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| |  |  |  | | --- | --- | --- | | Bachelor's IA Curriculum  Norfolk State University Department of Computer Science Curriculum Guide | | | | *This curriculum guide is official but only suggests a semester-sequential plan. Courses may be taken in any order as long as the prerequisites and other requirements are met.* | | | | **B.S. COMPUTER SCIENCE - SPECIALTY IN INFORMATION ASSURANCE** (2009) | | | | MINIMUM GRADES:All Computer Science, Mathematics, and Science courses and ENG 101/102/303 courses must make a minimum grade of 'C'. | | | | **FIRST YEAR** | | | |  | [Social Science Elective1](http://cset.nsu.edu/ia/education/curricula.php?id=10#1) | 6   cr hr | |  | CSC-170 COMPUTER PROGRAMMING I | 3   cr hr | |  | CSC-260 COMPUTER PROGRAMMING II | 3   cr hr | |  | CSC-260L COMPUTER PROGRAMMING II LAB | 1   cr hr | |  | CSC-170L COMPUTER PROGRAMMING I LAB | 1   cr hr | |  | CSC-101 INTRODUCTION TO THE COMPUTER SCIENCE PROFESSION | 1   cr hr | |  | UNI-101 Introduction to University Life | 0   cr hr | |  | MTH-153 College Algebra and Trigonometry | 3   cr hr | |  | MTH-184 Calculus I | 4   cr hr | |  | ENG-101 Communication Skills I | 3   cr hr | |  | ENG-102 Communication Skills II | 3   cr hr | |  | HED-100 Personal and Community Health | 2   cr hr | |  | PED-100 Fundamental Fitness for Life | 1   cr hr | | **TOTAL** | | **31 CR HRS** | | **SECOND YEAR** | | | |  | [Laboratory Science Elective2](http://cset.nsu.edu/ia/education/curricula.php?id=10#2) | 4   cr hr | |  | CSC-268 COMPUTER ORGANIZATION | 3   cr hr | |  | CSC-295 JAVA APPLICATIONS PROGRAMMING | 3   cr hr | |  | CSC-361 SURVEY OF PROGRAMMING LANGUAGES | 3   cr hr | |  | CSC-372 DATA STRUCTURES | 3   cr hr | |  | MTH-251 Calculus II | 4   cr hr | |  | ENG-303 Technical Writing | 3   cr hr | |  | MTH-371 Discrete Mathematical Structures | 4   cr hr | |  | SCM-285 Principals of Speech | 3   cr hr | | **TOTAL** | | **30 CR HRS** | | **THIRD YEAR** | | | |  | [1st Semester of Science Sequence2](http://cset.nsu.edu/ia/education/curricula.php?id=10#2) | 4   cr hr | |  | [2nd Semester of Science Sequence3](http://cset.nsu.edu/ia/education/curricula.php?id=10#3) | 4   cr hr | |  | CSC-435 COMPUTER SECURITY | 3   cr hr | |  | Computer Science Elective (300 Level or Above) | 3   cr hr | |  | CSC-292 UNIX AND C PROGRAMMING | 3   cr hr | |  | CSC-380 SOFTWARE ENGINEERING | 3   cr hr | |  | CSC-430 DATA COMMUNICATION | 3   cr hr | |  | CSC-468 COMPUTER ARCHITECTURE | 3   cr hr | |  | MTH-351 Probability and Statistics | 3   cr hr | | **TOTAL** | | **29 CR HRS** | | **FOURTH YEAR** | | | |  | [Humanities or Foreign Language Electives4](http://cset.nsu.edu/ia/education/curricula.php?id=10#4) | 6   cr hr | |  | [Cultural Electives5](http://cset.nsu.edu/ia/education/curricula.php?id=10#5) | 3   cr hr | |  | Computer Science or Mathematics Elective (300 Level or Above) | 3   cr hr | |  | Free Elective | 3   cr hr | |  | Computer Science Elective (300 Level or Above) | 3   cr hr | |  | Mathematics Elective (300 Level or Above) | 3   cr hr | |  | CSC-445 COMPUTER NETWORK DEFENSE | 3   cr hr | |  | CSC-498 COMPUTER SCIENCE SEMINAR I | 1   cr hr | |  | CSC-464 OPERATING SYSTEMS | 3   cr hr | |  | CSC-499 COMPUTER SCIENCE SEMINAR II | 2   cr hr | | **TOTAL** | | **30 CR HRS** | | SUMMARY OF GRADUATION REQUIREMENTS | | | | |  |  | | --- | --- | | GENERAL EDUCATION REQUIREMENTS | 39   cr hrs | | MAJOR REQUIREMENTS | 78   cr hrs | | GENERAL ELECTIVES | 3   cr hrs | | | | | TOTAL NEEDED FOR GRADUATION     120   cr hrs | | | |  | | | | ELECTIVES | | | | |  |  | | --- | --- | | 1 | HIS-100 History of Civilization HIS-101 History of Civilization HIS-102 United States History to 1865 HIS-103 United States History to Present HIS-335 African-American History HIS-336 African-American History HIS-371 African Hisotry and Culture POS-315 African-American Politics PSY-340 Psychology of the African-American SOC-101 Introduction to Social Studies SOC-237 Racial and Ethnic Minorities | | 2 | PHY 152/152L (prerequisite: MTH-153) -or- CHM 221/221L (prerequisite: MTH-153) -or- BIO 110/110L | | 3 | If your 1st course in the science sequence elective was: Physics then your 2nd course choice must be: PHY 153/153L Chemistry then your 2nd course choice must be: CHM222/222L Biology then your 2nd course choice must be: BIO 111/111L. | | 4 | HUM-210 Humanities I HUM-211 Humanities II ENG-207 Literature of the Western World FIA-201 Basic Art Appreciation MUS-301 Music Appreciation ENG-383 African-American Literature FIA-370 African and African-American Art MUS-234 African-American Music | | 5 | ENG-383 African-American Literature FIA-370 African and African-American Art HIS-335 African-American History to 1865 HIS-336 African-American History Since 1865 HIS-371 African History and Culture (Part 2) MUS-234 African-American Music POS-315 Blacks in the American Political Process PSY-340 Psychology of African Americans SOC-237 Cultural and Racial Minorities | | | | |