementation, testing, an software project manage 3 Credits t-oriented software deve 3 Credits r memory storage, retriev 3 Credits and management of com 3 Credits

Prerequisite:	E-Commerce Senior Students and by the consent of the instructor	3 Credits
development issues, mains, information ap	that shape e-commerce systems, components, inherent techno management strategies for business-to-business, business-to-c pliances, computing networks, application and service repositor rity, implementation risks.	consumer, intra-business do
T 4360 Prerequisite:	Multimedia Applications IT 2231 Information Technology	3 Credits
Basic ideas, theory, pra	actical uses of multimedia for presenting and conveying information e processing, animation, electronic composing, multimedia databation timedia products.	
rs 4261	Internetworking Workshop I	4 Credits
Fundamentals of interschecking mechanisms	networking connectivity concepts, components and protocols (i.e. , and routing protocols), data encapsulation, network addressin N design and implementation, and basic network devices configuration	g, Local Area Network (LAN
FS 4262 Prerequisite:	Internetworking Workshop II TS 4261 Internetworking Workshop I	4 Credits
Design and implemen cepts, protocols, featur echnologies, encapsu	tation of small to medium size Local Area Networks (LANs) emp res and technologies and LAN switch configuration, introduction lation protocols, design and implementation, hands-on experien s of IP network services.	to Wide Area Network (WAN
T 4363 Prerequisite:	Information System Security and Auditing Senior Students and by the consent of the instructor	3 Credits
Prerequisite: Fundamentals of componentials works and telecommu echnology, disaster re	Senior Students and by the consent of the instructor puter security including hardware security, software security, data inication security, physical protection and microcomputer securit covery and contingency planning, intrusion detection and other a	abase security, computer net ty and viruses, cryptographi
Prerequisite: Fundamentals of composition vorks and telecommu echnology, disaster re ssues in computer secu T 4366 Prerequisite:	Senior Students and by the consent of the instructor puter security including hardware security, software security, data inication security, physical protection and microcomputer securit covery and contingency planning, intrusion detection and other a urity. Advanced Data Management Systems IT 3210 Database Management System	abase security, computer ne ty and viruses, cryptographi
Prerequisite: Fundamentals of composition works and telecommu echnology, disaster re ssues in computer sect T 4366 Prerequisite: Relational database m nining, on-line analyti	Senior Students and by the consent of the instructor puter security including hardware security, software security, data inication security, physical protection and microcomputer securit covery and contingency planning, intrusion detection and other a urity. Advanced Data Management Systems IT 3210 Database Management System model, data storage and management object-relational and obj tic processing, data marts, data warehousing, WWW database	abase security, computer ne ty and viruses, cryptographi applications, legal and ethica 3 Credits ject-oriented databases, dat
Prerequisite: Fundamentals of composition vorks and telecommu echnology, disaster re ssues in computer sect T 4366 Prerequisite: Relational database n nining, on-line analyti latabase administrator	Senior Students and by the consent of the instructor puter security including hardware security, software security, data inication security, physical protection and microcomputer securit covery and contingency planning, intrusion detection and other a urity. Advanced Data Management Systems IT 3210 Database Management System model, data storage and management object-relational and obj tic processing, data marts, data warehousing, WWW database	abase security, computer ne ty and viruses, cryptographi applications, legal and ethica 3 Credits ject-oriented databases, dat
Prerequisite: Fundamentals of composition works and telecommu- rechnology, disaster re- ssues in computer sect T 4366 Prerequisite: Relational database n mining, on-line analyti database administrator T 4367 Prerequisite: Advanced topics on d ng web service, app advanced topics on d	Senior Students and by the consent of the instructor puter security including hardware security, software security, data inication security, physical protection and microcomputer securit covery and contingency planning, intrusion detection and other a urity. Advanced Data Management Systems IT 3210 Database Management System model, data storage and management object-relational and obj tic processing, data marts, data warehousing, WWW database a web Design and Development II	abase security, computer net ty and viruses, cryptographi applications, legal and ethica 3 Credits ject-oriented databases, dat applications and role of th 3 Credits capabilities, creating and us loyment and security issues
Prerequisite: Fundamentals of composition vorks and telecommu- echnology, disaster re- ssues in computer secu T 4366 Prerequisite: Relational database n mining, on-line analyti database administrator T 4367 Prerequisite: Advanced topics on d ing web service, app idvanced topics on d inchitectures such as e- T 4400-99	Senior Students and by the consent of the instructor puter security including hardware security, software security, data inication security, physical protection and microcomputer security covery and contingency planning, intrusion detection and other a urity. Advanced Data Management Systems IT 3210 Database Management System model, data storage and management object-relational and obj tic processing, data marts, data warehousing, WWW database Web Design and Development II IT 3351 Web Design and Development I leveloping web application including using XML to extend web lication configuration, tuning up performance, application depl latabase such as using store procedure, persisting data with XM	abase security, computer net ty and viruses, cryptographi applications, legal and ethica 3 Credits ject-oriented databases, dat applications and role of th 3 Credits capabilities, creating and us loyment and security issues AL, standard web application 3 Credits
Prerequisite: Fundamentals of complexity orks and telecommunities of complexity of com	Senior Students and by the consent of the instructor puter security including hardware security, software security, data unication security, physical protection and microcomputer security ecovery and contingency planning, intrusion detection and other a urity. Advanced Data Management Systems IT 3210 Database Management object-relational and obj tic processing, data marts, data warehousing, WWW database a Web Design and Development II IT 3351 Web Design and Development I leveloping web application including using XML to extend web lication configuration, tuning up performance, application depi latabase such as using store procedure, persisting data with XM commerce, portal site, community site. Selected Topic	abase security, computer net ty and viruses, cryptographi applications, legal and ethica 3 Credits ject-oriented databases, dat applications and role of the 3 Credits capabilities, creating and us loyment and security issues AL, standard web application 3 Credits or epends on the student's need

JA 0722 Prerequisite:	Japanese for Beginners II JA 0721 Japanese for Beginners I or by the consent of the i	
	sentence patterns to develop the skills of listening and speaking	
IA 0723	Reading and Writing Japanese Scripts	3 Credits
	gana and Katakana, 50 basic kanji, greetings, and basic ser	
A 1700	Introduction to Japanese	3 Credits
	nguage, scripts, Japanese sound system, basic grammar and pr	
A 1701	Japanese I	3 Credits
Prerequisite:	JA 1700 Introduction to Japanese	
	vocabulary of daily usage and further development of skills in l	
IA 2701	Japanese II	3 Credits
Prerequisite:	JA 1701 Japanese I	
	ening, speaking, writing and reading, higher level of grammatic	
expression and convers	sational skills.	
JA 2702	Japanese III	3 Credits
expression and convers JA 2702 Prerequisite:	Japanese III JA 2701 Japanese II	
JA 2702 Prerequisite: Further acquisition on	Japanese III	 rills of original texts from va
JA 2702 Prerequisite: Further acquisition on ous areas of Japanese I JA 2703	Japanese III JA 2701 Japanese II n Japanese grammar, vocabulary, oral expression and reading du ife and culture, and intensive practice on writing and comprehension Basic Reading and Writing I	 rills of original texts from va
IA 2702 Prerequisite: Further acquisition on pus areas of Japanese I IA 2703 Prerequisite:	Japanese III JA 2701 Japanese II Japanese grammar, vocabulary, oral expression and reading du ife and culture, and intensive practice on writing and comprehensio Basic Reading and Writing I JA 1701 Japanese I	 rills of original texts from va on skills. 3 Credits
IA 2702 Prerequisite: Further acquisition on bus areas of Japanese I IA 2703 Prerequisite: Principles of reading a	Japanese III JA 2701 Japanese II n Japanese grammar, vocabulary, oral expression and reading du ife and culture, and intensive practice on writing and comprehension Basic Reading and Writing I	 rills of original texts from va on skills. 3 Credits 
IA 2702 Prerequisite: Further acquisition on bus areas of Japanese I IA 2703 Prerequisite: Principles of reading a ife	Japanese III JA 2701 Japanese II n Japanese grammar, vocabulary, oral expression and reading du ife and culture, and intensive practice on writing and comprehension Basic Reading and Writing I JA 1701 Japanese I	 rills of original texts from va on skills. 3 Credits 
IA 2702 Prerequisite: Further acquisition on bus areas of Japanese I IA 2703 Prerequisite: Principles of reading a ife IA 2704 Prerequisite:	Japanese III JA 2701 Japanese II In Japanese grammar, vocabulary, oral expression and reading du ife and culture, and intensive practice on writing and comprehension Basic Reading and Writing I JA 1701 Japanese I and writing, reading simple texts, types of sentences, and practic Basic Reading and Writing II JA 2703 Basic Reading and Writing I	 rills of original texts from var on skills. 3 Credits  te in writing topics of everyda 3 Credits
A 2702 Prerequisite: Further acquisition on bus areas of Japanese I A 2703 Prerequisite: Principles of reading a ife A 2704 Prerequisite:	Japanese III JA 2701 Japanese II n Japanese grammar, vocabulary, oral expression and reading di ife and culture, and intensive practice on writing and comprehension Basic Reading and Writing I JA 1701 Japanese I and writing, reading simple texts, types of sentences, and practic Basic Reading and Writing II	 rills of original texts from var on skills. 3 Credits  te in writing topics of everyda 3 Credits
IA 2702 Prerequisite: Further acquisition on bus areas of Japanese I IA 2703 Prerequisite: Principles of reading a ife IA 2704 Prerequisite: Reading and writing m	Japanese III JA 2701 Japanese II n Japanese grammar, vocabulary, oral expression and reading du life and culture, and intensive practice on writing and comprehension Basic Reading and Writing I JA 1701 Japanese I and writing, reading simple texts, types of sentences, and practice Basic Reading and Writing II JA 2703 Basic Reading and Writing I ore complicated texts and topics.	 rills of original texts from var on skills. 3 Credits  te in writing topics of everyda 3 Credits
JA 2702 Prerequisite: Further acquisition on ous areas of Japanese I JA 2703 Prerequisite: Principles of reading a life JA 2704 Prerequisite: Reading and writing m	Japanese III JA 2701 Japanese II n Japanese grammar, vocabulary, oral expression and reading di ife and culture, and intensive practice on writing and comprehensio Basic Reading and Writing I JA 1701 Japanese I and writing, reading simple texts, types of sentences, and practic Basic Reading and Writing II JA 2703 Basic Reading and Writing I	 rills of original texts from val on skills.  te in writing topics of everyda 3 Credits 
JA 2702 Prerequisite: Further acquisition on ous areas of Japanese I JA 2703 Prerequisite: Principles of reading a life JA 2704 Prerequisite: Reading and writing m JA 3701 Prerequisite:	Japanese III JA 2701 Japanese II n Japanese grammar, vocabulary, oral expression and reading du life and culture, and intensive practice on writing and comprehension Basic Reading and Writing I JA 1701 Japanese I and writing, reading simple texts, types of sentences, and practic Basic Reading and Writing II JA 2703 Basic Reading and Writing I ore complicated texts and topics. Intermediate Japanese Grammar	 rills of original texts from val on skills.  se in writing topics of everyda 3 Credits  3 Credits 
JA 2702 Prerequisite: Further acquisition on ous areas of Japanese I JA 2703 Prerequisite: Principles of reading a life JA 2704 Prerequisite: Reading and writing m JA 3701 Prerequisite: Intermediate grammation	Japanese III JA 2701 Japanese II n Japanese grammar, vocabulary, oral expression and reading du ife and culture, and intensive practice on writing and comprehensio Basic Reading and Writing I JA 1701 Japanese I and writing, reading simple texts, types of sentences, and practic Basic Reading and Writing II JA 2703 Basic Reading and Writing I ore complicated texts and topics. Intermediate Japanese Grammar JA 2702 Japanese III	 rills of original texts from val on skills.  se in writing topics of everyda 3 Credits  3 Credits 
IA 2702 Prerequisite: Further acquisition on pous areas of Japanese I IA 2703 Prerequisite: Principles of reading a ife IA 2704 Prerequisite: Reading and writing m IA 3701 Prerequisite: Itermediate grammatic copics	Japanese III JA 2701 Japanese II in Japanese grammar, vocabulary, oral expression and reading du ife and culture, and intensive practice on writing and comprehension Basic Reading and Writing I JA 1701 Japanese I and writing, reading simple texts, types of sentences, and practice Basic Reading and Writing II JA 2703 Basic Reading and Writing I JA 2703 Basic Reading and Writing I inore complicated texts and topics. Intermediate Japanese Grammar JA 2702 Japanese III tical structures and vocabulary for listening, speaking, reading	 rills of original texts from valor on skills.    3 Credits  3 Credits  3 Credits  and writing more complicate
JA 2702 Prerequisite: Further acquisition on ous areas of Japanese I JA 2703 Prerequisite: Principles of reading a life JA 2704 Prerequisite: Reading and writing m JA 3701 Prerequisite: Intermediate grammat topics JA 3702 Prerequisite:	Japanese III JA 2701 Japanese II in Japanese grammar, vocabulary, oral expression and reading du ife and culture, and intensive practice on writing and comprehension Basic Reading and Writing I JA 1701 Japanese I and writing, reading simple texts, types of sentences, and practice Basic Reading and Writing II JA 2703 Basic Reading and Writing I JA 2703 Basic Reading and Writing I incre complicated texts and topics. Intermediate Japanese Grammar JA 2702 Japanese III tical structures and vocabulary for listening, speaking, reading Business Japanese I	 rills of original texts from valor on skills.    3 Credits  3 Credits  3 Credits  and writing more complicate
JA 2702 Prerequisite: Further acquisition on ous areas of Japanese I JA 2703 Prerequisite: Principles of reading a life JA 2704 Prerequisite: Reading and writing m JA 3701 Prerequisite: Intermediate grammat topics JA 3702 Prerequisite:	Japanese III JA 2701 Japanese II n Japanese grammar, vocabulary, oral expression and reading di life and culture, and intensive practice on writing and comprehension Basic Reading and Writing I JA 1701 Japanese I and writing, reading simple texts, types of sentences, and practice Basic Reading and Writing II JA 2703 Basic Reading and Writing I Intermediate Japanese Grammar JA 2702 Japanese III tical structures and vocabulary for listening, speaking, reading Business Japanese I	 rills of original texts from valor on skills.    3 Credits  3 Credits  3 Credits  and writing more complicate

ture, skills of listening and hearing comprehension, discussion and versed expression of opinions

JA 3721 Prerequisite:	Introduction to Japanese Linguistics JA 2702 Japanese III	3 Credits
Vocal and consonanta	al systems of the Japanese language, special features of the language a complete grammatical analysis	e, phonetics, phonemics,
JA 3722 Prerequisite:	Japanese Reading and Oral Report JA 2702 Japanese III	3 Credits
	on skills of various Japanese articles and summarizing through oral present	ations
JA 3723 Prerequisite:	Introduction to Japanese Phonetics JA 2701 Japanese II GL 1101 Elements of Spoken Language	3 Credits
	onunciation, and Japanese phonological system and intensive practic ds	e on the articulation of
JA 3724 Prerequisite:	Aspects of Japan JA 2701 Japanese II	3 Credits
	ught patterns, civilization and interdisciplinary studies about Japan	
JA 3725 Prerequisite:	Japanese for Secretaries JA 2702 Japanese III or by the consent of the instructor	3 Credits
		according to socretarial
	in hearing, speaking, reading and writing of the Japanese language and techniques of business communication, practice of composing	
framework, principles memos and reports JA 3726 Prerequisite:	and techniques of business communication, practice of composing Japanese for Tourism JA 2702 Japanese III or by the consent of the instructor	
framework, principles memos and reports JA 3726 Prerequisite:	and techniques of business communication, practice of composing Japanese for Tourism	many types of letters,
framework, principles memos and reports JA 3726 Prerequisite: Practice of Japanese la JA 3727 Prerequisite:	and techniques of business communication, practice of composing Japanese for Tourism JA 2702 Japanese III or by the consent of the instructor nguage for tour guides and tour management Japanese for Hotels JA 2702 Japanese III or by the consent of the instructor	many types of letters,
framework, principles memos and reports JA 3726 Prerequisite: Practice of Japanese la JA 3727 Prerequisite:	and techniques of business communication, practice of composing Japanese for Tourism JA 2702 Japanese III or by the consent of the instructor nguage for tour guides and tour management Japanese for Hotels JA 2702 Japanese III or by the consent of the instructor	many types of letters, 3 Credits
framework, principles memos and reports JA 3726 Prerequisite: Practice of Japanese la JA 3727 Prerequisite: Japanese used in rendo JA 3728 Prerequisite:	and techniques of business communication, practice of composing Japanese for Tourism JA 2702 Japanese III or by the consent of the instructor nguage for tour guides and tour management Japanese for Hotels JA 2702 Japanese III or by the consent of the instructor ering hotel services Japanese for Airline Services JA 2702 Japanese III or by the consent of the instructor	many types of letters, 3 Credits
framework, principles memos and reports JA 3726 Prerequisite: Practice of Japanese la JA 3727 Prerequisite: Japanese used in rende JA 3728 Prerequisite:	and techniques of business communication, practice of composing Japanese for Tourism JA 2702 Japanese III or by the consent of the instructor nguage for tour guides and tour management Japanese for Hotels JA 2702 Japanese III or by the consent of the instructor ering hotel services Japanese for Airline Services	many types of letters, 3 Credits 3 Credits
framework, principles memos and reports JA 3726 Prerequisite: Practice of Japanese la JA 3727 Prerequisite: Japanese used in rende JA 3728 Prerequisite: Japanese used in airlin JA 3729 Prerequisite:	and techniques of business communication, practice of composing Japanese for Tourism JA 2702 Japanese III or by the consent of the instructor nguage for tour guides and tour management Japanese for Hotels JA 2702 Japanese III or by the consent of the instructor ering hotel services Japanese for Airline Services JA 2702 Japanese III or by the consent of the instructor e industry: customer services, reception and hospitality Survey of Japanese III or by the consent of the instructor	many types of letters, 3 Credits 3 Credits
framework, principles memos and reports JA 3726 Prerequisite: Practice of Japanese la JA 3727 Prerequisite: Japanese used in rendo JA 3728 Prerequisite: Japanese used in airlin JA 3729 Prerequisite: Survey of Japanese li	and techniques of business communication, practice of composing Japanese for Tourism JA 2702 Japanese III or by the consent of the instructor Inguage for tour guides and tour management Japanese for Hotels JA 2702 Japanese III or by the consent of the instructor ering hotel services Japanese for Airline Services JA 2702 Japanese III or by the consent of the instructor e industry: customer services, reception and hospitality Survey of Japanese III or by the consent of the instructor terary works in prose, poetry and drama, the main movements in Japoresent day, readings, discussions and analyzing of the eminent writer	many types of letters, 3 Credits 3 Credits 3 Credits 3 Credits anese thought from the
framework, principles memos and reports JA 3726 Prerequisite: Practice of Japanese la JA 3727 Prerequisite: Japanese used in rendo JA 3728 Prerequisite: Japanese used in airlin JA 3729 Prerequisite: Survey of Japanese li Middle Ages to the p	and techniques of business communication, practice of composing Japanese for Tourism JA 2702 Japanese III or by the consent of the instructor Inguage for tour guides and tour management Japanese for Hotels JA 2702 Japanese III or by the consent of the instructor ering hotel services Japanese for Airline Services JA 2702 Japanese III or by the consent of the instructor e industry: customer services, reception and hospitality Survey of Japanese III or by the consent of the instructor terary works in prose, poetry and drama, the main movements in Japoresent day, readings, discussions and analyzing of the eminent writer	many types of letters, 3 Credits 3 Credits 3 Credits 3 Credits anese thought from the
framework, principles memos and reports JA 3726 Prerequisite: Practice of Japanese la JA 3727 Prerequisite: Japanese used in rende JA 3728 Prerequisite: Japanese used in airlin JA 3729 Prerequisite: Survey of Japanese li Middle Ages to the p contributions to mode JA 4701 Prerequisite:	and techniques of business communication, practice of composing Japanese for Tourism JA 2702 Japanese III or by the consent of the instructor nguage for tour guides and tour management Japanese for Hotels JA 2702 Japanese III or by the consent of the instructor ering hotel services Japanese for Airline Services JA 2702 Japanese III or by the consent of the instructor e industry: customer services, reception and hospitality Survey of Japanese Literature JA 2702 Japanese III or by the consent of the instructor terary works in prose, poetry and drama, the main movements in Jap present day, readings, discussions and analyzing of the eminent writer rn Japanese thinking Reading in Business Japanese I	many types of letters, 3 Credits 3 Credits 3 Credits 3 Credits 3 Credits anese thought from the rs and their products as

Writing business-related documents: e-mail, resume, forms, and business reports

JA 4703 Prerequisite:	Translation I: Japanese - Thai JA 3702 Business Japanese I	3 Credits
Purposes, methods a	nd techniques of translation from Japanese into Thai, develop Japanese language, the use of words, idioms and structure fo	ment of skills in analyzing sen-
JA 4704 Prerequisite:	Translation II: Thai - Japanese JA 3702 Business Japanese I	3 Credits
Purposes, methods a	nd techniques of translation from Thai into Japanese, develop Thai language, the use of words, idioms and structures for ac	oment of skills in analyzing sen-
JA 4721	Japanese Conversation and Discussion (Only for international students)	3 Credits
Prerequisite:	JA 3704 Oral Comprehension and Expression	
	various topics of everyday life including some business topics	
JA 4722 Prerequisite:	Reading in Business Japanese II JA 4701 Reading in Business Japanese I	3 Credits
	nprehension skills of various business-related Japanese articles	
JA 4723 Prerequisite:	Business Writing in Japanese II JA 4702 Business Writing in Japanese I	3 Credits
Practice of writing sk	ills through intensive practical exercises in grammar and vocab Im vitae, advertisement, signs used in business, such as in h	ulary, writing documents related
JA 4724 Prerequisite:	Business Japanese II JA 3702 Business Japanese I	3 Credits
	tion skills for various business interactions	
JA 4725	Translation in Business Japanese (Only for international students)	3 Credits
Prerequisite:	JA 3702 Business Japanese I	
	translating business data from newspaper, texts, magazines,	
	Public Speaking in Japanese	
	JA 3704 Oral Comprehension and Expression	3 Credits
Prerequisite: Basic principles of sp nication; the selection	eech and voice production and proficiency in their use; skills on and evaluation of materials for speech; organization, though	 common to all forms of commu-
Basic principles of sp nication; the selection speaker-listener relation JA 4727	eech and voice production and proficiency in their use; skills of n and evaluation of materials for speech; organization, though on Seminar	 common to all forms of commu-
Prerequisite: Basic principles of sp nication; the selectio speaker-listener relatio JA 4727 Prerequisite:	eech and voice production and proficiency in their use; skills of n and evaluation of materials for speech; organization, though on Seminar By the consent of the instructor	t, voice, action, and the optima 3 Credits
Prerequisite: Basic principles of sp nication; the selectio speaker-listener relatio JA 4727 Prerequisite: Discussion on selecte	eech and voice production and proficiency in their use; skills of n and evaluation of materials for speech; organization, though on Seminar By the consent of the instructor	t, voice, action, and the optima 3 Credits various means of communicatior

The Civil and Commercial Code, Book 1, Title 4 on Juristic Acts, Title 5 on Periods of Time and Title 6 on Prescription and Book 2, Title 2 on Contracts.

LW 1102	Property and Land Law	3 Credits
Principles of law rela	ating to property according to the Civil and Commercial Code, Boo d Act and other laws involved.	
LW 1201	Criminal Law I	3 Credits
Criminal law, theorie	es of criminal liability, scope of criminal law, attempt, principals a prescription, penalties and criminological and enological theories.	
W 1501	Principles of Private Law	3 Credits
Definition, developm	nent, concept, role, and importance of private law as well as applic les of civil and private law, origins of laws, divisions and categorie nmercial Code.	cation and interpretation of law
W 1502	Principle of Public Law	2 Credits
Organizations in are	a of public law, definition, components, forms of governmental s cs; concept, and legal procedure of public law.	
LW 1503	Thai Legal History	2 Credits
	e present, especially from the era of compiling law codes with er	inprasizing on comparative la
petween law and of	e students' understanding of Thai legal system. A study of legal th ther sciences, origins of law, important legal systems, nature of lication and interpretation.	eories and notions, relationshi
petween law and of repealing of law, appl .W 1504	e students' understanding of Thai legal system. A study of legal th ther sciences, origins of law, important legal systems, nature of lication and interpretation. Constitutional Law	eories and notions, relationshi law, types of law, drafting an 3 Credits
between law and of epealing of law, appl W 1504 History and develop portant constitution	e students' understanding of Thai legal system. A study of legal th ther sciences, origins of law, important legal systems, nature of lication and interpretation.	eories and notions, relationshi law, types of law, drafting an 3 Credits  ight and liberty of people, in
between law and of epealing of law, appl W 1504 History and develop bortant constitution obliosophies of the co W 2103	e students' understanding of Thai legal system. A study of legal th ther sciences, origins of law, important legal systems, nature of lication and interpretation. Constitutional Law oment of the Constitution, various governmental organizations, ri al theories, such as theory of division of powers and theory of ju onstitutional systems. Obligations Law	eories and notions, relationshi law, types of law, drafting an 3 Credits  ight and liberty of people, in idicial reviews including variou 3 Credits
between law and of epealing of law, appl W 1504 History and develop bortant constitutiona bhilosophies of the co W 2103 Significance of law, to mercial Code Book 2 and debtors, transfe	e students' understanding of Thai legal system. A study of legal th ther sciences, origins of law, important legal systems, nature of lication and interpretation. Constitutional Law ment of the Constitution, various governmental organizations, ri al theories, such as theory of division of powers and theory of ju onstitutional systems.	aeories and notions, relationshi law, types of law, drafting an 3 Credits  ight and liberty of people, in idicial reviews including variou 3 Credits  ccording to the Civil and Con from debt, plurality of credito
between law and of epealing of law, appl W 1504 distory and develop bortant constitution obilosophies of the co W 2103 dignificance of law, to nercial Code Book 2 and debtors, transfe fitle 1, Chapter 2, Par W 2104	e students' understanding of Thai legal system. A study of legal th ther sciences, origins of law, important legal systems, nature of lication and interpretation. Constitutional Law oment of the Constitution, various governmental organizations, ri al theories, such as theory of division of powers and theory of ju onstitutional systems. Obligations Law types, sources, subjects, performance and effects of obligations ar 2, Title 1, Chapters 1 and 2, Pat 1 and preferential rights arising f er of claims and extinction of obligations according to the Civil t 2-6 and Titles 3, 4 and 5. Law of Delict	aeories and notions, relationshi law, types of law, drafting an 3 Credits  ight and liberty of people, in idicial reviews including variou 3 Credits  from debt, plurality of credito and Commercial Code Book 3 Credits
between law and of epealing of law, appl W 1504 History and develop portant constitutions obhilosophies of the co W 2103 Higgnificance of law, f mercial Code Book 2 and debtors, transfe Title 1, Chapter 2, Par W 2104	e students' understanding of Thai legal system. A study of legal th ther sciences, origins of law, important legal systems, nature of lication and interpretation. Constitutional Law oment of the Constitution, various governmental organizations, ri al theories, such as theory of division of powers and theory of ju onstitutional systems. Obligations Law types, sources, subjects, performance and effects of obligations ar 2, Title 1, Chapters 1 and 2, Pat 1 and preferential rights arising f er of claims and extinction of obligations according to the Civil t 2-6 and Titles 3, 4 and 5.	eories and notions, relationshi law, types of law, drafting an 3 Credits  ight and liberty of people, in idicial reviews including variou 3 Credits  ccording to the Civil and Con from debt, plurality of credito and Commercial Code Book 3 Credits 
between law and of epealing of law, appl W 1504 History and develop portant constitutions obilosophies of the co W 2103 Significance of law, f mercial Code Book 2 and debtors, transfe Fitle 1, Chapter 2, Par W 2104 Forts, management w W 2105	e students' understanding of Thai legal system. A study of legal th ther sciences, origins of law, important legal systems, nature of lication and interpretation. Constitutional Law ment of the Constitution, various governmental organizations, ri al theories, such as theory of division of powers and theory of ju onstitutional systems. Obligations Law types, sources, subjects, performance and effects of obligations ac 2, Title 1, Chapters 1 and 2, Pat 1 and preferential rights arising f er of claims and extinction of obligations according to the Civil t 2-6 and Titles 3, 4 and 5. Law of Delict vithout mandate and undue enrichment according to the Civil and Co Insurance Law	aeories and notions, relationshi law, types of law, drafting an 3 Credits  ight and liberty of people, in idicial reviews including variou 3 Credits  from debt, plurality of creditor and Commercial Code Book 3 Credits  ommercial Code, Book 2. 2 Credits
between law and of repealing of law, appl LW 1504 History and develop portant constitutiona philosophies of the co LW 2103 Significance of law, f mercial Code Book 2 and debtors, transfe Title 1, Chapter 2, Par LW 2104 Torts, management w LW 2105	e students' understanding of Thai legal system. A study of legal th ther sciences, origins of law, important legal systems, nature of lication and interpretation. Constitutional Law oment of the Constitution, various governmental organizations, ri al theories, such as theory of division of powers and theory of ju onstitutional systems. Obligations Law types, sources, subjects, performance and effects of obligations ar 2, Title 1, Chapters 1 and 2, Pat 1 and preferential rights arising f er of claims and extinction of obligations according to the Civil t 2-6 and Titles 3, 4 and 5. Law of Delict vithout mandate and undue enrichment according to the Civil and Co Insurance Law lating to insurance according to the Civil and Commercial Cod	eories and notions, relationshi law, types of law, drafting an 3 Credits  ight and liberty of people, in idicial reviews including variou 3 Credits  ccording to the Civil and Con from debt, plurality of credito and Commercial Code Book 3  0 Credits  2 Credits 
between law and of epealing of law, appl W 1504 History and develop portant constitutional philosophies of the co W 2103 History and develop portant constitutional philosophies of the co W 2103 History and develop with 2003 History and develop History and develop Hi	e students' understanding of Thai legal system. A study of legal th ther sciences, origins of law, important legal systems, nature of lication and interpretation. Constitutional Law oment of the Constitution, various governmental organizations, ri al theories, such as theory of division of powers and theory of ju onstitutional systems. Obligations Law types, sources, subjects, performance and effects of obligations ar 2, Title 1, Chapters 1 and 2, Pat 1 and preferential rights arising fer er of claims and extinction of obligations according to the Civil t 2-6 and Titles 3, 4 and 5. Law of Delict without mandate and undue enrichment according to the Civil and Co Insurance Law lating to insurance according to the Civil and Commercial Cod life insurances. Specific Contracts I	aeories and notions, relationshi law, types of law, drafting an 3 Credits  ight and liberty of people, in dicial reviews including variou 3 Credits  from debt, plurality of credito and Commercial Code Book 3 Credits  ommercial Code, Book 2. 2 Credits  le, Book 3, and the legislatio 3 Credits
between law and of repealing of law, appl W 1504 History and develop cortant constitutions obilosophies of the co W 2103 Significance of law, f mercial Code Book 2 and debtors, transfe Fitle 1, Chapter 2, Par W 2104 Forts, management w W 2105 Principles of law rel concerning loss and I W 2106	e students' understanding of Thai legal system. A study of legal th ther sciences, origins of law, important legal systems, nature of lication and interpretation. Constitutional Law oment of the Constitution, various governmental organizations, ri al theories, such as theory of division of powers and theory of ju onstitutional systems. Obligations Law types, sources, subjects, performance and effects of obligations ar 2, Title 1, Chapters 1 and 2, Pat 1 and preferential rights arising fer of claims and extinction of obligations according to the Civil t 2-6 and Titles 3, 4 and 5. Law of Delict vithout mandate and undue enrichment according to the Civil and Co Insurance Law lating to insurance according to the Civil and Commercial Cod life insurances. Specific Contracts I	aeories and notions, relationshi law, types of law, drafting an 3 Credits  ight and liberty of people, in idicial reviews including variou 3 Credits  from debt, plurality of credito and Commercial Code Book 3  3 Credits  ek, Book 3, and the legislatio 3 Credits 

	Negotiable Instruments and Current Accounts Law	2 Credits
	nts and current accounts according to the Civil and Commercial Code, Book	3 Titles 21 and 19.
LW 2202 Prerequisite:	Criminal Law II LW 1201 Criminal Law I	2 Credits
	cluding those concerning the security of the kingdom, religion, publ x.	ic peace, public danger,
LW 2203 Prerequisite:	Criminal Law III LW 1201 Criminal Law I	3 Credits
	uding those concerning life and body, liberty, reputation, and property as w	vell as petty offenses.
LW 2505	Administrative Law	2 Credits
Thai administrative	system, the relationship among political governmental organization, rig as public service management, and concession.	ghts between public and
LW 2601	Public Finance Law	2 Credits
Law of public finance	e concerning financial matters, treasury, budget control, financial institu ncial matters, and treasury employed by the government in the administrat	
LW 2602	Computer Law and Computer for Legal Research	3 Credits
Law on computer a	nd application of computer to legal research, information collection ar n of computer to legal works and information services.	nd legal services, general
LW 3001	English for Lawyers I	2 Credits
	logy including definitions and examples of English words used in general p	rinciples of law.
LW 3002	English for Lawyers II	2 Credits
	English for Lawyers II Jish legal terminologies used in several legal areas.	2 Credits
Vocabularies and Eng	glish legal terminologies used in several legal areas. Specific Contracts II	2 Credits 3 Credits
Vocabularies and Eng LW 3109 Prerequisite:	glish legal terminologies used in several legal areas. Specific Contracts II LA 2105 Specific Contracts I	
Vocabularies and Eng LW 3109 Prerequisite: Law on hire of serv	glish legal terminologies used in several legal areas. Specific Contracts II	3 Credits
Vocabularies and Eng LW 3109 Prerequisite: Law on hire of serv warehousing, agency LW 3110	glish legal terminologies used in several legal areas. Specific Contracts II LA 2105 Specific Contracts I ices, hire of work, carriage according to the Civil and Commercial Code , brokerage, compromise and gambling and betting. Family Law	3 Credits
Vocabularies and Eng LW 3109 Prerequisite: Law on hire of serv warehousing, agency LW 3110	glish legal terminologies used in several legal areas. Specific Contracts II LA 2105 Specific Contracts I ices, hire of work, carriage according to the Civil and Commercial Code I, brokerage, compromise and gambling and betting. Family Law	3 Credits , Book 3, Ioan, deposit,
Vocabularies and Eng LW 3109 Prerequisite: Law on hire of serv warehousing, agency LW 3110 The Civil and Comme LW 3111	glish legal terminologies used in several legal areas. Specific Contracts II LA 2105 Specific Contracts I ices, hire of work, carriage according to the Civil and Commercial Code <i>t</i> , brokerage, compromise and gambling and betting. Family Law ercial Code Book 5. Secured Transactions Law	3 Credits , Book 3, Ioan, deposit,
Vocabularies and Eng LW 3109 Prerequisite: Law on hire of serv warehousing, agency LW 3110 The Civil and Comme LW 3111	glish legal terminologies used in several legal areas. Specific Contracts II LA 2105 Specific Contracts I ices, hire of work, carriage according to the Civil and Commercial Code <i>t</i> , brokerage, compromise and gambling and betting. Family Law ercial Code Book 5.	3 Credits , Book 3, Ioan, deposit, 3 Credits 2 Credits
Vocabularies and Eng LW 3109 Prerequisite: Law on hire of serv warehousing, agency LW 3110 The Civil and Comme LW 3111 Principles of law relat LW 3112	glish legal terminologies used in several legal areas. Specific Contracts II LA 2105 Specific Contracts I ices, hire of work, carriage according to the Civil and Commercial Code <i>t</i> , brokerage, compromise and gambling and betting. Family Law ercial Code Book 5. Secured Transactions Law ting to surety ship, mortgage, and pledge according to the Civil and Comme Succession Law	3 Credits , Book 3, Ioan, deposit, 3 Credits 2 Credits
Vocabularies and Eng LW 3109 Prerequisite: Law on hire of serv warehousing, agency LW 3110 The Civil and Comme LW 3111 Principles of law relat LW 3112	glish legal terminologies used in several legal areas. Specific Contracts II LA 2105 Specific Contracts I ices, hire of work, carriage according to the Civil and Commercial Code <i>t</i> , brokerage, compromise and gambling and betting. Family Law ercial Code Book 5. Secured Transactions Law ting to surety ship, mortgage, and pledge according to the Civil and Comme Succession Law	3 Credits , Book 3, Ioan, deposit, 3 Credits 2 Credits ercial Code Book 3.
Vocabularies and Eng LW 3109 Prerequisite: Law on hire of serv warehousing, agency LW 3110 The Civil and Comme LW 3111 Principles of law relat LW 3112 The Civil and Comme LW 3301	glish legal terminologies used in several legal areas. Specific Contracts II LA 2105 Specific Contracts I ices, hire of work, carriage according to the Civil and Commercial Code <i>i</i> , brokerage, compromise and gambling and betting. Family Law ercial Code Book 5. Secured Transactions Law ting to surety ship, mortgage, and pledge according to the Civil and Comme Succession Law ercial Code Book 6. Civil Procedural Law	3 Credits , Book 3, Ioan, deposit, 3 Credits 2 Credits ercial Code Book 3.
Vocabularies and Eng LW 3109 Prerequisite: Law on hire of serv warehousing, agency LW 3110 The Civil and Comme LW 3111 Principles of law relat LW 3112 The Civil and Comme LW 3301	glish legal terminologies used in several legal areas. Specific Contracts II LA 2105 Specific Contracts I ices, hire of work, carriage according to the Civil and Commercial Code , brokerage, compromise and gambling and betting. Family Law ercial Code Book 5. Secured Transactions Law ting to surety ship, mortgage, and pledge according to the Civil and Comme Succession Law ercial Code Book 6.	3 Credits , Book 3, Ioan, deposit, 3 Credits 2 Credits ercial Code Book 3. 3 Credits 4 Credits

Analysis of criminal procedure according to the Criminal Procedure Code with emphasizing on authorities and duties of officials, scope of investigation arrests, interrogation, confinement, prosecution, trial, appeals, and execution of judgment.

LW 3303	Constitution of Courts of Justice and Judicial System	2 Credits
Constitution of Court of Justic	e, judiciary, court jurisdiction, judicial powers in trial, and judicial systems.	
LW 3304 Prerequisite:	Civil Procedural Law on Execution of Judgment and Orders LW 3301 Civil Procedural Law	2 Credits
	I measures and execution of judgments and orders.	
LW 3305	Evidence Law	3 Credits
	of evidence and provisions appearing in the Civil Procedure Code an	d Criminal Pro-
LW 3306	Bankruptcy Law	3 Credits
Nature and objectives of ba	nkruptcy law comparing civil proceedings with bankruptcy proceedings tcy Law including rehabilitation.	, the history of
LW 3401	Public International Law	3 Credits
	acetime and wartime, court jurisdictions in criminal cases under interna	tional law prin-
LW 3602	Tax Law I LA 2601 Public Finance Law	3 Credits
Revenue Code in respect of pe	ersonal income tax and corporate income tax.	
LW 3603 Prerequisite:	Tax Law II LW 2601 Public Finance Law	2 Credits
	of value-added tax and double tax treaties.	
LW 4113	Seminar in Civil and Commercial Law	2 Credits
A seminar in important Civil Pi	rocedure Code topics.	
LW 4204	Criminology and Penology	2 Credits
Relationship between crimin guidelines of criminologists in	ological theories and criminal law, criminal procedure, criminal procedu n order to study criminological theories from past to present, classificatio scope of enforcement of criminal law and social philosophies in respect	n of crimes and
LW 4205	Criminal Investigation	2 Credits
	emphasizing on law enforcement, scientific investigations, evidence fin fevidence and witnesses.	ding, interroga-
LW 4206	Seminar in Criminal Law	2 Credits
Seminar in important Criminal		
LW 4307	Juvenile and Family Law	2 Credits
	system as well court procedure in such cases and family cases.	
LW 4308	Administrative Court and Administrative Procedure	2 Credits
Delle of educitation theory	te she dhe e second heat dhata e second se heat at second second second second second second second second sec	

Role of administrative courts including court jurisdiction as well as legislation relates to administrative procedure and implementation of administrative judgment.

LW 4309 Prerequisite:	Seminar in Civil Procedural Law LW 3304 Civil Procedural Law on Execution of Judgment or Orders of a co	2 Credits urt.
Seminar in important civil pro	cedural law topics.	
LW 4310 Prerequisite:	Seminar in Criminal Procedural Law LA 3302 Law of Criminal Procedure	2 Credits
Seminar in important criminal	procedural law topics.	
LW 4402	Private International Law	3 Credits
General nature of private interal ality of persons, acquisition	ernational law, distinction between citizenship's according to the Nationa and loss of nationality under Thai law, domicile, residence, nationality tus of aliens) conflict of laws, and private international law trial.	
LW 4403	International Economic Law	2 Credits
Rules and economic relation on Tariffs and Trade (GATT) GATT framework and foreign	iship among developed countries and developing countries in 1) Ger to analyze agreements in multilateral trade negotiations, the negotiat n economic laws which effect Thai export, 2) the International Moneta the case of deficit, indebtedness and development and 3) rules to contr	ions within the ry Fund to ana-
LW 4404	Maritime Law	2 Credits
	ips, agreements on carriage of goods by sea; collision at sea, salvage international sea for vessels.	at sea, laws of
LW 4405	Law of the Sea	2 Credits
Economic and political import and development of internat sea bed which in beyond st problems of ephilagic state,	rtance of the sea to humanity, philosophies on use and possession of th ional law of sea, present problems in respect of international law concerr tate boundaries, sea territories, exclusive economic zones, international environmental control, scientific research, technological development, s mportance of sea to Thailand and Thailand's roles and view toward problem	ing the sea and waters, specific olutions for dis-
LW 4406	International Organization Law	2 Credits
Development of international gans of the United Nations, the Trusteeship Council, the agencies such as the Intern	I organizations, structures, powers and duties of the League of Nations such as the General Assembly, the Security Council, the Economic and Secretariat and the International Court of Justice, the powers and dutie ational Labor Organization, the United Nations Educational, Scientific a ealth Organization and region organizations such as the European Uni- SEAN).	l Social Council, es of specialized ind Cultural Or-
LW 4407	Human Rights Law	2 Credits
Definition and philosophy be	ehind human rights, protection of human rights under the League of I f human rights at regional levels, such as Europe, America, Africa and Thai law.	
LW 4408	ASEAN Law	2 Credits
Evolution of Regionalism in Trade Agreement (AFTA), AS (AFAS); Framework Agreeme ment (ACIA); Asian Economic of regional groupings accord Establishing The World Trade	Southeast Asia and ASEAN prior to the adoption of ASEAN Chart SEAN Trade in Goods Agreement (ATIGA); ASEAN Framework Agreement on the ASEAN Investment Area (AIA); ASEAN Comprehensive Inv c Community (AEC), ASEAN Charter and its legal issues and implicatio ding to General Agreement on Tariffs and Trade (GATT) and The Marral e Organization (WTO Agreement); legal criteria of international organiza is relationships with outside powers.	ent on Services estment Agree- ns; legal criteria kesh Agreement

LW 4506	Philosophy of Law	2 Credits	LW 4610	Investment Law	2 Credits
Development of lega	I philosophies from past to present and root of problems of Law.		LVV 401U		
LW 4507	Military Law	2 Credits	tries, laws on direct	tment, Thai economic structure, policies and laws involved investment, portfolio investment, financial institutions and	especially those of developing co other laws which effects on inve
The Constitution of N	Nilitary Court, the Military Criminal Code, military disciplines, and m	artial law.	ment.		
			LW 4611	Counseling and Advocacy	2 Credits
N 4508	Environmental Law	2 Credits		nseling by giving legal advice to public by learning to solve l	
tudied from state po	ental problems and their effects of life, society and country, go olicy and competent offices, environmental law on protection of a of environmental problems.		firms. A study of all and petitions, litiga	drafting of various contracts, establishment and manageme procedure involved in litigation such as case preparation, dr tion techniques; for example, evidence presentation, with eals as well as enforcement of a judgment or order of a court.	afting of complaints, replies, moti
W 4509	Introduction to American and English Legal System	2 Credits	LW 4612	Customs Law	2 Credits
	development of common law system in the US and UK. This c				
ionships between E	legal institutions and professions, relationships between federa inglish law and European Union law, framework of American a significant law in both countries.		toms procedure, off rules on tariffs, exen	es of law of customs and excise, development and origins enses under customs law, authorities and duties of customs nption of customs, interpretation of tariffs, customs exemption l customs law and industrial estates.	officials, litigation of customs cas
LW 4510	Forensic Medicine	2 Credits			2 Credite
History and objective	e of forensic medicine, autopsy, human identification, forensic fi	 nger print, investigation of crime	LW 4613	Industrial Law	2 Credits
	igation of death by accident.	- · · · •	Principles of law re operations.	lating to industrial operations and rules, regulations and le	gal problems arising from industr
LW 4511	Principles of Legal Profession	2 Credits	LW 4614	Real Estate Law	2 Credits
	al profession, responsibility and work of lawyers in various b ganizations formed to monitor people in the legal profession.	ranches, lawyer's etiquettes and		ousiness exploitation of land by private sector, law controll , condominium, shopping center and resort management ar	
LW 4604	Labor and Social Security Law	3 Credits	LW 4615	Tax Law III	2 Credits
labor relations, labo	w, history of labor law in Thailand, present labor law of Thail or management, alien workers and guidelines for consideratio			t tax laws concerning business, such as signboard tax, building a	
problems relating to	labor and social security law.		LW 4616	Consumer Protection Law	2 Credits
LW 4605	Intellectual Property Law	3 Credits		e objectives to protect the consumer's rights especially cons	
copyright protection	pes of intellectual property with emphasizing on copyright, pa , international copyrights protection, protection of patent, trade her types of intellectual property such as rights over trade nam	marks and copyright under Thai		and drawbacks of Thailand's consumer protection law in ord	
	ry in drafting patent law.	e, dude secrete as well as devel	LW 4617	Anti-Monopoly Law	2 Credits
LW 4606	International Business Transactions Law	2 Credits		its effects on consumers, economy and national security, of traders, factory owners of trade associations, and price and p	
developed countries,	ch may arise from international business operations with empl , especially with member states of the European Union and the n for companies, certain legal perspectives of international co	United states, legal status of in-	LW 4618	Commercial Arbitration Law	2 Credits
and process of arbitra	ation for international business.			, rule and regulation concerning arbitration of the Thai Char rce and other important organizations, arbitration treaties and t	
LW 4607	Banking and Financial Institutions Law	2 Credits	LW 4619	Natural Resources Law	2 Credits
Roles of commercia financial institutions l	I banks and other financial institutions, control and support   laws.	policies as well as banking and	Laws on petroleum,	ninerals, forests, and etc.	
LW 4608	Securities and Securities Exchange Law	2 Credits	LW 4620	Seminar in Tax Law	2 Credits
	urities exchange market in Thailand and its management varior curities, control and operation of securities business, tax law ar neasures of various problems of securities exchange.		Prerequisite:  A seminar in importa	LA 3602 Tax Law I Int tax law topics.	
	הכמשמוכש שי אמווטעש פוטטובוווש טו שכנעוועוכש באנוומוועב.				
	Principles of Contract Drafting	2 Credits	LW 4621	Seminar in Business Law	2 Credits

LW 4622	Electronic Commerce Law	2 Credits	MA 2102 Prerequisite:	Applied Composition IV MA 2101 Applied Composition III	2 Credits
services via internet	sues relating to transactions made by any electronic means, or electronic data interchange important legal issues as well of electronic signatures, legal requirements as to writing or	as issues involving formation of	Further development	of techniques used in fine art composition. Creation of short co	ompositions in various media.
records, and admissil crimes, both position	bility in evidence of electronic records, various perspectives of s of Thai laws and legal development of foreign laws including ational organizations such as UNCITRAL or EU.	f data protection and computer	MA 2301 Prerequisite:	Applied Music III MA 1302 Applied Music II	2 Credits
LW 4623	Computer and Law: A Seminar Course	2 Credits		of performance techniques and interpretation of fine art movement from the previous course.	usic, based on student's selection o
	olems that could result in developing to make use of data and ers, crimes related to intellectual property rights and computer cri		MA 2302 Prerequisite:	Applied Music IV MA 2301 Applied Music III	2 Credits
MA 0610	Music Ensemble	2 Credits		of performance techniques and interpretation of fine art mi vement from the previous course.	usic, based on student's selection o
Ensemble in vocal, stri	ing, woodwind, and brass.		MA 2501	Chorus I	1 crodit
MA 1101	Applied Composition I	2 Credits			1 credit
Exploration and deve media.	elopment of techniques used in fine art composition. Creation	of short compositions in various		up singing skills, basic vocal production and techniques, sig on, cannon and simple arrangement. Attending the choral	
MA 1102	Applied Composition II	2 Credits	MA 2502	Chorus II	1 credit
Prerequisite:	MA 1101 Applied Composition I		Prerequisite:	MA 2501 Chorus I	
Further development	of techniques used in fine art composition. Creation of short comp	ositions in various media.		up singing skills, early intermediate vocal production and to	
MA 1300	Introduction to Applied Music	1 Credits	tice variety of choral are required.	works in 2-4 parts harmony. Attending the choral concert	and performing one major concert
			MA 2503	Chorus III	1 Credit
Introduction to perfor	mance techniques and interpretation of fine art music.		Prerequisite:	MA 2502 Chorus II	
MA 1301	Applied Music I	2 Credits		μρ singing skills, intermediate vocal production and techniques. Attending the choral concert and performing one major conc	
	ormance techniques and interpretation of fine art music, based	on student's selection of instru-	MA 2504	Chorus IV	1 Credit
ment.			Prerequisite:	MA 2503 Chorus III	T Credit
MA 1302 Prerequisite:	Applied Music II MA 1301 Applied Music I	2 Credits		up singing skills, advanced vocal production and techniques. s. Attending the choral concert and performing one major conc	
	of performance techniques and interpretation of fine art music	; based on student's selection of	MA 3101	Applied Composition V	2 Credits
MA 1401	Diana Harmony I	2 Credite	Prerequisite:	MA 2102 Applied Composition IV	
MA 1401 Piano techniques inc	Piano Harmony I 	2 Credits  a, figured bass, analysis and ac-	Further development media.	of techniques used in fine art composition. Creation of mec	dium length compositions in various
companying.			NA 2102		
MA 1402	Piano Harmony II	2 Credits	MA 3102 Prerequisite:	Applied Composition VI MA 3101 Applied Composition V	2 Credits
Prerequisite:	MA 1401 Piano Harmony I		Further development	of techniques used in fine art composition. Creation of mec	 dium length compositions in various
	Piano Harmony I. Piano techniques including sight reading, cle nalysis and accompanying.	f reading improvisation, transpo-	media.		<u> </u>
MA 1600	Basic Guitar Instructions	1 Credit	MA 3301 Prerequisite:	Applied Music V MA 2302 Applied Music IV	2 Credits
Basis of guitar studies.	. The class will be divided into small groups of students.		Further development	of performance techniques and interpretation of fine art mu	 usic, based on student's selection of
MA 1700	Basic Vocal Instructions	1 Credit	instrument and impro	vement from the previous course.	
Basis of vocal studies.	The class will be divided into small groups of students.		MA 3302 Prerequisite:	Applied Music VI MA 3301 Applied Music V	2 Credits
MA 2101 Prerequisite:	Applied Composition III MA 1102 Applied Composition II	2 Credits		of performance techniques and interpretation of fine art mi vement from the previous course.	usic, based on student's selection of

Prerequisite:	Flamenco Techniques MA 2302 Applied Music IV	2 Credits
Practical Flamenco guit	ar techniques with emphasis on the elementary chord prog ling for Bulerias, Soleares, Alegrias, Sevillanas, Farruca, Tie	ressions and techniques used in
MA 3801 Prerequisite:	Contemporary Music Ensemble I MA 1302 Applied Music II	1 Credit
	mbles with focus on contemporary fine art music.	
MA 3901 Prerequisite:	Baroque Music Ensemble I MA 1302 Applied Music II	1 Credit
	mbles with focus on the performance of Baroque music.	
MA 4101 Prerequisite:	Applied Composition VII MA 3102 Applied Composition VI	2 Credits
	f techniques used in fine art composition. Creation of mediun	
MA 4102 Prerequisite:	Applied Composition VIII MA 4101 Applied Composition VII	2 Credits
	f techniques used in fine art composition. Creation of mediur	
MA 4301	Applied Music VII	2 Credits
Prerequisite:	MA 3302 Applied Composition VI	
Further development of	MA 3302 Applied Composition VI f performance techniques and interpretation of fine art music ement from the previous course.	
Further development of	f performance techniques and interpretation of fine art music	
Further development of instrument and improve MA 4302 Prerequisite:	f performance techniques and interpretation of fine art music ment from the previous course. Applied Music VIII MA 4301 Applied Music VII	, based on student's selection of 2 Credits
Further development of instrument and improve MA 4302 Prerequisite: Further development of	f performance techniques and interpretation of fine art music ement from the previous course. Applied Music VIII	, based on student's selection of 2 Credits
Further development of instrument and improve MA 4302 Prerequisite: Further development of instrument and improve	f performance techniques and interpretation of fine art music ement from the previous course. Applied Music VIII MA 4301 Applied Music VII f performance techniques and interpretation of fine art music ement from the previous course. Advanced Performance I	, based on student's selection of 2 Credits
Further development of instrument and improve MA 4302 Prerequisite: Further development of instrument and improve MA 4311 Prerequisite:	f performance techniques and interpretation of fine art music iment from the previous course. Applied Music VIII MA 4301 Applied Music VII f performance techniques and interpretation of fine art music iment from the previous course. Advanced Performance I MA 3302 Applied Music VI	, based on student's selection of 2 Credits , based on student's selection of 2 Credits
Further development of instrument and improve MA 4302 Prerequisite: Further development of instrument and improve MA 4311 Prerequisite: Further development of	f performance techniques and interpretation of fine art music ement from the previous course. Applied Music VIII MA 4301 Applied Music VII f performance techniques and interpretation of fine art music ement from the previous course. Advanced Performance I MA 3302 Applied Music VI performance techniques and interpretation of fine art music.	, based on student's selection of 2 Credits , based on student's selection of 2 Credits
Further development of instrument and improve MA 4302 Prerequisite: Further development of instrument and improve MA 4311 Prerequisite:	f performance techniques and interpretation of fine art music iment from the previous course. Applied Music VIII MA 4301 Applied Music VII f performance techniques and interpretation of fine art music iment from the previous course. Advanced Performance I MA 3302 Applied Music VI	, based on student's selection of 2 Credits , based on student's selection of 2 Credits
Further development of instrument and improve MA 4302 Prerequisite: Further development of instrument and improve MA 4311 Prerequisite: Further development of MA 4312 Prerequisite:	f performance techniques and interpretation of fine art music ement from the previous course. Applied Music VIII MA 4301 Applied Music VII f performance techniques and interpretation of fine art music ement from the previous course. Advanced Performance I MA 3302 Applied Music VI performance techniques and interpretation of fine art music. Advanced Performance II	, based on student's selection of 2 Credits , based on student's selection of 2 Credits
Further development of instrument and improve MA 4302 Prerequisite: Further development of instrument and improve MA 4311 Prerequisite: Further development of MA 4312 Prerequisite:	f performance techniques and interpretation of fine art music ment from the previous course. Applied Music VIII f performance techniques and interpretation of fine art music ment from the previous course. Advanced Performance I MA 3302 Applied Music VI performance techniques and interpretation of fine art music. Advanced Performance I MA 4311 Advanced Performance I performance techniques and interpretation of fine art music. Music Production Technology	, based on student's selection of 2 Credits  , based on student's selection of 2 Credits  2 Credits  3 Credits
Further development of instrument and improve MA 4302 Prerequisite: Further development of instrument and improve MA 4311 Prerequisite: Further development of MA 4312 Prerequisite: Further development of MB 2421 Aural training in variou acoustic fundamentals,	f performance techniques and interpretation of fine art music ment from the previous course. Applied Music VIII f performance techniques and interpretation of fine art music ment from the previous course. Advanced Performance I MA 3302 Applied Music VI performance techniques and interpretation of fine art music. Advanced Performance II MA 4311 Advanced Performance I performance techniques and interpretation of fine art music.	, based on student's selection of 2 Credits , based on student's selection of 2 Credits , 2 Credits , 2 Credits , 3 Credits , 2 Credits

Survey of the music industry, highlighting those areas where music and business intersect, career paths in the music industry, development of business-related knowledge and skills necessary for effectively maintaining a professional music career, vocabulary and terminology of the music industry, and the distinction between music and business at the corporate level.

MB 2522 Prerequisite:	Music Business II MB 2521 Music Business I	3 Credits
Introduction to econ individual performan	nomic essentials, analysis of financial documents, planning the ce to big concert production, accounting practices, promotion sful/non-successful manager and management companies in music	n, sponsorship, settlement, and
MB 3421 Prerequisite:	Music Business Technology MB 2421 Music Production Technology	3 Credits
Overview of music in	dustry, history of music publication, digital music, music produc gence of music/business/technology, SEO—Search Engine Optimiz	tion analysis, analog and digita
MB 3423 Prerequisite:	Sound Design and Sound Logo MB 3421 Music Business Technology	3 Credits
Introduction to sour	nd design in business, sound effects, value-added sound, bran ial responsibility, importance of sound design.	 ding, direction and synergy o
MB 3512 Prerequisite:	Legal Aspects of Music Business MB 2522 Music Business II	3 Credits
Legal issues confront	ting music business: with artists, musicians, engineers, and proo n to legal matters and individuals' working procedure in the m onal copyright law.	ducers, legal changes and chal
MB 3513 Prerequisite:	Local Internship in Music Industry (240 hours) MB 2522 Music Business II	3 Credits
	ny in the music industry for at least 240 hours.	
MB 3531 Prerequisite:	History of Music Industry in Thailand MB 2522 Music Business II	3 Credits
Overview of Thai musi ing of live music perfo Western cultures influ	ic industry, three main components depicting important roles of mu ormance, publishing, and recording, development and formation of encing Thai culture, impact of new technology and innovation impo- on Thai Music industry.	Thai music industry, influx of
MB 3532 Prerequisite:	Classical Music Management MB 2522 Music Business II	3 Credits
Overview of classical r and development fror	music industry, how monies are generated in the classical music sec n a solo artist to a grand orchestra, concert venue selection, new de he way that classical music can be marketed, promoted, distributed	tor, classical artist management evelopments in digital technol-
MB 4511 Prerequisite:	Music Business Artist/Project Management MB 2522 Music Business II	3 Credits
Personal and busine	ss issues relating to the management of music artists/projects agents, touring, merchandising, fees, duties and taxes.	 5, negotiating contracts, image
MB 4512 Prerequisite:	Music in Film Industry MB 2522 Music Business II	3 Credits
History of cinema, fi	Im scoring, sound effects, history and development of incorpolustry in relation to film and broadcast media.	
roles of the music indu		

MB 4521 Prerequisite:	Selected Topics in Music Business I MB 4511 Music Business Artist/Project Management	1 Credit
	ic or area of interest in the Music Industry.	
MB 4522	Selected Topics in Music Business II	2 Credits
Prerequisite:	MB 4521 Selected Topics in Music Business I	
	ject and business plan written into practicum and execution.	
MB 4523	Music Business Seminar	2 Credits
Prerequisite:	MB 4521 Selected Topics in Music Industry I	
Selected issues in music l	business based on individual interest, research in the field of mus rimary research, visits to various businesses and personal interviews.	sic business with conten
MC 2211	History of Music Notation	2 Credits
Prerequisite:	MU 1112 Theory of Western Music II	
Evolution of music notation	on. Tablature systems, Neumatic and Mensural notation. Elements e. Idiomatic notation. Manuscript techniques. Music terminology.	of notation in traditiona
MC 2242	Opera Staging	2 Credits
Form and structure in ope	birth in the late Renaissance, its development in the 17th century, a era, relations between text and music, the world of singers and the	e characters they portray
Form and structure in open historic study of the open major opera houses throug MC 2301	era, relations between text and music, the world of singers and the ratic orchestra with emphasis on notions of opera production: sta	e characters they portray
Form and structure in open historic study of the open major opera houses throug MC 2301 Prerequisite: Discussion and implemen	era, relations between text and music, the world of singers and the ratic orchestra with emphasis on notions of opera production: sta ghout the world. Accompaniment I	e characters they portray ging, sets, costumes and 2 Credits st. Use of stylistically ap
Form and structure in open historic study of the oper major opera houses throug MC 2301 Prerequisite: Discussion and implemen propriate rhythm and voici MC 2302 Prerequisite:	era, relations between text and music, the world of singers and the ratic orchestra with emphasis on notions of opera production: sta shout the world. Accompaniment I MA 1302 Applied Music II tation of techniques for accompanying a vocalist or instrumentalis ng techniques in a supportive role. Introductions, endings, modulatio Accompaniment II MC 2301 Accompaniment I	e characters they portray ging, sets, costumes and 2 Credits st. Use of stylistically ap
Form and structure in open historic study of the open major opera houses throug MC 2301 Prerequisite: Discussion and implemen propriate rhythm and voici MC 2302 Prerequisite: A continuation from Acco or instrumentalist. Use of	era, relations between text and music, the world of singers and the ratic orchestra with emphasis on notions of opera production: sta shout the world. Accompaniment I MA 1302 Applied Music II tation of techniques for accompanying a vocalist or instrumentalis ng techniques in a supportive role. Introductions, endings, modulatio Accompaniment II MC 2301 Accompaniment I oppaniment I. Discussion and implementation of techniques for stylistically appropriate rhythm and voicing techniques in a support	e characters they portray ging, sets, costumes and 2 Credits st. Use of stylistically ap ns, and transposition. 2 Credits accompanying a vocalis
Form and structure in open historic study of the oper major opera houses throug MC 2301 Prerequisite: Discussion and implemen propriate rhythm and voici MC 2302 Prerequisite: A continuation from Accor or instrumentalist. Use of endings, modulations, and	era, relations between text and music, the world of singers and the ratic orchestra with emphasis on notions of opera production: sta shout the world. Accompaniment I MA 1302 Applied Music II tation of techniques for accompanying a vocalist or instrumentalis ng techniques in a supportive role. Introductions, endings, modulatio Accompaniment II MC 2301 Accompaniment I oppaniment I. Discussion and implementation of techniques for stylistically appropriate rhythm and voicing techniques in a support	e characters they portray ging, sets, costumes and 2 Credits st. Use of stylistically ap ns, and transposition. 2 Credits accompanying a vocalis
Form and structure in open historic study of the oper major opera houses throug MC 2301 Prerequisite: Discussion and implemen propriate rhythm and voici MC 2302 Prerequisite: A continuation from Accor or instrumentalist. Use of endings, modulations, and MC 2511 Principles of accurate pro talian diction. Students r	era, relations between text and music, the world of singers and the ratic orchestra with emphasis on notions of opera production: sta- ghout the world. Accompaniment I MA 1302 Applied Music II tation of techniques for accompanying a vocalist or instrumentalis ing techniques in a supportive role. Introductions, endings, modulatio Accompaniment II MC 2301 Accompaniment I ompaniment I. Discussion and implementation of techniques in a supportive role techniques in a support stylistically appropriate rhythm and voicing techniques in a support transposition.	e characters they portray ging, sets, costumes and 2 Credits st. Use of stylistically ap ns, and transposition. 2 Credits accompanying a vocalis ortive role: introductions 1 Credit
Form and structure in open historic study of the oper major opera houses throug MC 2301 Prerequisite: Discussion and implemen propriate rhythm and voici MC 2302 Prerequisite: A continuation from Acco or instrumentalist. Use of endings, modulations, and MC 2511 Principles of accurate pro talian diction. Students r semester.	era, relations between text and music, the world of singers and the ratic orchestra with emphasis on notions of opera production: sta shout the world. Accompaniment I MA 1302 Applied Music II tation of techniques for accompanying a vocalist or instrumentalis ng techniques in a supportive role. Introductions, endings, modulatio Accompaniment II MC 2301 Accompaniment I ompaniment I. Discussion and implementation of techniques for stylistically appropriate rhythm and voicing techniques in a suppor transposition. Vocal Diction I Nunciation in specified languages. Basic skills in International Pho nust take the sequence in chronological order and must study p	e characters they portray ging, sets, costumes and 2 Credits st. Use of stylistically ap ns, and transposition. 2 Credits accompanying a vocalis ortive role: introductions 1 Credit
Form and structure in open historic study of the oper major opera houses throug MC 2301 Prerequisite: Discussion and implemen propriate rhythm and voici MC 2302 Prerequisite: A continuation from Acco or instrumentalist. Use of endings, modulations, and MC 2511 Principles of accurate pro talian diction. Students r semester. MC 2512 Prerequisite:	era, relations between text and music, the world of singers and the ratic orchestra with emphasis on notions of opera production: sta shout the world. Accompaniment I MA 1302 Applied Music II tation of techniques for accompanying a vocalist or instrumentalit ng techniques in a supportive role. Introductions, endings, modulatio Accompaniment II MC 2301 Accompaniment I ompaniment I. Discussion and implementation of techniques for stylistically appropriate rhythm and voicing techniques in a suppor transposition. Vocal Diction I nunciation in specified languages. Basic skills in International Pho nust take the sequence in chronological order and must study p Vocal Diction II MC 2511 Vocal Diction I	e characters they portray ging, sets, costumes and 2 Credits st. Use of stylistically ap ns, and transposition. 2 Credits accompanying a vocalis ortive role: introductions 1 Credit metic Alphabet (IPA) and rivate voice during each
Form and structure in open historic study of the oper major opera houses throug MC 2301 Prerequisite: Discussion and implemen propriate rhythm and voici MC 2302 Prerequisite: A continuation from Acco or instrumentalist. Use of endings, modulations, and MC 2511 Principles of accurate pro talian diction. Students r semester. MC 2512 Prerequisite: Principles of accurate pro	era, relations between text and music, the world of singers and the ratic orchestra with emphasis on notions of opera production: sta shout the world. Accompaniment I MA 1302 Applied Music II tation of techniques for accompanying a vocalist or instrumentalis ng techniques in a supportive role. Introductions, endings, modulatio Accompaniment II MC 2301 Accompaniment I muciation in specified languages. Basic skills in International Pho nust take the sequence in chronological order and must study p Vocal Diction I MC 2511 Vocal Diction I nunciation in Latin and English. Students must take the sequence	e characters they portray ging, sets, costumes and 2 Credits st. Use of stylistically ap ns, and transposition. 2 Credits accompanying a vocalis ortive role: introductions 1 Credit metic Alphabet (IPA) and rivate voice during each 1 Credit
Form and structure in open historic study of the oper major opera houses throug MC 2301 Prerequisite: Discussion and implemen propriate rhythm and voici MC 2302 Prerequisite: A continuation from Acco or instrumentalist. Use of endings, modulations, and MC 2511 Principles of accurate pro Italian diction. Students r semester. MC 2512 Prerequisite:	era, relations between text and music, the world of singers and the ratic orchestra with emphasis on notions of opera production: sta shout the world. Accompaniment I MA 1302 Applied Music II tation of techniques for accompanying a vocalist or instrumentalis ng techniques in a supportive role. Introductions, endings, modulatio Accompaniment II MC 2301 Accompaniment I muciation in specified languages. Basic skills in International Pho nust take the sequence in chronological order and must study p Vocal Diction I MC 2511 Vocal Diction I nunciation in Latin and English. Students must take the sequence	e characters they portray ging, sets, costumes and 2 Credits st. Use of stylistically ap ns, and transposition. 2 Credits accompanying a vocalis ortive role: introductions 1 Credit metic Alphabet (IPA) and rivate voice during each 1 Credit

	Keyboard Literature II MC 3201 Keyboard Literature I	3 Credits
A continuation of Key	board Literature I. Examination of style and structure and their in d solo keyboard literature with emphasis on the 19th and the 20th ce	
MC 3221 Prerequisite:	Guitar Literature I MA 2302 Applied Music IV	3 Credits
Historical survey of t	he contributive elements, stylistic characteristics, instruments an ntury. History of the development of the guitar and its literature.	nd techniques from the 16th
MC 3222 Prerequisite:	Guitar Literature II MC 3221 Guitar Literature I	3 Credits
A continuation of Gui	itar Literature I. Examination of style and structure and their impa solo guitar literature with emphasis on the 19th and the 20th century	-
MC 3231 Prerequisite:	Lute Literature I MA 2302 Applied Music IV	3 Credits
Historical survey of th	ne contributive elements, stylistic characteristics, instruments and e period. History of the development of the lute and its literature.	techniques from the Middle
MC 3232 Prerequisite:	Lute Literature II MC 3231 Lute Literature I	3 Credits
A continuation of Lut	e Literature I. Style and structure and their impact on performan nemphasis on the 16th century repertory.	nce. Chamber music with lute
MC 3241 Prerequisite:	Vocal Literature MA 2302 Applied Music IV	3 Credits
Survey of standard vo	ocal repertoire from the High Baroque to the present with emphas les and repertoire selection, major composers and representative wor	
MC 3242 Prerequisite:	Opera Literature MC 2242 Opera Staging	3 Credits
MC 3242 Prerequisite: Development of opera		
MC 3242 Prerequisite: Development of opera	MC 2242 Opera Staging a from its beginning to the present with emphasis on stylistic and i	
MC 3242 Prerequisite: Development of opera issues and repertoire se MC 3310 Prerequisite: Providing opportunity	MC 2242 Opera Staging a from its beginning to the present with emphasis on stylistic and i election, major composers and representative works. Junior Recital	interpretive traits, pedagogica 2 Credits
MC 3242 Prerequisite: Development of opera issues and repertoire se MC 3310 Prerequisite: Providing opportunity musical style and perio MC 3511 Prerequisite:	MC 2242 Opera Staging a from its beginning to the present with emphasis on stylistic and i election, major composers and representative works. Junior Recital MA 3301 Applied Music V for students majoring in applied music to demonstrate their abilition od. Students must give at least a 30-45 minute recital. Introduction to Basso Continuo MU 2114 Theory of Western Music IV	interpretive traits, pedagogica 2 Credits
MC 3242 Prerequisite: Development of opera issues and repertoire se MC 3310 Prerequisite: Providing opportunity musical style and perio MC 3511 Prerequisite: Basic principles and te	MC 2242 Opera Staging a from its beginning to the present with emphasis on stylistic and i election, major composers and representative works. Junior Recital MA 3301 Applied Music V for students majoring in applied music to demonstrate their abilitiod. Students must give at least a 30-45 minute recital. Introduction to Basso Continuo	interpretive traits, pedagogica 2 Credits ty and perform in a variety o 2 Credits n the bass line playing a four
MC 3242 Prerequisite: Development of opera issues and repertoire se MC 3310 Prerequisite: Providing opportunity musical style and perio MC 3511 Prerequisite: Basic principles and te voice score. Triads in ro MC 3512 Prerequisite:	MC 2242 Opera Staging a from its beginning to the present with emphasis on stylistic and i election, major composers and representative works. Junior Recital MA 3301 Applied Music V for students majoring in applied music to demonstrate their ability od. Students must give at least a 30-45 minute recital. Introduction to Basso Continuo MU 2114 Theory of Western Music IV echnique of continuo playing. Harmonization of a melody placed in bot position, first and second inversion and their use in basso continuo Advanced Basso Continuo MC 3511 Introduction to Basso Continuo	interpretive traits, pedagogica 2 Credits ty and perform in a variety o 2 Credits n the bass line playing a four
MC 3242 Prerequisite: Development of opera issues and repertoire se MC 3310 Prerequisite: Providing opportunity musical style and perio MC 3511 Prerequisite: Basic principles and te voice score. Triads in ro MC 3512 Prerequisite: Advanced principles	MC 2242 Opera Staging a from its beginning to the present with emphasis on stylistic and i election, major composers and representative works. Junior Recital MA 3301 Applied Music V for students majoring in applied music to demonstrate their abilition od. Students must give at least a 30-45 minute recital. Introduction to Basso Continuo MU 2114 Theory of Western Music IV echnique of continuo playing. Harmonization of a melody placed in bot position, first and second inversion and their use in basso continuo Advanced Basso Continuo	2 Credits 2 Credits ty and perform in a variety o 2 Credits n the bass line playing a four o practice. 2 Credits

MC 3514 Prerequisite:	Vocal Diction IV MC 3513 Vocal Diction III	1 Credit
	pronunciation in French. Students must take the sequence in ring each semester.	
MC 4212 Prerequisite:	Lute Tablature MA 2302 Applied Music IV	2 Credits
Detailed analysis of t Renaissance lute, arch	he lute tablature systems: Italian, French, German and Spanis Ilute, theorbo and Baroque lute, how to transcribe tablatures i with emphasis on the 16th and the 17th century repertory.	h tablature. Different tunings of
MC 4311 Prerequisite:	Senior Recital MA 4301 Applied Music VII	4 Credits
	inute recital demonstrating the ability to perform in a variety of m	
MC 4312 Prerequisite:	Recital for Composition MA 4101 Applied Composition VII	4 Credits
Scheduling, promotin	g, rehearsing and executing a recital of original compositions Recital duration should be at least 45 minutes.	
MC 4710 Prerequisite:	Piano Pedagogy MA 3302 Applied Composition VI	2 Credits
Introduction to basic	pedagogical principles, general designs of materials for begin rofession including the study of repertoires, examination and o s.	ning pianists, various aspects of
MC 4711 Prerequisite:	Harpsichord Pedagogy MA 3302 Applied Composition VI	2 Credits
Analysis of stylistic ar towards ancient musi novation in performa	nd musical aspects of harpsichord music by the educational c and to historical informed practice. Most important composince technique, especially compared with other keyboard inst understand and learn harmony.	point of view. Correct approach sers, their treatises and their in-
MC 4712 Prerequisite:	Guitar Pedagogy MA 3302 Applied Composition VI	2 Credits
	porary materials and techniques. Survey of guitar pedagogy.	
MC 4713 Prerequisite:	Lute Pedagogy MA 3302 Applied Composition VI	2 Credits
	porary materials and techniques. Survey of Lute pedagogy.	
MC 4714 Prerequisite:	Vocal Pedagogy MA 3302 Applied Composition VI	2 Credits
Foundation areas of p	bedagogy in voice, addressing the nature of sound, posture, br sification, resonation, articulation, the speaking voice and coordination	eathing and support, phonation,
MC 4715 Prerequisite:	String Pedagogy MA 3302 Applied Composition VI	2 Credits
	cerning appropriate teaching method, teaching strategy, tech	

Basic information concerning appropriate teaching method, teaching strategy, technique development, physiology, performance practice, repertoire and instructional materials for string instrument. History and evolution of string instrument.

MC 4716 Prerequisite:	Percussion Pedagogy MA 3302 Applied Composition VI	2 Credits
Basic information concernin	ng appropriate teaching method, teaching strategy, technique rtoire and instructional materials for percussion instrument	
MC 4717 Prerequisite:	Woodwind Pedagogy MA 3302 Applied Composition VI	2 Credits
Basic information concernin	ng appropriate teaching method, teaching strategy, technique rtoire and instructional materials for woodwind instrument	
MC 4718 Prerequisite:	Brass Pedagogy MA 3302 Applied Composition VI	2 Credits
Basic information concernin	ng appropriate teaching method, teaching strategy, technique rtoire and instructional materials for brass instrument. Histo	
MCE 2101 Prerequisite:	Fundamentals of Mechatronics Engineering BG 1213 Physics II	3 credits
evolution, evolution of eng ion; modern technologies PLC) as a controller for M and Embedded Intelligence MCE 2102	Mechatronics Engineering Laboratory I	simple subsystem integra
evolution, evolution of eng ion; modern technologies PLC) as a controller for M and Embedded Intelligence MCE 2102 Prerequisite or Co-requisite: Experiments covering basic nable Logic Controllers is	ineering design, using of sensors in the system, case studies: , control, sensors, power supplies and controlled drives, Pre Aechatronics system, The need for a systems approach to Er or PLC. Mechatronics Engineering Laboratory I	: simple subsystem integra ogrammable Logic Contro ngineering Design, Contro 1 credit c and ultra sonic. Program
evolution, evolution of eng ion; modern technologies PLC) as a controller for M and Embedded Intelligence MCE 2102 Prerequisite or Co-requisite: Experiments covering basic nable Logic Controllers is Diagram (FBD) and Sequenti MCE 4101 Prerequisite:	ineering design, using of sensors in the system, case studies: , control, sensors, power supplies and controlled drives, Pre Aechatronics system, The need for a systems approach to Er or PLC. Mechatronics Engineering Laboratory I MCE 2101 Fundamentals of Mechatronics Engineering sensors such as inductive, capacitive, magnetic, photoelectric introduced and experimental covering Ladder (LD), Structure al Flow Chart (SFC) languages. Introduction to Robotics ME 3120 Mechanics of Machinery	: simple subsystem integra ogrammable Logic Contro ngineering Design, Contro 1 credit c and ultra sonic. Program
evolution, evolution of eng ion; modern technologies PLC) as a controller for M and Embedded Intelligence MCE 2102 Prerequisite or Co-requisite: Experiments covering basic mable Logic Controllers is Diagram (FBD) and Sequenti MCE 4101 Prerequisite: mntroduction to Robotic sy	ineering design, using of sensors in the system, case studies: , control, sensors, power supplies and controlled drives, Pre Aechatronics system, The need for a systems approach to Er or PLC. Mechatronics Engineering Laboratory I MCE 2101 Fundamentals of Mechatronics Engineering sensors such as inductive, capacitive, magnetic, photoelectric introduced and experimental covering Ladder (LD), Structure al Flow Chart (SFC) languages. Introduction to Robotics	: simple subsystem integra ogrammable Logic Contro ingineering Design, Contro 1 credit c and ultra sonic. Program e Text (ST), Function Bloc 3 Credits
evolution, evolution of eng ion; modern technologies PLC) as a controller for M and Embedded Intelligence Prerequisite or Co-requisite: Experiments covering basic mable Logic Controllers is Diagram (FBD) and Sequenti MCE 4101 Prerequisite: mtroduction to Robotic sy ion, Position and force control MCE 4102	ineering design, using of sensors in the system, case studies: , control, sensors, power supplies and controlled drives, Pre Aechatronics system, The need for a systems approach to Ei or PLC. Mechatronics Engineering Laboratory I MCE 2101 Fundamentals of Mechatronics Engineering sensors such as inductive, capacitive, magnetic, photoelectric introduced and experimental covering Ladder (LD), Structure al Flow Chart (SFC) languages. Introduction to Robotics ME 3120 Mechanics of Machinery stems, spatial descriptions, Kinematics, Jacobians, Robot dy	: simple subsystem integra ogrammable Logic Contro ingineering Design, Contro 1 credit c and ultra sonic. Program e Text (ST), Function Bloc 3 Credits
evolution, evolution of eng ion; modern technologies PLC) as a controller for M and Embedded Intelligence MCE 2102 Prerequisite or Co-requisite: Experiments covering basic mable Logic Controllers is Diagram (FBD) and Sequenti MCE 4101 Prerequisite: Introduction to Robotic sy ion, Position and force control MCE 4102 Prerequisite: PLC; instrumentation, sens	ineering design, using of sensors in the system, case studies: , control, sensors, power supplies and controlled drives, Pro- Aechatronics system, The need for a systems approach to Ei- or PLC. Mechatronics Engineering Laboratory I MCE 2101 Fundamentals of Mechatronics Engineering 	: simple subsystem integra ogrammable Logic Contro ingineering Design, Contro 1 credit c and ultra sonic. Program e Text (ST), Function Bloc 3 Credits mamics, Trajectory genera 3 Credits
evolution, evolution of eng ion; modern technologies PLC) as a controller for M and Embedded Intelligence MCE 2102 Prerequisite or Co-requisite: Experiments covering basic mable Logic Controllers is Diagram (FBD) and Sequenti MCE 4101 Prerequisite: Introduction to Robotic sy ion, Position and force control MCE 4102 Prerequisite: PLC; instrumentation, sens control system. MCE 4103 Prerequisite or Co-requisite:	ineering design, using of sensors in the system, case studies: , control, sensors, power supplies and controlled drives, Pro Aechatronics system, The need for a systems approach to E or PLC. Mechatronics Engineering Laboratory I MCE 2101 Fundamentals of Mechatronics Engineering sensors such as inductive, capacitive, magnetic, photoelectric introduced and experimental covering Ladder (LD), Structure al Flow Chart (SFC) languages. Introduction to Robotics ME 3120 Mechanics of Machinery vstems, spatial descriptions, Kinematics, Jacobians, Robot dy rol, Image processing and analysis. Introduction to Industrial Automation CE 2704 Digital Logic Design ors and actuators in manufacturing automation; signal cor Mechatronics Engineering Laboratory II MCE 4102 Introduction to Industrial Automation	: simple subsystem integra ogrammable Logic Contro ingineering Design, Contro 1 credit c and ultra sonic. Program e Text (ST), Function Bloc 3 Credits mamics, Trajectory genera 3 Credits
evolution, evolution of eng ion; modern technologies PLC) as a controller for M and Embedded Intelligence Prerequisite or Co-requisite: Experiments covering basic mable Logic Controllers is Diagram (FBD) and Sequenti MCE 4101 Prerequisite: mtroduction to Robotic sy ion, Position and force control MCE 4102 Prerequisite: PLC; instrumentation, sens control system. MCE 4103 Prerequisite or Co-requisite: Experiments covering mode	ineering design, using of sensors in the system, case studies: , control, sensors, power supplies and controlled drives, Pro Mechatronics system, The need for a systems approach to Ei or PLC. Mechatronics Engineering Laboratory I MCE 2101 Fundamentals of Mechatronics Engineering sensors such as inductive, capacitive, magnetic, photoelectric introduced and experimental covering Ladder (LD), Structure al Flow Chart (SFC) languages. Introduction to Robotics ME 3120 Mechanics of Machinery ystems, spatial descriptions, Kinematics, Jacobians, Robot dy rol, Image processing and analysis. Introduction to Industrial Automation CE 2704 Digital Logic Design ors and actuators in manufacturing automation; signal cor Mechatronics Engineering Laboratory II MCE 4102 Introduction to Industrial Automation ular Mechatronics system (mMs). In these stations, PLC is used s and actuators. Control methods: On-Off, Three-modes, P, PI,	: simple subsystem integra ogrammable Logic Contro ingineering Design, Contro 1 credit c and ultra sonic. Program e Text (ST), Function Bloc 3 Credits mamics, Trajectory genera 3 Credits nditioning; computer-based 1 Credit d to control the sequentia

MCE 4901 Prerequisite:	Mechatronics Engineering Project I Senior Standing	1 Credit
	nt in mechatronics engineering. Students must be submit reports at t	
MCE 4902	Mechatronics Engineering Project II	2 Credits
Prerequisite:	MCE 4901 Mechatronics Engineering Project I	
	done in mechatronics Engineering Project I. Report is also required at	the end of the semester.
MCE 4903	Advanced topics in Mechatronics Engineering	3 Credits
	e field of Mechatronics Engineering	
MCE 4904	Special Problems in Mechatronics Engineering	3 Credits
	est in the field of Mechatronics Engineering	
ME 1112	Engineering Laboratory	2 credits
Simple machine tools	, electrical wiring and transformer winding, practice of basic ele vices assembly with circuits diagrams. A full report of each job is requ	ctrical measuring instruments
ME 1113	Engineering Drawing	3 credits
Lettering, orthograph	ic projection, orthographic drawing and pictorial drawings, dimer and development; freehand sketches, detail and assembly dra	nsioning and tolerancing, sec-
ME 2211 Prerequisite:	Engineering Mechanics I BG 1211 Physics I	3 credits
	, 	
	ant, equilibrium, fluid statics, kinematics and kinetics of particle work and energy, impulse and momentum.	es and rigid bodies, Newton's
ME 2220	Engineering Mechanics II	3 credits
Prerequisite:	ME 2211 Engineering Mechanics I	
Structure Analysis; Pri	nciple of virtual work; Stability; Kinematics of Rigid Body; Plane r rgy and Momentum method); Mechanical vibrations	motion of rigid bodies (Forces
ME 3110	Mechanics of Materials	3 Credits
Prerequisite:	ME 2121 Engineering Dynamics	
or	ME 2220 Engineering Mechanics II	
Forces and stresses;	stresses and strains relationship; stresses in beams, shear force eams, torsion; buckling of columns; Mohr's circle and combined stres	e and bending moment dia-
ME 3120	Mechanics of Machinery	3 Credits
Prerequisite:	ME 2121 Engineering Dynamics	
or	ME 2220 Engineering Mechanics II	
Velocity and accelera	tion analysis; kinematics and dynamics force analysis of mech systems; balancing of rotating and reciprocating mass.	
ME 3310	Thermofluids	3 Credits
Prerequisites:	BG 1205 Calculus II	
	BG 1213 Physics II	
Workdone, energy, po properties of fluids, si	ower, unit, system, state, and field processes, compressible flows tate equation, first law of thermodynamics, non-flow systems, ene nomentum equation, ideal flow.	s, mass conservation systems

ME 3311 Prerequisite: or	Pneumatic and Hydraulic Systems ME 2121 Engineering Dynamics ME 2220 Engineering Mechanics II	3 Credits
Fundamentals of Fluid conservation of energ	d Mechanics, fluid properties, Pascal's law, flow governing equ y or Bernoulli's equation, Torricelli's equation), basic flow in pipe sign and analysis, pneumatic systems, compressors, receivers, valves,	es, pumps, pipe design and
ME 3312 Prerequisite or Co-requi	Pneumatic and Hydraulic Systems Laboratory isite: ME 3311 Pneumatic and Hydraulic Systems	1 Credit
	done according to ME 3311 Pneumatic and Hydraulic Systems.	
ME 4010 Prerequisite:	Machine Analysis and Design ME 1113 Engineering Drawing ME 3120 Mechanics of Machinery	3 Credits
undamental of mecha	anical design; properties of materials, theories of failure; design c keys and pins, shafts, springs, power screws, coupling etc.; design proj	
AE 4310 Prerequisite: pr	Mechanical Vibration ME 2121 Engineering Dynamics ME 2220 Engineering Mechanics II	3 Credits
system with one deg	ree of freedom; torsional vibration, free and forced vibration, mo degrees of freedom; methods and techniques to reduce and control v	
ЛЕ 4410 Prerequisite:	Thermodynamics BG 1213 Physics II BG 1108 General Chemistry	3 Credits
	namics; Second law of Thermo dynamics and Carnot cycle, energ on.	y: entropy; basic heat trans-
ME 4411 Prerequisite:	Heat Transfer ME 4410 Thermodynamics	3 Credits
	er, thermal conductivity; heat conduction equation, steady- state ly- state heat conduction, radiation, fundamentals of convection heat	
AE 4412 Prerequisite:	Internal Combustion Engines ME 4410 Thermodynamics	3 Credits
	ngine fundamentals, spark-ignition and compression-ignition eng uel air cycle, supercharging and scavenging, performance and testing	
/IGT 1101	Introduction to Business	3 Credits
abulary, business and	to business, philosophy, objectives and responsibility of busine its environment emphasizing fundamental principles of organizativities concerning personnel, accounting, marketing, production and	tion, legal forms of business
NGT 2404	Managerial Psychology	3 Credits
Concepts and scope o anguage symbol, pero ind status, personality	f social psychology, basic psychological factors and how they relaception, memory, emotion, social attitudes, persuasion, social and a plication of these fan creation of morale, motivation of workers, and solutions of business	d cultural environment, role ctors in the human relation
MGT 2900 Prerequisite:	Principles of Management MGT 1101 Introduction to Business	3 Credits
Principles of managem	ient: planning, organizing, leading and controlling, theory of mana	agement as applied to mod

Principles of management: planning, organizing, leading and controlling, theory of management as applied to modern corporate structure, management policies, departmentalization, centralization and decentralization, line and staff functions, and human resources management.

MGT 3801 Prerequisite:	Modern Office Management MGT 2900 Principles of Management	3 Credits
Different phases of of	ffice management, application of modern concepts of office fice work, office layout, office personal, planning and control htrol.	management organization, opera-
MGT 3901 Prerequisite:	Organization Theory MGT 2900 Principles of Management	3 Credits
Theories, practice and sibility, formal and int	l problems of organization and its environment, function and formal organization and social system, organizational behavion nging of corporate structure.	structure of authority and respon-
MGT 3903 Prerequisite:	Leadership MGT 2900 Principles of Management	3 Credits
Types of leaderships	and recognition of the problems faced by leaders in various is subordinate, exploration of theories of worker motivation leaders.	work situations, role of the first-
MGT 3905 Prerequisite:	Operations Management MGT 2900 Principles of Management	3 Credits
Fundamentals of indu	istrial management from the point of view of organization str tandardization, plant location and layout, materials handling	ucture, product, product develop-
	peration of production and control.	
tenance, and overall or MGT 3907	Business Communication	3 Credits
tenance, and overall op MGT 3907 Prerequisite:	Business Communication	
tenance, and overall of MGT 3907 Prerequisite: Patterns of communic essays and reporting, ing and listening teo	Business Communication BG 2001 English IV	ness professional, business letters, tising and public relations, read-
tenance, and overall of MGT 3907 Prerequisite: Patterns of communic essays and reporting, ing and listening teo	Business Communication BG 2001 English IV cation in business in both theories and practices of the busi , memoranda, conversation interviewing, presentation adver chniques, electronic mail, videoconferencing, decision suppo	ness professional, business letters, tising and public relations, read-
tenance, and overall of MGT 3907 Prerequisite: Patterns of communic essays and reporting, ing and listening teo systems, group schedu MGT 3915 Prerequisite: Project planning proc tion of resources, pro procedures in accomp	Business Communication BG 2001 English IV cation in business in both theories and practices of the busi , memoranda, conversation interviewing, presentation adver chniques, electronic mail, videoconferencing, decision support ling systems, and Internet-based communications Project Management	ness professional, business letters, tising and public relations, read- brt systems, collaborative writing 3 Credits  es, setting of work system, alloca- ement techniques and operation
tenance, and overall of MGT 3907 Prerequisite: Patterns of communic essays and reporting, ing and listening teo systems, group schedu MGT 3915 Prerequisite: Project planning proc tion of resources, pri- procedures in accomp of project. MGT 3917 Prerequisite:	Business Communication BG 2001 English IV cation in business in both theories and practices of the busi , memoranda, conversation interviewing, presentation adver chniques, electronic mail, videoconferencing, decision support ling systems, and Internet-based communications Project Management MGT 3905 Operation Management edure by considering factors in determining project objective oject feasibility analysis, matrix model organization, manag plishing goal such as implementation, communication, coordi Innovation and Change Management MGT 2900 Principles of Management	ness professional, business letters, tising and public relations, read- brt systems, collaborative writing 3 Credits  es, setting of work system, alloca- ement techniques and operation nation, controlling and evaluation 3 Credits
tenance, and overall of MGT 3907 Prerequisite: Patterns of communic essays and reporting, ing and listening tec systems, group schedu MGT 3915 Prerequisite: Project planning proc tion of resources, pro procedures in accomp of project. MGT 3917 Prerequisite: Concepts of innovation an	Business Communication BG 2001 English IV cation in business in both theories and practices of the busi , memoranda, conversation interviewing, presentation adver chniques, electronic mail, videoconferencing, decision support ling systems, and Internet-based communications Project Management MGT 3905 Operation Management edure by considering factors in determining project objective oject feasibility analysis, matrix model organization, manag olishing goal such as implementation, communication, coordi	hess professional, business letters, tising and public relations, read- bort systems, collaborative writing 3 Credits  es, setting of work system, alloca- ement techniques and operation hation, controlling and evaluation 3 Credits  t process with external linkages,
tenance, and overall of MGT 3907 Prerequisite: Patterns of communic essays and reporting, ing and listening tec systems, group schedu MGT 3915 Prerequisite: Project planning proc tion of resources, pro procedures in accomp of project. MGT 3917 Prerequisite: Concepts of innovati	Business Communication BG 2001 English IV cation in business in both theories and practices of the busi , memoranda, conversation interviewing, presentation adver chniques, electronic mail, videoconferencing, decision support ling systems, and Internet-based communications Project Management MGT 3905 Operation Management redure by considering factors in determining project objective oject feasibility analysis, matrix model organization, manage blishing goal such as implementation, communication, coordi Innovation and Change Management MGT 2900 Principles of Management on and change management, innovation as a management	hess professional, business letters, tising and public relations, read- bort systems, collaborative writing 3 Credits  es, setting of work system, alloca- ement techniques and operation hation, controlling and evaluation 3 Credits  t process with external linkages,
tenance, and overall of MGT 3907 Prerequisite: Patterns of communic essays and reporting, ing and listening teo systems, group schedu MGT 3915 Prerequisite: Project planning proc tion of resources, pro procedures in accomp of project. MGT 3917 Prerequisite: Concepts of innovation role of innovation an innovation. MGT 3918 Prerequisite: Operation of professi zational structures fou	Business Communication BG 2001 English IV cation in business in both theories and practices of the busi , memoranda, conversation interviewing, presentation adver chniques, electronic mail, videoconferencing, decision support ling systems, and Internet-based communications Project Management MGT 3905 Operation Management redure by considering factors in determining project objective oject feasibility analysis, matrix model organization, manage olishing goal such as implementation, communication, coordi Innovation and Change Management MGT 2900 Principles of Management on and change management, innovation as a management d how to manage innovation within firms, new product and Sport Management	hess professional, business letters, tising and public relations, read- bort systems, collaborative writing 3 Credits  as, setting of work system, alloca- ement techniques and operation nation, controlling and evaluation 3 Credits  t process with external linkages, services development as part of 3 Credits  ns and enterprises, basic organi-
tenance, and overall of MGT 3907 Prerequisite: Patterns of communic essays and reporting, ing and listening teo systems, group schedu MGT 3915 Prerequisite: Project planning proc tion of resources, pro- procedures in accomp of project. MGT 3917 Prerequisite: Concepts of innovation role of innovation an- innovation. MGT 3918 Prerequisite: Operation of professi zational structures fou	Business Communication BG 2001 English IV cation in business in both theories and practices of the busi , memoranda, conversation interviewing, presentation adver chniques, electronic mail, videoconferencing, decision support ling systems, and Internet-based communications Project Management MGT 3905 Operation Management redure by considering factors in determining project objective oject feasibility analysis, matrix model organization, manago blishing goal such as implementation, communication, coordi Innovation and Change Management MGT 2900 Principles of Management d how to manage innovation within firms, new product and Sport Management MGT 2900 Principles of Management on and change management, innovation as a management d how to manage innovation within firms, new product and Sport Management MGT 2900 Principles of Management	hess professional, business letters, tising and public relations, read- bort systems, collaborative writing 3 Credits  as, setting of work system, alloca- ement techniques and operation nation, controlling and evaluation 3 Credits  t process with external linkages, services development as part of 3 Credits  ns and enterprises, basic organi-

MGT 3923 Prerequisite:	Strategic Human Resources Management MGT 2900 Principles of Management	3 Credits
Phases of human reso er, health and safety p	burce management functions including selection, training, compensation rovisions, morale building, job stabilization, d disciplinary actions, and human relations aspect of dealing with perso	
AGT 3924 Prerequisite:	Human Resources Development MGT 3923 Strategic Human Resources Management	3 Credits
Principles of training	and development of personnel; types, methods, and contents of t ;, evaluation of training program, behavioral changes, and training fo	
MGT 3928 Prerequisite:	Management for Growth and Sustainability MGT 2900 Principles of Management	3 Credits
Concepts of sustainal	ole value to create business sustainability through investment stra ustainable development and sustainability principles which are use sformation.	
MGT 3940 Prerequisite:	Business Research Methodology BG 2200 Statistics II BIS 3340 Computer Tools in Research	3 Credits
earch, choosing a p	ethods for business decision-making and problem-solving with e roblem and scope for research in business administration, plannin and techniques in data collection, design of research project, proce priate report format Organizational Behavior MGT 2900 Principles of Management	g and organizing research
elements of individua	MGT 2404 Managerial Psychology Is and group behaviors in organization for improving effective con coordination, dynamics of change, leadership, and stress management.	nmunications, conflict man
AGT 3945 Prerequisite:	Managerial Decision Modeling BG 2200 Statistics II	3 Credits
	titative analysis modeling to decision-making in a complex and dyn iciency and effectiveness, managerial decision problems in mana	
MGT 4501 Prerequisite:	Wealth Management FIN 3701 Corporate Finance	3 Credits
Management of perso efficient wealth manag	onal investment, financial planning, portfolio management, and pro lement.	perty and tax planning fo
MGT 4806 Prerequisite:	Management Internship (240 Hours) Management Major: Concentration Entrepreneurial Managem	3 Credits
Student will be assign	ed to work in organization in the area of management related proje Ilty provides oversight of individual field experience with classroom del	
MGT 4909 Prerequisite:	Communication in Management MGT2900 Principles of Management	3 Credits
Application of the ge munication problems such problems relatic making, authority, res	neral communication concept to business management system by s affecting the management process and effectiveness, including inship between communication system and other management ing ponsibility, delegation, operation of organization, cooperation, coor g planning and controlling of communication systems for an optima	approaches to solution or gredients such as decision- dination and conflicts with

agement of organization.

MGT 4910 Prerequisite:	Productivity and Quality Management MGT 3905 Operations Management	3 Credits
Philosophy, principles	and practices of productivity and quality management, concepts, to roductivity and quality Circle, TQM, ISO, Benchmarking a	
MGT 4911 Prerequisite:	Seminar in Management Senior standing	3 Credits
Application and Integr	ration of knowledge and theories from various management levels: h nanagement and research through case studies, seminars and guest lectu	-
MGT 4912 Prerequisite:	Individual Research Senior Standing (Management Major)	3 Credits
Developing in students selected industry in Th	s the ability to apply a theoretical concept to the real world problems hailand. Any specific area of concentration will be chosen by the stude y members of Management Department. A typewritten report must be su	nt upon agreement with
MGT 4914 Prerequisites:	Entrepreneurship MKT 2280 Principles of Marketing FIN 3701 Corporate Finance MGT 3940 Business Research Methodology MGT 3905 Operations Management Senior standing 112 credits (for marketing students)	3 Credits
Principles, theories an	d practical aspects of entrepreneurship, pre-start-up, start-up and ea lan and making existing enterprises profitable	rly growth of new ven-
MGT 4916 Prerequisites:	Negotiation Strategy MGT 2404 Managerial Psychology MGT 2900 Principles of Management	3 Credits
Principles and practice marketing and financi	of domestic and international negotiations, for example in the fields of al negotiations, impact of verbal and non-verbal communications up in managing conflict resolutions within organization, the way to man bargainer.	oon negotiating process,
MGT 4926 Prerequisite:	Compensation and Performance Management MGT 3923 Strategic Human Resources Management	3 Credits
Concepts of compensa ment process which inc	ation management within the wider context of human resource manage cludes pay survey, job evaluation, and , problems related to performance management system and suggestions	
MGT 4927 Prerequisite:	Human Resources Planning MGT 3923 Strategic Human Resources Management	3 Credits
Human resources func zational goals.	tions, evaluation and identification of human resources requirements	for meeting organi-
MGT 4928 Prerequisite:	Employment Relations and Labor Law MGT 3923 Strategic Human Resources Management	3 Credits
Labor relations and co	ollective bargaining which covers both union and management, legal on, employer role, union organizing, bargaining issues, negotiation sector labor relations.	
MGT 4943 Prerequisite:	Organizational Development MGT 3923 Strategic Human Resources Management	3 Credits
	ng organizations, determining the direction for organization developm	nent, stages of organiza-

Concepts for developing organizations, determining the direction for organization development, stages of organization development work, strategies and tactics of organization, development.

Prerequisites:	Cooperative Education (720 Hours) Completion of 109 credits	9 Credits
	Cumulative GPA at least 2:00 Approval of the cooperative education director and CE advise	or
Each student is require (approximately 4 mon completion of the 4- n	ed to show proof of work as a temporary employee with a private ths). The selected company must be approved by the cooperative nonth internship, students are required to submit a report on the o a seminar for report presentation and discussion.	e education center. After th
MGT 4946 Prerequisite:	Human Resources Management Internship (240 Hours) Management Major: Concentration: Strategic Human Resour	3 Credits ces Management
Student will be assigned	ed to work in organization in the area of human resource manage Ity supervisor. Faculty provides oversight of individual field experie	
MGT 4951 Prerequisite:	Strategic Management FIN 3701 Corporate Finance and senior standing	3 Credits
Integration of the stu- and business decision	dent's background, experiences, and previous core business curri simulation exercises; development of an effective conceptual a rategies, and decision-making; diagnosis, analysis, and solution o	approach to integrating ad
MKT 2280 Prerequisite:	Principles of Marketing MGT 1101 Introduction to Business	3 Credits
Principles and problem	s involved in transfer of goods and services from producer to consum- otives, basic product, distribution, price, promotion mix strategies, a	
MKT 3102 Prerequisite:	Integrated Marketing Communications MKT 2280 Principles of Marketing	3 Credits
Strategic use of variou personal selling, event promotional tools, buc	us marketing communication elements including advertising, sales sponsorships and direct marketing to build and maintain brand ed dgeting and allocation decisions, determining appropriate message product/market, ethical principles in marketing communications, tional mix.	quity, selection of alternative strategy, developing med
MKT 3515 Prerequisite:	Purchasing and Supply Chain Management MKT 2280 Principles of Marketing	3 credits
tion of purchasing de	f negotiation in procurement, participation and relationship of func- partment, preparation, conduct and recording of negotiations, ar rofit, investment and risk, cost principles, techniques of negotiation	nalysis of sources of suppl
MKT 3525 Prerequisite:	Sales Management MKT 2280 Principles of Marketing	3 Credits
Management of perso departments of the bu	onal selling process in marketing, types of sales organizations an usiness, place of sales research and planning in marketing, selectio ancing hiring, training, compensating and supervising of salesman.	
	Consumer Behavior	3 Credits

MKT 3620 Prerequisite:	Global Marketing MKT 2280 Principles of Marketing	3 Credits
Principles and operat	ions of international and global marketing concepts, in	ternational marketing environment, trade

promotion activities of government and private agencies, environmental aspects of international market, financial features and instruments, marketing structure of international trade, terms of trade and credit, international marketing position, foreign market survey, segmentation, targeting and positioning, global market entry strategies, strategic elements of competitive advantage, global marketing mix including product decisions, pricing, channels of distribution, and global marketing communication mixes.

MKT 3627	Sales Promotion	3 credits
Prerequisite:	MKT 2280 Principles of Marketing	

Principles and practices in guiding management in making the key decisions necessary in sales promotion program selection of the proper sales appeals, sales promotion directed towards company's sales staff, middlemen and ultimate consumers, planning and evaluation of promotional activities, including the merchandising functions.

MKT 3628	Public Relations	3 credits
Prerequisite:	MKT 2280 Principles of Marketing	

Public relations process and job skills of public relations professionals, role of public relations organizations and role of public relations in organizations, promotional campaigns in which public relations plays a key element, techniques and tools used in the field of public relations.

MKT 3629	Pricing Strategy and Decision	3 credits
Prerequisite:	MKT 2280 Principles of Marketing	

Strategic pricing concept, cost structure, market-based pricing for profit, pricing influence on purchase decision, role of value in pricing, price sensitivity analysis, price elasticity, competitive pricing, proactive pricing, initial launch of integration of elements in profitable pricing, pricing for new products and different pricing schemes by segments, product-line pricing, pricing as a promotional tool, pricing to leverage competitive advantages, pricing psychology, and pricing ethics.

MKT 3803	Retail Management	3 credits
Prerequisite:	MKT 2280 Principles of Marketing	

Principles and practices of small business in the area of retail operations, planning, operations and control in various retailing institutions, retailing opportunities and careers with major emphasis on the need to adopt decisions on store location, layout, building, fixtures, equipment and merchandise management, buying, handing, control and pricing, store promotion and customer services.

MKT 3804	Fashion Marketing	3 Credits
Prerequisite:	MKT 2280 Principles of Marketing	

Foundation of marketing, its techniques and activities in the fashion industry, fashion marketing environment, fashion marketing mix, branding, visual merchandising, how to develop, analyze and implement brand strategies, buying and merchandising practices, how to plan and execute effective advertising and promotional strategies including public relations and event planning related to fashion products.

MKT 3823	Marketing Channel Strategy and Decisions	3 credits
Prerequisite:	MKT 2280 Principles of Marketing	

Distribution strategies, structure, functions, types, and operating problems of various institutions in the chain of distribution of different types of products and industries, segmentation for marketing channel design, channel strategy formulation and implementation, scope of distribution strategies including distribution intensity and vertical constraints, and strategic alliances in distribution.

MKT 3830	Direct Marketing	3 credits
Prerequisite:	MKT 2280 Principles of Marketing	

Methods of direct marketing to consumers and businesses without using conventional retailers or sales forces, use of direct marketing techniques to enhance traditional marketing methods, scope of direct marketing, strategic planning, planning and positioning database management, direct mail, telemarketing, catalogs, direct response advertising, and marketing applications and concepts.

MKT 3836	Merchandising and Promotion	3 Credits
Prerequisites:	MKT 2280 Principles of Marketing	
	MKT 3803 Retail Management	
	(For students who select plan A: Retail Entrepreneurship)	

Duties and problems of store buyer, merchandise manager, demand forecasting, sources of buying information, buying policies and practices, selection and evaluation of resources, inventory planning and control, promotion strategies and tools used by retailers to achieve a multitude of objectives such as building store image, generating store traffic and immediate purchases, broad array of tools from the use of local advertising in broadcast and print media to in-store displays and product/visual merchandising.

MKT 3837	Service and Customer Relationship Management	3 Credits
Prerequisite:	MKT 2280 Principles of Marketing	

Service operations and all aspects of interaction a company has with its customers, including prospecting sales and service, identifying, acquiring, and retaining customers by enabling organizations to manage and coordinate customer interactions across multiple channels, departments, lines of business and geographies, how organizations use customers' database to maximize value of every customer interaction and drive superior performance.

MKT 3838	Event Marketing	3 Credits
Prerequisite:	MKT 2280 Principles of Marketing	

Comprehensive coverage of events and sponsorship strategies, basic principles of motivation for participants and spectators, application of broad principles underlying why consumers attend events in a variety of context and situations, basic marketing, target marketing and segmentation, sponsorship, event marketing, promotions, sponsorship proposals, and implementation of marketing plans. Students will develop a customized sponsorship proposal on behalf of a designated event organization and selling techniques, and then deliver a sales presentation.

MKT 3840	Digital Marketing	3 Credits
Prerequisite:	MKT 2280 Principles of Marketing	

Overview of practical marketing and communication applications for digital communication channels, especially the Internet and hi-technology devices, strategy and implementation of various digital formats to enhance the marketing of goods and services such as social media marketing, digital media, mobile, website, social networking, and search engine marketing with focus on evolving behavior of digital consumer and new digital opportunities, how to plan, buy, track, report and evaluate each digital marketing tool/device to solve current marketing problems, digital marketing terminology and metrics such as page view, unique visitor, dwelling time, and pay-per-performance.

MKT 4725	Competitive Analysis and Strategy	3 Credits
Prerequisite:	MKT 2280 Principles of Marketing and Completion of at least 90 credits	
	atitica anticompany officient module functionics, industry and size	

Analytical concepts in competitive environment, efficient market functioning, industry analysis, strategic groups in industry and global competition, analysis of competitive advantage, vertical linkages, corporate diversification, competitive strategic alliances, rivalry using product positioning, competitive pricing, research and development in competitive environment

NKT 4726	Advertising and Creative Strategy	3 Credits
Prerequisite:	MKT 3102 Integrated Marketing Communications	

Role of creative strategy in advertising and other promotional mix, examination and systematic development of creative brief or copy platform as a means of designing message strategies that evoke consistent value and identity, creative content and creative process beginning with market analysis and target market selection to brand attributes and value propositions to creative execution with emphasis on execution of the "big idea".

MKT 4727	Integrated Media Planning	3 Credits
Prerequisites:	MKT 3102 Integrated Marketing Communications	
	MKT 4726 Advertising and Creative Strategy	

Nature of media, media business and media industry, roles of and relationships among media planners, buyers and sellers, characteristics of traditional, nontraditional and interactive media, general procedures in media planning, basic and advanced measurements in media analysis, evaluation and selection of media vehicles, strategic media plan (i.e. target audience selection, objective specification, media and vehicle selection, media buying), setting and allocating media budget, and media testing.

MKT 4730 Prerequisites:	Marketing Management MKT 2280 Principles of Marketing MGT 2900 Principles of Management Senior standing (106 credits)	3 Credits	MKT 4811 Prerequisites:	Seminar in Marketing MKT 2280 Principles of Marketing MKT 4730 Marketing Management (for Marketing students) Completion of at least 90 credits	3 Credits
planning for new prod	rketing management, need of marketing and product plannin ducts to replace existing products, planning for new marketin iques of market survey, its objectives and limitations, mana	g techniques including pricing and	5 1	nce in all areas of marketing to play on the problems encountered l isiness field, research, and others.	by case study analysis,
	with all other aspects of marketing, development of policy		MKT 4812	Individual Research	3 Credits
product lines, and cont	rol of marketing operation.		Prerequisites:	MKT 3530 Consumer Behavior	
				MGT 3940 Business Research Methodology	
MKT 4805 Prerequisite:	Business-to-Business Marketing MKT 2280 Principles of Marketing	3 Credits		MKT 4855 Research in Marketing Senior standing and Chairperson's approval	
nd semi-fabricated m lemand and product	of manufacturers and distributors of industrial goods such a naterials, industrial supplies and component parts, industria characteristics, product and service definitions, market ident erformance, pricing, promotion and public relations, industri	I marketing system and concepts, tification, evaluation and measure-		ical concepts to real world problems of any organization in a selected in ntration will be chosen by the student upon agreement with an instru rketing Department.	
performance standards	s and instruments of control.	an channel strategy and logistics,	MKT 4826	Contemporary Logistics	3 Credits
performance standards			Prerequisite:	MKT 2280 Principles of Marketing	5 creats
1KT 4806	Product and Brand Management	3 Credits		· · · · · ·	
branding used in deve	MKT 2280 Principles of Marketing s concerning process of new product development including eloping product lines, pricing, distribution decisions in keeping duct line management, environment factors that have imp	g up-to-date to both industrial and	elements, inventory a today's dynamic glob	lication of analytical tools useful in logistics, analysis of characterist nd warehouse management systems, modes of transportation, funda al landscape, value-added applications of logistics decision-making to ing and competitive advantages in the supply chain of a company.	mentals of logistics in
strategies.			MKT 4829	Marketing Decision Making	3 credits
			Prerequisite:	MKT 2280 Principles of Marketing	
MKT 4807 Prerequisite:	Agricultural Marketing MKT 2280 Principles of Marketing	3 Credits		Senior standing (112 credits)	
factors of agricultural government and privat MKT 4808 Prerequisite:	markets, grading, storing and transporting products, pror te agencies. Advanced Marketing Presentation MKT 2280 Principles of Marketing	notional activities and policies of 3 Credits	MKT 4845 Prerequisites:	IMC Research MKT 3102 Integrated Marketing Communications MKT 3530 Consumer Behavior MGT 3940 Business Research Methodology	3 Credits
	Senior standing over 90 credits				
informal presentations	on and presentation of selling, marketing planning, struct s for productive outcomes, essential elements of good co to put these principles into practice in an interactive sessior ofessional manner.	mmunication and presentation in	munications research	g marketing and communications research and presenting research fin topics such as media effects research, advertising effectiveness re- h and concept testing, research approaches such as qualitative rese sperimental research.	search, audience and
			MKT 4848	Contemporary Issues in Marketing	3 Credits
MKT 4809 Prerequisite:	Marketing for Services MKT 2280 Principles of Marketing	3 Credits	Prerequisite:	MKT 2280 Principles of Marketing Completion of at least 90 credits	
	Senior standing over 90 credits		Current issues in mar	keting such as regional marketing strategies, viral marketing, ethical is:	ues in marketing and
	stics of market and consumer behavior for various services, t of institutions involved in selling services such as financial			ate sustainability for business, recent marketing news in different sectors.	des in marketing, and
panies, transportation and marketing for servi	firms, hotels and various travel industry agencies, comparisities.	son between marketing for goods	MKT 4849 Prerequisites:	IMC Campaign Planning MKT 4726 Advertising and Creative Strategy	3 Credits
MKT 4810	Export-Import Management	3 Credits		MKT 4727 Integrated Media Planning Senior standing (106 credits)	
practices and docum export-import premiur ment, carrier selection	MKT 3620 Global Marketing tes of international marketing management, foreign market tent preparation, customs clearances and forwarding prac ms, landed cost calculation methods, commodity classification decision making, management and organization of freight communication for foreign products, management and organ	tices, customs tariffs, duties and on system of the Customs depart- forwarding and customs clearance	in the formulation of	and practical application of business, research, media planning, and c persuasive messages, development of a complete integrated marketing motion, and both written and oral presentation of the campaign.	

partments of large commercial firms, relationship with financial and transportation intermediaries

MKT 4855	Research in Marketing	3 Credits	MT 210
Prerequisites:	MKT 2280 Principles of Marketing		Process
	MGT 3940 Business Research Methodology		and es
	Completion of at least 90 credits		and en
Principles and metho	ds of marketing research, securing respondents, making test ors of collected data, tabulating and analyzing		MT 210
	ng findings and stating conclusion, application of research te		Source
	problems: determination of market potential and sales quota, of sales promotional efforts, advertising program and channels of o		creative
			MT 221
MKT 4856	Brand Building Strategy	3 Credits	
Prerequisite:	MKT 3102 Integrated Marketing Communications		 Duin aire
	Completion of at least 90 credits		Princip sources
	levelopment, concepts, theories, principles and terminology of		manag
	I marketing communication tools, segmentation, target market		
sage strategy, media	choice, advertising evaluation, aspects of raising brand av	vareness, creating relevant and	MT 321
	tity, building high quality reputation, and shaping desired brand	a imagery for a brand and brand	Kovior
equity.			Key org ity of w
MKT 4857	Qualitative Research in Marketing	3 Credits	ity of w
Prerequisite:	MKT 4855 Research in Marketing		MT 321
	Senior standing (106 credits)		
			Psychol
	ualitative techniques in research including in-depth interviews, neasurement techniques to understand the consumers' buying		manage organiz
	ontent analysis, discourse analysis and others.	decision making, data collection	organiz
, ,			MT 321
MKT 4897	Marketing Internship	3 Credits	
Prerequisite:	MKT 2280 Principles of Marketing Completion of at least 90 credits		Econon within
			nology,
	nts to experience practical marketing by carrying out work proje		
	corporations, governmental entities, private or public organiz		MT 322
	executive or faculty member. Students will apply theoretical	concepts to practice and gain	
valuable working expe	rience. All internships must be approved in advance.		Principl
MKT 4898	Seminar in Entrepreneurship	3 Credits	ing rese
Prerequisite:	MKT 2280 Principles of Marketing		MT 322
	Senior standing (106 credits)		
			Commu
	of a business, legal organization of firm, branding, financing		protoco
	nanagement, buying and customer support functions, retail		
store management, la	ail marketing mix components (such as branding, merchandisir		MT 323
successful entrepreneu	ail marketing mix components (such as branding, merchandisir yout and visual merchandising), internal and external promoti	ons, traits and characteristics of	
	yout and visual merchandising), internal and external promoti	ons, traits and characteristics of	Produc
MI/T 4000	yout and visual merchandising), internal and external promoti ırs.		Produc
	yout and visual merchandising), internal and external promoti ırs. IMC Internship	ons, traits and characteristics of 3 Credits	Produc
	yout and visual merchandising), internal and external promoti ırs.	3 Credits	Produc ageme project
Prerequisite:	yout and visual merchandising), internal and external promoti irs. IMC Internship MKT 3102 Integrated Marketing Communications Senior standing (106 credits) and Chairperson's approval	3 Credits	Produc ageme project MT 324
Prerequisite: 	yout and visual merchandising), internal and external promoti irs. IMC Internship MKT 3102 Integrated Marketing Communications Senior standing (106 credits) and Chairperson's approval g supervised work experience in the advertising and marketi in the internship coordinator, periodic reports, as well as a final	3 Credits  ng communication organization.	Produc ageme project MT 324 Applica
Prerequisite: 	yout and visual merchandising), internal and external promoti irs. IMC Internship MKT 3102 Integrated Marketing Communications Senior standing (106 credits) and Chairperson's approval g supervised work experience in the advertising and marketi in the internship coordinator, periodic reports, as well as a final	3 Credits  ng communication organization.	Produc ageme project MT 324 Applica improv
Prerequisite: An off-campus trainin Regular meetings with ence to the student's c	yout and visual merchandising), internal and external promoti irs. IMC Internship MKT 3102 Integrated Marketing Communications Senior standing (106 credits) and Chairperson's approval g supervised work experience in the advertising and marketi in the internship coordinator, periodic reports, as well as a final	3 Credits  ng communication organization.	Produc agemen project MT 324 Applica improv MT 331
An off-campus trainin Regular meetings with ence to the student's c MT 2101	yout and visual merchandising), internal and external promoti irs. IMC Internship MKT 3102 Integrated Marketing Communications Senior standing (106 credits) and Chairperson's approval g supervised work experience in the advertising and marketi in the internship coordinator, periodic reports, as well as a final ourse work. Principles of Technology Management	3 Credits mg communication organization. paper relating the work experi- 3 Credits	Product agemen project MT 324 Applica improv MT 331 Effectiv
Prerequisite: An off-campus trainin Regular meetings with ence to the student's c MT 2101 Management of inno	yout and visual merchandising), internal and external promoti irs. IMC Internship MKT 3102 Integrated Marketing Communications Senior standing (106 credits) and Chairperson's approval g supervised work experience in the advertising and marketi in the internship coordinator, periodic reports, as well as a final ourse work. Principles of Technology Management vation, management of technology, management of technolog	3 Credits mg communication organization. paper relating the work experi- 3 Credits	MT 323 Product agemen project MT 324 Applica improve MT 331 Effectiv conditie
Prerequisite: An off-campus trainin Regular meetings with ence to the student's c MT 2101 Management of inno	yout and visual merchandising), internal and external promoti irs. IMC Internship MKT 3102 Integrated Marketing Communications Senior standing (106 credits) and Chairperson's approval g supervised work experience in the advertising and marketi in the internship coordinator, periodic reports, as well as a final ourse work. Principles of Technology Management	3 Credits mg communication organization. paper relating the work experi- 3 Credits	Product agemen project MT 324 Applica improv MT 331 Effectiv conditio
Prerequisite: An off-campus trainin Regular meetings with ence to the student's c MT 2101 Management of inno	yout and visual merchandising), internal and external promoti irs. IMC Internship MKT 3102 Integrated Marketing Communications Senior standing (106 credits) and Chairperson's approval g supervised work experience in the advertising and marketi in the internship coordinator, periodic reports, as well as a final ourse work. Principles of Technology Management vation, management of technology, management of technolog	3 Credits mg communication organization. paper relating the work experi- 3 Credits	Product agemen project MT 324 Applica improve MT 331 Effectiv
Prerequisite: An off-campus trainin Regular meetings with ence to the student's c MT 2101 Management of inno	yout and visual merchandising), internal and external promoti irs. IMC Internship MKT 3102 Integrated Marketing Communications Senior standing (106 credits) and Chairperson's approval g supervised work experience in the advertising and marketi in the internship coordinator, periodic reports, as well as a final ourse work. Principles of Technology Management vation, management of technology, management of technolog	3 Credits mg communication organization. paper relating the work experi- 3 Credits	Product agemen project MT 324 Applica improv MT 331 Effectiv condition tion at o

T 2102General Engineering System3 Creditsoccess of engineering design and solution, representation of technical information, engineering approximation dengineering economics.approximation engineering drawing, material balance, electrical theories, ener dengineering economics.T 2103Introduction to Innovation Business3 Creditsrure and nature of innovation, value of experiment, diffusion, new product development, market outcomes, retrive economy concept.3 CreditsT 2103Fundamentals of Financial Management in Technology Development3 Creditsinciples of corporate finance, financial functions, capital market, financial analysis, investment appraisal meth urces of long-term financing, cost of capital, capital structure, portfolio theory, working capital management, anagement, and feasibility study of a technology project.3 CreditsT 3210Huma Resources in Technology Driven Enterprises3 Creditsyor opanizational behavior, business policy by staffing, reward system, and relationship between productivity, q of work life and the role of technology in human development.3 Creditssystehological foundation for understanding individual and organizational behavior, application of principles anagerital problems in technological driven organization, perception, attitudes, motivation, economic development in rechnology development of product and service, product life cycle and market, mar gresearch, information and technology development of product and service, product life cycle and market, mar gresearch, information and technology, development of product and service, product life cycle and market, mar gresearch, information and technology, development of product and service, product life cycle and market, mar gresea			
cocess of engineering design and solution, representation of technical information, engineering approximati         de estimations, dimensions, units, conversion, engineering drawing, material balance, electrical theories, enerity design and solution, value of experiment, diffusion, new product development, market outcomes, eative economy concept.         T 2103       Introduction to Innovation Business       3 Credits         Turce and nature of innovation, value of experiment, diffusion, new product development, market outcomes, eative economy concept.       3 Credits         T 2100       Fundamentals of Financial Management in Technology Development       3 Credits         inciples of corporate finance, financial functions, capital market, financial analysis, investment appraisal methources of long-term financing, cost of capital, capital structure, portfolio theory, working capital management, and feasibility study of a technology project.       3 Credits         T 3210       Human Resources in Technology Driven Enterprises       3 Credits         vy organizational behavior, business policy by staffing, reward system, and relationship between productivity, q or work life and the role of technological driven organization, perception, attitudes, motivation, group dynamics, ganizational structure and culture.       3 Credits         T 3212       Economics for Sciences and Technology Policy       3 Credits         T 3220       Technological driven organization, perception, attitudes, motivation, group dynamics, ganizational technology, development of production device, transmission media, netw otocol and inter-organizational levels, application			3 Credits
Durce and nature of innovation, value of experiment, diffusion, new product development, market outcomes, eative economy concept.         Image: Control of	rocess of engineering designd estignd estimations, dimensions,	in and solution, representation of technical information, engineering	
uruce and nature of innovation, value of experiment, diffusion, new product development, market outcomes, eative economy concept.       Implementals of Financial Management in Technology Development       3 Credits         T 2210       Fundamentals of Financial Management in Technology Development       3 Credits         inciples of corporate finance, financial functions, capital market, financial analysis, investment appraisal methuranagement, and feasibility study of a technology project.       3 Credits         T 3210       Human Resources in Technology Driven Enterprises       3 Credits         ey organizational behavior, business policy by staffing, reward system, and relationship between productivity, q of work life and the role of technology in mana development.       3 Credits         T 3211       Organization Behavior in Technology Driven Enterprises       3 Credits         rychological foundation for understanding individual and organizational behavior, application of principles anagerial problems in technological driven organization, perception, attitudes, motivation, group dynamics, riganizational structure and culture.       3 Credits         T 3212       Economics for Sciences and Technology Policy       3 Credits         rinciples of marketing and integration of technology factors in market development, customer and market, mar g research, information and technology, development of product and service, product life cycle and marketing mix.         T 3220       Technological Marketing Management       3 Credits         rinciples of marketing and integration of technology factors			3 Credits
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T 3311Leadership and Managerial Skill Development3 Credits	fective business manageme onditions and culture that lea	nt in global level, difference and similarity in macroeconomic factors, r ad to decision of how to manage intellectual property management in b	
	T 3311	Leadership and Managerial Skill Development	3 Credits

Introduction to nature of leadership, managerial work and skills, perspectives on effective leadership behavior, theory of motivation, team building, managerial skill development, presentation, and negotiation skills.

nent, quality movements, total quality approach, Six Sigma, ISO, Technical Communications ators in a variety of technology fields, communication skills and or presentations on a wide range of audiences, principles and pract nteraction within groups. Introduction to Supply Chain Management MT 3230 Production and Project Management on design, logistics activities, sourcing process, operation, invento nt. Consumer Behavior in Technology Business MT 3220 Technological Marketing Management behavior for technological products and services, influence of soc cial group and class, demographic variables, and culture toward to wior. Customer Relationship Management in Technology Business MT 3220 Technological Marketing Management portfolio analysis, creating and managing networks, information ent, managing the customer lifecycle: customer acquisition, and Introduction to Industrial Marketing MT 3220 Technological Marketing Management customer acquisition of industrial goods such as machinery, equipational products and service acquisition of the service of social or analysis, creating and management Introduction to Industrial Marketing MT 3220 Technological Marketing Management	3 Credits communication pro tice of interpersona 3 Credits ary, distribution net 3 Credits cio-psychological as the technology con 3 Credits technology for cus customer retention 3 Credits
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MT 3220 Technological Marketing Management portfolio analysis, creating and managing networks, information ent, managing the customer lifecycle: customer acquisition, and Introduction to Industrial Marketing MT 3220 Technological Marketing Management cturing and distribution of industrial goods such as machinery, eq	technology for cus customer retention 3 Credits
portfolio analysis, creating and managing networks, information ent, managing the customer lifecycle: customer acquisition, and Introduction to Industrial Marketing MT 3220 Technological Marketing Management cturing and distribution of industrial goods such as machinery, eq	customer retention 3 Credits
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nature of industrial demand and product characteristics, engin	
Technology Retail Business MT 3220 Technological Marketing Management	3 Credits
logy business in area of retail operations, inventory planning, open nology retail, location selection, store layout and design, sale equip	
Consumer Technology Product and Merchandise Management MT 3220 Technological Marketing Management	3 Credits
in innovation product's model and reduction in retail price, praction and ended and reduction in retail price, practic nagement, demand forecasting, sourcing, inventory planning and ended and and and and and and and and and an	
Organizational Development in Technology Enterprise MT 3211 Organization Behavior in Technology Driven Enterprises	3 Credits
or incremental development in order to gain and sustain its cor onments in technology business, and organizational development and	
Global Innovation and Technological Changes MT 3211 Organization Behavior in Technology Driven Enterprises	3 Credits
	ogy business in area of retail operations, inventory planning, op nology retail, location selection, store layout and design, sale equip Consumer Technology Product and Merchandise Management MT 3220 Technological Marketing Management 

Prerequisite:	Innovation Business Required at least 100 Credits	3 Credits
	new technologies, technical feasibility, innovation economic val	ue, and process of potential
MT 3340 Prerequisite:	Principles of Business Research DA 2103 Principles of Statistics	3 Credits
Formulation and clarif	fication of research topics, review of literatures, research appr n, qualitative analysis and quantitative data, and report writing.	roach selection, selection of
MT 4201 Prerequisite:	Social Interests, Government Policies, and Technology Required at least 80 Credits	3 Credits
Interrelationships amor how business leaders the economic, cultural,	ng businesses, government, society, and technology and how th steer companies through a world continuously altered by enviro , political, technological and ecological terrain in which companie ical and social responsibility.	onmental forces that reshape
MT 4210 Prerequisite:	Technology Management and Business Strategy Required at least 100 Credits	3 Credits
All functional areas of integration of technolo	f business and technology policy for managing firm technologi ogy and business policy, formulation of technology policy, inventio problem solving skills, strategic decision making, position defense.	
MT 4299 Prerequisite:	Senior Project Required at least 100 Credits	3 Credits
Application of technolo	ogy knowledge, problem analysis, research and proposed solution agement concepts, business development plan.	ns in system design, applica-
MT 4310 Prerequisite:	International Marketing Management MT 3220 Technological Marketing Management	3 Credits
	ative marketing planning for managing technological product or	
	x, research, consumer behavior, distribution system, marketing in	
tices of marketing mix		
tices of marketing mix cultural difference. MT 4311 Prerequisite: Successful technology	k, research, consumer behavior, distribution system, marketing in Technological Brand Management	formation system, social and 3 Credits nology diffusion, technology
tices of marketing mix cultural difference. MT 4311 Prerequisite: Successful technology	k, research, consumer behavior, distribution system, marketing in Technological Brand Management MT 3220 Technological Marketing Management brand products positioning, technology product marketing, tech	formation system, social and 3 Credits nology diffusion, technology
tices of marketing mix cultural difference. MT 4311 Prerequisite: Successful technology product retailing, techno MT 4313 Prerequisite: Analysis on how orgar organizational transfor	k, research, consumer behavior, distribution system, marketing in Technological Brand Management MT 3220 Technological Marketing Management brand products positioning, technology product marketing, tech ology product development, technology product life cycle, and mark Management of Organization Transformation	formation system, social and 3 Credits nology diffusion, technology ket conditions. 3 Credits gies, different approaches to
tices of marketing mix cultural difference. MT 4311 Prerequisite: Successful technology product retailing, techno MT 4313 Prerequisite: Analysis on how orgar organizational transfor variety of theories and r MT 4314	k, research, consumer behavior, distribution system, marketing in Technological Brand Management MT 3220 Technological Marketing Management brand products positioning, technology product marketing, tech loology product development, technology product life cycle, and mark Management of Organization Transformation MT 2101 Principles of Technology Management nizations make it through difficulty periods, development strate mation, comparison of some of the basic strategies used in t researches, conceptualization and integration of the theories. Marketing Communication for Technology Product	formation system, social and 3 Credits nology diffusion, technology ket conditions. 3 Credits gies, different approaches to
tices of marketing mix cultural difference. MT 4311 Prerequisite: Successful technology product retailing, techno MT 4313 Prerequisite: Analysis on how organ organizational transfort variety of theories and r MT 4314 Prerequisite: Application of the com	k, research, consumer behavior, distribution system, marketing in Technological Brand Management MT 3220 Technological Marketing Management brand products positioning, technology product marketing, tech toology product development, technology product life cycle, and mark Management of Organization Transformation MT 2101 Principles of Technology Management nizations make it through difficulty periods, development strater mation, comparison of some of the basic strategies used in t researches, conceptualization and integration of the theories.	formation system, social and 3 Credits nology diffusion, technology ket conditions. 3 Credits gies, different approaches to ransforming organizations, a 3 Credits y field in both consumer and

New emerging marketing concept through consumer mobility device such as mobile phone, fast changes in mobile device capability leading to the changes in market behavior due to consumer adoption of mobile technology, and media promotional contents.

MT 4316 Prerequisite:	Financial Planning and Analysis MT 2210 Fundamental of Financial Management in Technology	3 Credits Development
Analysis of financial	statement to assess profitability and productivity, interaction betwee siness plan and decision.	een macroeconomics and
MT 4317 Prerequisite:	Business Budgeting and Control MT 2210 Fundamentals of Financial Management in Technology	3 Credits v Development
Method of arranging	corporate budget for managerial planning and control, various types o dgeting, R&D budgeting, production budgeting.	of budgeting such as cash
MT 4318 Prerequisite:		3 Credits
Application of econo	mics tools for analysis of management decision, demand analysis, market structure and competitive analysis, valuation, and economic uncer	3. 1
MT 4319 Prerequisite:	Economics and Technology Development MT 3212 Economics for Sciences and Technology Policy	3 Credits
Application of econor	mic principles in the development of new technology and market with tor such as technology acceptance model.	h emphasis on theoretical
MT 4320 Prerequisite:	Principles and Policies of Technology Investment MT 2210 Fundamentals of Financial Management in Technology	3 Credits y Development
Investment theories a development, operati	and practices in decision making and measuring strategy related to ion strategy, value creation to company profitability, growth and co cial and forecasting constraints.	
MT 4321 Prerequisite:		3 Credits
	echnologies with new commercial design ideas, process design, pro	aduct davalanmant alac
	d control, structure and material selection.	buuct development, elec-
tronics, mechanism an MT 4322 Prerequisite:	Management of Technological Changes MT 2101 Principles of Technology Management	3 Credits
tronics, mechanism an MT 4322 Prerequisite: Systematic approach process and model s	Management of Technological Changes	3 Credits  of emerging technologies,
tronics, mechanism an MT 4322 Prerequisite: Systematic approach process and model s thinking, problem solv MT 4323 Prerequisite:	Management of Technological Changes MT 2101 Principles of Technology Management to change management in corporate performance due to the effect of such as innovation diffusion in S-curve growth model, disruptive ter ring and managing the transition. Entrepreneurship in Technology Business Required at least 100 Credits	3 Credits  of emerging technologies,
tronics, mechanism an MT 4322 Prerequisite: Systematic approach process and model s thinking, problem solv MT 4323 Prerequisite: Practice of business p	Management of Technological Changes MT 2101 Principles of Technology Management to change management in corporate performance due to the effect of such as innovation diffusion in S-curve growth model, disruptive ter ring and managing the transition. Entrepreneurship in Technology Business Required at least 100 Credits	3 Credits of emerging technologies, chnologies for systematic 3 Credits
tronics, mechanism an MT 4322 Prerequisite: Systematic approach process and model s thinking, problem solv MT 4323 Prerequisite: Practice of business p opportunities in techn MT 4330 Prerequisite:	Management of Technological Changes MT 2101 Principles of Technology Management to change management in corporate performance due to the effect of such as innovation diffusion in S-curve growth model, disruptive tec ring and managing the transition. Entrepreneurship in Technology Business Required at least 100 Credits Dan, business model, new venture formation, feasibility, and valuation iology business. Operation System and Technology MT 3230 Production and Project Management	3 Credits  of emerging technologies, chnologies for systematic 3 Credits
tronics, mechanism an MT 4322 Prerequisite: Systematic approach process and model s thinking, problem solv MT 4323 Prerequisite: Practice of business p opportunities in techn MT 4330 Prerequisite: Process management facility design, perfor	Management of Technological Changes MT 2101 Principles of Technology Management to change management in corporate performance due to the effect of such as innovation diffusion in S-curve growth model, disruptive tec- ring and managing the transition. Entrepreneurship in Technology Business Required at least 100 Credits Dan, business model, new venture formation, feasibility, and valuation iology business. Operation System and Technology	3 Credits of emerging technologies, chnologies for systematic 3 Credits in order to capitalize the 3 Credits ion, layout, process flow,
tronics, mechanism an MT 4322 Prerequisite: Systematic approach process and model s thinking, problem solv MT 4323 Prerequisite: Practice of business p opportunities in techn MT 4330 Prerequisite: Process management facility design, perfor sion. MT 4360	Management of Technological Changes MT 2101 Principles of Technology Management to change management in corporate performance due to the effect of such as innovation diffusion in S-curve growth model, disruptive tec- ring and managing the transition. Entrepreneurship in Technology Business Required at least 100 Credits Dan, business model, new venture formation, feasibility, and valuation tology business. Operation System and Technology MT 3230 Production and Project Management c, management of technology in operation, capacity planning, locat mance measurement and control system, industry management, and Computer Graphic and Application	3 Credits of emerging technologies, chnologies for systematic 3 Credits in order to capitalize the 3 Credits ion, layout, process flow,
tronics, mechanism an MT 4322 Prerequisite: Systematic approach process and model s thinking, problem solv MT 4323 Prerequisite: Practice of business p opportunities in techn MT 4330 Prerequisite: Process management facility design, perfor sion. MT 4360	Management of Technological Changes MT 2101 Principles of Technology Management to change management in corporate performance due to the effect of such as innovation diffusion in S-curve growth model, disruptive tec- ring and managing the transition. Entrepreneurship in Technology Business Required at least 100 Credits Data, business model, new venture formation, feasibility, and valuation toology business. Operation System and Technology MT 3230 Production and Project Management r, management of technology in operation, capacity planning, locat mance measurement and control system, industry management, and	3 Credits of emerging technologies, chnologies for systematic 3 Credits in order to capitalize the 3 Credits ion, layout, process flow, strategic operation deci- 3 Credits

typo-graphic for the basic development of graphic design, image creation and retouching, page layout by using the program of Adobe Illustrator CS with other most popular graphic programs such as Adobe Photoshop CS, graphic design printing work.

MT 4362 Prerequisite:	Web Design and Web Multimedia MT 4361 Computer Arts and Graphic Design	3 Credits
Process of web production, o	conception to web design implementation, concept making, graphic de n name registration, server rental, transferring the web site to the Internet.	esign, GIF anima-
MT 4363 Prerequisite:	Security Management in Information Technology IT 2231 Introduction to Information Technology	3 Credits
Adoption of IT security relat ture of the organization, risk disaster recovery plan, proce	ed to organization business objectives, business needs, business proc management process and IT auditing, development of business con ss of acquisition, implementation and post-implementation of IT secur y training and knowledge management.	tinuity plan and
MT 4364 Prerequisite:	Marketing Information System and Management MT 3220 Technological Marketing Management	3 Credits
Use of marketing information	n system for marketing communication, analysis of customer behavior ment of customer profitability, responsiveness of target customers to gn of system.	
MT 4365 Prerequisite:	Business Marketing Information System MT 3220 Technological Marketing Management	3 Credits
Integration of business mark	eting principles with information system management, organizational less marketing program and channel, business marketing database	
MT 4366	Logistic Technology and Operation	3 Credits
	nologies toward logistic cost and performance.	
MT 4367	Principles of Enterprise Knowledge Management	3 Credits
	knowledge management life cycle, knowledge creation and capture, a ement tools.	nd the technical
MT 4368	Technology Outsourcing	3 Credits
Outsourcing methodology , to outsourcing, managing or	feasibility of outsourcing Ideas, outsourcing risk analysis, sourcing m agoing outsourcing relationship, IT outsourcing lifecycle and transition s for sustainability and growth, and governance of outsourcing projects.	
MT 4369 Prerequisite:	Technology Value Evaluation Methodology Required at least 100 Credits and the consent of the instructor	3 Credits
Contradiction of technology	investment value, conflicting in technology investment payoff, value of the past technology initiative, and various approaches of evaluation me	
MT 4370 Prerequisite:	Engineering Statistics DA 2103 Principles of Statistics	3 Credits
	niques, use of language, statistical tools, and computation techniques f	or analyzing and
MT 4371 Prerequisite:	Advanced Statistics for Research DA 2103 Principles of Statistics	3 Credits
Basic concepts of structural	equation model, advanced statistics and use of statistical tools and constraining the complicated and multivariate data.	omputation tech-
MT 4390 Prerequisite:	Seminar in Management The consent of the instructor	3 Credits
	of management science or new researches that may affect modern m	nanagement the-

Seminar in the advancement of management science or new researches that may affect modern management theory. The course may be conducted by experts in specialized areas from governmental or private sectors. Students may be organized into groups for special activities on interesting topics.

Prerequisite:	Seminar in Technology The consent of the instructor	3 Credits
Seminar in the adva development theory.	Incement of science and technology or new researches that may The course may be conducted by experts in specialized areas fro be organized into groups for special activities on interesting topics.	
MT 4400-49 Prerequisite:	Selected Topic in Management The consent of the instructor	3 Credits
Special selected topi	cs in management that the department and the instructors think a of study depends on the interest of the instructor and the stude another.	
MT 4450-99 Prerequisite:	Selected Topic in Technology The consent of the instructor	3 Credits
Special selected topi	cs in science and technology that the department and the instru- udy. The area of study depends on the interest of the instructor and er to another.	
MU 0020	Fundamentals of Music Theory	Non-credit
Basic concepts of m rhythm, meter, divisio	usic, notation, major and minor scales, key signatures, intervals a on of the beat, simple and compound time signatures, triads, seve tonic chords in major and minor keys.	
MU 0101	Ear Training I	2 Credits
harmonic motion and	c ear training skills through singing and dictation – songs, intervals rhythmic patterns.	s, scales, chords, elementary
	Ear Training II MU 0101 Far Training I	2 Credits
Prerequisite:	Ear Training II MU 0101 Ear Training I 	
Prerequisite: Further development	MU 0101 Ear Training I of ear training skills through increasing complex singing and dictation e Ear Training III	
Prerequisite: Further development MU 0103 Prerequisite:	MU 0101 Ear Training I of ear training skills through increasing complex singing and dictation e Ear Training III MU 0102 Ear Training II	exercises. 2 Credits
Prerequisite: Further development MU 0103 Prerequisite:	MU 0101 Ear Training I of ear training skills through increasing complex singing and dictation e Ear Training III MU 0102 Ear Training II	exercises. 2 Credits
Prerequisite: Further development MU 0103 Prerequisite: Further development MU 0104	MU 0101 Ear Training I of ear training skills through increasing complex singing and dictation e Ear Training III MU 0102 Ear Training II of ear training skills through increasing complex singing and dictation e Ear Training IV	exercises. 2 Credits
Prerequisite: Further development MU 0103 Prerequisite: Further development MU 0104 Prerequisite:	MU 0101 Ear Training I of ear training skills through increasing complex singing and dictation e Ear Training III MU 0102 Ear Training II of ear training skills through increasing complex singing and dictation e	exercises. 2 Credits exercises. 2 Credits
Prerequisite: Further development MU 0103 Prerequisite: Further development MU 0104 Prerequisite: Further development	MU 0101 Ear Training I of ear training skills through increasing complex singing and dictation e Ear Training III MU 0102 Ear Training II of ear training skills through increasing complex singing and dictation e Ear Training IV MU 0103 Ear Training III of ear training skills through increasing complex singing and dictation e	exercises. 2 Credits exercises. 2 Credits exercises.
Prerequisite: Further development MU 0103 Prerequisite: MU 0104 Prerequisite: Further development Further development	MU 0101 Ear Training I of ear training skills through increasing complex singing and dictation e Ear Training III MU 0102 Ear Training II of ear training skills through increasing complex singing and dictation e Ear Training IV MU 0103 Ear Training III	exercises. 2 Credits exercises. 2 Credits
Prerequisite: Further development MU 0103 Prerequisite: MU 0104 Prerequisite: Further development MU 0111 Prerequisite: or	MU 0101 Ear Training I of ear training skills through increasing complex singing and dictation e Ear Training III MU 0102 Ear Training II of ear training skills through increasing complex singing and dictation e Ear Training IV MU 0103 Ear Training III of ear training skills through increasing complex singing and dictation e Ear Training I Satisfaction score on theory entrance examination MU 0020 Fundamental of Music Theory	exercises. 2 Credits exercises. 2 Credits exercises.
Prerequisite: Further development MU 0103 Prerequisite: Further development MU 0104 Prerequisite: Further development MU 0111 Prerequisite: or Basic ear training, sig	MU 0101 Ear Training I of ear training skills through increasing complex singing and dictation e Ear Training III MU 0102 Ear Training II of ear training skills through increasing complex singing and dictation e Ear Training IV MU 0103 Ear Training III of ear training skills through increasing complex singing and dictation e Ear Training I Satisfaction score on theory entrance examination	exercises. 2 Credits exercises. 2 Credits exercises. 1 Credits
Prerequisite: Further development MU 0103 Prerequisite: Further development MU 0104 Prerequisite: MU 0111 Prerequisite: or Basic ear training, sig terns.	MU 0101 Ear Training I of ear training skills through increasing complex singing and dictation e Ear Training III MU 0102 Ear Training II of ear training skills through increasing complex singing and dictation e Ear Training IV MU 0103 Ear Training III of ear training skills through increasing complex singing and dictation e Ear Training I Satisfaction score on theory entrance examination MU 0020 Fundamental of Music Theory	exercises. 2 Credits exercises. 2 Credits exercises. 1 Credits
Prerequisite: Further development of MU 0103 Prerequisite: Further development of MU 0104 Prerequisite: MU 0111 Prerequisite: or Basic ear training, signation terns. MU 0112 Prerequisites:	MU 0101 Ear Training I of ear training skills through increasing complex singing and dictation e Ear Training III MU 0102 Ear Training II of ear training skills through increasing complex singing and dictation e Ear Training IV MU 0103 Ear Training III of ear training skills through increasing complex singing and dictation e Ear Training I Satisfaction score on theory entrance examination MU 0020 Fundamental of Music Theory ght reading, singing on simple melodic line, intervals, chords, and Ear Training I MU 1111 Theory of Western Music I MU 0111 Ear Training I	exercises. 2 Credits exercises. 2 Credits exercises. 1 Credits scales in basic rhythm pat-
Prerequisite: Further development of MU 0103 Prerequisite: Further development of MU 0104 Prerequisite: Further development of MU 0111 Prerequisite: or Basic ear training, sign terns. MU 0112 Prerequisites: Advanced ear training	MU 0101 Ear Training I of ear training skills through increasing complex singing and dictation e Ear Training III MU 0102 Ear Training II of ear training skills through increasing complex singing and dictation e Ear Training IV MU 0103 Ear Training III of ear training skills through increasing complex singing and dictation e Ear Training IV fear training skills through increasing complex singing and dictation e Ear Training I Satisfaction score on theory entrance examination MU 0020 Fundamental of Music Theory ght reading, singing on simple melodic line, intervals, chords, and Ear Training II MU 1111 Theory of Western Music I	exercises. 2 Credits exercises. 2 Credits exercises. 1 Credits scales in basic rhythm pat- 1 Credits , dictation studies, intervals,
Further development of MU 0103 Prerequisite: Further development of MU 0104 Prerequisite: Further development of MU 0111 Prerequisite: or Basic ear training, sig terns. MU 0112 Prerequisites: MU 0112 Prerequisites:	MU 0101 Ear Training I of ear training skills through increasing complex singing and dictation e Ear Training III MU 0102 Ear Training II of ear training skills through increasing complex singing and dictation e Ear Training IV MU 0103 Ear Training III of ear training skills through increasing complex singing and dictation e Ear Training IV MU 0103 Ear Training III of ear training skills through increasing complex singing and dictation e Ear Training I Satisfaction score on theory entrance examination MU 0020 Fundamental of Music Theory ght reading, singing on simple melodic line, intervals, chords, and Ear Training I MU 1111 Theory of Western Music I MU 0111 Ear Training I g, sight reading, singing any music in written notation form precisely	exercises. 2 Credits exercises. 2 Credits exercises. 1 Credits scales in basic rhythm pat- 1 Credits , dictation studies, intervals,

to basic musical form, cadences, non-chord tones, modes, dominant and diatonic seventh chords, instrumental transposition, diatonic harmonic function, part-writing, harmonization and score analysis.

MU 1112 Prerequisites:	Theory of Western Music II MU 1111 Theory of Western Music I	3 Credits
Jazz: Major key harmo and motif developme	ony: secondary and extended dominant relationships, available nt. Principles of linear harmonic continuity and guide tone lin ant minor. Blues theory and chord progressions. Melodic rhythr	tensions, melodic constructio nes. Minor key harmony; intro
Classic: Chromatic ha	monic function: secondary dominants, modulation, mode mixtu of part-writing skills, harmonization and score analysis.	ure and the Neapolitan chore
MU 1401	Computer for Musicians	3 Credits
ntroduction to the pr	actice of music technology. Overview of all aspects of the previou students to evaluate their own future technological needs.	
MU 1701	Jazz Music Appreciation	3 Credits
Jazz music through li	stening techniques to recognize various elements, styles, genre tion of jazz through exposure to many famous performers and a pment.	es, forms, and textures. Under
MU 1702	Popular Music Appreciation	3 Credits
Modern popular musi tures. Understanding	ic through listening techniques to recognize various elements, and appreciation of popular music through exposure to many lues, Rock, Pop, R&B, Funk, Latin, Rap, and all the latest forms of pop	styles, genres, forms, and tex famous performers. Survey of
MU 2101 Prerequisite:	Orchestration MU 1112 Theory of Western Music II	3 Credits
	chniques used in the arrangement and composition of music for the	
MU 2102 Prerequisite:	Conducting MU 1112 Theory of Western Music II	2 Credits
Physical skills involved	I with conducting using the baton and hands. Methods of chora acticed using members of the class as performers as well as existing	al and instrumental conduction
MU 2113 Prerequisites:	Theory of Western Music III MU 1112 Theory of Western Music II	3 Credits
Jazz: Analysis and app scale theory. Review dies. Substitute domin Classic: Augmented S chords, chromatic me	olication of major and minor key harmony; subdominant minor of melodic construction and melody/ harmony relationship; ind ant and related II-7 chords; diminished chord patterns; modulation. Sixth chords, enharmonic functions, altered dominants, comr diants, coloristic chord successions and tonal harmony of the late skills, harmonization and score analysis.	and modal interchange; chor dividual note analysis of melo mon-tone diminished sevent
MU 2114 Prerequisite:	Theory of Western Music IV MU 2113 Theory of Western Music III	3 Credits
Jazz: Principles of m chords without domin harmony relationship; pound chords. Classic: Basic principle tertian harmony, poly	odern chord progression: deceptive resolutions of secondary ant function; contiguous dominant motion. Review of melodic co modal interchange; pedal point and ostinato; modal harmony es and techniques of 20th century art music: modes, artificial tonality, rhythmic methods, formal process, intervallic organizat t developments. Further development of score analysis skills ar	dominants; dominant sevent onstruction, form, and melody and modal composition; corr l scales, free tertian and nor tion, serial procedures and a
MU 2211	History of Thai Music	3 Credits
Development of early	Thai musical genres up to the present, including historical back th of vocal and instrumental music, musical varieties and charac ncipal composers.	

Prerequisites:	Popular Music Literature MU 1112 Theory of Western Music II MU 0112 Ear Training II	3 Credits
Survey of western popular m	nusic, popular music artists in different periods.	
MU 2501 Prerequisite:	Ensemble I MA 1302 Applied Music II	2 Credits
	as ensemble players and study of selected repertoire to perfo	
MU 2502 Prerequisite:	Ensemble II MU 2501 Ensemble I	2 Credits
	nniques as ensemble players and study of selected repertoire	
MU 3110	Techniques of Modern Composition	3 Credits
Prerequisite:	MU 2114 Theory of Western Music IV	
Procedures, theories, and for twelve-tone operations, not	orms used in the composition of contemporary fine art n n-tonal harmony, indeterminacy, contemporary notation a ment of analytical skills for non-tonal music and compos	nusic. Intervallic composition, nd new concepts of meter, du-
MU 3121 Prerequisite:	Composition MU 2113 Theory of Western Music III	3 Credits
Creation of original music,	development of compositional abilities, short composition ic, diverse musical examples.	 n writing, development of skills
MU 3221	History of Western Music I	2 Credits
Prerequisites:	MU 1112 Theory of Western Music II MU 0112 Ear Training II	
	rom Medieval through early Baroque period with emphasis prehistoric music, Greek music and its importance in phy	on stylistic traits and theoreti-
Gregorian chant and secul	ar monophony, evolution of musical notation, developme h as mass, motet, madrigal, opera, cantata, oratorio.	
Gregorian chant and secul		
Gregorian chant and secul and instrumental genres suc MU 3222 Prerequisite: History of Western music fr and theoretical concepts of symphonic poem, characte	h as mass, motet, madrigal, opera, cantata, oratorio. History of Western Music II	2 Credits  with emphasis on stylistic traits g quartet, concerto, symphony,
Gregorian chant and secul and instrumental genres suc MU 3222 Prerequisite: History of Western music fr and theoretical concepts of symphonic poem, characte and romantic era, rise of inst MU 3501	th as mass, motet, madrigal, opera, cantata, oratorio. History of Western Music II MU 3221 History of Western Music I rom the middle Baroque era to the end of 19th century v of the eras, development of genres such as sonata, string r piece, Lied, and opera, comparisons of aestethics and id	2 Credits with emphasis on stylistic traits g quartet, concerto, symphony,
Gregorian chant and secul and instrumental genres suc Prerequisite: History of Western music fr and theoretical concepts of symphonic poem, characte and romantic era, rise of inst MU 3501 Prerequisite:	th as mass, motet, madrigal, opera, cantata, oratorio. History of Western Music II MU 3221 History of Western Music I rom the middle Baroque era to the end of 19th century wo of the eras, development of genres such as sonata, string r piece, Lied, and opera, comparisons of aestethics and id rumental music and virtuosism. Ensemble III	ent of polyphonic music, vocal 2 Credits  with emphasis on stylistic traits g quartet, concerto, symphony, ea of music in baroque, classic 2 Credits 
Gregorian chant and secul and instrumental genres suc Prerequisite: History of Western music fr and theoretical concepts of symphonic poem, characte and romantic era, rise of inst MU 3501 Prerequisite: Further development of tech	th as mass, motet, madrigal, opera, cantata, oratorio. History of Western Music II MU 3221 History of Western Music I rom the middle Baroque era to the end of 19th century of f the eras, development of genres such as sonata, string r piece, Lied, and opera, comparisons of aestethics and id rumental music and virtuosism. Ensemble III MU 2502 Ensemble II mniques as ensemble players and study of selected repertoire	ent of polyphonic music, vocal 2 Credits  with emphasis on stylistic traits g quartet, concerto, symphony, ea of music in baroque, classic 2 Credits 
Gregorian chant and secul and instrumental genres suc AU 3222 Prerequisite: distory of Western music fund theoretical concepts of ymphonic poem, characte and romantic era, rise of inst AU 3501 Prerequisite: further development of tech AU 3502 Prerequisite:	th as mass, motet, madrigal, opera, cantata, oratorio. History of Western Music II MU 3221 History of Western Music I rom the middle Baroque era to the end of 19th century to of the eras, development of genres such as sonata, string r piece, Lied, and opera, comparisons of aestethics and id rumental music and virtuosism. Ensemble III MU 2502 Ensemble II mniques as ensemble players and study of selected repertoire Ensemble IV MU 3501 Ensemble III	ent of polyphonic music, vocal 2 Credits  with emphasis on stylistic traits g quartet, concerto, symphony, ea of music in baroque, classic 2 Credits  to performance standard.
Gregorian chant and secul and instrumental genres suc MU 3222 Prerequisite: History of Western music fr and theoretical concepts of symphonic poem, characte and romantic era, rise of inst MU 3501 Prerequisite: Further development of tech MU 3502 Prerequisite:	th as mass, motet, madrigal, opera, cantata, oratorio. History of Western Music II MU 3221 History of Western Music I rom the middle Baroque era to the end of 19th century of the eras, development of genres such as sonata, string r piece, Lied, and opera, comparisons of aestethics and id rumental music and virtuosism. Ensemble III MU 2502 Ensemble II mniques as ensemble players and study of selected repertoire Ensemble IV	ent of polyphonic music, vocal 2 Credits  with emphasis on stylistic traits g quartet, concerto, symphony, ea of music in baroque, classic 2 Credits  to performance standard. 2 Credits 
Gregorian chant and secul and instrumental genres suc MU 3222 Prerequisite: History of Western music fr and theoretical concepts of symphonic poem, characte and romantic era, rise of inst MU 3501 Prerequisite: Further development of tech MU 3502 Prerequisite: Further development of tech	th as mass, motet, madrigal, opera, cantata, oratorio. History of Western Music II MU 3221 History of Western Music I rom the middle Baroque era to the end of 19th century v of the eras, development of genres such as sonata, string r piece, Lied, and opera, comparisons of aestethics and id rumental music and virtuosism. Ensemble III MU 2502 Ensemble II miques as ensemble players and study of selected repertoire Ensemble IV MU 3501 Ensemble III	ent of polyphonic music, vocal 2 Credits  with emphasis on stylistic traits g quartet, concerto, symphony, ea of music in baroque, classic 2 Credits  to performance standard. 2 Credits 
Gregorian chant and secul and instrumental genres suc VIU 3222 Prerequisite: History of Western music fr and theoretical concepts of symphonic poem, characte and romantic era, rise of inst VIU 3501 Prerequisite: Further development of tech VIU 3502 Prerequisite: Further development of tech VIU 3731 Basic knowledge and concept n elementary, and secondar	th as mass, motet, madrigal, opera, cantata, oratorio. History of Western Music II MU 3221 History of Western Music I rom the middle Baroque era to the end of 19th century of the eras, development of genres such as sonata, string r piece, Lied, and opera, comparisons of aestethics and id rumental music and virtuosism. Ensemble III MU 2502 Ensemble II anniques as ensemble players and study of selected repertoire Ensemble IV MU 3501 Ensemble III anniques as ensemble players and study of selected repertoire	ent of polyphonic music, vocal 2 Credits  with emphasis on stylistic traits g quartet, concerto, symphony, ea of music in baroque, classic 2 Credits  to performance standard. 2 Credits  to performance standard. 3 Credits  lum and music education system AN and other regions, issues and

MU 4103 Prerequisite:	Form and Analysis MU 2113 Theory of Western Music III MU 2114 Theory of Western Music IV (for Music Performance	3 Credits
Analytical study of v	arious significant forms-Binary, Rounded Binary, Ternary, Rondo, S s used in Western art music.	Sonata, and Fugue. Harmonic
MU 4112 Prerequisite:	Arranging MU 2113 Theory of Western Music III	3 Credits
	ging instruments in both large and small ensembles, and arran	ging music for different en-
MU 4221 Prerequisite:	History of Western Music III MU 3222 History of Western Music II	2 Credits
History of Western n	nusic from the end of the 19th century to the present era, contivism, atonality, serialism, minimalism, aleatory music, and electral music.	
MU 4223	Music in Human Life	3 Credits
Traditions, belief syste the music of contrast	ems, and practices of world cultures with regards to music. Comp ting ethnic groups in relation to different social contexts. Themati religious, and cross-cultural issues in human life.	
MU 4501 Prerequisite:	Ensemble V MU 3502 Ensemble IV	2 Credits
	of techniques as ensemble players and study of selected repertoire to	performance standard.
MU 4502 Prerequisite:	Ensemble VI MU 4501 Ensemble V	2 Credits
	of techniques as ensemble players and study of selected repertoire to	performance standard.
MU 7111	Concert Attendance I-VIII	Non-credit
Attendance in at lea	st two music events per semester represent or organized by th ts, recitals, workshops and guest lectures.	e School of Music, including
NB 1202	Anatomy	3 credits
Physical features, stru relationship between	acture and position of cells, membrane and organs, both in mac each section of the human structure and the physical system, nts and application of basic human structures for clinical nursing prac	growth and development of
NB 1203	Physiology	3 credits
	nship of body parts and organs in human body systems including ntain body balance, lab experiments and application of knowledge fo	
NB 1205	Biochemistry	3 credits
mechanisms of enzy proteins and their m	naracteristics and reactions of life occurred at the molecular le ymes, bioenergetics and thermodynamics, nucleic acids, carboh netabolisms, steps of gene regulation and protein synthesis, nut iciency of vitamins and minerals, importance of hormone and met	ydrates, lipids, amino acids, tritional biochemistry, clinical
tion for nursing praction		

Essence of biology, identification and classification of microorganisms that cause communicable diseases which cover bacteriology, mycology, virology, and parasitology, including life cycles, morphology, laboratory diagnosis, diseases, and basic concepts of immunology

NB 1210	Pathophysiology	3 Credits
General concepts in pathopl and affect the state of physiol	hysiology including alteration in functioning of human systems which ca logical balance	use the diseases
NB 1212 Prerequisite:	Nutrition for Healthy Life Style NB 1205 Biochemistry	3 credits
Basic principles of nutritiona ments, nutritional problems, tion knowledge to promote	Il science and therapeutic nutrition, major nutrient, nutrient standards, n , energy balance, food exchange lists, hospital diets, modified diets and health and disease management throughout the human life span, found utrition and community food supply for health	applying nutri-
NB 2209	Pharmacology	3 Credits
effects, precautions, drug ca	es of drug actions, drug administration, principles of drug actions, dru alculation, measurement and pharmaceutical preparations, drug educat tional List of Drug concerning adverse drug reactions	
NB 2211	Multiculturalism in Health Care	1 credit
-	related to health and illness, importance of cultural consideration for cl ural sensitivity in nursing practice in different scenarios	ients and health
NB 2212	Psychology and Mental Health	2 Credit
Principles of psychology and	d mental health, evolution of mental health and psychiatric care, menta tervention for maladaptive behaviors, and rehabilitation for chronic me unity	
NB 2213	Health Innovation and Knowledge Management	1 Credit
	on scientific approach, nursing theory, promotion of health and well- e invention and management of knowledge for networking and public shari	
NB 4201	Entrepreneurship in Health Care	3 Credits
Concept of entrepreneurship opment of SME project and p	o of health care management, factors influencing health care busines presentation	s success, devel-
NE 3501	Spa and Aroma Therapy	3 credits
	d principles of spa and aroma therapy, related public health laws and r anatomy and physiology, aroma massage techniques, health conseque herapist	
NE 3502	Massage as an Alternative Health Care	3 credits
hand massage, head massage	health care and classification of alternative health care, face massag ge, anatomy and physiology related to massage, advantage and contra s and alternative health care practices.	-
NE 3505	Oriental Exercise for Health	3 credits
	ted to exercise, practice of Yoga, Taichi, long wooden stick exercise, a	nd Thai classical
NE 4502	Adolescent Health	3 credits
Male and female adolescen	it health issues, gender adaptation, life-style, behaviours, self-image, rostance abuse, violence issues, and design of adolescent health promotion i	
NM 3401 Prerequisite:	Production for Communication Tools CA 1002 Introduction to Photography and Cinematography	3 Credits
Audio production, theory of	sound, recording techniques, digital audio workflow, mix down theory	and techniques,

Audio production, theory of sound, recording techniques, digital audio workflow, mix down theory and techniques, video production process, shooting board and vocabulary, cinematography, and basic video editing.

Prerequisites:	Film and Time-based Media Production CA 2007 Introduction to New Media and Broadcasting NM 3401 Production for Communication Tools	3 Credits
	hetics of cinema, digital media, cinematic time and space, continui nt, workflow for pre-production, production, and post-production.	ity and progression of
NM 3404	Multimedia Editing	3 Credits
	les and characterization of digital images, basic video editing, visua	l effects and composi-
NM 3410 Prerequisite:	New Media Application CA 2013 Utilization of Multimedia Tools	3 Credits
	a characteristics, new media technology trends, development of n media communication.	ew media application,
NM 3411 Prerequisite:	Advanced Photography and Digital Imaging CA 1002 Introduction to Photography and Cinematography	3 Credits
	aphy, technical production using computer image processing, setti t.	ng up for studio and
NM 3412 Prerequisite:	Creativity and Innovation CA 2013 Utilization of Multimedia Tools	3 Credits
	and non-linear game narratives, interactivity, web architecture, narrative	space principles.
NM 3414 Prerequisite:	New Media Journalism CA 1006 Introduction to Journalism and Mass Communication	3 Credits
New journalistic media in	various platforms, issues facing current journalists interviewing, rep liness of existing electronic publications.	oorting, reviewing con-
	5	
NM 3417	Computer Graphics for Communication Design	3 Credits
NM 3417		3 Credits
NM 3417 3D character development, NM 3418 Prerequisite:	Computer Graphics for Communication Design composite application, aesthetic value in composition of scenes. Interactive Media Art CA 2013 Utilization of Multimedia Tools	3 Credits 3 Credits
NM 3417 3D character development, NM 3418 Prerequisite:	Computer Graphics for Communication Design composite application, aesthetic value in composition of scenes. Interactive Media Art	3 Credits
NM 3417 3D character development, NM 3418 Prerequisite: Interactive media product principles. NM 3419	Computer Graphics for Communication Design composite application, aesthetic value in composition of scenes. Interactive Media Art CA 2013 Utilization of Multimedia Tools ion, web function and content delivery, basic web programming, de Selected Topics in New Media	3 Credits
NM 3417 3D character development, NM 3418 Prerequisite: Interactive media product principles. NM 3419	Computer Graphics for Communication Design composite application, aesthetic value in composition of scenes. Interactive Media Art CA 2013 Utilization of Multimedia Tools ion, web function and content delivery, basic web programming, de	3 Credits esign with interactivity 3 Credits
NM 3417 3D character development, NM 3418 Prerequisite: Interactive media product principles. NM 3419 New media technology dev NM 3420 Prerequisite:	Computer Graphics for Communication Design , composite application, aesthetic value in composition of scenes. Interactive Media Art CA 2013 Utilization of Multimedia Tools ion, web function and content delivery, basic web programming, de Selected Topics in New Media velopment in communication, new media effects on society, culture, and Audience Context Analysis CA 2016 Psychology for Persuasive Communication	3 Credits esign with interactivity 3 Credits
NM 3417 3D character development, NM 3418 Prerequisite: Interactive media product principles. NM 3419 New media technology dev NM 3420 Prerequisite:	Computer Graphics for Communication Design composite application, aesthetic value in composition of scenes. Interactive Media Art CA 2013 Utilization of Multimedia Tools ion, web function and content delivery, basic web programming, de Selected Topics in New Media relopment in communication, new media effects on society, culture, and Audience Context Analysis CA 2016 Psychology for Persuasive Communication understanding context of communication, media literacy, post-mod	3 Credits esign with interactivity 3 Credits d people. 3 Credits
NM 3417 3D character development, NM 3418 Prerequisite: Interactive media product principles. NM 3419 New media technology dev NM 3420 Prerequisite: Media convergence and to culture artifact and literatur NM 4405 Prerequisites:	Computer Graphics for Communication Design composite application, aesthetic value in composition of scenes. Interactive Media Art CA 2013 Utilization of Multimedia Tools ion, web function and content delivery, basic web programming, de Selected Topics in New Media velopment in communication, new media effects on society, culture, and Audience Context Analysis CA 2016 Psychology for Persuasive Communication understanding context of communication, media literacy, post-mod re analysis. Broadcast and New Media Management CA 2007 Introduction to New Media and Broadcasting NM 3401 Production for Communication Tools	3 Credits esign with interactivity 3 Credits d people. 3 Credits
NM 3417 3D character development, NM 3418 Prerequisite: Interactive media product principles. NM 3419 New media technology dev NM 3420 Prerequisite: Media convergence and u culture artifact and literatur NM 4405 Prerequisites:	Computer Graphics for Communication Design composite application, aesthetic value in composition of scenes. Interactive Media Art CA 2013 Utilization of Multimedia Tools ion, web function and content delivery, basic web programming, de Selected Topics in New Media relopment in communication, new media effects on society, culture, and Audience Context Analysis CA 2016 Psychology for Persuasive Communication understanding context of communication, media literacy, post-mod re analysis. Broadcast and New Media Management CA 2007 Introduction to New Media and Broadcasting	3 Credits esign with interactivity 3 Credits 4 people. 3 Credits ern concepts, popular 3 Credits

Principles of directing, concepts of vocal and visual aspects of performance, requirements and characteristics of media and production and managing production, adaptation of content across media.

Prerequisites:	Seminar in Broadcast and New Media NM 3401 Production for Communication Tools NM 3402 Film and Time-based Media Production	3 Credits
	ethical considerations in new media communication, issues that in	npact broadcast and digital
NM 4408 Prerequisites:	Studio Workshop NM 3401 Production for Communication Tools NM 3402 Film and Time-based Media Production	6 Credits
	f studio production. Students will be required to create a complete ctive program.	e work in the form of film
NM 4413 Prerequisite:	Advanced Multimedia Editing NM 3404 Multimedia Editing	3 Credits
	tion techniques, filming techniques for visual effects and post-proc	duction, composition of 3D
NM 4414 Prerequisite:	Sound for Video Production NM 3402 Film and Time-based Media Production	3 Credits
	ent, usage of microphone, recording in studio, recording outdoor, at ing and mastering.	utomated dialogue replace
NM 4417 Prerequisite:	Media Content Analysis CA 2016 Psychology for Persuasive Communication	3 Credits
	nods, understanding media roles, characteristics of social groups,	social structure, and new
Prerequisite:	Integrated New Media Environments CA 2013 Utilization of Multimedia Tools	3 Credits
Prerequisite: 		
Prerequisite: Utilizing of multiple ne tion. NM 4419 Prerequisite:	CA 2013 Utilization of Multimedia Tools ew media platforms, developing interactive new media environmen 4419 Utilization of New Media Programming CA 2013 Utilization of Multimedia Tools	
Utilizing of multiple ne tion. NM 4419 Prerequisite:	CA 2013 Utilization of Multimedia Tools w media platforms, developing interactive new media environmen 4419 Utilization of New Media Programming	ts for effective communica-
Prerequisite: Utilizing of multiple ne tion. NM 4419 Prerequisite: Utilizing programs for t NM 4420	CA 2013 Utilization of Multimedia Tools ew media platforms, developing interactive new media environmen 4419 Utilization of New Media Programming CA 2013 Utilization of Multimedia Tools	ts for effective communica-
Prerequisite: Utilizing of multiple no tion. NM 4419 Prerequisite: Utilizing programs for t NM 4420 Prerequisite: Understanding new m	CA 2013 Utilization of Multimedia Tools ew media platforms, developing interactive new media environmen 4419 Utilization of New Media Programming CA 2013 Utilization of Multimedia Tools he creation of new media communications. Studio Internship (200 Hours)	ts for effective communica- 3 Credits 1 Credits
Prerequisite: Utilizing of multiple no tion. NM 4419 Prerequisite: Utilizing programs for t NM 4420 Prerequisite: Understanding new m	CA 2013 Utilization of Multimedia Tools ew media platforms, developing interactive new media environmen 4419 Utilization of New Media Programming CA 2013 Utilization of Multimedia Tools he creation of new media communications. Studio Internship (200 Hours) CA 2013 Utilization of Multimedia Tools media characteristics, new media technology trends, development	ts for effective communica 3 Credits 1 Credits
Prerequisite: Utilizing of multiple no tion. NM 4419 Prerequisite: Utilizing programs for t NM 4420 Prerequisite: Understanding new m and effective usage of r NS 1307 Prerequisite: Origin of nursing pro holistic approaches thi tion and essence of r	CA 2013 Utilization of Multimedia Tools ew media platforms, developing interactive new media environmen 4419 Utilization of New Media Programming CA 2013 Utilization of Multimedia Tools the creation of new media communications. Studio Internship (200 Hours) CA 2013 Utilization of Multimedia Tools media characteristics, new media technology trends, development new media communication. Foundation of Professional Nursing I NB 1202 Anatomy	ts for effective communica- 3 Credits 1 Credits of new media application 2 Credits ework, family-centered and tion of conceptual founda-

NS 1311	Scientific Nursing Approach and Holistic Health Assessment	3 Credits
Application of nursing	process for clients based on self-care conceptual framework, demonstr g holistic approach including physiological, sociological, psychological,	
NS 1312	Health Promotion Throughout Lifespan	2 Credits
Health promotion conc	epts, theoretical framework, methods, healthy people 2020 policy, bio-policy, bio-policy, bio-policy, bio-policy, throughout lifespan including discussion of current issues, health novations	
NS 1313 Prerequisite:	Foundation of Professional Nursing II NB 1202 Anatomy NB 1203 Physiology	2 Credits
Application of self-care assist clients to meet th	conceptual framework, family-centered and holistic approaches throug eir needs, integration of conceptual foundation and essence of nursing cal nursing therapeutics, nursing management for clients with special r nursing procedures	care in every stage of
NS 1403 Prerequisite:	Nursing Experience I NS 1307 Foundation of Professional Nursing I	1 Credit
ntegration of basic sc	ience knowledge, foundation of nursing, nursing process, holistic ap rrough nursing procedures practice in the laboratory	proach, and self-care
NS 1404 Prerequisite:	Nursing Experience II NS 1313 Foundation of Professional Nursing II	1 Credit
ntegration of basic sc	ience knowledge, foundation of nursing, nursing process, holistic ap prough practicing nursing procedures in the laboratory	proach, and self-care
NS 2310	Alteration in Adult Health & Nursing I	3 Credits
Nursing management c cory system, and cardio	of adults with alterations in integumentary system, sensory system, digo avascular system, application of self-care conceptual framework, family- adults to reach the optimal level of wellness	
NS 2311	Alteration in Adult Health & Nursing II	3 Credits
ogical system, reprod	of adults with alteration in cell growth and differentiation, immune requestive system, urinary system, musculoskeletal system, endocrine symework, family-centered and holistic approaches assisting adults in re	/stem, application o
NS 2312	Gerontology Nursing	1 Credit
elderly, community hea	elderly, bio-psycho-social changes, major health problems, holistic nur Ith care resources, and end of life care, application of self-care concept proaches to assist elderly people in reaching their optimal level of wel	ual framework, family
NS 2320	Family-Centered Care for Infant, Child, and Adolescent I	2 Credits
Principles of family-cen ual framework, growth	tered care and holistic approach for infant, child, and adolescent, based and development assessment, well-baby care, minor health problem its in the hospital, family and community, including current adolescent	s and injured infants

Care for Infant, Child, and Adolescent I, Health problems of infant, child, and adolescent, nursing care for individual infant child, adolescent, and family needs based on self-care conceptual framework

NS 2322	Holistic Childbearing and Family Nursing I	3 Credits
Sociocultural aspects o family planning, infertil	f childbearing family, reproductive and sexual health, genetic and ity, growth and development of fetus, physiological and psycholog self-care during pregnancy, fetal well-being assessment, health	gical changes of pregnancy
NS 2323 Prerequisite:	Holistic Childbearing and Family Nursing II NS 2322 Holistic Childbearing and Family Nursing I	2 Credits
Factors influencing lab	or, phases, stages, and mechanism of labor, holistic nursing for what has a postpartum care, initial newborn assessment, immediate nursing	
NS 2418 Prerequisite:	Clinical Practicum for Professional Nursing Foundation NS 1307 Foundation of Professional Nursing I NS 1313 Foundation of Professional Nursing II NS 1403 Nursing Experience I NS 1404 Nursing Experience II	2 Credits
Clinical nursing experies sential nursing care to	ences in health settings, application of basic nursing knowledge meet the clients' needs, application of self- care conceptual frame ursing process, team nursing communication and documentation.	
NS 2419	Clinical Practicum in Adult Health Nursing I	2 Credits
Clinical practice in the digestive system, respi	care of adults and elderly people with alterations in integument. ratory system, and cardiovascular system by application of self- istic approaches through nursing process and comprehensive health	care conceptual framework
NE 2420	Clinical Departments Adult Haalth Manning II	
NS 2420	Clinical Practicum in Adult Health Nursing II	2 Credits
Clinical practice in the loskeletal system, imm crine regulation, the ap	care of adults and elderly people with alterations in cell growth une regulation and haematological system, reproductive system, oplication of self-care conceptual framework, family-centered and nprehensive health approach	and differentiation, muscu urinary system, and endo
Clinical practice in the loskeletal system, imm crine regulation, the ap nursing process and con NS 2422	care of adults and elderly people with alterations in cell growth une regulation and haematological system, reproductive system, oplication of self-care conceptual framework, family-centered and nprehensive health approach Holistic Childbearing & Family Nursing Practicum I	and differentiation, muscu urinary system, and endo
Clinical practice in the loskeletal system, imm crine regulation, the ap nursing process and con NS 2422 Application of holistic for uncomplicated preg ing antepartum period	care of adults and elderly people with alterations in cell growth une regulation and haematological system, reproductive system, oplication of self-care conceptual framework, family-centered and h nprehensive health approach	and differentiation, muscu urinary system, and endo holistic approaches througl 1 Credit g process in providing care g for women and fetus dur
Clinical practice in the loskeletal system, imm crine regulation, the ap nursing process and con NS 2422 Application of holistic for uncomplicated preg ing antepartum period antenatal care unit NS 2423	care of adults and elderly people with alterations in cell growth une regulation and haematological system, reproductive system, oplication of self-care conceptual framework, family-centered and I nprehensive health approach Holistic Childbearing & Family Nursing Practicum I childbearing approach, self-care conceptual framework and nursin nant women and families, health education to promote well-being , application of cognitive, affective, psychomotor skills, and critic Family-Centered Care for Infant, Child, and Adolescent Nursing Practicum I	and differentiation, muscu urinary system, and endo holistic approaches throug 1 Credit g process in providing care g for women and fetus dur al thinking in practicing in 1 Credit
Clinical practice in the loskeletal system, imm crine regulation, the ap nursing process and con NS 2422 Application of holistic for uncomplicated preg ing antepartum period antenatal care unit NS 2423 Prerequisite:	care of adults and elderly people with alterations in cell growth une regulation and haematological system, reproductive system, oplication of self-care conceptual framework, family-centered and I nprehensive health approach Holistic Childbearing & Family Nursing Practicum I 	and differentiation, muscu urinary system, and endo holistic approaches throug 1 Credit g process in providing care g for women and fetus dur al thinking in practicing in 1 Credit
Clinical practice in the loskeletal system, imm crine regulation, the ap nursing process and con NS 2422 Application of holistic for uncomplicated preg ing antepartum period antenatal care unit NS 2423 Prerequisite: Clinical nursing experior holistic approaches, an	care of adults and elderly people with alterations in cell growth une regulation and haematological system, reproductive system, oplication of self-care conceptual framework, family-centered and I nprehensive health approach Holistic Childbearing & Family Nursing Practicum I 	and differentiation, muscu urinary system, and endo holistic approaches throug 1 Credit g process in providing car g for women and fetus dur al thinking in practicing in 1 Credit t Nursing I ework, family centered and illness prevention, pediatri
Clinical practice in the loskeletal system, imm crine regulation, the ap nursing process and con NS 2422 Application of holistic for uncomplicated preg ing antepartum period antenatal care unit NS 2423 Prerequisite: Clinical nursing experior holistic approaches, an assessment, growth& de NS 3316	care of adults and elderly people with alterations in cell growth une regulation and haematological system, reproductive system, oplication of self-care conceptual framework, family-centered and I nprehensive health approach Holistic Childbearing & Family Nursing Practicum I childbearing approach, self-care conceptual framework and nursin nant women and families, health education to promote well-being , application of cognitive, affective, psychomotor skills, and critic Family-Centered Care for Infant, Child, and Adolescent Nursing Practicum I NS 2320 Family-Centered Care for Infant, Child, and Adolescen ences in healthcare setting based on self-care conceptual frame d the integrating knowledge of wellness, health promotion and evelopment and nursing process for caring infants, children, adolescen Critical care nursing	and differentiation, muscu urinary system, and endo holistic approaches throug 1 Credit g process in providing carr g for women and fetus dur al thinking in practicing in 1 Credit t Nursing I ework, family centered and illness prevention, pediatri
Clinical practice in the loskeletal system, imm crine regulation, the ap nursing process and con NS 2422 Application of holistic for uncomplicated preg ing antepartum period antenatal care unit NS 2423 Prerequisite: Clinical nursing experion holistic approaches, an assessment, growth& de NS 3316 Nursing management f burns, application of s	care of adults and elderly people with alterations in cell growth une regulation and haematological system, reproductive system, oplication of self-care conceptual framework, family-centered and I nprehensive health approach Holistic Childbearing & Family Nursing Practicum I childbearing approach, self-care conceptual framework and nursin nant women and families, health education to promote well-being , application of cognitive, affective, psychomotor skills, and critic Family-Centered Care for Infant, Child, and Adolescent Nursing Practicum I NS 2320 Family-Centered Care for Infant, Child, and Adolescen ences in healthcare setting based on self-care conceptual frame d the integrating knowledge of wellness, health promotion and evelopment and nursing process for caring infants, children, adolescen	and differentiation, muscu urinary system, and endo holistic approaches through 1 Credit g process in providing card g for women and fetus dur al thinking in practicing in 1 Credit the Nursing I ework, family centered and illness prevention, pediatri- its and their families. 2 Credits tions, neurological problem

Theoretical perspectives, scientific knowledge, and principles of psychiatric nursing, nursing process and self-care conceptual framework in nursing management for individuals, families, and communities with physical and mental disorders, nursing care plan and nursing intervention for mental health promotion, maintenance, and restoration

NS 3323	Community Focused Nursing I	2 Credits
Concepts and evolutio system including conce	n of community health nursing, roles and functions of community heal ept of primary health care and quality of life, health care reform, nationa Ith policy, health economics and national health insurance system, envi ealth problems.	I health development
NS 3324	Disaster Nursing	1 Credit
Disaster situation, class	ssification and phase of disaster occurrence, disaster preparedness, o in disaster site, local and international resources for disaster responses and	
NS 3325 Prerequisite:	Holistic Childbearing and Family Nursing III NS 2323 Holistic Childbearing and Family Nursing II	3 Credits
Identification of high ri antepartum, intrapartu	isk in childbearing, pregnancy loss and grief, holistic nursing for women m, and postpartum or for women with obstetric maneuver including hol orn, neonatal resuscitation, and ethical issues in maternity nursing	
NS 3326 Prerequisite:	Nursing Inquiry I BG 1301 Fundamentals of Statistics	2 Credits
Principles of research	methodology, conceptualization and exploration of the nursing profess ng inquiry, and writing research proposals derived from nursing and health	
NS 3400 Prerequisite:	Mental Health and Psychiatric Nursing Practicum NS 3322 Bio-Behavioral Psychiatric Nursing	2 Credits
Integration of theory at tion, intervention in m	nd clinical practice in health care settings, promotion of mental health thr naladaptive behaviors, and rehabilitation of chronic disorders for individ e nursing process and self-care conceptual framework in care management	
NS 3401 Prerequisite:	Nursing Inquiry II NS 3326 Nursing Inquiry I	1 Credits
	rsearch including data management, data analysis, discussion of researc ces	h findings and impli-
NS 3422 Prerequisite:	Holistic Childbearing & Family Nursing Practicum III NS 3425 Holistic Childbearing and Family Nursing Practicum II	2 Credits
Application of holistic pregnant women durin for women and newbo	childbearing approach, self-care conceptual framework and nursing ng antepartum, intrapartum and postpartum periods, health education t orn with complication, application of cognitive, affective, psychomotor sk enatal care, labor room, and postpartum units.	o promote well-being
NS 3423	Family-Centered Care for Infant, Child, and	2 credits
Prerequisite:	Adolescent Nursing Practicum II NS 2321 Family-Centered Care for Infant, Child, and Adolescent II NS 2423 Family-Centered Care for Infant, Child, and Adolescent Nursing Practicum I	2 Cleans
	approach and family-centered care for infant, child and adolescent nursi , nursing process and knowledge of illness in clinical nursing practice to	<b>U</b>
NS 3424	Critical Care Nursing Practicum	2 Credits
Clinical practice in cari	ng clients with critical health problems, traumatic or emergency situatio	ns, neurological prob-

Clinical practice in caring clients with critical health problems, traumatic or emergency situations, neurological problems and burns, application of self-care conceptual framework, palliative care, family-centered and holistic approaches through nursing process and comprehensive health approach

Prerequisite:	Holistic Childbearing and Family Nursing Practicum II NS 2422 Holistic Childbearing and Family Nursing Practicum I	2 Credits
Application of holisti during intrapartum a	c childbearing approach, self-care conceptual framework for uncomp nd postpartum period, health education to promote well-being for wor of cognitive, affective, psychomotor skills, and critical thinking in prac	men and newborn, family
NS 4308	Nursing Leadership and Management	3 Credits
Contemporary roles i sion making process quality management,	equired in nursing administration and team nursing, organizational st , human resource management, financial management including co hospital accreditation, risk management, patient safety goals, quality formatics in management	ost effectiveness analysis
NS 4320 Prerequisite:	Community Focused Nursing II NS 3323 Community Focused Nursing I	3 Credits
Concepts of family a munity as partner, c	s client, family health, family nursing process and home visit, epidem ommunity health study process, health education, home health car ealth, international health and public health laws and regulations.	
NS 4322 Prerequisite:	Professional Socialization II NS 1310 Professional Socialization I	2 Credits
Seminar on challeng	es and trends in nursing profession, analysis of current situations in and social issues influencing nursing profession, nursing image, nursir ynamic global society	
	THE STATE AND A STATE	2 Credits
NS 4323 Prerequisite:		
Prerequisite: Progressive physical ferential diagnosis, p		nent tation of the results, dif
Prerequisite: Progressive physical ferential diagnosis, p tion according to the P NS 4325	NS 1311 Scientific Nursing Approach and Holistic Health Assess and mental health assessment, laboratory investigations and interpret imary medical treatment and nursing care, minor surgery, common c	nent tation of the results, dif
Prerequisite: Progressive physical ferential diagnosis, p tion according to the f NS 4325 Prerequisite: Essence of nursing in issues of utilities nur	NS 1311 Scientific Nursing Approach and Holistic Health Assessm and mental health assessment, laboratory investigations and interpret rimary medical treatment and nursing care, minor surgery, common co Professional Nursing Acts, and referral system Nursing Informatics	nent tation of the results, dif drug usage and prescrip 1 Credit ealth and consumer, the and research, compute
Prerequisite: Progressive physical ferential diagnosis, p tion according to the f NS 4325 Prerequisite: Essence of nursing in issues of utilities nur	NS 1311 Scientific Nursing Approach and Holistic Health Assess and mental health assessment, laboratory investigations and interpret rimary medical treatment and nursing care, minor surgery, common of Professional Nursing Acts, and referral system Nursing Informatics BG 2301 Information Technology for Nurses	nent tation of the results, dif drug usage and prescrip 1 Credit ealth and consumer, the and research, compute
Prerequisite: Progressive physical ferential diagnosis, pi tion according to the f NS 4325 Prerequisite: Essence of nursing in issues of utilities nur based patient record, i NS 4413 Prerequisite: Clinical practice in r total quality manage	NS 1311 Scientific Nursing Approach and Holistic Health Assess and mental health assessment, laboratory investigations and interpret imary medical treatment and nursing care, minor surgery, common of Professional Nursing Acts, and referral system Nursing Informatics BG 2301 Information Technology for Nurses formatics, the current information technology applicable to global h rsing informatics in clinical management, administration, education, and hands-on experience with nursing informatics system of health care se Nursing Leadership and Management Practicum	nent tation of the results, dif drug usage and prescrip 1 Credit ealth and consumer, the and research, compute etting. 2 Credits pontrol, risk management aking in incident analysis
Prerequisite: Progressive physical ferential diagnosis, pi tion according to the P NS 4325 Prerequisite: Essence of nursing in issues of utilities nur based patient record, i NS 4413 Prerequisite: Clinical practice in r total quality manage and development of	NS 1311 Scientific Nursing Approach and Holistic Health Assess and mental health assessment, laboratory investigations and interpret imary medical treatment and nursing care, minor surgery, common of Professional Nursing Acts, and referral system Nursing Informatics BG 2301 Information Technology for Nurses formatics, the current information technology applicable to global h rsing informatics in clinical management, administration, education, and hands-on experience with nursing informatics system of health care se Nursing Leadership and Management Practicum NS 4308 Nursing Leadership and Management ursing service management and quality health team, infectious coment; leadership, team participation, problem solving and decision ma	nent tation of the results, dif drug usage and prescrip 1 Credit ealth and consumer, the and research, compute etting. 2 Credits pontrol, risk management aking in incident analysis
Prerequisite: Progressive physical ferential diagnosis, pi tion according to the f NS 4325 Prerequisite: Essence of nursing in issues of utilities nur based patient record, i NS 4413 Prerequisite: Clinical practice in r total quality manage and development of management NS 4417 Prerequisite: Application of theore various groups of peo- tice with interdisciplir	NS 1311 Scientific Nursing Approach and Holistic Health Assessment, laboratory investigations and interpret imary medical treatment and nursing care, minor surgery, common of Professional Nursing Acts, and referral system Nursing Informatics BG 2301 Information Technology for Nurses Informatics, the current information technology applicable to global h rsing informatics in clinical management, administration, education, and hands-on experience with nursing informatics system of health care se Nursing Leadership and Management Practicum NS 4308 Nursing Leadership and Management inursing service management and quality health team, infectious coment; leadership, team participation, problem solving and decision ma continuous quality improvement project including application of nursi Community Focused Nursing Practicum NS 4320 Community Focused Nursing II	nent tation of the results, dif- drug usage and prescrip- 1 Credit ealth and consumer, the and research, computer etting. 2 Credits ontrol, risk management aking in incident analysis ng informatics in nursing 3 Credits vith individual, family and and long term care, prac- cople, using the complete

Clinical practice in core competency and roles of nurses in progressive health assessment, clinical practice of history taking, lab investigation and interpretation of the results, differential diagnosis, primary medical treatment, prevention, health promotion and referral skills for proper management according to the Professional Nursing Acts

NS 4419 Prerequisite:	Comprehensive Nursing Practicum All nursing courses must be completed	2 Credits
Comprehensive clinical	experiences in healthcare settings based on the selected area c nployment for local and international health care services	f students' interests, prepa-
PC 3301 Prerequisites:	Art and Literature Appreciation CA 1001 Introduction to Communication CA 2015 Introduction to Performance Communication	3 Credits
	artistic styles, visual elements, performing arts, entertainment	media, literature, fine arts
PC 3302 Prerequisites:	Principles of Performance Design CA 1001 Introduction to Communication CA 2015 Introduction to Performance Communication	3 Credits
Basic elements of arts a color, pattern, texture,	and design in performance, basic designing such as point, line, fo balance, proportion, rhythm, emphasis, unity including the basi ner working in costume, scenic, lighting design as well as unity	c sketch design, conveying
PC 3303	Performance Communication on Popular Culture	3 Credits
nterdisciplinary approa	ch to the study of popular culture, characteristics of popular cult formance communication, forms in relation to the artistic, historic, ay dance, and fashion.	
	Event Strategic Planning	3 Credits
Concept and major role and legal contexts of ev	Event Strategic Planning e of events in the market place, key elements in planning and m vents, significance of marketing, sponsorship and promotion of ev cluding health and safety aspects.	anaging an event, financia
Concept and major role and legal contexts of ex production processes, in PC 3305 Prerequisites:	e of events in the market place, key elements in planning and m vents, significance of marketing, sponsorship and promotion of ev cluding health and safety aspects. Script Writing and Analysis CA 1001 Introduction to Communication CA 2015 Introduction to Performance Communication	anaging an event, financia
Concept and major role and legal contexts of evo production processes, in PC 3305 Prerequisites: Principles of storytelling as creating characters, of critical analysis of script	e of events in the market place, key elements in planning and m vents, significance of marketing, sponsorship and promotion of ev cluding health and safety aspects. Script Writing and Analysis CA 1001 Introduction to Communication	anaging an event, financia ents, on-site operations and 3 Credits eme, plot and story as wel er's actions to tell the story
Concept and major role and legal contexts of evo production processes, in C 3305 Prerequisites: Principles of storytelling is creating characters, of ritical analysis of script tory-teller, actor, directo	e of events in the market place, key elements in planning and m vents, significance of marketing, sponsorship and promotion of ev cluding health and safety aspects. Script Writing and Analysis CA 1001 Introduction to Communication CA 2015 Introduction to Performance Communication of performance, elements of script and story-telling, creating th creating conflicts for continuity story, use of dramatic and charact t structure, genre, theme, style, sub-text meaning, dramatic even	anaging an event, financia ents, on-site operations and 3 Credits eme, plot and story as wel er's actions to tell the story
Concept and major role and legal contexts of ex- production processes, in PC 3305 Prerequisites: Principles of storytelling as creating characters, of critical analysis of script tory-teller, actor, directo PC 3306 Prerequisite: Marketing for performan	e of events in the market place, key elements in planning and m vents, significance of marketing, sponsorship and promotion of ev cluding health and safety aspects. Script Writing and Analysis CA 1001 Introduction to Communication CA 2015 Introduction to Performance Communication of performance, elements of script and story-telling, creating the creating conflicts for continuity story, use of dramatic and charact t structure, genre, theme, style, sub-text meaning, dramatic even or, designer, and audience including critique writing. Marketing Management for Performance Project	anaging an event, financia ents, on-site operations and 3 Credits eme, plot and story as wel er's actions to tell the story t, and point of view of the 3 Credits
Concept and major role and legal contexts of ex- production processes, in PC 3305 Prerequisites: Principles of storytelling as creating characters, of critical analysis of scrip tory-teller, actor, directo PC 3306 Prerequisite: Marketing for performan ng/ PR plan and develop PC 3307 Prerequisites:	e of events in the market place, key elements in planning and m vents, significance of marketing, sponsorship and promotion of ev cluding health and safety aspects. Script Writing and Analysis CA 1001 Introduction to Communication CA 2015 Introduction to Performance Communication g for performance, elements of script and story-telling, creating th creating conflicts for continuity story, use of dramatic and charact t structure, genre, theme, style, sub-text meaning, dramatic even or, designer, and audience including critique writing. Marketing Management for Performance Project AD 3101 Principles of Marketing Communication mce, principles of financial and budgeting management, writing a bing communication plan for marketing and evaluation. Visualization of Stage/ Event CA 2015 Introduction to Performance Communication PC 3301 Art and Literature Appreciation	anaging an event, financia ents, on-site operations and 3 Credits eme, plot and story as wel er's actions to tell the story t, and point of view of the 3 Credits
Concept and major role and legal contexts of ex- production processes, in PC 3305 Prerequisites: Principles of storytelling as creating characters, of critical analysis of scripi story-teller, actor, directo PC 3306 Prerequisite: Marketing for performan ng/ PR plan and develop PC 3307 Prerequisites: Principles of visualizatio concept of scenery, pro	e of events in the market place, key elements in planning and m vents, significance of marketing, sponsorship and promotion of ev cluding health and safety aspects. Script Writing and Analysis CA 1001 Introduction to Communication CA 2015 Introduction to Performance Communication g for performance, elements of script and story-telling, creating th creating conflicts for continuity story, use of dramatic and charact t structure, genre, theme, style, sub-text meaning, dramatic even or, designer, and audience including critique writing. Marketing Management for Performance Project AD 3101 Principles of Marketing Communication mee, principles of financial and budgeting management, writing a ping communication plan for marketing and evaluation. Visualization of Stage/ Event CA 2015 Introduction to Performance Communication	anaging an event, financia ents, on-site operations and 3 Credits eme, plot and story as wel er's actions to tell the story t, and point of view of the 3 Credits proposal, setting up market 3 Credits tion elements, basic desigr
Concept and major role and legal contexts of ev production processes, in PC 3305 Prerequisites: Principles of storytelling as creating characters, of critical analysis of scrip story-teller, actor, directo PC 3306 Prerequisite: Marketing for performan ing/ PR plan and develop PC 3307 Prerequisites: Principles of visualizatio concept of scenery, pro	e of events in the market place, key elements in planning and m vents, significance of marketing, sponsorship and promotion of ev cluding health and safety aspects. Script Writing and Analysis CA 1001 Introduction to Communication CA 2015 Introduction to Performance Communication g for performance, elements of script and story-telling, creating th creating conflicts for continuity story, use of dramatic and charact t structure, genre, theme, style, sub-text meaning, dramatic even or, designer, and audience including critique writing. Marketing Management for Performance Project AD 3101 Principles of Marketing Communication ce, principles of financial and budgeting management, writing a ping communication plan for marketing and evaluation. Visualization of Stage/ Event CA 2015 Introduction to Performance Communication PC 3301 Art and Literature Appreciation on on stage/event, function, consistency of performance visualiza p. costume and lighting, introduction to performance / event art	anaging an event, financia ents, on-site operations and 3 Credits eme, plot and story as wel er's actions to tell the story t, and point of view of the 3 Credits proposal, setting up market- 3 Credits tion elements, basic design

PC 3320 Prerequisite:	Script Writing and Adaptation in Thai PC 3305 Script Writing and Analysis	3 Credits
Script writing in advar	nced, selecting story for script adaptation, dimensions and persp ourpose, revising script in Thai for theatre, film and TV.	ectives for adaptation, script
PC 3321 Prerequisite:	Script Writing and Adaptation in English PC 3305 Script Writing and Analysis	3 Credits
Script writing in advar	nced, selecting story for script adaptation, dimensions and persp purpose, revising script in English for theatre, film and TV.	ectives for adaptation, script
PC 3322 Prerequisite:	Acting for Personality/ Social Interaction CA 1001 Introduction to Communication	3 Credits
Acting Adaptation for analysis, human natur	r personality development, mental and physical preparation, s e, human perception, law of attraction, self –esteem, self-confic olic speaking, wardrobe and make-up for different occasions.	
PC 3323	Fundamentals of Acting	3 Credits
Prerequisite:	CA 2015 Introduction to Performance Communication	
ing communication, p performance, imagina	nding the relation between vocal and physical expression for polysical and vocal preparation, relaxation, concentration, body tion, emotion, creating character, character interpretation, creating for play, improvisation skill, scene interpretation, and integration	movement, space usage for ative movement, awareness,
PC 3324 Prerequisite:	Sound for Performance/ Event CA 2015 Introduction to Performance Communication	3 Credits
Prerequisite: Basic sound utilizatior cation, sound acoustic (Miking), sound selecti		principles of sound classifi- ophone allocation technique
Prerequisite: Basic sound utilizatior cation, sound acoustic (Miking), sound selecti down processes, and re PC 3326	CA 2015 Introduction to Performance Communication and sound management for performance/ event production, c, influence conditions of sound quality, sound equipment, micr ion, sound creation, dubbing, sound effect for live performance/ esponsibility of sound function in performance/ event production. Production and Event Technology	principles of sound classifi- ophone allocation technique
Prerequisite: Basic sound utilizatior cation, sound acoustic (Miking), sound selecti down processes, and re PC 3326 Function and influence and development of ti gration of technologie	CA 2015 Introduction to Performance Communication and sound management for performance/ event production, c, influence conditions of sound quality, sound equipment, micr ion, sound creation, dubbing, sound effect for live performance/ esponsibility of sound function in performance/ event production.	principles of sound classifi- ophone allocation technique event, basic recording, mixing 3 Credits specific performances, history phologies, selection and inte-
Prerequisite: Basic sound utilizatior cation, sound acoustic (Miking), sound selecti down processes, and re PC 3326 Function and influence and development of ti gration of technologie	CA 2015 Introduction to Performance Communication n and sound management for performance/ event production, c, influence conditions of sound quality, sound equipment, micr ion, sound creation, dubbing, sound effect for live performance/ esponsibility of sound function in performance/ event production. Production and Event Technology e of technologies on stage, screen, gallery installation and site s he use of technologies in live event, aesthetic and artistic in tech aesthetically, failure of technologies and systems usage in pro	principles of sound classifi- ophone allocation technique event, basic recording, mixing 3 Credits specific performances, history phologies, selection and inte-
Prerequisite: Basic sound utilizatior cation, sound acoustic (Miking), sound selecti down processes, and re PC 3326 Function and influence and development of ti gration of technologies terms of technologies a PC 4303 Aesthetic of cross-cult include geography, his ethnographic approact	CA 2015 Introduction to Performance Communication  an and sound management for performance/ event production, c, influence conditions of sound quality, sound equipment, micr ion, sound creation, dubbing, sound effect for live performance/ esponsibility of sound function in performance/ event production.  Production and Event Technology  e of technologies on stage, screen, gallery installation and site s he use of technologies in live event, aesthetic and artistic in tech as aesthetically, failure of technologies and systems usage in pro and systems in production and event.  Cross-Cultural Performance Communication  tural performing arts, contextually influential factors in cross-cultur story, identity, culture, tradition, etiquette, beliefs both in general h of studying cross-cultural performing arts, selected cross-cultur	principles of sound classifi- ophone allocation technique event, basic recording, mixing 3 Credits pecific performances, history nologies, selection and inte- duction and event, technical 3 Credits Itural performing arts which ized and individualized level, ral performing arts especially
Prerequisite: Basic sound utilizatior cation, sound acoustic (Miking), sound selecti down processes, and re PC 3326 Function and influence and development of ti gration of technologies a PC 4303 Aesthetic of cross-cult include geography, his ethnographic approacl in major movements i influences on global co PC 4306 Prerequisite:	CA 2015 Introduction to Performance Communication  an and sound management for performance/ event production, c, influence conditions of sound quality, sound equipment, micr ion, sound creation, dubbing, sound effect for live performance/ esponsibility of sound function in performance/ event production.  Production and Event Technology  e of technologies on stage, screen, gallery installation and site s he use of technologies in live event, aesthetic and artistic in tech es aesthetically, failure of technologies and systems usage in pro and systems in production and event.  Cross-Cultural Performance Communication  tural performing arts, contextually influential factors in cross-cultur story, identity, culture, tradition, etiquette, beliefs both in general h of studying cross-cultural performing arts, selected cross-cultur Stage/Event Management CA 2015 Introduction to Performance Communication	principles of sound classifi- ophone allocation technique event, basic recording, mixing 3 Credits pecific performances, history nologies, selection and inte- duction and event, technical 3 Credits Itural performing arts which ized and individualized level, ral performing arts especially
Prerequisite: Basic sound utilizatior cation, sound acoustic (Miking), sound selecti down processes, and re PC 3326 Function and influence and development of ti gration of technologies a PC 4303 Aesthetic of cross-cult include geography, his ethnographic approacl in major movements i influences on global co PC 4306 Prerequisite: Stage/event managem from pre-production to	CA 2015 Introduction to Performance Communication  an and sound management for performance/ event production, c, influence conditions of sound quality, sound equipment, micr ion, sound creation, dubbing, sound effect for live performance/ esponsibility of sound function in performance/ event production.  Production and Event Technology  e of technologies on stage, screen, gallery installation and site s he use of technologies in live event, aesthetic and artistic in tech es aesthetically, failure of technologies and systems usage in pro and systems in production and event.  Cross-Cultural Performance Communication  tural performing arts, contextually influential factors in cross-cul story, identity, culture, tradition, etiquette, beliefs both in general h of studying cross-cultural performing arts, selected cross-cultur n East Asian Culture, mainly Chinese, Korean and Japanese, whic mmunity.  Stage/Event Management	principles of sound classifi- ophone allocation technique event, basic recording, mixing 3 Credits specific performances, history nologies, selection and inte- duction and event, technical 3 Credits Itural performing arts which ized and individualized level, ral performing arts especially h have internationally strong 3 Credits credits

Pre-production process of performance production, production planning, budgeting /financial plan, script preparation, script interpretation, marketing and PR plan, directing preparation, audition process, and research in theatrical design in properties, scenic, costume, light and sound.

PC 4309 Prerequisites:	Performance Communication Workshop II PC 4306 Stage/Event Management PC 4308 Performance Communication Workshop I	3 Credits
Production process of present, directing, reheat	performance production, financial/ budgeting control, marketing/ F rsal process, operating in lighting and sound creation, creating s management, technical run-through, dress rehearsal, opening show cess.	scenic, properties, costume
PC 4310 Prerequisite:	Seminar in Performance Communication PC 4305 Marketing Management for Performance	3 Credits
Performance communic art and therapy, perfor	cation in varieties of different styles, problems in cultural and socia mance communication role and society, performance role for prop tive community, theatre management in commercial production,	aganda, performance com
PC 4311 Prerequisite:	Production Management for Performance PC 4305 Marketing Management for Performance	3 Credits
Managing performance chart, managing man	e/event production, type of performing arts organizations, product power and duty, financial and accounting, administrative function, / responsibilities, producing for commercial performance, legal an	, managing the production
PC 4315 Prerequisite:	Fundamentals of Lighting CA 2015 Introduction to Performance Communication	3 Credits
History of stage lighting electricity for lighting, l	g , production process of lighting function, lighting instrument and e ighting plan, lighting cue, script analysis for lighting design, lightin tage lighting, rhythm and emotion creativity with lighting.	
PC 4316 Prerequisites:	Directing PC 3307 Visualization of Stage/ Event PC 3323 Fundamentals of Acting	3 Credits
Basic directing, process	s of directing in performance, responsibility of directing function, design, director's design concept, rehearsal process, conveying the analysis.	
PC 4319	Cultural Event and Festival Management	3 Credits
Arts and culture festiva level, process of reseau	al management around the world, foundation of cultural events and reching and planning, skill of combination of creativity and manag etation of arts and culture festival programs.	
PC 4325 Prerequisites:	Costume and Make-up Selection PC 3302 Principles of Performance Design PC 3307 Visualization of Stage/ Event	3 Credits
performance, time and	make up for performance, usage of costume, concept of costume space for appropriate selection, history of costumes, definition of ocess of costume design and selection, and straight make-up and fan	costume, types of costume
PC 4326 Prerequisites:	Scenery and Prop Creation PC 3302 Principles of Performance Design PC 3307 Visualization of Stage/ Event	3 Credits
design document, con	property in performance/ event, space utilization, scenery and pro cept of scenery and prop, form and style of scenery, idea and d s for scene and prop creation and basic scene craft workshop.	

PC 4327 Prerequisite:	Selected Topics in Performance Communication CA 2015 Introduction to Performance Communication	3 Credits
Performance communication performance communication i	development in social context, performance communication effect or p n society, culture and people.	phenomenon of
PD 1301	Technical Drawing	3 Credits
	used by product designers such as orthographic projection, exploded ade and shadow application.	view drawing,
PD 1302	Design Principles	3 Credits
Design principles that focus of	on basic understanding of the interrelationship between form and functi designs. The principles include: Additive Design, Integrative Design, I c Design.	
PD 1303	Computer Applications for Product Design	3 Credits
	er applications in the context of three dimensional design and the opport o the area of study.	unity to explore
PD 2201	Product Design I	6 Credits
Introduction to the role of c relationship between function	designed objects in our everyday experience with emphasis on the ur ns, aesthetic, and human needs and behavior through basic surveys a prresponding object-oriented projects.	
PD 2202 Prerequisite:	Product Design II PD 2201 Product Design I	6 Credits
Concept of OBJECT to OBJE	CT and OBJECT to its ENVIRONMENT relationship, which include aesthen environment, spatial requirement, and problem solving through corresp	
PD 2301	Model Making	3 Credits
Tools, techniques, and materi	als used in the production of both study and prototype models with en- and plastics, including casting/molding techniques explored through a	
PD 2302	History of Arts and Design	3 Credits
Chronological study of art an	d design throughout history from a range of places, time and culture the of art and design works in order for students to be imbued in the valuab	
PD 2303	History of Product Design	3 Credits
on design movements that c	ough the development of product design of the 19th and the 20th centu ontributed to global design development, from pre-modern to modern ive ideas and philosophical concepts within given cultural and political cont	to postmodern
PD 3201 Prerequisite:	Product Design III PD 2202 Product Design II	6 Credits
OBJECT to PERSON relation	ship through user-oriented projects with emphasis on human factor design, ecological issues, product semantics, team-based milieu res ic values.	
PD 3202 Prerequisite:	Product Design IV PD 3201 Product Design III	6 Credits
Most complex level of prod-	uct decigning simple at developing a conce of understanding in the O	

Most complex level of product designing aimed at developing a sense of understanding in the OBJECT to ECOL-OGY relationship based on prominent ecological theories and system design for sustainability such as Design for Sufficient Economy and Doi Tung SALD through object-oriented projects with emphasis on sustainable design.

	Material and Manufacturing Processes I	3 Credits
Material properties	and manufacturing processes focusing on paper, wood, and meta Il manufacturing facilities to gain firsthand experience of the manufactu	
PD 3302	Material and Production Processes II	3 Credits
Material properties composite materials	and manufacturing processes, focusing primarily on plastics, fibe s covered through lectures and field trips to local manufacturing f anufacturing processes.	
PD 3303 Prerequisite:	Product Design and Marketing Principles MGT 1101 Introduction to Business	3 Credits
Basic principles of r policies, price policie	marketing involved in product development cycle, which include es, sales promotion policies, and improvement of marketing efficier is and projects from design strategic planning to design implementa my Company.	ncy through trans-disciplinary
PD 3304 Prerequisite:	Product Design and Marketing Communications PD 2205 Product Design and Marketing Principles	3 Credits
Introduction to mark advertising, sales pr	keting communication elements related to building and maintaining c romotion, public relations, personal selling, event sponsorships, ar tanding of product designer's role, contribution and involvement in pro	nd direct marketing in order
PD 3305	Practicum in Product Design	2 Credits
A 240 working hour	r of professional training in product design industry to expose stude wledge in the real business world.	
PD 3401	User Interface Design	3 Credits
Principles of user in	nterface design applicable in graphical environment, command-line, vide an understanding of how to communicate effectively with user	, as well as product applica-
products.		
products. PD 3402	Graphic and Packaging Design	3 Credits
products. PD 3402 Packaging design th ing innovative packa	Graphic and Packaging Design hat integrates marketing, graphical and three-dimensional design k aging for different kinds of product ranging from food and beverage, ucts with emphasis on product branding.	nowledge essential in creat-
products. PD 3402 Packaging design th ing innovative packa	hat integrates marketing, graphical and three-dimensional design k aging for different kinds of product ranging from food and beverage,	nowledge essential in creat-
products. PD 3402 Packaging design th ing innovative packa toys and home produ PD 3403 Unique expressions experiences through	hat integrates marketing, graphical and three-dimensional design k aging for different kinds of product ranging from food and beverage, ucts with emphasis on product branding.	nowledge essential in creat- , beauty and personal care to 3 Credits
products. PD 3402 Packaging design thing innovative packatoys and home productorys and home p	hat integrates marketing, graphical and three-dimensional design k aging for different kinds of product ranging from food and beverage, ucts with emphasis on product branding. Experience Design for Exhibitions of content in exhibition design such as storytelling and the use of h immersive experience which persuades, simulates, informs, enter Fashion and Textile Design	nowledge essential in creat- , beauty and personal care to 3 Credits
products. PD 3402 Packaging design thing innovative packatorys and home productorys and home	hat integrates marketing, graphical and three-dimensional design k aging for different kinds of product ranging from food and beverage, ucts with emphasis on product branding. Experience Design for Exhibitions of content in exhibition design such as storytelling and the use of h immersive experience which persuades, simulates, informs, enter	snowledge essential in creat- , beauty and personal care to 3 Credits f media to create meaningful ertains, as well as influences 3 Credits sing, pattern cutting, sewing,
products. PD 3402 Packaging design thing innovative packatoys and home productorys and home productory	hat integrates marketing, graphical and three-dimensional design k aging for different kinds of product ranging from food and beverage, ucts with emphasis on product branding. Experience Design for Exhibitions of content in exhibition design such as storytelling and the use of h immersive experience which persuades, simulates, informs, enter Fashion and Textile Design n emphasis on basic skills of fashion design practice such as drap ng with comprehensive approach to conceptual design and interdiscipl Jewelry Design	snowledge essential in creat- , beauty and personal care to 3 Credits f media to create meaningful ertains, as well as influences 3 Credits sing, pattern cutting, sewing,
products. PD 3402 Packaging design thing innovative packatorys and home productorys and home productory and home productory and home productory and home productory and home productorys and home productory and home product	hat integrates marketing, graphical and three-dimensional design k aging for different kinds of product ranging from food and beverage, ucts with emphasis on product branding. Experience Design for Exhibitions of content in exhibition design such as storytelling and the use of h immersive experience which persuades, simulates, informs, ente Fashion and Textile Design n emphasis on basic skills of fashion design practice such as drap ng with comprehensive approach to conceptual design and interdiscipl Jewelry Design	snowledge essential in creat- , beauty and personal care to 3 Credits f media to create meaningful ertains, as well as influences 3 Credits bing, pattern cutting, sewing, inary thinking. 3 Credits

Prerequisite:	Product Design V PD 3202 Product Design IV	6 Credits	PR 3215 Prerequisites:	Writing for Public Relations in English BG 2001 English IV CA 2005 Introduction to Public Relations	3 Credits
	to-PERSON relationship especially among products, social interact branding, marketing communication, and product design for manu		media advisories, pit	ng for diverse audiences using a variety of formats such as new ch letters, brochures/posters, speeches and newsletters. Students ons materials by reviewing good writing principles. This course wi	will be assigned to creat
PD 4202 Prerequisite:	Senior Project PD 4201 Product Design V	6 Credits	of instruction.		
	approved project with appropriate complexity level that can reflect u ion of product design.	understanding of theoretical	PR 3216 Prerequisites:	Writing for Public Relations in Thai GE 1403 Communication in Thai CA 2005 Introduction to Public Relations	3 Credits
D 4301	Individual Study in Product Design	3 Credits		ng for diverse audiences using a variety of formats such as new ch letters, brochures/posters, speeches and newsletters. Students	
opportunity in pursui n advisor.	ing individual interest pertaining to Product Design through researc	ch under the supervision of		ons materials by reviewing good writing principles. This course wi	
D 4302	Design in Emerging Market	3 Credits	PR 3217 Prerequisites:	Desktop Publishing/ Presentation Graphics CA 2005 Introduction to Public Relations	3 Credits
acy, manufacturing	igate through emerging markets, which are characterized by immat technology, and environmental policies and regulations through exp			CA 2013 Utilization of Multimedia Tools	
lobal product design D 4303	emerging market conditions and contingencies. Professional Ethics	3 Credits		relations tools and techniques, especially, desktop publishing and over the produce pamphlets, brochures, newsletters and other publications of the publication of th	
ire, and profession;	rofessionals in the product design industry: designing to benefit cli intellectual property rights (IPR) essentials: intellectual property law		PR 3218 Prerequisite:	Special Events Management for Public Relations CA 2005 Introduction to Public Relations	3 Credits
opyright ownership a	nd incentives, permitted acts, and enforcement of copyright.		••••••••••••••••••••••••••••		
PR 3202	Strategic Public Relations Campaign Planning and Evaluation	3 Credits		organize special events such as seminar, exhibition, show, contest arranging everything from budgeting, sponsorship, formalities to a post event activities.	
R 3202 rerequisite: trategic public relati	Strategic Public Relations Campaign Planning and Evaluation CA 2005 Introduction to Public Relations ons planning through the development of the public relations car rposes including the evaluation strategies.		concept to planning,	arranging everything from budgeting, sponsorship, formalities to a	
R 3202 rerequisite: trategic public relati political, and other pur R 3204	CA 2005 Introduction to Public Relations ons planning through the development of the public relations car		concept to planning, ents, accounting and p PR 3224 Prerequisites: Procedures and proc planning, including c	arranging everything from budgeting, sponsorship, formalities to a bost event activities. Applied Research for Public Relations CA 2005 Introduction to Public Relations CA 3011 Communication Arts Research esses of qualitative and quantitative researches that are common ontent analyses, public opinion surveys, focus groups, in-depth ir	Il the components/ ingred 3 Credits Ily used in Public Relatior iterviews, and observation
R 3202 rerequisite: trategic public relati olitical, and other pur R 3204 rerequisite: trategies and implen nd efficiently use pu	CA 2005 Introduction to Public Relations ons planning through the development of the public relations car rposes including the evaluation strategies. Marketing Public Relations	mpaign for business, social, 3 Credits 5, how marketers effectively	concept to planning, ents, accounting and p PR 3224 Prerequisites: Procedures and proc planning, including c	arranging everything from budgeting, sponsorship, formalities to a bost event activities. Applied Research for Public Relations CA 2005 Introduction to Public Relations CA 3011 Communication Arts Research esses of qualitative and quantitative researches that are common	Il the components/ ingred 3 Credits Ily used in Public Relatior iterviews, and observation
PR 3202 Prerequisite: Strategic public relati political, and other pur PR 3204 Prerequisite: Strategies and implen and efficiently use pu	CA 2005 Introduction to Public Relations ons planning through the development of the public relations car rposes including the evaluation strategies. Marketing Public Relations CA 2005 Introduction to Public Relations mentations of public relations to attain various marketing objectives ublic relations in marketing communication campaign to build bran	mpaign for business, social, 3 Credits 5, how marketers effectively	concept to planning, ents, accounting and p PR 3224 Prerequisites:  Procedures and proc planning, including o Students will be assign PR 3225 Prerequisite:  Concepts, principles, appropriate authentic cial communication ti	arranging everything from budgeting, sponsorship, formalities to a bost event activities. Applied Research for Public Relations CA 2005 Introduction to Public Relations CA 3011 Communication Arts Research esses of qualitative and quantitative researches that are common ontent analyses, public opinion surveys, focus groups, in-depth ir ted to conduct a primary research using the aforementioned methodol Personality Development and Personal Branding	II the components/ ingred 3 Credits Iy used in Public Relation iterviews, and observation ogies. 3 Credits ent and personal branding up, hairstyling, dressing, so
PR 3202 Prerequisite: Strategic public relati political, and other pur PR 3204 Prerequisite: Strategies and implen and efficiently use pu consumers and gain co PR 3210 Prerequisites: Principles and practic cess, including develop	CA 2005 Introduction to Public Relations ons planning through the development of the public relations car rposes including the evaluation strategies. Marketing Public Relations CA 2005 Introduction to Public Relations mentations of public relations to attain various marketing objectives ublic relations in marketing communication campaign to build bran competitive advantage in the marketplace. Negotiations CA 1001 Introduction to Communication CA 2016 Psychology for Persuasive Communication es of negotiation, impact of verbal and non-verbal communication comment of skills in managing with the conflict resolutions and maintainin	mpaign for business, social, 3 Credits 5, how marketers effectively nd, win acceptances among 3 Credits upon the negotiating pro- ng business relations.	concept to planning, ents, accounting and p PR 3224 Prerequisites:  Procedures and proc planning, including o Students will be assign PR 3225 Prerequisite:  Concepts, principles, appropriate authentic cial communication ti	arranging everything from budgeting, sponsorship, formalities to a bost event activities. Applied Research for Public Relations CA 2005 Introduction to Public Relations CA 3011 Communication Arts Research esses of qualitative and quantitative researches that are common ontent analyses, public opinion surveys, focus groups, in-depth ir need to conduct a primary research using the aforementioned methodol Personality Development and Personal Branding CA 2005 Introduction to Public Relations and techniques of personality development, impression managem eself-presentation, improvement of external image such as make- hrough social events such as host or guest and preparing for med hem to create an image or brand for themselves as well as celebrities. Media Relations and Planning CA 2005 Introduction to Public Relations	II the components/ ingred 3 Credits Iy used in Public Relation iterviews, and observation ogies. 3 Credits ent and personal branding up, hairstyling, dressing, so
PR 3202 Prerequisite: Strategic public relati political, and other pur PR 3204 Prerequisite: Strategies and implen and efficiently use pur consumers and gain co PR 3210 Prerequisites: Principles and practic ress, including develop PR 3214	CA 2005 Introduction to Public Relations ons planning through the development of the public relations car rposes including the evaluation strategies. Marketing Public Relations CA 2005 Introduction to Public Relations mentations of public relations to attain various marketing objectives ublic relations in marketing communication campaign to build bran competitive advantage in the marketplace. Negotiations CA 1001 Introduction to Communication CA 2016 Psychology for Persuasive Communication es of negotiation, impact of verbal and non-verbal communication	mpaign for business, social, 3 Credits 5, how marketers effectively nd, win acceptances among 3 Credits upon the negotiating pro-	concept to planning, ents, accounting and p PR 3224 Prerequisites: Procedures and proc planning, including o Students will be assign PR 3225 Prerequisite: Concepts, principles, appropriate authentio cial communication t be assigned to utilize t PR 3227	arranging everything from budgeting, sponsorship, formalities to a bost event activities. Applied Research for Public Relations CA 2005 Introduction to Public Relations CA 3011 Communication Arts Research esses of qualitative and quantitative researches that are common ontent analyses, public opinion surveys, focus groups, in-depth ir ned to conduct a primary research using the aforementioned methodol Personality Development and Personal Branding CA 2005 Introduction to Public Relations and techniques of personality development, impression managem eself-presentation, improvement of external image such as make- hrough social events such as host or guest and preparing for med hem to create an image or brand for themselves as well as celebrities. Media Relations and Planning	Il the components/ ingred 3 Credits Ily used in Public Relation iterviews, and observation ogies. 3 Credits ent and personal brandin up, hairstyling, dressing, so ia appearance. Students w
PR 3202 Prerequisite: Strategic public relati political, and other pur PR 3204 Prerequisite: Strategies and implen and efficiently use pu consumers and gain co Prerequisites: Principles and practic ress, including develop PR 3214 Prerequisite: Cheories and concept various theories and p nternal communication	CA 2005 Introduction to Public Relations ons planning through the development of the public relations car rposes including the evaluation strategies. Marketing Public Relations CA 2005 Introduction to Public Relations mentations of public relations to attain various marketing objectives ublic relations in marketing communication campaign to build bran competitive advantage in the marketplace. Negotiations CA 1001 Introduction to Communication CA 2016 Psychology for Persuasive Communication es of negotiation, impact of verbal and non-verbal communication comment of skills in managing with the conflict resolutions and maintainin Organizational Communication	mpaign for business, social, 3 Credits s, how marketers effectively ad, win acceptances among 3 Credits upon the negotiating pro- ng business relations. 3 Credits s employees, including the ne management of effective morale and good employee	concept to planning, ents, accounting and p PR 3224 Prerequisites: Procedures and proc planning, including of Students will be assign PR 3225 Prerequisite: Concepts, principles, appropriate authentic cial communication ti be assigned to utilize to PR 3227 Prerequisites: or Strategic relationships strategic communication	arranging everything from budgeting, sponsorship, formalities to a bost event activities. Applied Research for Public Relations CA 2005 Introduction to Public Relations CA 3011 Communication Arts Research esses of qualitative and quantitative researches that are common ontent analyses, public opinion surveys, focus groups, in-depth ir need to conduct a primary research using the aforementioned methodol Personality Development and Personal Branding CA 2005 Introduction to Public Relations and techniques of personality development, impression managem eself-presentation, improvement of external image such as make- hrough social events such as host or guest and preparing for med hem to create an image or brand for themselves as well as celebrities. Media Relations and Planning CA 2005 Introduction to Public Relations PR 3215 Writing for Public Relations in English	Il the components/ ingred 3 Credits Ily used in Public Relation iterviews, and observation ogies. 3 Credits ent and personal branding up, hairstyling, dressing, so ia appearance. Students w 3 Credits , nature of the mass medi

Fundamental elements of intercultural communication, basic intercultural theories, socio-cultural influence, psychocultural influence, environmental influence, differences of non verbal and verbal communication in various cultural background, building and maintaining relationship in multi-culture society, adjusting and developing the working style when cooperating in new culture as well as designing and implementing effective public relations programs to suitably achieve success in diverse market.

PR 3229	Folk and Traditional Media Communication CA 2005 Introduction to Public Relations	3 Credits
Prerequisite:		
tance and impact of for communication, appli	edia including elements, characteristics, content and forms of folk a olk and traditional media in communication, folk and traditional med cation of folk and traditional media in modern communication era, dia for the social development, community relations as well as other co	lia in socio-cultural and ritu case study of using folk m
PR 3230	Digital Public Relations	3 Credits
Prerequisites:	CA 2005 Introduction to Public Relations CA 2013 Utilization of Multimedia Tools	
Technical and theoret and measuring, writir	ical elements that compose digital media and social media, approa og for digital media, strategic approaches to engage in digital med laws, security and privacy as well as application of digital media f organizations.	dia and social media, ethic
PR 4201	Corporate Communication and Stakeholder Relations	3 Credits
Prerequisites:	PR 3204 Marketing Public Relations	
	PR 3214 Organizational Communication	
Corporate image, ider	itity and reputation building, including how to conduct image audit understand corporate social responsibility concept.	s, write corporate commur
PR 4207	Public Relations Workshop I	3 Credits
	CA 3011 Communication Arts Research	
Training in selecting, various cases and pro	PR 3202 Strategic Public Relations Campaign Planning and Ev creating and applying tools, techniques along with the principles o oblem situations. Students will be assigned to write up the commu of public relations to serve an actual "client".	f public relations for solvi
Training in selecting, various cases and pro focusing on full-scale o PR 4208	PR 3202 Strategic Public Relations Campaign Planning and Ex- creating and applying tools, techniques along with the principles of oblem situations. Students will be assigned to write up the commu- of public relations to serve an actual "client". Public Relations Workshop II PR 3202 Strategic Public Relations Campaign Planning and Ex-	f public relations for solvir inication campaign plannir 3 Credits
Training in selecting, various cases and pro focusing on full-scale of PR 4208 Prerequisites: or	PR 3202 Strategic Public Relations Campaign Planning and Ex- creating and applying tools, techniques along with the principles of oblem situations. Students will be assigned to write up the commu- of public relations to serve an actual "client". Public Relations Workshop II PR 3202 Strategic Public Relations Campaign Planning and Ex- PR 3215 Writing for Public Relations in English PR 3216 Writing for Public Relations in Thai	f public relations for solvir inication campaign plannir 3 Credits
Training in selecting, various cases and pro focusing on full-scale of PR 4208 Prerequisites: or Training in public rela management, public	PR 3202 Strategic Public Relations Campaign Planning and Every creating and applying tools, techniques along with the principles of oblem situations. Students will be assigned to write up the commu- of public relations to serve an actual "client". Public Relations Workshop II PR 3202 Strategic Public Relations Campaign Planning and Eve PR 3215 Writing for Public Relations in English	f public relations for solvin inication campaign plannin 3 Credits valuation ng public relations progra ls, and program evaluatic
Training in selecting, various cases and pro focusing on full-scale of PR 4208 Prerequisites: or Training in public rela- management, public	PR 3202 Strategic Public Relations Campaign Planning and Ex- creating and applying tools, techniques along with the principles of oblem situations. Students will be assigned to write up the commu- of public relations to serve an actual "client". Public Relations Workshop II PR 3202 Strategic Public Relations Campaign Planning and Ex- PR 3215 Writing for Public Relations in English PR 3216 Writing for Public Relations in Thai ations campaign based on the planned strategic direction regardi relations implementation, production of public relations material	f public relations for solvir inication campaign plannir 3 Credits valuation ng public relations progra ls, and program evaluatio
Training in selecting, various cases and pro focusing on full-scale of PR 4208 Prerequisites: or Training in public rela management, public Students will be assign PR 4209 Analysis and discussion nity relations, social of particular topics, analy	PR 3202 Strategic Public Relations Campaign Planning and Ex- creating and applying tools, techniques along with the principles of oblem situations. Students will be assigned to write up the commu- of public relations to serve an actual "client". Public Relations Workshop II PR 3202 Strategic Public Relations Campaign Planning and Ex- PR 3215 Writing for Public Relations in English PR 3216 Writing for Public Relations in Thai ations campaign based on the planned strategic direction regardir relations implementation, production of public relations material ied to choose their own topics under the supervision of their instructor Seminar in Public Relations	f public relations for solvir inication campaign plannir 3 Credits valuation ng public relations progra ls, and program evaluatio r. 3 Credits social responsibility, comm gned to do research in th
Training in selecting, various cases and pro focusing on full-scale of PR 4208 Prerequisites: or Training in public rela management, public Students will be assign PR 4209 Analysis and discussion nity relations, social of particular topics, analy listen to PR profession PR 4212	PR 3202 Strategic Public Relations Campaign Planning and Ex- creating and applying tools, techniques along with the principles of oblem situations. Students will be assigned to write up the commu- of public relations to serve an actual "client". Public Relations Workshop II PR 3202 Strategic Public Relations Campaign Planning and Ex- PR 3215 Writing for Public Relations in English PR 3216 Writing for Public Relations in Thai ations campaign based on the planned strategic direction regardi relations implementation, production of public relations material relations their own topics under the supervision of their instructor Seminar in Public Relations (PR Senior students Only) on on contemporary topics of public relations, such as corporate s media, crisis management, corporate image. Students will be assig yze, and discuss on various aspects. In addition, students will have als based on the topics of each semester. Public Relations Internship (200 Hours) (PR Students Only)	f public relations for solvir inication campaign plannir 3 Credits valuation ng public relations progra ls, and program evaluatio r. 3 Credits social responsibility, comm gned to do research in th
Training in selecting, various cases and pro focusing on full-scale of PR 4208 Prerequisites: or Training in public relimanagement, public Students will be assign PR 4209 Analysis and discussion nity relations, social in particular topics, analy listen to PR profession PR 4212 Internship program a governmental/non-go Students are required	PR 3202 Strategic Public Relations Campaign Planning and Ex- creating and applying tools, techniques along with the principles of oblem situations. Students will be assigned to write up the commu- of public relations to serve an actual "client". Public Relations Workshop II PR 3202 Strategic Public Relations Campaign Planning and Ex- PR 3215 Writing for Public Relations in English PR 3216 Writing for Public Relations in Thai ations campaign based on the planned strategic direction regardi relations implementation, production of public relations material relations their own topics under the supervision of their instructor Seminar in Public Relations (PR Senior students Only) on on contemporary topics of public relations, such as corporate s media, crisis management, corporate image. Students will be assig yze, and discuss on various aspects. In addition, students will have als based on the topics of each semester. Public Relations Internship (200 Hours)	f public relations for solvir inication campaign plannir 3 Credits valuation ng public relations progra ls, and program evaluatio r. 3 Credits social responsibility, comm gned to do research in th opportunities to attend ar 1 Credit public relations experience
Training in selecting, various cases and pro focusing on full-scale of PR 4208 Prerequisites: or Training in public reli- management, public Students will be assign PR 4209 Analysis and discussion nity relations, social in particular topics, analy listen to PR profession PR 4212 Internship program a governmental/non-go	PR 3202 Strategic Public Relations Campaign Planning and Ex- creating and applying tools, techniques along with the principles of oblem situations. Students will be assigned to write up the commu- of public relations to serve an actual "client". Public Relations Workshop II PR 3202 Strategic Public Relations Campaign Planning and Ex- PR 3215 Writing for Public Relations in English PR 3216 Writing for Public Relations in Thai ations campaign based on the planned strategic direction regardi relations implementation, production of public relations material ied to choose their own topics under the supervision of their instructor Seminar in Public Relations (PR Senior students Only) on on contemporary topics of public relations, such as corporate s media, crisis management, corporate image. Students will be assig yze, and discuss on various aspects. In addition, students will have als based on the topics of each semester. Public Relations Internship (200 Hours) (PR Students Only) ssigning students to be trained in a corporation, nonprofit comp vernmental organization, or public relations agency that provides	f public relations for solvir inication campaign plannir 3 Credits valuation ng public relations progra ls, and program evaluatio r. 3 Credits social responsibility, comm gned to do research in th opportunities to attend ar 1 Credit public relations experience

Community relations, corporate social responsibility, strategies, engagement for developing long-term relations, developing communication platform for communicating with community groups, including planning, implementation, monitoring, and evaluation. Students will be assigned to apply the concepts for building the relationship with both offline and online community.

PR 4220 Prerequisite:	Financial and Investor Relations CA 2005 Introduction to Public Relations	3 Credits
Factors influencing ir regulations, corporate	ivestment decisions, interpreting and communicating financial dat governance best practices, effective use of investor communication tutional and retail investors, sell-side analysts, and financial media.	
PR 4221 Prerequisite:	Public Relations for Issue and Crisis Management CA 2005 Introduction to Public Relations	3 Credits
Nature of issues and	crisis management from a strategic communication perspective, nt case studies on strategic issues, risks, and crisis communication munication plan.	
PR 4222 Prerequisites:	News Writing and Reporting BG 2001 English IV CA 1006 Introduction to Journalism and Mass Communication	3 Credits
	s gathering, writing, and reporting of news worthy events and perso n and broadcasting.	nalities. Finished work wi
PR 4223 Prerequisite:	Magazine/Feature Writing BG 2001 English IV	3 Credits
	ving, and writing feature articles for magazines and newspapers, publications.	including freelancing an
PR 4226 Prerequisite:	Selected Topics in Public Relations CA 2005 Introduction to Public Relations	3 Credits
	are not covered in regular departmental course offerings. Topics	will be announced in a
REM 3111 Prerequisite:	Principles of Real Estate MGT 1101 Introduction to Business	3 Credits
Prerequisite: Overview of real esta various types of prop		description of real estat ms of ownership, variou
Prerequisite: Overview of real esta various types of prop real estate fields of pro	MGT 1101 Introduction to Business the business and professional practices, special terms, nature and perty, basic rights and interests in real estate, land-use controls, for perty management, development, investment, real estate finance and re Real Estate Law	description of real estat ms of ownership, variou
Prerequisite: Overview of real esta various types of prop real estate fields of pro REM 3112 General principles of r subdivision regulation ing, housing and con	MGT 1101 Introduction to Business the business and professional practices, special terms, nature and perty, basic rights and interests in real estate, land-use controls, for perty management, development, investment, real estate finance and re	description of real estat ms of ownership, variou al estate appraisal. 3 Credits business, property right ions of land-use and zoo
Prerequisite: Overview of real estate various types of prop real estate fields of pro REM 3112 General principles of re subdivision regulation ing, housing and con transactions.	MGT 1101 Introduction to Business ate business and professional practices, special terms, nature and perty, basic rights and interests in real estate, land-use controls, for perty management, development, investment, real estate finance and re Real Estate Law real estate law and legal aspects which are related to the real estate s, ownership in real estate, transferring and registering title, regulat	description of real estat ms of ownership, variou al estate appraisal. 3 Credits business, property right ions of land-use and zo
Prerequisite: Overview of real estat various types of prop real estate fields of pro REM 3112 General principles of r subdivision regulation ing, housing and con transactions. REM 3113 Prerequisites:	MGT 1101 Introduction to Business inte business and professional practices, special terms, nature and overty, basic rights and interests in real estate, land-use controls, for perty management, development, investment, real estate finance and re Real Estate Law real estate law and legal aspects which are related to the real estate s, ownership in real estate, transferring and registering title, regulat dominium development laws, construction laws and other contracts Real Estate Economics BG 2401 Microeconomics	description of real estat rms of ownership, variou al estate appraisal. 3 Credits business, property right ions of land-use and zou related to the real estat
Prerequisite: Overview of real estat various types of prop real estate fields of pro REM 3112 General principles of r subdivision regulation ing, housing and con transactions. REM 3113 Prerequisites: and	MGT 1101 Introduction to Business inter business and professional practices, special terms, nature and perty, basic rights and interests in real estate, land-use controls, for perty management, development, investment, real estate finance and re Real Estate Law real estate law and legal aspects which are related to the real estate s, ownership in real estate, transferring and registering title, regulat dominium development laws, construction laws and other contracts Real Estate Economics BG 2401 Microeconomics BG 2400 Macroeconomics	description of real estat rms of ownership, variou al estate appraisal. 3 Credits business, property right ions of land-use and zou related to the real estat
Prerequisite: Overview of real esta various types of prop real estate fields of pro REM 3112 General principles of i subdivision regulation ing, housing and con transactions. REM 3113 Prerequisites: and Demand and supply of	MGT 1101 Introduction to Business inter business and professional practices, special terms, nature and overty, basic rights and interests in real estate, land-use controls, for perty management, development, investment, real estate finance and re Real Estate Law real estate law and legal aspects which are related to the real estate s, ownership in real estate, transferring and registering title, regulat dominium development laws, construction laws and other contracts Real Estate Economics BG 2401 Microeconomics BG 2400 Macroeconomics of real estate, real estate business cycle, real estate cycle, real estate	description of real estat ms of ownership, variou al estate appraisal. 3 Credits business, property right ions of land-use and zou related to the real estat 3 Credits
Prerequisite: Overview of real esta various types of prop real estate fields of pro REM 3112 General principles of r subdivision regulation ing, housing and con transactions. REM 3113 Prerequisites: and Demand and supply of market failure and rem REM 3114	MGT 1101 Introduction to Business inte business and professional practices, special terms, nature and overty, basic rights and interests in real estate, land-use controls, for perty management, development, investment, real estate finance and re Real Estate Law real estate law and legal aspects which are related to the real estate s, ownership in real estate, transferring and registering title, regulat dominium development laws, construction laws and other contracts Real Estate Economics BG 2401 Microeconomics BG 2400 Macroeconomics of real estate, real estate business cycle, real estate cycle, real estate edies in real estate. Building Design and Construction Techniques	description of real estat ms of ownership, variou al estate appraisal. 3 Credits business, property right ions of land-use and zou related to the real estat 3 Credits
Prerequisite: Overview of real estate various types of prop real estate fields of pro- REM 3112 General principles of re- subdivision regulation ing, housing and con transactions. REM 3113 Prerequisites: and Demand and supply of market failure and rem REM 3114 Basic knowledge of the construction drawingst	MGT 1101 Introduction to Business the business and professional practices, special terms, nature and perty, basic rights and interests in real estate, land-use controls, for perty management, development, investment, real estate finance and re Real Estate Law treal estate law and legal aspects which are related to the real estate s, ownership in real estate, transferring and registering title, regulat dominium development laws, construction laws and other contracts Real Estate Economics BG 2400 Macroeconomics BG 2400 Macroeconomics of real estate, real estate business cycle, real estate cycle, real estate edies in real estate.	description of real estat ms of ownership, variou al estate appraisal. 3 Credits business, property right ions of land-use and zo related to the real esta 3 Credits e markets, urban land-us 3 Credits rms and symbols used ipment, quantity take of
Prerequisite: Overview of real esta various types of prop real estate fields of pro REM 3112 General principles of 1 subdivision regulation ing, housing and con transactions. REM 3113 Prerequisites: and Demand and supply of market failure and rem REM 3114 Basic knowledge of t construction drawings	MGT 1101 Introduction to Business the business and professional practices, special terms, nature and poerty, basic rights and interests in real estate, land-use controls, for perty management, development, investment, real estate finance and re Real Estate Law real estate law and legal aspects which are related to the real estate s, ownership in real estate, transferring and registering title, regulat dominium development laws, construction laws and other contracts Real Estate Economics BG 2401 Microeconomics BG 2400 Macroeconomics of real estate, real estate business cycle, real estate cycle, real estate edies in real estate. Building Design and Construction Techniques echniques and process used to design and construct a building, te s, types of construction materials, construction technology and equ	description of real estat rms of ownership, variou al estate appraisal. 3 Credits business, property right ions of land-use and zou related to the real estat 3 Credits e markets, urban land-us 3 Credits rms and symbols used i ipment, quantity take o

Methods in real estate development for various types of real estate business, various participants in the real estate development process both public and private, development process, including conceptual development, feasibility study, real estate cycle market analysis, contracting and basic concepts of project management.

REM 3212 Real E	state Finance	3 Credits
Prerequisites: FIN 27	00 Money, Banking and Financial Markets	
REM 3	111 Principles of Real Estate	

Financial techniques to sell and buy real estate property, types of financial institutions and sources of funds, types of loan, underwriting, analysis of project development loan and mortgage loan, factors and principal process in real estate lending, including various financial calculations used in real estate business, and government's current policies regarding real estate finance.

REM 3213	Real Estate Appraisal	3 Credits
Prerequisite:	REM 3111 Principles of Real Estate	

Introduction to real estate appraisal, definition of value, objectives of appraisal, data analysis, land (site) and building survey, appraisal report, with emphasis on the three basic approaches to calculate value: Cost Approach, Market Approach and Income Approach.

REM 3214 Prerequisite:	Principles of Real Estate Investment Analysis REM 3212 Real Estate Finance	3 Credits
method and discount	e investment and analysis, methods in real estate investment ted cash flow method, prelim-financial feasibility study, real e t analysis of various real estate segments, real estate investme nt vehicles.	estate investment assumptions,
REM 4112	Computer Applications in Real Estate	3 Credits

Various computer applications for real estate management decision and practice, computer software programs including spreadsheet, database management system, project management software, floor plan & mapping software, applications covering various areas including real estate finance, real estate investment analysis, and project planning and control.

REM 4113	Principles of Property Management	3 Credits
Prerequisites:	REM 3111 Principles of Real Estate	
	REM 3114 Building Design and Construction Techniques	

Basic management principles for income producing properties, process for making management plans, property marketing, lease management, roles and right of landlord and tenant, personnel management, management and maintenance of different types of property especially residential and commercial.

REM 4131	Real Estate Project Management	3 Credits
Prerequisites:	REM 3211 Principles of Real Estate Development	
	REM 3114 Building Design and Construction Techniques	

Procedure and basic technique throughout project management life cycle to fulfill a real estate development project, planning and control project schedule, cost and quality, organization methods and project team, leadership, risk management, project feasibility analysis and project contract.

REM 4132	Advanced Real Estate Investment Analysis	3 Credits
Prerequisite:	REM 3214 Principles of Real Estate Investment Analysis	

Comprehensive real estate feasibility analysis for both low-rise housing and condominium investments, analysis application through computer software packages with the aspects of market, finance, legal, construction, and taxation, analysis of investment risk, tax planning for investment, inflation and investment cycle, and basic strategies for investment portfolio.

REM 4141	Advanced Real Estate Appraisal	3 Credits
Prerequisite:	REM 3213 Real Estate Appraisal	

Advanced techniques in valuation, including the residual method, discounted cash flow method, and various real estate appraisal theories, standard practice for appraisers, valuation of pending properties, fee simple, lease fee estate and leasehold estates, use of statistics, accounting, computer software and financial analysis in appraising real estate.

REM 4142 Prerequisite:	Professional Appraisal Practice and Ethics REM 3213 Real Estate Appraisal	3 Credits
Appraisal standards, categ sumptions, conditions and negligence and liability, ar	ory of property appraisal, qualifications of valuer, objectives ar limitations, duties and responsibilities of valuer, professional co- bitration and dispute resolution, role of expert witness, lifecycle lobstacles in appraisal profession.	ode of ethics, professional
REM 4151 Prerequisite:	Corporate Real Estate Management REM 4113 Principles of Property Management	3 Credits
Corporate real estate envi property, strategic plannin	ironment analysis and organization structure, operations and n g of efficiency improvement and cost reduction, local communi ng, buy/hold or sell property decision analysis, location selection nent strategy.	ty relations management,
REM 4152 Prerequisite:	Facilities Operations and Maintenance REM 4113 Principles of Property Management	3 Credits
Building engineering syste	em and building components, facility and building components nagement, building environmental management green building,	
REM 4191 Prerequisites:	Seminar in Real Estate Business REM 3211 Principles of Real Estate Development Senior Standing (over 100 credits)	3 Credits
Comprehensive review of	various special aspects of real estate development experience ch, and case study in relevant current issues.	and practices, group and
REM 4192 Prerequisites:	Seminar in Property Valuation REM 3213 Real Estate Appraisal Senior Standing (over 100 credits)	3 Credits
	state appraisal experience and practices, case studies, worksho	ops, and fieldtrips related
REM 4193 Prerequisite:	Seminar in Property Management REM 4113 Principles of Property Management	3 Credits
Comprehensive review of	various special aspects of property management experience and dy in relevant current issues and fieldtrips related to property manag	
agement research, case stud		
REM 4221	Directed Study in Real Estate Consent of the Department Chairperson	3 Credits
REM 4221 Prerequisite: Under the guidance of the		d research project in real
REM 4221 Prerequisite: Under the guidance of the estate business. Depth, det REM 4222 Prerequisite:	Consent of the Department Chairperson e Department Chairperson, a student will carry out an approve ail and originality of the study will determine the project evaluation. Capital Markets Related to Real Estate Business REM 3214 Principles of Real Estate Investment Analysis	d research project in real
REM 4221 Prerequisite: Under the guidance of the estate business. Depth, det REM 4222 Prerequisite: Structures and types of co market that are applied fo Market, regulations and p	Consent of the Department Chairperson e Department Chairperson, a student will carry out an approve ail and originality of the study will determine the project evaluation. Capital Markets Related to Real Estate Business	d research project in real 3 Credits ted types of security and and Secondary Mortgage

Techniques for marketing commercial-investment properties; planning, process, and methods of marketing including marketing program, selling and negotiation strategy, information systems supporting marketing, roles of brokerage business including services, relationship to owner, responsibilities, brokers' code of ethics, and development of a broker profession.

REM 4241 Prerequisite:	Valuation for Special Purposes REM 3213 Real Estate Appraisal	3 Credits
Methods and technic statutory purposes e.	ques for appraisal of assets used for special purposes such as int g. tax, expropriation, valuation of assets for non-market assets, pla of various intellectual properties, including patent, copyright, bran	ant and machinery, concepts
REM 4251 Prerequisite:	Income-producing Property Management REM 4113 Principles of Property Management	3 Credits
Property manager ro	les and duties, commercial leasing process, lease contract manag enant/landlord relationship management, juristic person management	
REM 4381 Prerequisite:		3 Credits
In the final semester, ness for at least 300	, students may arrange for an Internship Program with a company working hours. Course evaluation based on daily progress record ace evaluation by the immediate supervisor.	
REM 4382 Prerequisite:	Internship in Real Estate Appraisal (300 Hours) Consent of the Department Chairperson	3 Credits
In the final semester, praisal for at least 30	students may participate in an Internship Program with a compa 0 working hours. Course evaluation based on daily progress recor ice evaluation by the immediate supervisor.	
REM 4383 Prerequisite:	Internship in Property Management (300 Hours) REM 4113 Principles of Property Management	3 Credits
In the final semester, agement for at least	students may participate in an Internship Program with a compa 300 working hours. Course evaluation will be based on daily pro performance evaluation by the immediate supervisor.	
SC 1101	Computer Programming I	4 Credits
History of computer, ment process of algo algorithms using one and structure of the	components of a computer system, coding and numbering system rithms and expression of algorithms in terms of flowchart and pseu of the high level languages that are used widely in the industry of language, techniques of programming for both numerical and non ing languages and how to develop structured programming.	udo code, implementation of with emphasis on the nature
SC 2101 Prerequisite:	Computer Programming II SC 1101 Computer Programming I	4 Credits
Algorithms developm cation of the program list, stack, and queue, characteristics of the	ent to solve more complex problems, analysis of more complicated ns, string processing, searching and sorting algorithms, and abstra , second high level language which will be widely used in the furth structured programming and modular programming, application rious complicated problems.	ect data types such as linked her courses with emphasis on
SC 2151	Introduction to Microcomputer Application	3 Credits
Structure and charac on software package	teristics of microcomputers, and the techniques of applying micro s such as word processing, spreadsheet, database management s ogies as well as future trends.	
SC 2210 Prereguisite:	Files Organization SC 2101 Computer Programming II	3 Credits
	nputer files and mass storage media, operations on files, file organ	

Characteristics of computer files and mass storage media, operations on files, file organization and access methods: sequential, indexed-sequential, direct, extendible hashing, and B-trees, design of file management systems including exercises in C++ or other high-level languages.

SC 2211 Prerequisite:	Data Structures and Algorithms SC 2101 Computer Programming II	3 Credits
Analysis of complexity of al- graph, set and heap, applica	gorithms, various data structures including array, string, stack, queue, tions and analysis of algorithms developed employing the data struct nory requirement analysis of various searching and sorting algorithms.	
SC 2212 Prerequisites:	Database Systems SC 2210 Files Organization and SC 2211 Data Structures and Algorithms	3 Credits
Database systems and data	base management, types of database systems emphasizing on rela nalization, query optimization, integrity and security of database system	
SC 2213 Prerequisite:	Advanced Programming SC 2101 Computer Programming II	4 Credits
Practical software developme implementation of the program	nt to solve more complex problems, analysis of more complicated prog ams, practical programming. The computer science students have to p order to fulfill the requirement of this course.	
SC 2220	Computer Organization	3 Credits
Computer systems configurat CU and registers, memory u representation of various dat	tion which includes the functions of the components of CPU with en nit and devices as well as connection of each component by the sys a types and machine instructions, microcodes, fundamentals of system on of programs, assembly language programming.	tem bus, binary
SC 2231	Mathematics Foundation for Computer Science	3 Credits
Discrete mathematics as the	basis of computer science, set theory, relation and function, recursive atical reasoning, graph theory, tree, algebraic structure, probability, mo	
SC 3210 Prerequisite:	Programming Languages SC 2101 Computer Programming II	3 Credits
Computer programming lan- implementation, emphasizing	guages on comparative basis with special consideration on syntax, on suitability of programming languages for various data manipulation es, visibility rules, concurrency and memory management.	
SC 3211 Prerequisite:	Operating Systems SC 2220 Computer Organization	3 Credits

Components and functions of operating systems, uniprogramming, multi-programming, multitasking, multithreading, resource management functions of operating systems, process scheduling algorithms, device management algorithms, virtual memory management, and classical problems related to operating systems such as deadlock, starvation and concurrency.

SC 3220	Computer Architecture	3 Credits
Prerequisite:	SC 2220 Computer Organization	

Computer system components, combinatory circuits, sequential circuits, micro-operations using flip-flop, registers, adder and counter, computational operations and control of micro-operations, design of memory unit, design of set of instructions, design of parallel processing as well as SISD, SIMD, MISD, and MIMD architectures.

SC 3230	Theory of Computation	3 Credits
Prerequisite:	SC 2231 Mathematics Foundation for Computer Science	

Methods of computation, sequential computation, parallel computation, logic circuits, finite-state machine, deterministic and non-deterministic machine, regular and non-regular set, push-down automata, Turing machine, computability and non-computability, halting problem, examples of class P and class NP problems, theories and techniques for various computational problems which are the basis of computer science.

SC 3231	Algorithms Design	3 Credits
Prerequisites:	SC 2231 Mathematics Foundation for Computer Science	

Techniques for designing algorithms using divide and conquer, greedy method, dynamic programming and backtracking by emphasizing on analysis of efficiency, design techniques for NP problem domain.

SC 3320	Digital System Design	3 Credits
Prerequisite:	SC 2220 Computer Organization	

Use of Boolean functions in designing the combinatory and sequential circuits, flip-flop, counter, and registers, integrated circuits, Large Scale Integration (LSI), Very Large Scale Integration (VLSI), design of various types of circuits used in computer systems such as adder, subtractor, multiplier, and divider circuits as well as other appropriate circuits.

SC 3351	Computer Networks	3 Credits
Prerequisite:	SC 2220 Computer Organization	

Basic knowledge of computer network, data communication, transmission media, and communication devices, fundamentals of network design, network topology, multi-layer protocols, routing machines, circuit switching, packet switching, and message switching, case studies of computer networks such as ARPAnet, and Local Area Network.

SC 4299	Senior Projects	3 Credits
Prerequisite:	fourth-year student status with at least 100 credits completed	

Specific project which requires students to design and develop a concrete program or system, analyze the problem, define the solution and design the system by applying the various computer science concepts. The advisor whom the students select will guide them throughout the project development. The students must give presentation which includes oral examination.

SC 4310	Software Engineering	3 Credits
Prerequisite:	SC 2101 Computer Programming II	

Software life cycle, analysis of requirements, structured software design, development, implementation, testing, and maintenance of software, reusable software, documentation and software manuals, and software project management.

SC 4311	Computer Graphics	3 Credits
Prerequisite:	SC 2211 Data Structures and Algorithms	

Fundamental concepts of graphics construction using computer, data structure for computer graphics and techniques for creating, storing, transformation, translation, rotation, clipping, and animation, use of commercial graphics packages and use of high-level languages to write computer graphics programs.

SC 4312	Compiler Construction	3 Credits
Prerequisite:	SC 2211 Data Structures and Algorithms	
Structure of compilers, steps	of execution of compiler, symbol table, lexical analysis, semantic ar	nalysis, internal

forms for program, run time storage management, code optimization, implementation of simple compilers or portion of compilers such as parser.

SC 4320	Introduction to Microprocessors	3 Credits
Prerequisite:	SC 3320 Digital System Design	

Introduction to microprocessor technology, evolution of microprocessor, microprocessor architecture and functions,

typical 8, 16, and 32 bit microprocessors as well as different kinds of commercially available microprocessors.

SC 4321	VLSI Technology	3 Credits
Prerequisite:	SC 3320 Digital System Design	

Very Large Scale Integration circuits and different design techniques including automatic design method, impact of VLSI technologies in computer systems.

SC 4330	Numerical Analysis	3 Credits
Prerequisite:	SC 2231 Mathematics Foundation for Computer Science	

Analysis of precision levels in numerical computations, algorithm constructions for mathematical problem-solving such as finding roots of various equations, interpolation, differentiation and integration, finding of terms and sum of series with emphasis on the writing of programs to solve complex numerical problems.

SC 4331	Formal Languages and Automata	3 Credits
Prerequisite:	SC 3230 Theory of Computation	

Fundamental mathematical theories related to languages and grammars, deterministic and non-deterministic finite automata, pushdown automata, linear bounded automata, Turing machines, regular languages, context-free languages, context-sensitive languages, recursive languages, closure problems of languages, concepts of effective-ness, undecidability and computational complexity.

SC 4332	Artificial Intelligence Concepts	3 Credits
Prerequisite:	SC 2101 Computer Programming II	

Fundamental concepts in AI and its purpose as well as different disciplines in the field, mathematical theorem proving, natural language processing, image processing, robotics, expert system and various techniques used in knowledge representation, searching, induction and heuristic algorithms, case studies related to specific AI applications including expert system, language translation, voice processing, and others, use of popular programming languages such as Prolog and LISP to solve AI related problems.

SC 4333 Systems Analysis and Design 3 Credits

Roles and importance of information system in organizational structure with regard to strategic planning and decision making, relationship among different information systems within an organization and role of computer systems in information system, various computer technologies which can be used to implement information systems as well as efficient management of information system to meet the various needs of different levels of organizational hierarchy.

SC 4340	Neural Network	3 Credits

Basic neural network architectures and learning rules, with extensive coverage of performance learning, including the Widrow-Hoff rule, backpropagation and its enhancements, recurrent associative memory networks, and competitive networks, mathematical analysis of networks, training methods, implementation and applications.

SC 4341	Machine Learning	3 Credits
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Construction of computer programs that will automatically improve their performance through experience, primary approaches to machine learning, including inductive inference of decision trees, case-based learning, neural network learning, statistical learning methods, and Bayesian learning.

SC 4352	Image Processing	3 Credits
Prerequisite:	SC 2211 Data Structures and Algorithms	
or	IT 2230 Information Structures	

Introduction to digital image processing including such topics as digital image representation, compression techniques, coding techniques, analysis of images represented in different formats, as well as optical character recognition techniques based on image processing to recognize Thai and English alphabetic.

SC 4370	Object-Oriented Concepts	3 Credits
Prerequisite:	SC 2101 Computer Programming II	

Different software development methods emphasizing on object oriented methods, fundamental concepts of object oriented programming, inheritance, polymorphism, encapsulation, object oriented programming tools, class libraries, application development using object oriented concept, analysis and design of object-oriented data architecture.

SC 4371	Selected Computer Language	3 Credits
Prerequisite:	SC 2101 Computer Programming II	

Advanced computer programming language which is considered to be widely used in the software development industry.

Prerequisite:	System Programming SC 3211 Operating Systems	3 Credits
Characteristics of batch pro libraries, I/O subroutines, di	cessing, compilation, linking, loading and execution of pro- rect and indirect addressing methods, relocation of memo- ilers, interpreters and database systems, implementation of age.	ry space, register addressing
SC 4373	Web Application Development	3 Credits
Prerequisite:	SC 2101 Computer Programming II	
Hypertext Markup Language	e (HTML) or dynamic HTML (DHTML), scripting language, s ⁹ , knowledge and skills required to develop web application oying web application	1 3
SC 4374 Prerequisite:	Enterprise Application Development SC 2212 Database System	3 Credits
Architecture and platform c based enterprise applicatior	of choice for building and deploying n-tier, web-based, trans, high-level overview of enterprise application architectur nstitute at Web tier and business tier, security, persistence, trans	re, individual programming
SC 4375 Prerequisite:	3D Graphical Programming SC 2101 Computer Programming II	3 Credits
	l Programming, process involved and program 3D graphical ap	plications
SC 4381	Computer and Information Security	3 Credits
Information security that is	SC 3351 Computer Network practically implemented into organizations, attacks, threa ation security process, security technologies, policies, wirel	
Information security that is mation security risk, information security. SC 4390	practically implemented into organizations, attacks, threa	
Information security that is mation security risk, informa of information security. SC 4390 Prerequisites: Seminar on topics in advan specific field may be invited	practically implemented into organizations, attacks, threa ation security process, security technologies, policies, wirel Seminar in Computer Science Senior students with the consent of the instructors ced or new technology in the field of computer science. A I to give lectures. Each student must study some specific to	ess security and legal issues 3 Credits an expert or professor in the
Information security that is mation security risk, informa- of information security. SC 4390 Prerequisites: Seminar on topics in advan- specific field may be invited exchange questions with the	practically implemented into organizations, attacks, threa ation security process, security technologies, policies, wirel Seminar in Computer Science Senior students with the consent of the instructors ced or new technology in the field of computer science. A I to give lectures. Each student must study some specific to	ess security and legal issues 3 Credits an expert or professor in the
Information security that is mation security risk, informa of information security. SC 4390 Prerequisites: Seminar on topics in advan specific field may be invited exchange questions with the SC 4400 - 99	practically implemented into organizations, attacks, threa ation security process, security technologies, policies, wirel Seminar in Computer Science Senior students with the consent of the instructors ced or new technology in the field of computer science. A I to give lectures. Each student must study some specific to others.	ess security and legal issues 3 Credits an expert or professor in the opics, make presentation and
Information security that is mation security risk, informa- of information security. SC 4390 Prerequisites: Seminar on topics in advam- specific field may be invited exchange questions with the SC 4400 - 99 Prerequisite: Special topics that are apprineeds and the instructors' re-	practically implemented into organizations, attacks, threa ation security process, security technologies, policies, wirel Seminar in Computer Science Senior students with the consent of the instructors ced or new technology in the field of computer science. A I to give lectures. Each student must study some specific to others. Selected Topics	ess security and legal issues 3 Credits an expert or professor in the opics, make presentation and 3 Credits ad depends on the student's
Information security that is mation security risk, informa- of information security. SC 4390 Prerequisites: Seminar on topics in advan- specific field may be invited exchange questions with the SC 4400 - 99 Prerequisite: Special topics that are appi- needs and the instructors' re period.	practically implemented into organizations, attacks, threa ation security process, security technologies, policies, wirel Seminar in Computer Science Senior students with the consent of the instructors ced or new technology in the field of computer science. A I to give lectures. Each student must study some specific to others. Selected Topics Senior students with the consent of the instructors ropriate for detailed study and research. The topic selected	ess security and legal issues 3 Credits an expert or professor in the opics, make presentation and 3 Credits ad depends on the student's
Information security that is mation security risk, informa- of information security. SC 4390 Prerequisites: Seminar on topics in advan- specific field may be invited exchange questions with the SC 4400 - 99 Prerequisite: Special topics that are appi- needs and the instructors' re period. TE 3000	practically implemented into organizations, attacks, threa ation security process, security technologies, policies, wirel Seminar in Computer Science Senior students with the consent of the instructors ced or new technology in the field of computer science. A I to give lectures. Each student must study some specific to others. Selected Topics Senior students with the consent of the instructors ropriate for detailed study and research. The topic selecte equirements and is in accordance with the current change	ess security and legal issues 3 Credits an expert or professor in the opics, make presentation and 3 Credits ad depends on the student's of computer science in that
Information security that is mation security risk, inform of information security. SC 4390 Prerequisites: Seminar on topics in advan- specific field may be invited exchange questions with the SC 4400 - 99 Prerequisite: Special topics that are appineeds and the instructors' re period. TE 3000 Prerequisite: Introduction to signal and modulation, AM, DSB, SSB, quist's sampling theory and (DM); multiplexing, time-div	practically implemented into organizations, attacks, threa ation security process, security technologies, policies, wirel Seminar in Computer Science Senior students with the consent of the instructors ced or new technology in the field of computer science. A I to give lectures. Each student must study some specific to others. Selected Topics Senior students with the consent of the instructors ropriate for detailed study and research. The topic selecte equirements and is in accordance with the current change Principles of Communications BG 2209 Statistics for Engineers	ess security and legal issues 3 Credits an expert or professor in the opics, make presentation and 3 Credits and depends on the student's of computer science in that 3 credits Geries and transform, analog baseband modulation, Ny- tion (PCM), delta modulation

Laboratory studies to help students better understand the theory of communications, i.e. signal analysis, modulation techniques, and noise effects, etc. Students can also gain technical experiences about some useful devices and measurements in the field.

TE 3102 Prerequisite:	Communication Networks and Transmission Lines EE 2201 Electric Circuits EE 3301 Electromagnetic Fields	3 Credits
Network theorems; and resonance, wave filters	alysis and design of equivalent one-port and two-port, series and p ; impedance transformation and matching networks; network appro- es; utilization of transmission lines for impedance matching.	
TE 3301 Prerequisite:	Radio Wave Propagation EE 3301 Electromagnetic Fields	3 Credits
	tion; sky wave propagation; space wave propagation; narrow band f tion.	ast fading; wide band fast
TE 4105 Prerequisite:	3	3 Credits
Microwave transmissio	n lines, s - parameters; microwave network analysis, microwave r s, microwave filters, microwave systems and applications, microwave me	
TE 4107 Prerequisite: or	Digital Telephony TE 3000 Principles of Communications TE 3003 Fundamental of Communication Systems	3 Credits
	chy, digital voice networks, voice digitization PCM-DPCM-Delta, async ng TDM Space and Time division switching BORCHT digital modulat	
Analog network Hierar transmission, LINE codi Integrated Services Dig TE 4110	ng, TDM, Space and Time division switching, BORCHT, digital modulat ital Networks ISDN. Wireless Communications and Cellular Systems	
Analog network Hierar transmission, LINE codi Integrated Services Dig TE 4110 Prerequisite: Overview of wireless munication systems; n fading channels, multi	ng, TDM, Space and Time division switching, BORCHT, digital modulat ital Networks ISDN. Wireless Communications and Cellular Systems TE 3000 Principles of Communications communication systems and applications; background in physica nodels for wireless communication channels, path loss models, sha ipath fading channels; diversity techniques for fading channels; m	ion MA-FSK-PSK-QAM-TCM 3 Credits I layer for wireless com- adowing models, Rayleigh nultiple access techniques;
Analog network Hierar transmission, LINE codi Integrated Services Dig TE 4110 Prerequisite: Overview of wireless munication systems; n fading channels, multi	ng, TDM, Space and Time division switching, BORCHT, digital modulat ital Networks ISDN. Wireless Communications and Cellular Systems TE 3000 Principles of Communications communication systems and applications; background in physica nodels for wireless communication channels, path loss models, sha	ion MA-FSK-PSK-QAM-TCM 3 Credits I layer for wireless com- adowing models, Rayleigh nultiple access techniques;
Analog network Hierar transmission, LINE codi Integrated Services Dig TE 4110 Prerequisite: Overview of wireless munication systems; m fading channels, multi introduction to cellular TE 4111 Prerequisite: Basic definitions and impedance; wave pola	ng, TDM, Space and Time division switching, BORCHT, digital modulat ital Networks ISDN. Wireless Communications and Cellular Systems TE 3000 Principles of Communications communication systems and applications; background in physica nodels for wireless communication channels, path loss models, sha ipath fading channels; diversity techniques for fading channels; m mobile systems; cellular network design principles; wireless communicat Antenna Engineering	ion MA-FSK-PSK-QAM-TCM 3 Credits I layer for wireless com- adowing models, Rayleigh nultiple access techniques; ation standards. 3 Credits tivity and gain; Radiation e antenna; linear array an-
Analog network Hierar transmission, LINE codi Integrated Services Dig TE 4110 Prerequisite: Overview of wireless munication systems; m fading channels, multi introduction to cellular TE 4111 Prerequisite: Basic definitions and impedance; wave pola	ng, TDM, Space and Time division switching, BORCHT, digital modulat ital Networks ISDN. Wireless Communications and Cellular Systems TE 3000 Principles of Communications communication systems and applications; background in physica nodels for wireless communication channels, path loss models, sha ipath fading channels; diversity techniques for fading channels; m mobile systems; cellular network design principles; wireless communica Antenna Engineering EE 3301 Electromagnetic Fields theorems; isotropic point source; power and field patterns; direct rization; radiation from current elements; radiation properties of wire	ion MA-FSK-PSK-QAM-TCM 3 Credits I layer for wireless com- adowing models, Rayleigh nultiple access techniques; ation standards. 3 Credits tivity and gain; Radiation e antenna; linear array an-
Analog network Hierar transmission, LINE codi Integrated Services Dig TE 4110 Prerequisite: Overview of wireless munication systems; m fading channels, multi introduction to cellular TE 4111 Prerequisite: Basic definitions and impedance; wave pola tenna; Uda-Yagi antenn TE 4112 Prerequisite: or Cylindrical dielectric wa ters; optical fiber produ	ng, TDM, Space and Time division switching, BORCHT, digital modulat ital Networks ISDN. Wireless Communications and Cellular Systems TE 3000 Principles of Communications communication systems and applications; background in physica nodels for wireless communication channels, path loss models, sha ipath fading channels; diversity techniques for fading channels; m mobile systems; cellular network design principles; wireless communica Antenna Engineering EE 3301 Electromagnetic Fields theorems; isotropic point source; power and field patterns; direct rization; radiation from current elements; radiation properties of wire a and log-periodic antenna; aperture antenna; microstrip antenna; ante Optical Communications EE 3301 Electromagnetic Fields TE 3000 Principles of Communications	ion MA-FSK-PSK-QAM-TCM 3 Credits I layer for wireless com- adowing models, Rayleigh iultiple access techniques; ation standards. 3 Credits tivity and gain; Radiation e antenna; linear array an- nna measurement. 3 Credits fiber; optical fiber parame- sources; modulation tech-

TE 4201	Communication Electronics	3 credits
Prerequisite:	EE 2603 Electronic Circuit Analysis	
or	EE 2605 Engineering Electronics	

Design of radio-frequency amplifiers, signal amplifier, power amplifier, oscillator, wide-band amplifier, impedance matching, design techniques and equipment selection, special conditions in design

TE 4202 Prerequisite or Co-requisite:	Communication Electronics Laboratory TE 4201 Communication Electronics	1 credit
	ccording to TE 4201 Communication Electronics Laboratory	
TE 4203 Prerequisite:	Noise in Electronic Systems EE 3601 Electronic Circuit Design	3 Credits
Noise, noise protection in co fields, line twisting noise pro	onductor, capacitive and inductive effects of conductor, effects of conductor, grounding of electronics system, noise protection in ampoise equilibrium, cascade of passive networks, corrosion protection I.	lifier, external noise,
TE 4204 Prerequisite: or and	Optoelectronics EE 2603 Electronic Circuit Analysis EE 2605 Engineering Electronics EE 3301 Electromagnetic Fields	3 Credits
Units of light measurement,	optical fiber, wave guide, light sources, and semiconductor light de otion, optical integrated circuits.	etector, liquid crystal,
TE 4901 Prerequisite:	Telecommunication and Electronic Engineering Project I Completion of 100 credits	1 Credit
	project in Telecommunication and Electronics Engineering. Student	must submit reports
TE 4902 Prerequisite:	Telecommunication and Electronic Engineering Project II TE 4901 Telecommunication and Electronic Engineering Project I	2 Credits
	done in Telecommunication and Electronics Engineering Project I. Re	port is also required
TE 4903 Prerequisite:	Advanced Topics in Telecommunication and Electronic Engineering Completion of 90 credits with the consent of the chairperson	3 Credits
	new developments on Telecommunication and Electronic Engineering	
TE 4904 Prerequisite:	Special Problems in Telecommunication and Electronic Engineering Completion of 90 credits with the consent of the chairperson	3 Credits
Investigation of special problem required.	lems assigned by the instructor with the consent of the chairperson	n: a written report is
TH 1500	Introduction to Thai	3 Credits
Basic language used in even importance, reading short sen	yday life, basic listening, speaking, pronunciation skills, grammatic tences and writing words	cal forms of primary
TH 1501 Prerequisite:	Thai Language I TH 1500 Introduction to Thai	3 Credits
Listening and speaking skills mar, reading simple texts, and	in a variety of circumstances in everyday life to broaden basic voo writing short sentences	cabularies and gram-
TH 2501 Prerequisite:	Thai Language II TH 1501 Thai Language I	3 Credits
	ure, reading texts and dialogues concerned with everyday life and	d practice of writing

TH 2502 Prerequisite:	Thai Language III TH 2501 Thai Language II	3 Credits
	tructure, reading texts and dialogues concerning Thai life and o	 culture and practice of writing
TH 3501 Prerequisite:	Advanced Reading TH 2502 Thai Language III	3 Credits
	ing skills, main ideas finding, facts and opinions analysis, aut	
TH 3502 Prerequisite:	5 5	3 Credits
Development of writir	ng skills, styles in the present-day Thai language both formal and lysis of effective writing, and practice various writings	 d informal, writing for present
TH 3503 Prerequisite:	Advanced Reading and Writing TH 2502 Thai Language III	3 Credits
Main ideas finding, fa	icts and opinions analysis, author's viewpoint and intention an ent-day Thai language both formal and informal.	
TS 1201	Physics	4 Credits
Basic physics, mechar	nics, electricity and magnetism, thermodynamics and statistical s, physical properties of gases, liquids, solid state and amorphous m	physics, atomic and molecula
TS 2222 Prerequisite:	Introduction of Circuits and Electronics TS 1201 Physics	4 Credits
Fundamental principle	es of electric circuits, practical electronics, digital logic and instrumena, construction of amplifiers and filters, logic circuits, D/A ars.	rumentation systems, measure
TS 2231 Prerequisite:	Mathematics for Telecommunications DA 2102 Calculus II	3 Credits
Fundamental of differ	ential equations, various transform theories and their application f equations, probability and statistic theory in communication s analysis.	ns to communications, matrice
TS 2242 Prerequisite:	Communication Signal and Systems TS 2231 Mathematics for Telecommunications	4 Credits
basic concepts of signand frequency domai	nals, i.e. discrete-time signal, continuous-time signal, and noise nal transmission in various communication systems, various trar n, classical and modern modulation techniques, various types n designing linear time-invariant systems.	nsformations of signals in time
TS 3230 Prerequisite:	Telecommunications System and Technology IT 2231 Information Technology	3 Credits
ntroduction to variou	us telecommunication systems and networks, radio and cable and digital communications, optical fiber, satellite, computer r	communication systems, basi
protocols, and network	c security.	
	Digital Communications	4 Credits

Basic concepts of digital signal and noise in communication systems, various types of multiplexing techniques, digital modulations, digital filters, effect of noise on modulated digital signal in communication channels, performance evaluation of digital modulation techniques based on bit error rate vs. signal-to-noise ratio graphs

Prerequisite:	Computer Networks and Open Systems TS 3230 Telecommunications System and Technology	4 Credits	TS 4262 Prerequisite:	Internetworking Workshop II TS 4261 Internetworking Workshop I	4 Credits
protocol basics and work media, prevailir (LAN) and Wide Are	nputer networks, inter-operability issues, Open System Interconnecti network protocols i.e. Transmission Control Protocol/Internet Proto ng network types and topologies, wire and wireless communication b a Network (WAN) technologies, network devices and their connec work security and advanced computer network technologies.	col (TCP/IP), various net- pasics, Local Area Network	cepts, protocols, feat technologies, encaps	ntation of small to medium size Local Area Networks (LANs) emphasizing ures and technologies and LAN switch configuration, introduction to Wide ulation protocols, design and implementation, hands-on experiences in a s of IP network services.	Area Network (WA
TS 3257	Coding for Communications	3 Credits	TS 4299 Prerequisite:	Senior Project Fourth-year student status with at least 100 credits completed	3 Credits
Prerequisite:	TS 3230 Telecommunications System and Technology				
	nal/data transmission in communication systems, fundamental of info ormation and coding theory in communication systems, various error con		as to conduct resear skills based on scient	n requires students to apply the knowledge they have studied to design ch in telecommunications system. Students must apply their analytical a ific methodology and creativity in developing telecommunications project ut the project development. Students will have an oral examination on their p	and decision making s. The instructors w
TS 3332 Prerequisite:	Switching and Signaling Systems TS 3230 Telecommunications System and Technology	3 Credits	TS 4332	Economics in Telecommunications Systems	3 Credits
	/ of the public switched telephone network, signaling and intelligent ephone services, comparison of switching paradigms and evolving inf		Inventory concepts, a investment decisions.	isset amortization, liabilities, consolidated statements, cost accounting, ca	ipital budgeting, a
	Combined Data Constitu		TS 4333	Telecommunications Policy, Law, Regulation and Standard	3 Credits
	Cryptography and Data Security y which includes fundamental cryptographic primitives of public key identification and pseudo-random number generation.	3 Credits encryption, digital signa-		linary analysis of major public and private telecommunications policies a economics, communication, general social science and technology, dome	
TS 3339 Prerequisite:	Introduction to Electromagnetic Field TS 2231 Mathematics for Telecommunications	3 Credits	TS 4335 Prerequisite:	Network Management and Controls TS 3256 Computer Networks and Open Systems	3 Credits
	ric and magnetic fields, electric charge and current, Maxwell's equa es in various media, and principles of antenna and guided wave.	tion, wave equations and		cols for management of telecommunications networks, Simple Network M management information protocol, and extensions of present protocols	
TS 3350 Prerequisite:	Analog Communications TS 2242 Communication Signal and Systems	3 Credits	TS 4336 Prerequisite:	Operation Research DA 2102 Calculus II	3 Credits
modulation, frequence	nd time domain response of linear systems, analog modulation met cy modulation and phase modulation, signal and noise modeling u andom processes and performance of analog modulation techniques nication links.	sing probabilistic descrip-	Linear programming algorithms and appli	problems and its dual, simplex method, transportation and warehouse cations to various fields, optimization theory, integer programming; Pert ( rogramming and game theory.	
TS 3357 Prerequisite:	Computer Application in Telecommunications TS 3230 Telecommunications System and Technology	3 Credits	TS 4352 Prerequisite:	Satellite Communication Systems TS 3257 Coding for Communications	3 Credits
	applications for computer hardware and software, consideration of lar, business and research sectors of telecommunications industry.	numan factors, policy and		rowave communication, satellite communication system architecture, orbit ition delay and interference of noise in satellite communication system, a	
TS 3359	Probability and Queuing Theory DA 2203 Probability and Statistical Methods	3 Credits	TC 4252	Vaice and Data Internation	2 Credite
Prerequisite:	DA 2203 Probability and Statistical Methods		TS 4353 Prerequisite:	Voice and Data Integration TS 3230 Telecommunications System and Technology	3 Credits
	om process in telecommunications, distribution of several random van nctions, queuing theory, classification of queue, priority queuing, co			smission and switching over Wide Area Network telecommunications facilit re and evolution of the digital telecommunications network and design of	
multi-access systems.					
multi-access systems. TS 4255	Wireless Communication Systems TS 3257 Coding for Communications	4 Credits	TS 4355 Prerequisite:	Multimedia for Communications	3 Credits
multi-access systems. TS 4255 Prerequisite: Overview of wireless modulation and multi		es, multipath and fading,	Prerequisite:  Various types of me	TS 3257 Coding for Communications dia in communication systems, basic concepts of data and media compu- pression, transmission of uncompressed/ compressed signal in commu	ression, various sta

TS 4356 Prerequisite:	Network Design and Analysis TS 3256 Computer Networks and Open Systems	3 Credits
Overview of current n	network technologies, architectures and services, principles of network ar tation, analysis of user requirements, restrictions and design tradeoffs, cond	
TS 4357 Prerequisite:	Cellular Mobile Systems TS 4255 Wireless Communication Systems	3 Credits
Basics of cellular mo	bile radio systems, propagation effects and spectral considerations, network architecture and cellular system applications.	cellular mobile systems
TS 4363 Prerequisite:	Optical Fiber Communications TS 1201 Physics	3 Credits
Introduction to optica cal components: con receivers, noise in op	al communication systems, types of optical fibers cable, attenuation and inectors, splices and couplers, optical sources, optical transmitters, op itical fiber communication systems, digital optical fiber systems, BER p ts applications (WDM and DWDM).	ptical detectors, optical
TS 4365 Prerequisite:	Antenna Systems and Design TS 4368 Introduction to Electromagnetic Field	3 Credits
Basic properties of	transmitting and receiving antennas, antenna parameters, polarizati antenna arrays, adaptive antenna, broadband antenna design, and antenna	-
TS 4366	Information Theory and Coding	3 Credits
Introduction to basic	principles and fundamental concepts in information theory in the contex coding and channel coding for reliable transmission of digital informa ng techniques.	
TS 4367 Prerequisite:	Introduction to Simulation for Telecommunications System IT 2172 Programming Workshop	3 Credits
	omponents of simulation models in communication systems and comn	nunication system mod-
	Performance Evaluation of Telecommunication Systems	
	DA 2203 Probability and Statistical Methods	3 Credits
		vork modeling, commu-
Prerequisite: Queuing theory for c nications systems perf TS 4388	DA 2203 Probability and Statistical Methods communication systems, workload characterization, communication netv	vork modeling, commu-
Prerequisite: Queuing theory for c nications systems perf TS 4388 Prerequisite: 	DA 2203 Probability and Statistical Methods communication systems, workload characterization, communication netw formance analysis, performance measurement techniques and monitor tool Scalable Internetworking	vork modeling, commu- ls. 3 Credits
Prerequisite: Queuing theory for c nications systems perf TS 4388 Prerequisite: Knowledge and skills works, and discussion TS 4389 Prerequisite:	DA 2203 Probability and Statistical Methods communication systems, workload characterization, communication network formance analysis, performance measurement techniques and monitor tool Scalable Internetworking TS 4261 Interworking Workshop I in designing, implementing, maintaining and troubleshooting today's of secure networks and performance efficiency of networks. Network Security TS 3256 Computer Networks and Open Systems	vork modeling, commu- ls. 3 Credits
Prerequisite: Queuing theory for c nications systems perf TS 4388 Prerequisite: Knowledge and skills works, and discussion TS 4389 Prerequisite: Introduction to netwo	DA 2203 Probability and Statistical Methods communication systems, workload characterization, communication network formance analysis, performance measurement techniques and monitor tool Scalable Internetworking TS 4261 Interworking Workshop I in designing, implementing, maintaining and troubleshooting today's of secure networks and performance efficiency of networks. Network Security	vork modeling, commu- ls. 3 Credits complex enterprise net- 3 Credits network security proto-

Seminar in the advancement of telecommunications science or new research that may affect telecommunications theory. Experts in specialized areas from governmental or private sectors may be invited to lecture on specialized topics. Students may be organized into groups for special activities on interesting topics.

TS 4391 Prerequisite:	Seminar in Information and Communication Technology Fourth-year students and by the consent of the instructor	3 Credits
Seminar in the use of when developing ICT ment in telecommuni	ICT, principles of problem solving using ICT and applications of ICT, effore solutions to problems, entrepreneurship regarding to various application and ICT research that may affect information society. Experts in the sectors may be invited to lecture on specialized topics.	ations in ICT, advance-
TS 4400-99	Selected Topics	3 Credits
Prerequisite:	Fourth-year students and by the consent of the instructor	
Special topics in teleo	communications science that are appropriate for detailed study and res tudents' needs and the instructors' requirements and is in accordance w s science.	
VIS 1101	Visual Communication Design I	3 Credits
	isual problem solving, marks, symbols, semiotics, simplification and tr	anslation in visual lan-
VIS 2102	Visual Communication Design II	3 Credits
Prerequisite:	VIS 1101 Visual Communication Design I	
	spatial composition, history of layout design as well as experimental desigr	n structures.
VIS 2103	Print Production	3 Credits
dustrial printing of b	ess for visual communication design from basic printing such as wood boks, packaging and various types of media, printing process such as press process, print material, special technique in printing including printing	offset printing, Gravure
VIS 2104 Prerequisite:	Advanced Typography ART 2010 Typography	3 Credits
		1.1
Expressive typography	and deployment of type as visual literature, exploration of the typography	design.
VIS 2105	Visual Communication Design III	3 Credits
Prerequisite:	VIS 2102 Visual Communication Design II	
System in design, de and advertising media	sign problem analysis and its solution to business entity, corporate ide s.	entity design, branding
VIS 3106	Sketch Design	3 Credits
	onal and 3 dimensional sketches with various techniques and medium, with skill development such as structuring, shading, and shadowing in	
VIS 3107 Prerequisite:	Visual Communication Design IV VIS 2105 Visual Communication Design III	3 Credits
	es of data and information, information design principles, history, d and advertising series.	esign process, formats,
VIS 3108 Prerequisite:	Publication Design VIS 2105 Visual Communication Design III	3 Credits
Desktop publishing a	pplications, page layout, basic mechanical preparation for printing ind such as catalog, annual report or magazine together with further explora media publication.	
VIS 3110 Prerequisite:	Visual Communication Design V VIS 3107 Visual Communication Design IV	3 Credits

Current climate of visual culture and its impact to our social movement, visual convergence of higher design sensibilities toward human conditions and advertising campaign.

VIS 3111 Prerequisite:	Package Design VIS 2105 Visual Communication Design III	3 Credits
Application of design and c	ommunication principles to package design and marketing goals inclunsumer analysis, materials, and packaging industry.	uding package
VIS 3112 Prerequisite:	Typeface Design VIS 2105 Visual Communication Design III	3 Credits
Principles of typeface design	n, classical typefaces and the analysis of typographic forms and propo for professionalism and practical usage.	ortions, the cre-
VIS 3409 Prerequisite:	Idea-Generation Techniques VIS 2105 Visual Communication Design III	3 Credits
	ea generated techniques, mind-mapping, brainstorming, concept devel	opment, execu-
VIS 3413 Prerequisite:	Advertising Graphics VIS 2105 Visual Communication Design III	3 Credits
	advertisements, color application, typography, illustration, art direction, r various kinds of medias.	mood and tone,
VIS 3414 Prerequisite:	Copywriting VIS 2105 Visual Communication Design III	3 Credits
	llysis of information, structure of content, art of writing, persuasive tech	niques, applica-
VIS 4115	Design Management	3 Credits
Contemporary issues of the o	cultural, technological, and environmental influences of design, researc identities, organizational management, and factors in the design industry	
	Art Thesis I VIS 3110 Visual Communication Design V	3 Credits
	bose their own topics which have to be approved by the Thesis Comr n gathering and analysis.	nittee. Students
VIS 4117 Prerequisite:	Signage System and Wayfinding Design VIS 2105 Visual Communication Design III	3 Credits
	stem and way finding, conceptual development, hands-on production d 3D models.	of signage, way
VIS 4118 Prerequisite:	Display and Exhibition Design VIS 2105 Visual Communication Design III	3 Credits
Application of graphics to 3-	-dimensional displays based on commercial objectives, function, creativ pes of displays: P.O.P., kiosk, including exhibition and event design.	ity and beauty.
VIS 4121	Self Promotion	3 Credits
Self promotion strategies, ut	ilizing new technology, synthesis of media in the promotion of conte ness aspects of a design career, portfolio and professional presentation tech	
VIS 4122 Prerequisite:	Art Thesis II VIS 4116 Art Thesis I	6 Credits

Students are required to continue their project and complete sketch designs following the information analysis from VIS 4116 Art Thesis I. Students must finish their final project and organize their Art Thesis Exhibition in public.

VIS 4123	Individual Project	3 Credits
	upper level students to delve into specific areas of study wh Detailed studies may include integrated branding, public ser	the second se
VIS 4124	Book Binding	3 Credits
or magazines for p	g books with different materials, techniques and ideas by rint production, such as perfect binding, flat back journal k nding, and sewing with four needles including process pr s.	pinding, cross side stitch or slab binding,
VIS 4125	Sketch Fashion Design	3 Credits
15 1125	3	5 creates
Creative expression	in fashion design, fashion sketching, creative design, dra critical reasoning and effects they have on this diversified and	aping, and pattern drafting, importance
Creative expression		aping, and pattern drafting, importance
Creative expression of communication, o	critical reasoning and effects they have on this diversified and	aping, and pattern drafting, importance d global industry.
Creative expression of communication, o VIS 4419 Prerequisite: Planning process of	critical reasoning and effects they have on this diversified and Production Design VIS 3413 Advertising Graphics of various advertising medias, pre-production, 2 dimensio	aping, and pattern drafting, importance d global industry. 3 Credits
Creative expression of communication, o VIS 4419 Prerequisite:	critical reasoning and effects they have on this diversified and Production Design VIS 3413 Advertising Graphics of various advertising medias, pre-production, 2 dimensio	aping, and pattern drafting, importance d global industry. 3 Credits





# UNDERGRADUATE ADMISSION SCHEDULES ACADEMIC YEAR 2015

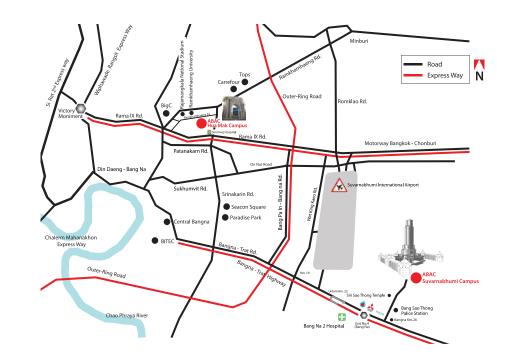
## ACADEMIC YEAR 2015

Semester 1/2015 : August 2015	
Application Forms Available	December 1, 2014 - March 17, 2015
Examination Date	On Application Date
Examiniation Results	On Application Date
Intensive Courses Registration	March 1 - 21, 2015
Intensive Courses	March 23 - June 6, 2015
Foundation Courses	June 8 - July 17, 2015
Registration Period	July 27 - August 6, 2015
Instruction Begins	August 10, 2015
Semester 2/2015 : January 2016	
Application Forms Available	October 15 - November 5, 2015
Examination Date	On Application Date
Examiniation Results	On Application Date
Intensive Courses Registration	November 21 - 22, 2015
Intensive Courses	November 23 - December 18, 2015
Registration Period	December 29-30, 2016
Instruction Begins	January 4, 2016



# For students returning from abroad or Non-Thai High School

Semester 1/2015 : October 2015	
Application Forms Available	September 1 - October 1, 2015
Placement Test	On Application Date
Placement Test Results	On Application Date
Registration Period	October 2, 2016
Instruction Begins	October 5, 2016
Semester 2/2015 : March 2016	
Application Forms Available	January 5 - February 29, 2016
Placement Test	On Application Date
Placement Test Results	On Application Date
Registration Period	March 1, 2016
Instruction Begins	March 2, 2016
Summer Session : June 2016	
Application Forms Available	April 20 - June 2, 2016
Placement Test	On Application Date
Placement Test Results	On Application Date
Registration Day	June 3, 2016
Instruction Begins	June 6, 2016



Assumption University of Thailand | University Calendar

#### ASSUMPTION UNIVERSITY

Hua Mak Campus 592/3 Ramkhamhaeng 24, Hua Mak, Bangkok Thailand 10240 Tel. (662) 719-1919 Fax. (662) 719-1509

## Suvarnabhumi Campus

88 Moo 8 Bang Na-Trad Km. 26 Bangsaothong, Samuthprakarn Thailand 10540 Tel. (662) 723-2222 Fax. (662) 707-0408

#### ABAC City Campus

Zen Courses Store @ CentralWorld, 14th flr., 4, 4/5 Rajdamri Road, Phatumwan Bangkok 10330 Tel. (662) 100-9115 - 8 Fax (662) 100-9119