BS IN CYBER SECURITY

Code	Title Ho	urs	
CSET 1100	Introduction to Computer Science and Engineering Technology	4	
PHIL 1010	Introduction To Logic	3	
ENGT 1000	Engineering Technology Orientation	1	
ENGL 1110	College Composition I	3	
Social Science Elective. Select one approved 3 semester hour course from Anthropology (ANTH), Economics (ECON), Geography (GEPL), Political Science (PSC), Psychology (PSY), Social Work (SOCW) or Sociology (SOC).			
CSET 1200	Object Oriented Programming and Data Structures	3	
PHYS 2070	General Physics I	5	
Select one of the	following Communications Elective	3	
COMM 2600	Public Presentations		
COMM 2820	Group Communication		
COMM 2840	Interpersonal Communication		
ENGL 2950	Technical Writing	3	
MATH 2450	Calculus For Engineering Technology I	4	
PHYS 2080	General Physics II	5	
Multicultural Elec	tive. Select one 3 semester hour course that	3	
	rsity of U.S. Culture requirement.		
CSET 2200	PC and Industrial Networks	4	
MATH 2460	Calculus For Engineering Technology II	4	
CYBR 1400	Ethical Behavior in Computing	4	
CSET 2520	Discrete Structures	3	
CYBR 2410	Digital Forensics	3	
Social Science Elective. Select one approved 3 semester hour course from Anthropology (ANTH), Economics (ECON), Geography (GEPL), Political Science (PSC), Psychology (PSY), Social Work (SOCW) or Sociology (SOC).			
MATH 2890	Numerical Methods And Linear Algebra	3	
ENGT 2000	Professional Development	1	
ENGT 3010	Applied Statistics And Design Of Experiments	4	
CYBR 3350	Managing Security Projects	3	
CYBR 3200	Client-Server Security Models	3	
Natural Science Elective. Select one course from: Anatomy/ Physiology (EXSC), Astronomy (ASTR), Biology (BIOL), Chemistry (CHEM), Earth, Ecology and Environmental Science (EEES), or Physics (PHYS).			
CSET 3150	Introduction to Algorithms	4	
CSET 3300	Database-Driven Web Sites	4	
EECS 4720	Fundamentals of Cyber Security	3	
INFS 3400	Principles of Information Systems Security	3	
CSET 4250	Applied Programming Languages	3	
CSET 3600	Software Engineering and Human Interfacing	4	
CSET 4350	Operating Systems	3	
CSET 4750	Computer Networks And Data Communication	4	
CYBR 4500	Risk Vulnerability Analysis	3	

Humanities/Multicultural Elective. Select one 3 semester hour Humanities/Fine Arts elective that also satisfies one of the two multi-cultural elective requirements ("double-dip"). Do not select a Philosophy (PHIL) course.			
CYBR 4200	Software Assurance	4	
ENGT 4050	Senior Technology Capstone	3	
CSET 4850	Computer and Network Security	4	
Total Hours		124	
First Year			
First Term		Hours	
CSET 1100	Introduction to Computer Science and Engineering Technology	4	
PHIL 1010	Introduction To Logic	3	
ENGT 1000	Engineering Technology Orientation	1	
ENGL 1110	College Composition I	3	
Social Science Ele	ective	3	
	Hours	14	
Second Term			
CSET 1200	Object Oriented Programming and Data Structures	3	
PHYS 2070	General Physics I	5	
Communication E	Elective	3	
ENGL 2950	Technical Writing	3	
	Hours	14	
Second Year			
First Term			
MATH 2450	Calculus For Engineering Technology I	4	
PHYS 2080	General Physics II	5	
CSET 2200	PC and Industrial Networks	4	
Multicultural Elec	tive	3	
	Hours	16	
Second Term			
MATH 2460	Calculus For Engineering Technology II	4	
CYBR 1400	Ethical Behavior in Computing	4	
CSET 2520	Discrete Structures	3	
CYBR 2410	Digital Forensics	3	
Social Science Ele	ective	3	
	Hours	17	
Third Year			
First Term			
MATH 2890	Numerical Methods And Linear Algebra	3	
ENGT 2000	Professional Development	1	
ENGT 3010	Applied Statistics And Design Of Experiments	4	
CYBR 3350	Managing Security Projects	3	
CYBR 3200	Client-Server Security Models	3	
	Hours	14	
Second Term			
Natural Sciences Elective			



BS in Cyber Security

	Total Hours	124
	Hours	17
CSET 4850	Computer and Network Security	4
ENGT 4050	Senior Technology Capstone	3
CYBR 4200	Software Assurance	4
Humanities/Mul	ticultural Elective	3
CYBR 4500	Risk Vulnerability Analysis	3
Second Term		
	Hours	17
CSET 4750	Computer Networks And Data Communication	4
CSET 4350	Operating Systems	3
CSET 3600	Software Engineering and Human Interfacing	4
CSET 4250	Applied Programming Languages	3
INFS 3400	Principles of Information Systems Security	3
First Term		
Fourth Year		
	Hours	15
EECS 4720	Fundamentals of Cyber Security	3
CSET 3300	Database-Driven Web Sites	4
CSET 3150	Introduction to Algorithms	4

- 1. An ability to apply knowledge, techniques, skills, and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline.
- 2. An ability to design systems, components, or processes meeting specified needs for broadly defined engineering problems appropriate to the discipline.
- 3. An ability to apply written, oral, and graphical communication in broadly defined technical and non-technical environments, and an ability to identify and use appropriate technical literature.
- 4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes.
- 5. An ability to function effectively as a member as well as a leader on technical teams.
- 6. An ability to apply security principles and practices to maintain operations in the presence of risks and threats.

