B.S in Computer Science

Computer Science Courses

Class	Hrs	
CSC 110 Survey of Computer Science	1	_____
CSC 150 Computer Science 1	3	_____
CSC 250 Computer Science 2	4	_____
CSC 251 Finite Structures	4	_____
CSC 300 Data Structures	4	_____
CSC 314 Assembly Language	3	_____
CSC 317 Computer Org & Arch	3	_____
CSC 372 Analysis of Algorithms	3	_____
CSC 456 Operating Systems	4	_____
CSC 461 Programming Languages	4	_____
CSC 464 Senior Design I	2	_____
CSC 465 Senior Design II	2	_____
CSC 468 Graphical User Interface Programming	3	_____
CSC 470 Software Engineering	3	_____
CSC 484 Database Management	3	_____
Upper Level CSC Elective *	3	_____
Upper Level CSC Elective *	3	_____
Upper Level CSC Elective *	3	_____
Upper Level CSC Elective *	3	_____
Total (minimum)	58 credits	

 * The program requires at least four classes (a minimum total of at least twelve credits) completed from the following list: CSC410, CSC412, CSC414, CSC415, CSC426, CSC433, CSC441, CSC442, CSC445, CSC447, CSC449, CSC476/476L, and CENG444. Completion of CP497 offering of at least three credits can be used to substitute for at most three credits of this requirement.

Science Courses

Class	Hrs	
PHYS 211 University Physics I	3	_____
Science Requirement **	3	_____
Science Requirement **	3	_____
Science Lab **	1	_____
Science Lab **	1	_____
Total	11 credits	

** See list at the end of the next column for details on the science requirement.

Mathematics Courses

Class	Hrs	
MATH 123 Calculus 1	4	_____
MATH 125 Calculus 2	4	_____
MATH 225 Calculus 3	4	_____
MATH 315 Linear Algebra	3	_____
MATH 381 Intro to Prob & Stats	3	_____
MATH Elective +	3	_____
Total	21 credits	

+ At least three credits of a math lecture course that is from the following list: Math 321, Math 382, Math 353, Math 413, Math 421, Math 423, or Math 443.

Arts/Humanities & Social Sciences***

(*General Education requirement is 12 credits*)

	Hrs	
ENGL 101 Composition I	3	_____
ENGL 279 Tech Comm I	3	_____
ENGL 289 Tech Comm II	3	_____
Social Sciences	3	_____
Social Sciences	3	_____
Arts / Hum	3	_____
Arts / Hum	3	_____
Additional Hum/SS course	3	_____
Free Elective Credit #	6	_____
Total	30 credits	

** Students must take three science courses with two accompanying labs. These courses must be selected from at least two different disciplines, and one science course must be PHYS 211. List of Science courses for the science requirement: PHYS 213, CHEM 112, CHEM 114, BIOL 151, BIOL 153, and GEOL 201.

***All majors must complete a minimum of 15 credits in the area of Humanities & Social Sciences

All majors must complete a minimum of 120 total credits. Please note that MATH 021, MATH 101, MATH 102, MATH 120, CSC 105, PHYS 111, PHYS 113, CHEM 106, and CHEM 108 will not count toward the major.

Student Name:

Computer Science
Latest Revision: July 23, 2015

(4 courses are required)

Freshman   **Sophomore**   **Junior**   **Senior**

ENGL 101	3

ENGL 279	3

ENGL 289	3

(MATH 125)

MATH 381	3

MATH 123	4 / C

MATH 125	4 / C

MATH 225	4

MATH 315	3

(CSC 300)

CSC 484	3

Co-req Math 123

CSC 150	3 / C

CSC 251	4

CSC 250	4 / C

CSC 300	4

*

CSC 372	3 / F

CSC 470	3 / S

CSC 464	2 / F

CSC 465	2 / S

MATH elective	3

CSC 110	1 / F

CSC 314	3

(CSC 251)

CSC 317	3 / S

CSC 456	4 / S

Pre-req of Math 123

PHYS 211	3

(CSC * 300)

CSC 461	4 / F

CSC 468	3 / S

Entry Level Courses

Math: _____

Placement Exam:
   Trig: _____
   Algebra:_____

Legend

Prerequisite →

Course ###	

← Credit Hours
← Grade Required (if applicable)
← When Offered

F = Fall Semester
S = Spring Semester
O = Odd Number Years
E = Even Number Years
(blank) = Every Semester

↑ Completed or Concurrent

* any CSC class that has CSC 300 as a prerequisite also requires a C or better in CSC 300

CSC 300 →
CSC 410	3

CSC 300 →
MATH 413
CSC 412	3

CSC 300 →
CSC 414	3 / F

CSC 300 →
Math 321
CSC 415	4 / F

CSC 300 →
CSC 426	3

CSC 300 ->
Math 225
CSC 433	3

CSC 300 ->
CSC 441	3

CSC 300 →
Math 125
CSC 442	3

CSC 251 →
CSC 445	3

CSC 300 →
CSC 447	3

CSC 300 ->
Math 381
CSC 449	3

CSC 421 ->
CSC 476	3

Ceng 244 →
MATH 381
CENG 444	4

CO-OP	3