

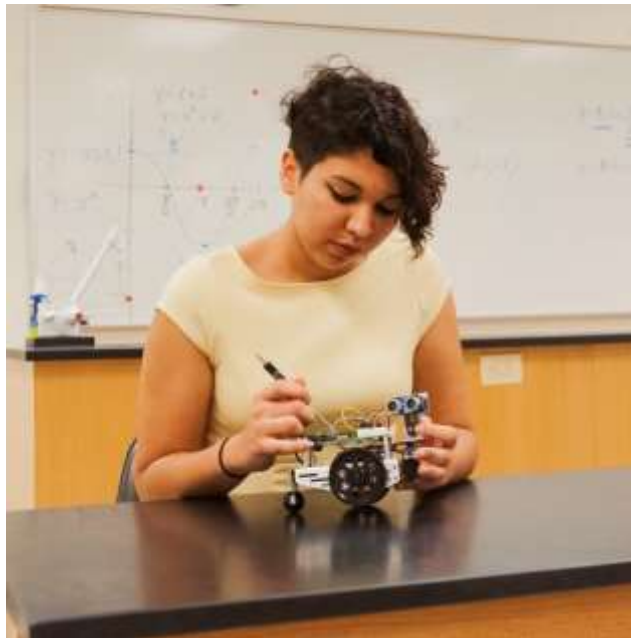
College Transfer Programs

A 10 50 0 Associate in Engineering

CONCENTRATION OVERVIEW

The Engineering curriculum is designed to prepare students to successfully transfer to an engineering degree program in a four-year university. The Associate in Engineering (AE) degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of courses.

The degree plan includes required general education and prerequisite courses that are acceptable to all state funded Bachelor of Engineering programs. Students who follow the degree progression plan will meet the entrance requirements at all of the North Carolina public Bachelor of Science Engineering programs. Associate in Engineering graduates may then apply to any of these programs without taking additional and sometimes duplicative courses. *Admission to Engineering programs is highly competitive and admission is not guaranteed.*



Student Learning Outcomes – Upon completion of the program, students will:

1. Write effective documents that are unified, coherent, well developed, and which adhere to standard grammar and mechanics.
2. Deliver oral presentations that are unified, coherent, well developed, and which adhere to standard grammar. In addition, students will demonstrate proficiency in components of delivery which may include eye contact, posture/body language, volume, articulation, and use of time.
3. Demonstrate an understanding of basic computer terminology and file management. In addition, students will demonstrate working knowledge of applications which may include: email, web browser, word processor, spreadsheet, and presentation software.
4. Perform basic arithmetic and algebraic computations. In addition, students will apply these skills in problem solving and in the interpretation of quantitative data.
5. Locate, evaluate, and utilize information using a variety of print and electronic sources.

In compliance with state transfer articulation agreements, only courses with a grade of C or higher will fulfill degree requirements in this program. To be eligible for the transfer of credits under the AE to the Bachelor of Science in Engineering Articulation Agreement, student must have an overall GPA of at least 2.5 on a 4.0 scale.

Partnership: N/A

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A 10 50 0 Associate in Engineering Universal General Education Transfer Component

COURSE NUMBER	COURSE TITLE	SEMESTER	COREQUISITES	PREREQUISITES	CREDITS
STUDENT SUCCESS					1
ACA 122	College Transfer Success			None	1
COMPOSITION					6
ENG 111	Writing and Inquiry			ENG 090 and RED 090, or ENG 095, or DRE 098, or appropriate placement.	3
ENG 112	Writing/Research in the Disciplines			ENG 111	3
FINE ARTS & COMMUNICATIONS					3
COM 231	Public Speaking			ENG 111	3
HUMANITIES					3
Select 1 course: ENG 231 (ENG 112), or ENG 232 (ENG 112), or ENG 241 (ENG 111), or ENG 242 (ENG 111) or PHI 215 (ENG 111), or PHI 240 (ENG 111)					
				Varies – prereqs in parentheses	3
SOCIAL/BEHAVIORAL SCIENCES (two courses from different disciplines)					6
Select 1 course from: HIS 111 (DRE 098), HIS 112 (DRE 098), HIS 131 (DRE 098), HIS 132 (DRE 098), POL 120 (DRE 098), PSY 150 (DRE 097), or SOC 210 (DRE 098)					
				Varies – prereqs in parentheses	3
ECO 251	Principles of Microeconomics			DRE 098 and DMA 010-050	3
MATHEMATICS					12
MAT 271	Calculus I			With a grade of C or higher	4
MAT 272	Calculus II			MAT 271, with a grade of C or higher	4
MAT 273	Calculus III			MAT 272, with a grade of C or higher	4
NATURAL SCIENCES					12
PHY 251	General Physics I		MAT 272	MAT 271	4
PHY 252	General Physics II			PHY 251	4
CHM 151	General Chemistry I			DMA 010-080, and CHM 090 or one unit of HS chemistry	4
TOTAL UNIVERSAL GENERAL EDUCATION TRANSFER HOURS					43
OTHER REQUIRED PRE-MAJOR ELECTIVE					2
EGR 150	Intro to Engineering				2
OTHER GENERAL EDUCATION AND PRE-MAJOR ELECTIVES					15-16
Select 15 credit hours from the list of Comprehensive Articulation Agreement (CAA) courses. BIO 111 (DRE 098 and DMA 010-050), CHM 152 (CHM 151), COM 110 (DRE 098), CSC 151 (CIS 110 or CIS 111 or CIS 115), ECO 252 (DMA 010-050 and DRE 098), DFT 170, EGR 220 (PHY 251 and MAT 272) and PED 110					
				Varies	Varies
				Varies	Varies
				Varies	Varies
				Varies	Varies
				Varies	Varies
TOTAL SEMESTER HOURS REQUIRED FOR ASSOCIATE DEGREE					60-61