

Software Engineering Roadmap - MSJC

Table 1. Roadmap for SE at MSJC (“2+”)

Semester 1 MSJC	
CSIS 113A C++ Programming 1 (Annex)	3
MATH 211 Analytic Geom & Calc I (B4)	4
GE (E) Lifelong Learning (Annex)	3
GE (C3) Language Course (recommended)	3
GE - C1, C2, DH, DC, F	3
Total	16

Semester 2 MSJC	
CSIS 123A C++ Programming (Annex)	3
MATH 212 Analytic Geom & Calc II	4
GE (B2/B3) BIOL 100	4
GE (A2) Written Communication	4
GE - C1, C2, DH, DC, F	3
Total	18

Semester 3 MSJC	
MATH 218 Linear Algebra	3
CSIS 213 Discrete Structures	3
PHYS 101 Intro to Physics (GE area B1)	4
GE (A1) Oral Communication (COMM 100)	3
GE - C1, C2, DH, DC, F	3
GE - C1, C2, DH, DC, F	3
Total	19

Semester 4 MSJC	
CSIS 118B Comp Organiz & Assembly Lang	3
MATH 140 Intro to Statistics	3
PHYS 102 Intro to Physics II	4
GE (A3) Critical Thinking	3
GE - C1, C2, DH, DC, F	3
Total	16

Table 2. Roadmap for SE at CSUSM at Temecula (“+2”)

Semester 5 CSUSM	
CS 311 Data Structures and Algor	3
SE 370 Intro to Software Engineering	3
SE 451 Software Requirements and Design	3
CS 331 Computer Architecture (BB)	3
Total	12

Semester 6 CSUSM	
SE 461 Software Testing and Quality	3
SE 471 Software Architecture	3
CS 351 Programming Languages	3
CS 433 Operating Systems	3
Total	12

Semester 7 CSUSM	
CS 435 Embedded Systems	3
SE 481 Software Project Planning & Mgmt	3
CS 443 Database	3
SE 490 Capstone I	3
Total	12

Semester 8 CSUSM	
PHIL 348 Ethics in Engin (CC & DEg)	3
CS 446 Cloud Computing	3
MATH 464 Numerical Analysis & Computing	3
GE (DD & DEu)	3
SE 491 Capstone II	3
Total	15