



## Degree Requirements: Computer Science (415)–Bachelor of Science

School of Graduate and Professional Studies

Department of Computing and Technology

Catalog Year: 2019-2021

General Education Requirements (44–46 hours)		
Communication (9 hours)	American History (3 hours)	Behavioral Science (3 hours)
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113
Mathematics (3–5 hours)	Political Science (3 hours)	Economics (3 hours)
MATH 1513 or 2215	PS 1113	AGRC 2013, ECON 2003, ECON 2013, GEOG 3023
Science* (8–9 hours)	Humanities (6 hours)	Health and Wellness* (4 hours)
Biological Science (4 hours) Physical Science (4–5 hours) *One course must be a lab science; see Gen Ed course list.	Diversity (3 hours) Aesthetics (3 hours) *One course must be taken from each category; see Gen Ed course list.	SES 2003, 2013, 2023, MSL 1112, PE 1--1, 2--1, 2--2 *Requirement waived for some students; see Gen Ed course list.
General Education Electives (To total at least 44 hours, if needed)*.		
*Must be selected from the list of approved <a href="#">general education</a> courses (MSL and PE prefixes excluded).		
University Requirements		
UNIV 1001 or 1113–1-3 hours	Computer Literacy–IT 1013 or MIS 2113	Capstone Experience–CS 4233
Major Requirements (68 hours)		
Required Courses (42 hours)	Additional Requirements (26 hours)	
CS 1314/L Computer Sci I & Lab (SP) CS 1514/L Computer Sci II & Lab (FA) CS 1523 Discrete Math (FA) CS 2413 Data Structures (SP) CS 2513 Comp Organ & Architect (SP) CS 3013 Network Programming (FA) CS 3183 Database Design & Mgmt (SP) CS 3513 Operating Systems (FA) CS 3713 Algorithm Analysis (FA) CS 4204/L Software Engin & Lab (FA) CS 4233 Capstone Project (SP) IAS 2233 Intro Info Assur/Security (SP) IT 1063 Intro Networking (FA) <i>FA=Fall; SP=Spring; SU=Summer</i>	<b>Electives (13 hours)</b> Choose from the following: CS 2333 Web Systems Technologies CS 3001-3 Seminar in Computer Sci CS 3813 Parallel Computing CS 3573 Computer Graphics CS 4001-3 Seminar in Computer Sci CS 4223 Prog Lang & Compilers IAS- prefix courses IT 2064/L Internetworking Tech & Lab IT 3603 Human Comp Interface Devel IT 4342 Legal/Ethical Issues for IT Pro	<b>Mathematics (13 hours)</b> (Some Students may also need to take some or all of the following courses as prerequisites: MATH 0013, 0103, 0213, 1513, or 1613.) MATH 1613 Plane Trigonometry MATH 2215 Calc & Analytic Geom I MATH 2235 Calc & Analytic Geom II MATH 2613 Found of Mathematics MATH 3333 College Geometry MATH 4113 Intro Operations Research MATH 4423 Number Theory MATH 4433 Matrix Algebra STAT 2013 Intro Prob & Stats I
General Electives (to Complete 124 hours)		
Graduation Requirements		
Department Requirements Minimum 124 Total Credit Hours Minimum 40 Upper Division Credit Hours Minimum 55 Liberal Arts & Science Credit Hours Minimum 30 Credit Hours in Residence at Cameron	Minimum 60 Credit Hours at a 4-Year Institution Minimum ½ of Major Upper Div Hours Completed at CU 15 of last 30 Credit Hours or ½ of Major Completed at CU Retention GPA 2.0; Cameron GPA 2.0 Complete Graduation Application Online	