



Degree Plan: Computer Science– Bachelor of Science

[ST-BS-COMS]

School of Graduate and Professional Studies

Department of Computing and Technology

Catalog Year: 2016-2017

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 1413, 1513, 1613, 2215, 2713, STAT 1513	PS 1113	AGRC 1334, ECON 2013, GEOG 3023, CRM 3603
Science* – 8-9 hours	Humanities – 6 hours	Health and Wellness* – 4 hours
Biological Science (4 hours) Physical Science (4-5 hours) <small>*One course must be a lab science; see undergraduate catalog for list.</small>	Diversity (3 hours) Aesthetics (3 hours) <small>*One course must be taken from each category; see undergraduate catalog for list.</small>	HLTH 1012, 1053, 1063, any course from the following: PE 1--1, 2--1, 2--2 <small>*Requirement waived for some students; see undergraduate catalog for list.</small>
General Education Non-PE Electives (To total at least 44 hours, if needed)*.		
General Education Electives must be selected from the list of approved Gen Ed courses, exclusive of those with the PE prefix. For a full list of General Education courses, see: http://www.cameron.edu/catalog/general_ed.html		
University Requirements		
UNIV 1001 or 1113 – 1-3 hours	Computer Literacy – CIS 1013 or MIS 2113	Capstone Experience – CS 4233
Major Requirements – 68 hours		
Required Courses –42 hours	Additional Requirements – 26 hours	
CS 1314/L Computer Science I & Lab CS 1514/L Computer Science II & Lab CS 1523 Discrete Math CS 2413 Data Structures CS 2513 Computer Organization & Architecture CS 3013 Network Programming CS 3183 Database Design & Management CS 3513 Operating Systems CS 3713 Algorithm Analysis CS 4204/L Software Engineering & Lab CS 4233 Capstone Project IAS 2233 Intro to Information Assurance/Security IT 1063 Intro to Networking	Electives (13 hours) Choose from the following: CS 2333 Web Systems Technologies CS 3001-3 Seminar in Computer Science CS 3813 Parallel Computing CS 3573 Computer Graphics CS 4001-3 Seminar in Computer Science CS 4223 Programming Languages & Compilers IAS- prefix courses IT 2064/L Internetworking Technologies & Lab IT 3603 Human Computer Interface Development IT 4342 Legal and Ethical Issues for the IT Professional	Mathematics (13 hours) (Some Students may also need to take some or all of the following courses as prerequisites: MATH 0013 MATH 0103, MATH 0213, MATH 1513, MATH 1613.) MATH 2215 Calculus & Analytic Geometry I MATH 2235 Calculus & Analytic Geometry II MATH 2613 Foundations of Mathematics MATH 3333 College Geometry MATH 4113 Introduction to Operations Research MATH 4423 Number Theory MATH 4433 Matrix Algebra STAT 2013 Intro Probability & Statistics 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 Division 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 at Registrar’s Office