

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

COURSE NUMBER	COURSE TITLE	SEMESTER	CO-REQUISITES	PRE-REQUISITES	CREDITS
STUDENT SUCCESS					1
ACA 122	College Transfer Success			None	1
COMPOSITION					6
ENG 111	Writing and Inquiry		ENG 011	ENG 002 Tier 1	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 from: ENG 231 (ENG 112), ENG 232 (ENG 112), ENG 241 (ENG 111), ENG 242 (ENG 111), PHI 240 (ENG 111) or REL 110					
				Varies – pre-requisites in parentheses	3
SOCIAL/BEHAVIORAL SCIENCES					6
Select 1 course from: HIS 111 (ENG 002 Tier 1), HIS 112 (ENG 002 Tier 1), HIS 131 (ENG 002 Tier 1), HIS 132 (ENG 002 Tier 1), POL 120 (ENG 002 Tier 1), PSY 150 (ENG 002 Tier 1), or SOC 210 (ENG 002 Tier 1)					
				Varies – pre-requisites in parentheses	3
ECO 251	Principles of Microeconomics			ENG 002 Tier 1 and MAT 003 Tier 1	3
MATHEMATICS					12
MAT 271	Calculus I			MAT 172 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, MAT 272	4
CHM 151	General Chemistry I			ENG 002 Tier 1, MAT 003 Tier 2, and either CHM 090 or one unit of HS chemistry	4
OTHER GENERAL EDUCATION					3-4
Select 1 course from: BIO 111 (ENG 002 Tier 1 and MAT 003 Tier 1), CHM 152 (CHM 151), COM 110, ECO 252 (ENG 002 Tier 1 and MAT 003 Tier 1), or PHI 240 (ENG 111)					
				Varies – pre-requisites in parentheses	3-4
TOTAL UNIVERSAL GENERAL EDUCATION TRANSFER HOURS					46-47

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OTHER REQUIRED PRE-MAJOR ELECTIVE					2
EGR 150	Intro to Engineering			None	2
OTHER GENERAL EDUCATION AND PRE-MAJOR ELECTIVES					11-12
Select 11-12 credit hours from: BIO 111 (ENG 002 Tier 1 and MAT 003 Tier 1), CHM 152 (CHM 151), COM 110, CSC 151 (CIS 110 or CIS 111 or CIS 115), DFT 170, ECO 252 (ENG 002 Tier 1 and MAT 003 Tier 1), EGR 220 (PHY 251), MAT 280 (MAT 271), MAT 285 (MAT 272), or PED 110					
				Varies– pre-requisites in parentheses	Varies
				Varies– pre-requisites in parentheses	Varies
				Varies– pre-requisites in parentheses	Varies
				Varies– pre-requisites in parentheses	Varies
TOTAL SEMESTER HOURS REQUIRED FOR ASSOCIATE DEGREE					60-61

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A 10 50 0 Associate in Engineering Suggested Sequence of Courses

First Year Fall Semester Course Number and Title	Pre-Requisites and Co- Requisites	Class Hours	Lab Hours	Clinical Hours	Total Contact Hours	Total Credit Hours
ACA 122 College Transfer Success	None	0	2	0	2	1
ENG 111 Writing and Inquiry	Pre-Requisites: ENG 002 Tier 1 Co-Requisites: ENG 011	3	0	0	3	3
Select one from the following: HIS 111, HIS 112, HIS 131, HIS 132, POL 120, PSY 150, SOC 210	Pre-Requisites: ENG 002 Tier 1	3	0	0	3	3
MAT 271 Calculus I*	Pre-Requisites: MAT 172 (with a C or higher)	3	2	0	5	4
CHM 151 General Chemistry I	Pre-Requisites: ENG 002 Tier 1, MAT 003 Tier 2 and CHM 090 or one unit of HS Chemistry	3	3	0	6	4
TOTAL SEMESTER HOURS		12	7	0	19	15
First Year Spring Semester Course Number and Title	Pre-Requisites and Co- Requisites	Class Hours	Lab Hours	Clinical Hours	Total Contact Hours	Total Credit Hours
ENG 112 Writing/Research in the Disciplines	Pre-Requisites: ENG 111	3	0	0	3	3
COM 231 Public Speaking	Pre-Requisites: ENG 111	3	0	0	3	3
MAT 272 Calculus II**	Pre-Requisites: MAT 271 (with a C or higher)	3	2	0	5	4
PHY 251 General Physics I**	Pre-Requisites: MAT 271 Co-Requisites: MAT 272	3	3	0	6	4
EGR 150 Intro to Engineering**	None	1	2	0	3	2
TOTAL SEMESTER HOURS		13	7	0	20	16

* This course is only offered Fall Semester

** This course is only offered Spring Semester

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A 10 50 0 Associate in Engineering Suggested Sequence of Courses

Second Year Fall Semester Course Number and Title	Pre-Requisites and Co- Requisites	Class Hours	Lab Hours	Clinical Hours	Total Contact Hours	Total Credit Hours
MAT 273 Calculus III*	Pre-Requisites: MAT 272 (with a C or higher)	3	2	0	5	4
ECO 251 Principles of Microeconomics	Pre-Requisites: ENG 002 Tier 1 and MAT 003 Tier 1	3	0	0	3	3
PHY 252 General Physics II*	Pre-Requisites: MAT 272 and PHY 251	3	3	0	6	4
Select one of the following: BIO 111, CHM 152, COM 110, CSC 151, DFT 170*, ECO 252, EGR 220**, MAT 280*, MAT 285**, PED 110	Pre-Requisites: Varies	1-3	0-3	0	3-6	2-4
TOTAL SEMESTER HOURS		10-12	5-8	0	17-20	13-15
Second Year Spring Semester Course Number and Title	Pre-Requisites and Co- Requisites	Class Hours	Lab Hours	Clinical Hours	Total Contact Hours	Total Credit Hours
Select one of the following: ENG 231, ENG 232, ENG 241, ENG 242, PHI 240, REL 110	Pre-Requisites: Varies	3	0	0	3	3
Select one of the following: BIO 111, CHM 152, COM 110, ECO 252, PHI 240	Pre-Requisites: Varies	3	0-3	0	3-6	3-4
Select 2 to 4 of the following courses: BIO 111, CHM 152, COM 110, CSC 151, DFT 170*, ECO 252, EGR 220**, MAT 280**, MAT 285*, PED 110	Pre-Requisites: Varies	Varies	Varies	0	Varies	7-10
TOTAL SEMESTER HOURS		Varies	Varies	0	Varies	14-17
TOTAL DEGREE HOURS						60-61 ***

* This course is only offered Fall Semester

** This course is only offered Spring Semester

***Number of hours of elective coursework needed is based upon course choices made in in other general education hours and pre-major elective courses. Courses should be chosen based upon requirements for student's intended major at the receiving four-year institution. A student must have 60-61 credit hours to complete the degree.

REL 110 will transfer for equivalency credit to the engineering programs at all five UNC institutions that offer undergraduate engineering programs. It may not transfer with equivalency to other programs. Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.