

BACHELOR OF SCIENCE IN COMPUTER SCIENCE - STANDARD TRACK

Summary of Graduation Requirements

Subject Area	Credits
General Education (https://catalog.nsu.edu/undergraduate/academic-information/general-education-core-program/)	40
Core Major	53
Requirements Electives	27
Other Requirements	0
Total Credit Hours	120

Curriculum

Course	Title	Credits
First Year		
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
CSC 101	Introduction to the Computer Science Profession	1
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming Laboratory I	1
MTH 153	College Algebra & Trigonometry	3
ENG 101	College English I	3
PED 100	Fundamentals of Fitness for Life	1
CSC 260	Computer Programming II	3
CSC 260L	Computer Programming II Laboratory	1
MTH 184	Calculus I	4
ENG 102	College English II	3
XXX XXX	Social Science Elective	3
HED 100	Personal and Community Health	2
Credits		30
Second Year		
SEM 201	Spartan Seminar 201	1
CSC 372	Data Structures	3
Select one Laboratory Science Elective and the corresponding Laboratory of the following:		
BIO 110 & 110L	General Biology and General Biology Laboratory	
PHY 152 & 152L	General Physics and General Physics Laboratory I	
CHM 221 & 221L	General Chemistry I and General Chemistry I Laboratory	
MTH 251	Calculus II	4
MTH 371	Discrete Mathematical Structures	4
CSC 268	Computer Organization	3
CSC 295	Java Applications Programming	3
CSC 361	Survey of Programming Languages	3
ENG 303	Professional & Technical Writing	3

ENG 285	Public Speaking	3
Credits		31

Third Year

CSC 292	Unix and C Programming	3
CSC 380	Software Engineering	3
CSC 468	Computer Architecture	3
MTH 351	Probability & Statistics I	3
Select one Laboratory Science Elective Sequence of the following:		
PHY 152	General Physics	
BIO 110 & 110L	General Biology and General Biology Laboratory	
CHM 221 & 221L	General Chemistry I and General Chemistry I Laboratory	
CSC 430	Data Communications	3
XXX XXX	Computer Science Electives (300 level or above)	3
XXX XXX	Humanities or Foreign Languages	3
ENG 207	Introduction to World Literature	
FIA 201	Basic Art Appreciation	
MUS 301	Music Appreciation	
CSC 275	Fundamentals of Cybersecurity	3
Credits		28

Fourth Year

CSC 498	Computer Science Seminar I	2
CSC 464	Operating Systems	3
XXX XXX	Computer Science Electives (300 level or above)	6
XXX XXX	Social Science Cultural Elective	3
HIS 335	African-American History	
HIS 336	African-American History Since 1865	
HIS 371	Modern African History & Cultures 1600-PRESENT	
HRP 320	African American Health	
XXX XXX	Humanities Cultural Elective I	3
ENG 383	African-American Literature, 1940-PRESENT	
MUS 234	African-American Music	
CSC 499	Computer Science Seminar II	2
XXX XXX	Computer Science or Mathematics Elective (300 level or above)	9
XXX XXX	Free Elective	3
Credits		31
Total Credits		120

Major Electives - At least 15 Credit Hours

Code	Title	Credits
CSC 312	Topics in Information Technology	3
CSC 313	Network Administration	3
CSC 314	Advanced Internet Programming	3
CSC 316	Introduction to Cloud Computing	3
CSC 360	Interface Design	3
CSC 369	Introduction to 3D Animation and Visual	3
CSC 390	Technical Strategies in Game Design	3

CSC 373	Algorithms Design and Analysis	3
CSC 395	Mobile App Development Using Android	3
CSC 411	Web Server Administration	3
CSC 420	Database Principles and Design	3
CSC 422	Database Implementation	3
CSC 432	Wireless Internet of Things	3
CSC 435	Computer Security I	3
CSC 445	Computer Network Defense	3
CSC 449	Cryptography and Network Security	3
CSC 466	Advanced Computer Topics I	3
CSC 467	Adv Cmptr Topic II	3
CSC 470	Artificial Intelligence	3
CSC 471	Introduction to Game Design and Development	3
CSC 472	3D Game Programming	3
CSC 476	Advanced CompTop III	3
CSC 477	Adv Comp Topic IV	3
CSC 480	Computer Graphics	3
CSC 485	Software Quality Assurance and Testing	3
CSC 486	Software Project Management	3
CSC 487	Engineering Secure Software Systems	3
CSC 488	Principles of Distributed Software System	3
CSC 490	Game Design Capstone Project	3
CSC 492	Independent Study	3
CSC 493	Systems Programming	3
CSC 494	Digital Forensics	3