

B. S. Computer Science (CSC) / Computer Engineering (ECE) / Electrical Engineering 3+2 Program
College: Arts & Sciences

Course requirements for all UNCW degrees include: (1) [University Studies](#), (2) specific major requirements, and (3) sufficient elective hours for a combined total of a minimum of 124 hours.

MAJOR REQUIREMENTS – CSC (Minimum 61 hours, while at UNCW)

The Three-Plus-Two Computer Science and Electrical or Computer Engineering Program is a cooperative agreement between the University of North Carolina Wilmington Computer Science Program and the North Carolina State University Electrical and Computer Engineering Program. The program gives students the opportunity to earn a Bachelor of Science degree in computer science from the University of North Carolina Wilmington and a Bachelor of Science degree in electrical or computer engineering from North Carolina State University. Students must complete all course work listed below to satisfy the Three-Plus-Two Program requirements. This UNCW phase of study can be completed in three years. Students meeting NCSU's transfer admission requirements (see below) are accepted in the Electrical or Computer Engineering Program at NCSU. This program can be completed in two years and a summer session. UNCW will accept credits from NCSU to complete degree requirements at UNCW and NCSU will accept credits from UNCW to complete degree requirements at NCSU. Thus, the student receives a degree from UNCW and a degree from NCSU. The 3+2 Program must be started in the Fall of Freshman Year if it is to be completed in 5 years.

_____	+*CHM 101	General Chemistry I (4)
_____	+*MAT 161	Calculus with Analytic Geometry I (4) Prerequisite: MAT 112 or 115 or equivalent preparation
_____	*MAT 162	Calculus with Analytic Geometry II (4) Prerequisite: MAT 161
_____	+MAT 261	Multivariate Calculus (4) Prerequisite: MAT 162
_____	+*PHY 201	General Physics I (4) Corequisite: MAT 161
_____	+*PHY 202	General Physics II (4) Prerequisite: PHY 201, Corequisite: MAT 162
_____	CSC 131	Intro to Computer Science (4) Prerequisite: MAT 111 or MAT 115
_____	CSC 133	Discrete Mathematical Structures (3) Prerequisite: MAT 111 or MAT 115 or equivalent
_____	CSC 231	Introduction to Data Structures (4) Prerequisite: CSC 131, Corequisite: CSC 133
_____	CSC 242	Computer Organization (3) Prerequisite: CSC 131 and CSC 133
_____	CSC 331	Object-Oriented Programming and Design (3) Prerequisite: CSC 231
_____	CSC 340	Scientific Computing (3) Prerequisite: MAT 162 and CSC 231
_____	CSC 342	Operating Systems (3) Prerequisite: CSC 242 and CSC 231
_____	CSC 360	Formal Languages and Computability (3) Prerequisite: CSC 242 and CSC 231
_____	CSC 380	Design and Analysis of Algorithms (3) Prerequisite: CSC 133, CSC 231, MAT 161
_____	CSC 385	Professional and Ethical Issues in Computer Science (3) Prerequisite: ENG 101 or equivalent
_____	CSC 434	Programming Languages (3) Prerequisite: CSC 331 and CSC 360
_____	CSC 450	Software Engineering (3) Prerequisite: CSC 331 and Senior standing
_____	CSC 455	Database Design and Implementation (3) Prerequisite: CSC 331
_____		Additional courses prescribed by the Electrical and Computer Engineering Program at NCSU. Of these, the following are taught on-site at UNCW as distance education classes: ECE 109, ECE 200, and E 115.
_____		Choose 9 hours of computer science electives

NOTE: A student must finish the UNCW phase of study with an overall GPA of at least 3.00, at least a 2.00 GPA in any courses taken from NCSU via distance education, and have at least a 2.50 GPA in the last two calculus courses (MAT 162 and MAT 261) to meet NCSU's transfer admission requirements. Students in this program will be advised jointly by the chair of the Department of Computer Science and the director of the Engineering Program at UNCW to assure completion of the correct requirements for this program.

A grade of "C-" or better is required in each computer science course and a "C" (2.00) average on all course taken in computer science.

Students must earn a "C" or better in MAT 161, MAT 162, CHM 101, and PHY 201 to meet the NCSU transfer admission requirements.

**These courses require a lab*

+May also be used to satisfy University Studies Foundations & Approaches and Perspectives requirements

All UNCW University Studies and graduation requirements must be completed.

Requirements to declare CSC: Completion of 24 hours

For further information, see the CSC website: <http://www.uncw.edu/csc> and <http://catalogue.uncw.edu>.