

COMPUTER SCIENCE (BS) - WEB DEVELOPMENT TRACK

Program Map

Course	Title	Credit Hours
First Year		
Fall		
ENGL 1101	English Composition I (minimum grade of C)	3
MATH 1113	Pre-Calculus (minimum grade of C)	4
Institutional Priorities	COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 ¹	3
CPSC 1301K	Computer Science I (minimum grade of C)	4
KINS 1106 or PHED 1205	Lifetime Wellness or Concepts of Fitness	2
Credit Hours		16
Spring		
ENGL 1102	English Composition II (minimum grade of C)	3
MATH 2125	Introduction to Discrete Mathematics (minimum grade of C)	3
CPSC 1302K	Computer Science II (minimum grade of C)	4
CPSC 2105	Computer Organization (minimum grade of C)	3
Arts, Humanities, and Ethics	Fine Arts ²	3
Institutional Priorities	ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) ¹	1
Credit Hours		17
Second Year		
Fall		
MATH 5125U	Discrete Mathematics	3
CPSC 2125	Internet Programming (minimum grade of C)	3
CYBR 2159	Fundamentals of Computer Networks (minimum grade of C)	3
Arts, Humanities, and Ethics	Humanities Elective ²	3
Technology, Mathematics, and Sciences	Science Elective with Lab ^{1,3}	4
Credit Hours		16
Spring		
CPSC 2108	Data Structures (minimum grade of C)	3
CYBR 2160	Intro to Information Security (minimum grade of C)	3
STAT 1401	Elementary Statistics	3
HIST 2111 or HIST 2112	U. S. History to 1865 or U. S. History since 1865	3

Technology, Mathematics, and Sciences	Science Elective with Lab ^{1,3}	4
Credit Hours		16

Third Year

Fall

CPSC 3131	Database Systems I (minimum grade of C)	3
POLS 1101	American Government	3
Social Sciences	Social Sciences Elective (Behavioral Science)	3
CPSC 3175	Object-Oriented Design (minimum grade of C)	3
Program Elective	CPSC Upper-Division Elective (minimum grade of C)	3
Credit Hours		15

Spring

CPSC 4125	Server-Side Web Development (minimum grade of C)	3
CPSC 3165	Professionalism in Computing (minimum grade of C)	2
Program Elective	CPSC Upper-Division Elective (minimum grade of C)	3
Social Sciences	Social Science Elective (World Cultures)	3
General Electives	General Elective	3
Health and Wellness	PEDS Elective	1
Credit Hours		15

Fourth Year

Fall

CPSC 4131	Full Stack Web Development (minimum grade of C)	3
CPSC 4175	Software Engineering (minimum grade of C)	3
Program Elective	CPSC Upper-Division Elective (minimum grade of C)	3
General Electives	General Elective	3
General Electives	General Elective	2
Credit Hours		14

Spring

CPSC 4176	Senior Software Engineering Project (minimum grade of C)	3
CPSC 4132	Web Development Projects (minimum grade of C)	3
CPSC 4135	Programming Languages (minimum grade of C)	3
CPSC 4000	Baccalaureate Survey	0
Program Electives	CPSC Upper-Division Elective (minimum grade of C)	3
General Electives	General Elective	2
Credit Hours		14
Total Credit Hours		123

¹ The hours applied in the Institutional Priorities; Mathematics & Quantitative Skills; and Technology, Mathematics, and Sciences areas must add to 18 credit hours.

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² ITDS 1145 Comparative Arts, though listed under both Fine Arts and Humanities, may be taken only once.

³ At least 4 of the credit hours in this area must be in a lab science course.