

## BS in Computer Science

Course	Title	Hours
<b>Foundation Courses</b>		
ENGL 101 or ENGL 100	College English I English Composition	3
ENGL 102	College English II	3
COMM 111	Public Speaking	3
PHIL 125 or PHIL 105	Introductory Logic <sup>1</sup> Critical Reasoning	3
PHIL 354	Ethics and Computers	3
Select 12 credit hours of other fine arts/humanities & social/behavioral sciences courses <sup>2</sup>		12
<b>Mathematics/Natural Sciences</b>		
MATH 242 & MATH 243	Calculus I and Calculus II	10
MATH 511	Linear Algebra	3
MATH 321 & MATH 322	Discrete Structures I and Discrete Structures II	6
PHYS 313	Physics for Scientists I	4
PHYS 314	Physics for Scientists II	4
PHYS 316	University Physics Lab II	1
IME 254	Engineering Probability and Statistics I	3
<b>Major Courses</b>		
IME 255	Engineering Economy	3
CS 194	Introduction to Digital Design	4
CS 211	Introduction to Programming	4
CS 238	Assembly Language Programming	3
CS 311	Object-Oriented Programming	4
CS 394	Introduction to Computer Architecture	3
CS 400	Data Structures	4
CS 410	Programming Paradigms	3
CS 464	Computer Networks	3
CS 480	Introduction to Software Engineering	3
CS 510	Programming Language Concepts	3
CS 540	Operating Systems	3
CS 560	Design and Analysis of Algorithms	3
CS 665	Introduction to Database Systems	3
EE 585 & EE 595	Senior Design Project I and Senior Design Project II	4
<b>Technical Electives</b>		
Select 12 credit hours. At least 6 out of the 12 credit hours must be from the EECS department. Up to 2 credit hours of co-op can be used as nondepartmental technical electives.		12
Total Credit Hours		120

<sup>1</sup> PHIL 125 is preferred.

<sup>2</sup> Refer to graduation requirements at the beginning of this section for details.

### Applied Learning

Students in the Bachelor of Science in computer science program are required to complete an applied learning or research experience to

graduate from the program. The requirement can be met by completing the two capstone design experiences consisting of EE 585 and EE 595.