

COMPUTATIONAL SCIENCE ENGINEERING

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Plan Code: 3125

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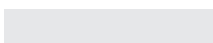
Code Number Course Title Units

REQUIRED COURSES

SC	101	Introduction to Computer Science	3
SC	102	Discrete Structures	3
SC	103	Algorithms and Complexity	3
SC	104	Operating Systems	3
SC	105	Computer Architecture	3
SC	106	Computer Networks	3
SC	107	Computer Security	3
SC	108	Computer Graphics	3
SC	109	Computer Vision	3
SC	110	Computer Robotics	3
SC	111	Computer Simulation	3
SC	112	Computer Modeling	3
SC	113	Computer Optimization	3
SC	114	Computer Numerical Analysis	3
SC	115	Computer Data Science	3
SC	116	Computer Bioinformatics	3
SC	117	Computer Chemistry	3
SC	118	Computer Physics	3
SC	119	Computer Earth Science	3
SC	120	Computer Environmental Science	3

Subtotal Units 28

SC	121	Computer Systems Administration	3
SC	122	Computer Forensics	3
SC	123	Computer Incident Response	3
SC	124	Computer Malware Analysis	3
SC	125	Computer Network Security	3
SC	126	Computer System Security	3
SC	127	Computer Security Auditing	3
SC	128	Computer Security Policy	3
SC	129	Computer Security Law	3
SC	130	Computer Security Ethics	3
SC	131	Computer Security History	3
SC	132	Computer Security Future	3
SC	133	Computer Security Research	3
SC	134	Computer Security Education	3
SC	135	Computer Security Industry	3
SC	136	Computer Security Government	3
SC	137	Computer Security Academia	3
SC	138	Computer Security Society	3
SC	139	Computer Security Culture	3
SC	140	Computer Security Values	3



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Students learn the in-demand skills for running wired and wireless networks and prepare for a career in IT.

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- Distinguish the differences between local area networks and wide area networks from a hardware and protocol point of view.
- Compare and contrast various wired and wireless networking technologies.

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Code Number	Course Title	Units
REQUIRED COURSES		
COSN 5	Computer Hardware Fundamentals	4
COSN 10	Networking Fundamentals	3
Total Units		7