B.S in Computer Science

Computer Science Courses

Class	Hrs
CSC 150 Computer Science 1	3_____
CSC 250 Computer Science 2	4_____
CSC 251 Finite Structures	4_____
CENG 244 Intro to Digital Systems	4_____
CSC 300 Data Structures	4_____
CSC 314 Assembly Language	4_____
CSC 317 Computer Org & Arch	4_____
CSC 372 Analysis of Algorithms	3_____
CSC 421 Graphical User Interfaces	3_____
CSC 456 Operating Systems	4_____
CSC 461 Programming Languages	3_____
CSC 465 Senior Design I	2_____
CSC 467 Senior Design II	2_____
CSC 470 Software Engineering	3_____
CSC 484 Database Management	3_____
Upper Level CSC Elective *	3/4_____
Upper Level CSC Elective *	3/4_____
Upper Level CSC Elective *	3/4_____
Total (minimum)	59 credits

 * A minimum of three (3) computer science elective courses numbered 400 or above must be taken. A three (3)-credit Co-op may be substituted for one computer science elective. Special topics and independent study courses may not be used to satisfy the computer science elective 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

** Students must take three science courses that count toward the major in that discipline, with two accompanying labs. These courses must be selected from at least two different disciplines, and one science course must be PHYS 211.

Mathematics Courses

Class	Hrs
MATH 123 Calculus 1	4_____
MATH 125 Calculus 2	4_____
MATH 225 Calculus 3	4_____
MATH 321 Differential Equations	4_____
MATH 315 Linear Algebra	3_____
MATH 381 Intro to Prob & Stats	3_____
Total	22 credits

Arts/Humanities & Social Sciences***

(*General Education requirement is 12 credits*)

Class	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_____
HUM 375 Computers in Society	3_____
PE + +	1_____
PE + +	1_____
Additional Hum/SS courses	4 _____
Total	30 credits

+ +MUEN 101, 121, 122 can be used to substitute for one or two of the required two Physical Education credits

***All majors must complete at minimum of 16 credits in the area of Humanities & Social Sciences

***Thirty (30) total hours in humanities, social science, or other nontechnical disciplines that serve to broaden the background of the student. This may include all English classes, HUM 375, Hum/Soc general education classes, and a maximum of two (2) credits of physical education.

*** All majors must complete a minimum of 128 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.

Computer Science

Latest Revision: August 12, 2010

Spare block

CS Electives
(3 courses are required)

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

Course	Credit	Grade
ENGL 101	3	
ENGL 279	3	
ENGL 289	3	
MATH 123	4	C
MATH 125	4	C
MATH 225	4	
MATH 321	4	
MATH 315	3	
CSC 421	3	F
MATH 381	3	

Co-req Math 123

Course	Credit	Grade
CSC 150	3	C
CSC 251	4	
CSC 250	4	C
CSC 300	4	
CSC 372	3	F
CSC 461	3	S
CSC 484	3	F
CSC 470	3	S
CSC 465	2	F
CSC 467	2	S
CSC 314	4	
CENG 244	4	
CSC 317	4	S
CSC 456	4	S

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Pre-req of Math 123

Course	Credit	Grade
Free Elect	2	
PHYS 211	3	

Entry Level Courses

Math: _____

Placement Exam:
    Trig: _____
   Algebra: _____

Course	Credit
Sci Elect	3
Sci Lab	1
PE	1
PE	1
Sci Elect	3
Sci Lab	1
CSC Elect	3
CSC Elect	3
Free Elect	3
CSC Elect	3
Hum/SS	4
HUM 375	3
Hum/SS	3
Hum/SS	3
Hum/SS	3
Hum/SS	3

CS Electives

	Course	Credit	When
CSC 300 → MATH 225	CSC 433	3	FE
CSC 300 → MATH 321	CSC 415	2-1	F
CSC 300 →	CSC 447	3	FO
CSC 251 →	CSC 445	3	SO
CSC 415 →	CSC 416	3	S
CSC 300 → MATH 125	CSC 464	3	SO
CSC 300 → MATH 381	CSC 449	3	FE
CSC 300 →	CSC 410	3	SE
Ceng 244 → MATH 381	CENG 444	4	
	CO-OP	3	

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