Western Oregon UNIVERSITY

Academic Degree Program
2015-16

Major in: Computer Science

Advisor Signature:

Student Name:

Student Signature:

Student ID:

Date:

Major 77 hours, 36 UD	Hrs	Has	Lacks
CS 160 Survey of Computer Science	3		
CS 161 Computer Science I	5		
CS 162 Computer Science II	5		
CS 260 Data Structures I	3		
CS 262 Programming Language	2		
CS 271 Computer Organization	4		
CS 272 Low Level Programming	3		
CS 311 Data Structures II	3		
Choose One: (3)			
CS 314 Survey of Programming Languages	3		
CS 315 Theory of Programming Languages	3		
CS 345 Theory of Computation I	3		
CS 350 Network Administration	3		
CS 372 Operating Systems	3		
CS 420 Database Management	3		
CS 425 Systems Analysis and Design	3		
CS 430 Software Implementation	3		
CS 470 Human Machine Interfaces	3		
Computer Science Electives:	15		
Choose 9 hours from one of the following elective categories and at least 6 additional from any category. Students are encouraged to complete multiple courses in one area based on their career objectives.			
A) Computational Theory			
CS 440 Analysis of Algorithms (3)			
CS 445 Theory of Computation II (3)			
CS 447 Compiler Design (3)			
CS 449 Topics in Computational Theory (4)			
B) Distributed Computing			
CS 453 Data Mining & Data Warehousing (3)			
CS 454 Distributed Systems (3)			
CS 459 Topics in Systems Management (3)			
CS 472 Operating Systems: Adv Topics (3)			
CS 487 File Forensics (4)			
C) Software Engineering			
CS 471 Metrics and Testing (3)			
CS 474 Concurrent Systems (3)			
CS 475 App. Computational Intelligence (3)			
CS 479 Topics in Software Engineering (3)			
CS 481 Computer Graphics (3)			
CS 488 Secure Software Lifecycle (3)			
D) Computing Systems Engineering			
CS 450 Network Programming (3)			
CS 472 Operating Systems: Adv. Topics (3)			
CS 490 Physical Computing (3)			
CS 491 Embedded Systems Design (3)			

Program notes & Additional Degree Requirements				
Mathematics Requirements: (10)				
MTH 231 Elements of Discrete Mathematics I	3			
MTH 232 Elements of Discrete Mathematics II	3			
MTH 354 Applied Discrete Mathematics	4			
Note: Computer Science majors must have a grade of C or better in courses that are used to satisfy the major requirements.				
Students must also have a C or better in all listed prerequisite courses unless waived by the course instructor and the computer science division chair.				
Minimum degree requirements of at least:				
180 or more total credit hours				
62 Upper Division credit hours				
45 of last 60 credits earned at WOU campus				
BA Degree Requirements				
CS 101 or higher				
Math 105 or higher				
Writing Intensive:				
Foreign Language (C- or better):				
BS Degree Requirements				
CS 121 or higher				
Math 111 or higher				
CS/Math/Stats:				
Diversity:				
Writing Intensive:				