R·I·T Dubai

جامعة روتشستر للتكنولوجيا – نيويورك، أمريكا
Rochester Institute of Technology, NY, USA

BACHELOR OF SCIENCE IN COMPUTING SECURITY

PROGRAM OVERVIEW

As technology advances at a rapid rate, protecting individuals, companies, government entities and global organizations from cyber threats is becoming a huge sector, with career opportunities spanning the globe. Our Bachelor of Science in Computing Security has been designed to prepare you to excel in this rapidly growing area.

If you love computer science, crave a program that offers a hands-on curriculum and a range of active learning experiences and gives plenty of opportunities for independent exploration at an advanced level, the Bachelor of Science in Computing Security will be a perfect fit.

Considered a leading program in computing and network security and forensics by industry experts including the U.S. Department of Homeland Security, the Department of Defense and the National Security Agency, the degree offers you a high level of specialization beyond what is provided by more general majors in Information Systems or Information Technology. You'll begin by getting to grips with a wide breadth of computing disciplines including programming, scripting, databases, computing security, cryptography, security policy, networks, systems and network administration. You'll then have the chance to focus on a particular area of security such as forensics, mobile device forensics or network/computing system security.

By the time you graduate you will be an expert in the identification of computer security vulnerabilities, the detection of computer security exploits, and the prevention or mitigation of the resulting attack, making you highly employable.

POSSIBLE CAREER OPTIONS

As a graduate of RIT Dubai's Bachelor of Science in Computing Security, you'll be expertly prepared to provide the support demanded by enterprises of all sizes as well as local, national and international security agencies. Possible career options include systems security analysis and design, enterprise system security architecture and IT systems forensics consultant.

ACCREDITATION

The Bachelor of Science in Computing Security program is accredited by the UAE Ministry of Education - Higher Education Affairs and is licensed by the KHDA.

**UNITED ARAB EMIRATES
MINISTRY OF EDUCATION**
HIGHER EDUCATION AFFAIRS

RIT NY has been designated an Academic Center of Excellence by the Department of Homeland Security, The Department of Defense and the National Security Agency, meaning you'll be graduating from one of the top U.S. universities in the field.

"The Computing Security degree is a unique program, with great and inspiring professors and a specialized set of courses that is recognized by many international companies across the world.

With the cornerstone Co-op program, RIT Dubai students have a significant advantage when it comes to finding jobs in the correct fields. I would highly recommend others to join and experience RIT student life."

Yash Arora

Computing Security - Bachelor of Science Degree, Typical Course Sequence

Course		Semester Credit Hrs.	Course		Semester Credit Hrs.
FIRST YEAR			THIRD YEAR		
CSEC - 101	Fundamentals of Computing Security	3	CSCI - 462	Introduction to Cryptography	3
CSCI - 141, 142	Computer Science I, II	8	PUBL - 363	Cyber Security Policy and Law	3
MATH - 181, 182	Project-based Calculus I, II	8		LAS Perspectives 2 (Artistic - WI)	3
	LAS Perspective 1 (Global)	3	CSEC - 472	Authentication and Security Models	3
UWRT - 150	Wring Seminar	3		Computing Security Electives 1, 2	6
MATH - 190	Discrete Mathematics for Computing	3	CSEC - 380	Principles of Web App Security	3
NSSA - 241	Intro to Routing and Switching	3		Free Electives 1, 2	6
ANTH - 365	First Year Seminar: Islamic Culture	3		Cooperative Education (summer)	Co-op
ACSC - 010	Year One	0	ISTE - 230	Introduction to Database and Data Modeling	3
SECOND YEAR			FOURTH YEAR		
CSCI - 243	The Mechanics of Programming	3		Computing Security Electives 3, 4, 5, 6	12
MATH - 251	Probability and Statistics I	3		LAS Immersion 1 (Writing Intensive)	3
CSCI - 250	Concepts of Computer Systems	3	PHIL 102/ 202/306	LAS Immersion 2, 3	6
NSSA - 221	Systems Administration I	3		Ethics Elective	3
MATH - 241/ MATH - 252	Linear Algebra/Prob & Stats II	3	CSEC - 490	Free Electives 3	6
PHYS - 211, 212	University Physics I, II	8		Capstone in Computing Security (WI)	3
NSSA - 245	Network Services	3			
	LAS Perspectives 2, 4 (Ethical, Social)	6			
	Cooperative Education (summer)	Co-op			

Total Semester Credit Hours - 126

COOPERATIVE EDUCATION

By studying at RIT Dubai you'll undertake a 24 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 student, you can choose 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
» Networking and Systems Administration
» Business Administration
» Mathematics

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 Computing and Information Technologies program.