

Applied Computing

Catalog Term: Fall 2019

Total credit hours: 120

CYBERSECURITY FOCUS



FRESHMAN			
FALL	Hr	SPRING	Hr
ENGL 101 * College English I P: See Course Catalog	3	ENGL 102 * College English II P: ENGL 101 with "C" or better	3
MATH 111 College Algebra	3	MATH 123 Trigonometry	3
General Education * Intro S&BS WSUE 102A Intro to Innovation & Technology	3	General Education * Intro S&BS PSY 111 General Psychology	3
COMM 111 * Public Speaking	3	ENGR 220 Applied Analog & Digital Electronics P: MATH 111	3
ENGT 121 Cyber Security Awareness Fall Only	3	ENGT 222 Applied Computing and Networks I Spring Only	3
Total Hours	15	Total Hours	15

SOPHOMORE			
FALL	Hr	SPRING	Hr
PHYS 213 General College Physics 1 P: MATH 112/123	5	PHYS 214 General College Physics 2 P: PHYS 213	5
General Education * Intro Humanities Recommended: PHIL 125 Introductory Logic	3	General Education Further Study * Recommended: PSY 323 Social Psychology or PSY 324 Psychology of Personality P: PSY 111	3
General Education * Intro Fine Arts Note a	3	ENGT 324 Applied Web Apps & Database Development P: ENGT 222 Spring Only	3
ENGT 203 Introduction Design Project P: WSUE 102A Fall Only	1	ENGT 322 Applied Programming & Scripting P: ENGT 222 Spring Only	3
ENGT 321 Applied Computing & Networks II P: ENGT 222 Fall Only	3	BADM 161 Word * BADM 162 Excel * BADM 163 Access & PowerPoint *	3
Total Hours	15	Total Hours	17

JUNIOR			
FALL	Hr	SPRING	Hr
PSY 301 Psychological Statistics P: PSY 111	3	PHIL 354 Ethics and Computers P: Junior Standing Spring Only	3
ENGT 305 Intermediate Design Project P: ENGT 203 Fall Only	2	ENGT 326 Cyber Operations P: ENGT 222, ENGT 321, ENGT 322 Spring Only	4
MIS 605 Systems Analysis & Design P: Junior Standing Fall Only	3	MIS 696 Management of IS Function P: Junior Standing Spring Only	3
ENGT 363 Human Threats to Cyber Security P: ENGT 121, PSY 111 Fall Only	3	PSY 405 Human Factors Psychology P: PSY 111	3
Certificate/Technical Elective Note b	3	Certificate/Technical Elective Note b	3
Engineer of 2020 Requirement (1 of 3) See notes		Engineer of 2020 Requirement (2 of 3) See notes	
Total Hours	14	Total Hours	16

SENIOR			
FALL	Hr	SPRING	Hr
ENGT 403 Senior Design Project P: ENGT 301 Fall Only	3	ENGT 464 Secure Web Development P: ENGT 324, ENGT 326 Spring Only	3
ENGT 463 Cyber Risk Management P: ENGT 326 Fall Only	3	ENGT 462 Cyber Physical Systems P: ENGR 220, ENGT 326 Spring Only	4
ENGT 461 Digital Forensics P: ENGT 326 Fall Only	3	Certificate/Technical Elective Note b	3
Certificate/Technical Elective Note b	3	Certificate/Technical Elective Note b	3
Certificate/Technical Elective Note b	3		
		Engineer of 2020 Requirement (3 of 3) See notes	
Total Hours	15	Total Hours	13

Notes: Students admitted after fall 2007 must fulfill the Engineer 2020 requirements.

* *May be available as an online or hybrid class.*

P: Prerequisite

a. Humanities/Fine Arts/Social & Behavioral Science Courses must be from an approved list which appears in the Schedule of Courses and/or the community college Transfer Guides.

b. Technical Electives: ACCT 200:799, BLAW 431 or 600:799, CI 191 or 300:799, CS 194, 211, 238 or 300:799, DS 400:700, ECON 201, 202 or 300:799, EE 282 or 300:799, ENGR 101, 200:799, ENGT 300:799, ENTR 300:799, HMCD 308, IME 255, 258, 258L or 300:799, MART 200:799, MATH 241, 242, 243 or 300:799, MGMT 400:799, MIS 325 or 395 or 400:799, MKT 300:799, PSY 323, 324, 405, 407 or 508AB

Core Certificate: Fundamentals of Information Technology (12 cr) - ENGT 121, ENGT 222, ENGT 321, ENGT 322

Required Cybersecurity Certificates:

Cybersecurity Essentials (13 cr) - ENGT 461, ENGT 462, ENGT 463, ENGT 464

Data and Web Security (15 cr) - BADM 161, BADM 162, BADM 163, MIS 605, MIS 696

Human Factors in Security and Technology (15 cr) - ENGT 363, ENGT 461, ENGT 463, PSY 323, PSY 405