



PROGRAM OVERVIEW

Synthesizing science, mathematics, technology and application-oriented design, you'll learn how to use cutting-edge technology to drive innovation. Our Bachelor of Science in Electrical Engineering uniquely combines the rigor of theory with hands-on application and laboratory experiments to help you become an expert in the field.

Over the course of the first two years of study you'll get to grips with the high-level mathematics and scientific principles needed to excel in this field, whilst exploring world-class design practices in our state-of-the-art labs. The second and third years lend themselves to studying the core electrical engineering subjects that will provide you with a firm foundation for a range of advanced topics, concentrations and specializations. The fourth year is spent undertaking our unique co-op.

In your final year, you'll typically specialize in an area that interests you professionally while undertaking a significant multidisciplinary senior design project that leverages your comprehensive knowledge of electrical engineering.

With a shortage of electrical engineering talent in the job market, demand for RIT Dubai graduates remains at an all-time high and graduates from this program are sought after employers globally.

POSSIBLE CAREER OPTIONS

Our Electrical Engineering alumni work in every conceivable industry, from medical to military, power distribution to communication and financial services. The computer industry attracts many of our graduates, who are innovators with a track record of success in areas as diverse as research and development to marketing and sales.

Many of our students also move on to master's studies either at RIT Dubai or other international universities in the U.S., U.K. and globally.

ACCREDITATION

The Bachelor of Science in Electrical Engineering program is accredited by the UAE Ministry of Education - Higher Education Affairs and is licensed by the KHDA. It is also accredited by the Accreditation Board for Engineering and Technology (ABET), ensuring you'll graduate with a top internationally recognize engineering degree.



Engineering
Accreditation
Commission



UNITED ARAB EMIRATES
MINISTRY OF EDUCATION
HIGHER EDUCATION AFFAIRS



"The faculty and staff are all dedicated to student success and innovation, making RIT and the Electrical engineering department an exciting place to learn.

Another great aspect of RIT Dubai is that we get a chance to interact with students from other countries and learn their cultures and traditions."

Farrukh Khan

ICT FUND

RIT Dubai is a proud partner of the ICT Fund under the 'Betha' Scholarship program for Emirati students. Eligible applicants can apply for funding for the BS Electrical Engineering program.

Electrical Engineering - Bachelor of Science Degree, Typical Course Sequence

Course		Semester Credit Hrs.	Course		Semester Credit Hrs.
First Year			Third Year		
MATH - 181, 182	Project-Based Calculus I, II	8	MATH - 381	Complex Variables	3
CHMG - 131	General Chemistry for Engineering	3	EEEE - 374	Electromagnetic Fields and Transmission Lines	4
UWRT - 150	Writing Seminar	3	EEEE - 353	Linear Systems	4
EEEE - 105	EE Practicum	1	EEEE - 380	Analog Electronics	4
ANTH 365	Islamic Culture	3		LAS Immersion 1	3
	LAS Perspective 1, 2, 3(Artistic, Ethical, Global)	9	EEEE 499	Cooperative Education	Co-op
PHYS - 211	University Physics I	4			
EEEE - 120	Digital Systems I	3			
ACSC-10	Year One	0			
Second Year			Fourth Year		
MATH - 219	Multivariable Calculus	3	MATH - 251	Probability and Statistics I	3
MATH - 220	Vector Calculus	1	EEEE - 420	Embedded Systems Design	3
PHYS - 212	University Physics II	4	EEEE - 414	Control Systems Design	3
CMPR - 271	Computational Problem Solving for Engineers	3	EEEE - 480	Digital Electronics	3
				Free Elective	3
EEEE - 281	Circuits I	3	EEEE 499	Cooperative Education	Co-op
	LAS Perspective 4 (Social)	3	Fifth Year		
MATH - 231	Differential Equations	3	EEEE - 484	Communication Systems (WI)	3
EEEE - 260	Semiconductor Devices	3	EEEE - 497, 498	Senior Design I, II	6
EEEE - 282	Circuits II	3	EEEE - 483	Mechatronics	3
EEEE - 220	Digital Systems II	3		Professional Electives	9
	Restricted Science Elective	3		LAS Immersion 2, 3	6
				Free Elective	3

Total Semester Credit Hours - 129

OPTIONS

At RIT Dubai, you'll have the option of graduating with a Bachelor of Science in **Electrical Engineering** or a Bachelor of Science in **Electrical Engineering - Energy Option**, a fascinating program which will lead to a wide range of opportunities and careers associated with energy-intensive systems and how they relate to the environment. Energy and Environment students will explore an energy systems design project over the course of their studies and pursue co-op employment in a related field. With the option to study or transfer to RIT's New York campus as an Electrical Engineering major, you could also choose to specialize in computer engineering, robotics or wireless communication.

COOPERATIVE EDUCATION (Internship)

By studying at RIT Dubai you'll undertake a 50 week, full-time, paid cooperative internship placement as part of your program. You'll spend time honing your skills in a professional environment - and as a Bachelor of Science in Management student, you'll also have the unique experience of conducting a placement abroad. Many students end up working for the company where they did their placement.

MINORS:

- » Industrial Engineering
- » Mechanical Engineering
- » Computing Security
- » Networking and Systems Administration
- » Business Administration

R·I·T Dubai

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