COMPUTING - BA

Program Requirements

First Year			
Fall		Semester Credit	
		Hours	
CSCE 181	Introduction to Computing ¹	1	
ENGL 103	Introduction to Rhetoric and Composition	3	
or ENGL 104	or Composition and Rhetoric		
Select one of the following: 1			
CSCE 110	Programming I		
CSCE 111	Introduction to Computer Science Concepts and Programming		
CSCE 206	Structured Programming in C		
Select one of the following:			
MATH 142	Business Calculus ²		
MATH 147	Calculus I for Biological Sciences		
MATH 151	Engineering Mathematics I		
MATH 171	Calculus I		
University Core C	curriculum (http://catalog.tamu.edu/	3	
2 2	eneral-information/university-core-		
curriculum/) 3			
	Semester Credit Hours	14	
Spring	1	-	
CSCE 120	Program Design and Concepts ¹	3	
Select one of the	•	3	
MATH 140	Mathematics for Business and Social Sciences ²		
MATH 148	Calculus II for Biological Sciences		
MATH 152	Engineering Mathematics II		
MATH 168	Finite Mathematics		
MATH 172	Calculus II		
PHIL 240	Introduction to Logic		
University Core Curriculum (http://catalog.tamu.edu/ undergraduate/general-information/university-core- curriculum/) ³			
University Core C	curriculum (http://catalog.tamu.edu/	3	
undergraduate/g curriculum/) ³	eneral-information/university-core-		
Concentration ele	ective ⁴	3	
	Semester Credit Hours	15	
Second Year Fall			
CSCE 221	Data Structures and Algorithms ¹	4	
CSCE 222/	Discrete Structures for Computing	3	
ECEN 222			
Select one of the	following:	3	
STAT 211	Principles of Statistics I		
STAT 301	Introduction to Biometry		
STAT 302	Statistical Methods		
STAT 303	Statistical Methods		

University Core Curriculum (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/) ³			
Concentration ele	ctive ⁴	3	
	Semester Credit Hours	16	
Spring			
CSCE 312	Computer Organization ¹	4	
CSCE 314	Programming Languages ¹	3	
Select one of the f	following:	3	
COMM 203	Public Speaking		
COMM 205	Communication for Technical Professions		
ENGL 210	Technical and Professional Writing		
University Core Curriculum (http://catalog.tamu.edu/ undergraduate/general-information/university-core- curriculum/) ³			
Concentration ele	ctive ⁴	3	
	Semester Credit Hours	16	
Third Year			
Fall			
CSCE 313	Introduction to Computer Systems ¹	4	
CSCE 331	Foundations of Software Engineering ¹	4	
CSCE 481	Seminar ¹	1	
University Core Cu	ırriculum (http://catalog.tamu.edu/	3	
curriculum/) 3	neral-information/university-core-		
Concentration ele	ctive ⁴	3	
	Semester Credit Hours	15	
Spring			
CSCE 411	Design and Analysis of Algorithms ¹	3	
University Core Curriculum (http://catalog.tamu.edu/ undergraduate/general-information/university-core- curriculum/) ³			
Concentration ele	ctive ⁴	3	
Concentration ele	ctive ⁴	3	
Prescribed electiv	e ⁵	3	
	Semester Credit Hours	15	
Fourth Year Fall			
University Core Curriculum (http://catalog.tamu.edu/ undergraduate/general-information/university-core- curriculum/) ³			
University Core Curriculum (http://catalog.tamu.edu/ undergraduate/general-information/university-core- curriculum/) ³			
Concentration elective ⁴			
Concentration elective ⁴			
Prescribed electiv		3	
	Semester Credit Hours	15	
Spring			
CSCE 482	Senior Capstone Design ¹	3	
University Core Curriculum (http://catalog.tamu.edu/ undergraduate/general-information/university-core- curriculum/) ³			
Concentration elective ⁴			

Concentration elective ⁴	2
Prescribed elective ⁵	3
Semester Credit Hours	14
Total Semester Credit Hours	120

- All CSCE courses (excluding the prescribed electives) require a grade of C or better.
- Students who select MATH 140 and MATH 142 as their Math options must take MATH 140 and receive a grade of C or better before taking MATH 142.
- Of the 30 hours shown as University Core Curriculum electives, 9 must be from life and physical sciences, 3 from creative arts, 3 from language, philosophy and culture, 3 from social and behavioral sciences, 6 from American history and 6 from government/political science. The required 3 hours of International and Cultural Diversity and 3 hours of Cultural Discourse may be met by courses also satisfying the creative arts, language, philosophy and culture, social and behavioral sciences and American history requirements if they are also on the approved list of International and Cultural Diversity (http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/) and Cultural Discourse (http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/).
- ⁴ To be selected in consultation with major advisor.
- Select from CSCE 305, CSCE 310, CSCE 320/STAT 335, CSCE 400#479 (http://catalog.tamu.edu/undergraduate/course-descriptions/csce/), CSCE 489.