

Major in: **Computer Science/Mathematics**

Advisor Signature: _____

Student Name: _____

Student Signature: _____

Student ID: _____

Date: _____

Major 106-107 hours, 36 UD	Hrs	Has	Lacks
MTH 251 Calculus I	5		
MTH 252 Calculus II	5		
MTH 253 Calculus III Sequences and Series	3		
MTH 254 Multivariate Calculus	5		
MTH 280 Introduction to Proof	4		
MTH 341 Linear Algebra I	4		
MTH 344 Group Theory	4		
MTH 355 Discrete Mathematics	4		
MTH 365 Mathematical Probability	4		
MTH 366 Mathematical Statistics	4		
Choose Three Electives:	11-12		
MTH 311 Advanced Calculus I (4)			
MTH 314 Differential Equations (4)			
MTH 345 Ring Theory (4)			
MTH 346 Number Theory (4)			
MTH 351 Intro to Numerical Analysis (4)			
MTH 358 Mathematical Modeling (4)			
MTH 363 Operations Research (4)			
MTH 420 Spc Top: Applied Mathematics (3)			
MTH 441 Linear Algebra II (4)			
MTH 451 Numerical Analysis (4)			
MTH 460 Spc Top: Probability & Statistics (3)			
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 Languages	2		
CS 271 Computer Organization	4		
CS 311 Data Structures II	3		
CS 315 Theory of Programming Languages	3		
CS 345 Theory of Computation I	3		
CS 372 Operating Systems	3		
CS 420 Data Management Systems	3		
CS 425 Systems Analysis and Design	3		
CS 430 Software Implementation	3		
CS 406 Senior Seminar	1		
Choose Nine Hours from One Sequence:	9		
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) Software Engineering			
CS 470 Human Machine Interfaces (3)			
CS 471 Metrics and Testing (3)			
CS 472 Operating Systems- Adv. Topics (3)			
CS 474 Current Systems (3)			
CS 475 Applied Computational (3)			
CS 479 Topics in Software Engineering (3)			

Major Cont...	Hrs	Has	Lacks
C) Systems management			
CS 450 Network Fundamentals (3)			
CS 451 Management Information Systems (3)			
CS 452 Internet Communications (3)			
CS 453 Data Mining & Data Warehousing (3)			
CS 459 Topics in Systems Management (3)			
Program notes & Additional Degree Requirements			
Computer science/mathematics majors must have a grade of C or better in computer science courses and a grade of C- or better in mathematics courses used to satisfy major requirements.			
A minor is not required for this major.			
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:			