

Associate in Engineering Pathway (P10502C) Course Sequencing

Goal: Complete an Associate in Engineering Pathway in 2 Years; 3rd-year option to complete Associate in Engineering Degree at COA

The AE plan includes required general education and prerequisite courses that are acceptable to all NC 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 duplicate courses. Admission to Engineering programs is highly competitive and admission is not guaranteed.

The [Uniform Articulation Agreement](#) for the Associate in Engineering promotes educational advancement opportunities for Associate in Engineering (A10500) completers and the constituent institutions of The University of North Carolina in order to complete Bachelor of Science in Engineering degrees. This Associate in Engineering to Bachelor of Science in Engineering Articulation Agreement (AE to BSE AA) is between the State Board of North Carolina Community Colleges and The University of North Carolina Board of Governors. It applies to all NC community colleges that operate the AE program and to UNC constituent institutions (ECU, NC A&T, NCSU, UNC-Charlotte and Western Carolina).

*AE Pathway Note: Students who do not place directly into MAT 271 must complete MAT 171 and MAT 172 prior to enrolling in MAT 271 Calculus I. [MAT 271 Direct Placement Information](#)

*AE Pathway Note: OPTIONAL GENERAL EDUCATION HOURS (0-8 SHC) Foreign Language: A student may take up to 8 SHC of foreign language courses and accompanying labs, in a single language, designated as General Education in the CAA as a part of this pathway. These courses are not a part of the Universal General Education Transfer Component. Students who complete these courses with a grade of "C" or better will receive transfer credit. The receiving university will determine whether the courses will count as general education, pre-major, or elective credit.

**High school students in the CCP College Transfer Pathway Leading to the Associate in Engineering must complete the entire pathway before taking additional courses in the Associate in Engineering degree with the following exception: Students may take additional math courses beyond MAT 272 that are required for the Associate in Engineering degree.

Note: General Education electives should be selected from courses classified as general education within the [Comprehensive Articulation Agreement \(CAA\)](#). Students should select these courses based on their intended major and transfer university. 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. Students should consult with the transfer guides available at <https://www.cfnc.org/plan-your-future/plan-for-college/transfer-student-planner/to-unc-system-institutions/>

Semester	Course	Cr Hrs	Co Hrs	Course Designation	Course Notes	Dual Credit Notes
Fall	ACA 122 - College Transfer Success	1	2	Required Course	Pathway Course	
	ENG 111 - Writing & Inquiry	3	3	Required Course - UGETC: English Comp	Pathway Course	ENG 111 + ENG 112 + (ENG 231 or ENG 232) = English III ENG 111 + ENG 112 + (ENG 241 or ENG 242) = English IV
	DFT 170 - Engineering Graphics	3	4	Required Course - CAA Pre Major/Elective	Pathway Course Course Only Offered in Fall	
	Total	7	8			
Spring	ENG 112 - Writing/Research in the Disciplines	3	3	Required Course - UGETC: English Comp	Pathway Course	ENG 111 + ENG 112 + (ENG 231 or ENG 232) = English III ENG 111 + ENG 112 + (ENG 241 or ENG 242) = English IV
	EGR 150 - Intro to Engineering	2	3	Required Course - CAA Pre Major/Elective	Pathway Course Course Only Offered in Spring	
	Total	5	6			
Summer	Choice of Humanities/Fine Arts/Communication	3	3	Choice of Humanities/Fine Arts - ART 111, ART 114, ART 115, COM 231, ENG 231, ENG 232, ENG 241, ENG 242, MUS 110, MUS 112, or PHI 240	Pathway Course	1 Elective Credit or ENG 111 + ENG 112 + (ENG 231 or ENG 232) = English III ENG 111 + ENG 112 + (ENG 241 or ENG 242) = English IV
	Total	3	3			
Fall	MAT 271 - Calculus I	4	5	Required Course - UGETC: Math	Pathway Course Course Only Offered in Fall	1 Credit; Satisfies Fourth Math Graduation requirement
	ECO 251 - Principles of Microeconomics	3	3	Required Course - UGETC: Social/Behavioral Science	Pathway Course	1 Elective Credit
	CHM 151 - General Chemistry I	4	6	Required Course - UGETC: Natural Science	Pathway Course	1 Elective Credit or May be combined with CHM 152 to satisfy the physical science requirement; CHM 151 + CHM 152 = Physical Science Requirement
	Total	11	14			
Spring	MAT 272 - Calculus II	4	5	Required Course - UGETC: Math	Pathway Course Course Only Offered in Spring	1 Credit; Satisfies Fourth Math Graduation requirement
	PHY 251 - General Physics I	4	6	Required Course - UGETC: Natural Science	Pathway Course Course Only Offered in Spring	1 Elective Credit or May be combined with PHY 252 to satisfy the physical science requirement; PHY 251 + PHY 252 = Physical Science Requirement
	Total	8	11			
	Grand Total	34		Associate in Engineering Pathway Complete		CCP Special Permission Form Required to complete remainder of Associate in Engineering Degree
Fall	MAT 273 - Calculus III	4	5	Required Course - GEN ED: Math	Course Only Offered in Fall	
	PHY 252 - General Physics II	4	6	Required Course - UGETC: Natural Science	Course Only Offered in Fall	1 Elective Credit or May be combined with PHY 252 to satisfy the physical science requirement; PHY 251 + PHY 252 = Physical Science Requirement

	Choice of Humanities/Fine Arts/Communication	3	3	Based on choice of first Humanities/Fine Arts, student must have ONE course in Fine Arts/Communications - ART 111, ART 114, ART 115, COM 231, MUS 110, or MUS 112 AND ONE course in Humanities - ENG 231, ENG 232, ENG 241, ENG 242, or ENG 240.		1 Elective Credit or ENG 111 + ENG 112 + (ENG 231 or ENG 232) = English III ENG 111 + ENG 112 + (ENG 241 or ENG 242) = English IV
	Choice of General Education Course	3-4	varies	Choice of General Education Course - BIO 111, CHM 152, COM 110, COM 231, ECO 252 or PHI 240		1 Elective Credit (excluding COM 110) or CHM 152 may be combined with CHM 151 to satisfy the physical science requirement; CHM 151 + CHM 152 = Physical Science Requirement BIO 111 + BIO 112 + BIO EOC Exam = Biology Graduation Requirement
	Total	14-15	varies			
Spring	Choice of Social Science Course	3	3	Choice of Social Science - HIS 111, HIS 112, HIS 131, HIS 132, POL 120, PSY 150, or SOC 210		1 Elective Credit or HIS 111 + HIS 112 = World History Graduation Requirement HIS 131 + HIS 132 = American History Graduation Requirement
	Choice of Select General Education and Pre Major Elective Course(s)	8-9	varies	Choice of BIO 111, CHM 152, COM 110, COM 231, CSC 151, DFT 170, ECO 252, MAT 280, or PED 110	DFT 170 is Only Offered in Fall CSC 151 is Only Offered in Fall MAT 280 is Only Offered in Spring Courses should be selected from courses classified as general education within the Comprehensive Articulation Agreement (CAA). Students should select these courses based on their intended major and transfer university. 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.	1 Elective Credit (excluding COM 110, CSC 151, DFT 170, MAT 280, PED 110) CHM 152 May be combined with CHM 151 to satisfy the physical science requirement; CHM 151 + CHM 152 = Physical Science Requirement BIO 112 May be combined with BIO 112 to satisfy the biology requirement BIO 111 + BIO 112 + BIO EOC Exam = Biology Graduation Requirement
	Total	11-12	varies			
	Grand Total	60-61		Associate in Engineering Degree Complete		
	Updated 2/9/2026 (2026-2027 Catalog)					



Semester	Course	Cr Hrs	Co Hrs	Course Designation	Course Notes	Dual Credit Notes
Fall	ACA 122 - College Transfer Success	1	2	Required Course	Pathway Course	
	ENG 111 - Writing & Inquiry	3	3	Required Course - UGETC: English Comp	Pathway Course	ENG 111 + ENG 112 + (ENG 231 or ENG 232) = English III ENG 111 + ENG 112 + (ENG 241 or ENG 242) = English IV
	MAT 271 - Calculus I	4	5	Required Course - UGETC: Math	Pathway Course Course Only Offered in Fall	1 Credit; Satisfies Fourth Math Graduation requirement
	ECO 251 - Principles of Microeconomics	3	3	Required Course - UGETC: Social/Behavioral Science	Pathway Course	1 Elective Credit
	DFT 170 - Engineering Graphics	3	4	Required Course - CAA Pre Major/Elective	Pathway Course Course Only Offered in Fall	
	Total	14	17			
Spring	ENG 112 - Writing/Research in the Disciplines	3	3	Required Course - UGETC: English Comp	Pathway Course	ENG 111 + ENG 112 + (ENG 231 or ENG 232) = English III ENG 111 + ENG 112 + (ENG 241 or ENG 242) = English IV
	EGR 150 - Intro to Engineering	2	3	Required Course - CAA Pre Major/Elective	Pathway Course Course Only Offered in Spring	
	MAT 272 - Calculus II	4	5	Required Course - UGETC: Math	Pathway Course Course Only Offered in Spring	1 Credit; Satisfies Fourth Math Graduation requirement
	PHY 251 - General Physics I	4	6	Required Course - UGETC: Natural Science	Pathway Course Course Only Offered in Spring	1 Elective Credit or May be combined with PHY 252 to satisfy the physical science requirement; PHY 251 + PHY 252 = Physical Science Requirement
	Total	13	17			
Summer	Choice of Humanities/Fine Arts/Communication	3	3	Choice of Humanities/Fine Arts - ART 111, ART 114, ART 115, COM 231, ENG 231, ENG 232, ENG 241, ENG 242, MUS 110, MUS 112, or PHI 240	Pathway Course	1 Elective Credit or ENG 111 + ENG 112 + (ENG 231 or ENG 232) = English III ENG 111 + ENG 112 + (ENG 241 or ENG 242) = English IV
	Total	3	3			
						CCP Special Permission Form Required to complete remainder of Associate in Engineering Degree
Fall	CHM 151 - General Chemistry I	4	6	Required Course - UGETC: Natural Science	Pathway Course	1 Elective Credit or May be combined with CHM 152 to satisfy the physical science requirement; CHM 151 + CHM 152 = Physical Science Requirement
	MAT 273 - Calculus III	4	5	Required Course - GEN ED: Math	Course Only Offered in Fall	
	PHY 252 - General Physics II	4	6	Required Course - UGETC: Natural Science	Course Only Offered in Fall	1 Elective Credit or May be combined with PHY 252 to satisfy the physical science requirement; PHY 251 + PHY 252 = Physical Science Requirement
	Total	12	17			
Spring	Choice of Humanities/Fine Arts/Communication	3	3	Based on choice of first Humanities/Fine Arts, student must have ONE course in Fine Arts/Communications - ART 111, ART 114, ART 115, COM 231, MUS 110, or MUS 112 AND ONE course in Humanities - ENG 231, ENG 232, ENG 241, ENG 242, or ENG 240.		1 Elective Credit or ENG 111 + ENG 112 + (ENG 231 or ENG 232) = English III ENG 111 + ENG 112 + (ENG 241 or ENG 242) = English IV

	Choice of General Education Course	3-4	varies	Choice of General Education Course - BIO 111, CHM 152, COM 110, COM 231, ECO 252 or PHI 240		1 Elective Credit (excluding COM 110) or CHM 152 may be combined with CHM 151 to satisfy the physical science requirement; CHM 151 + CHM 152 = Physical Science Requirement BIO 111 + BIO 112 + BIO EOC Exam = Biology Graduation Requirement	
	Choice of Social Science Course	3	3	Choice of Social Science - HIS 111, HIS 112, HIS 131, HIS 132, POL 120, PSY 150, or SOC 210		1 Elective Credit or HIS 111 + HIS 112 = World History Graduation Requirement HIS 131 + HIS 132 = American History Graduation Requirement	
	Choice of Select General Education and Pre Major Elective Course(s)	8-9	varies	Choice of BIO 111, CHM 152, COM 110, COM 231, CSC 151, DFT 170, ECO 252, MAT 280, or PED 110	DFT 170 is Only Offered in Fall CSC 151 is Only Offered in Fall MAT 280 in Only Offered in Spring Courses should be selected from courses classified as general education within the Comprehensive Articulation Agreement (CAA). Students should select these courses based on their intended major and transfer university. 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.	1 Elective Credit (excluding COM 110, CSC 151, DFT 170, MAT 280, PED 110) CHM 152 May be combined with CHM 151 to satisfy the physical science requirement; CHM 151 + CHM 152 = Physical Science Requirement BIO 112 May be combined with BIO 112 to satisfy the biology requirement BIO 111 + BIO 112 + BIO EOC Exam = Biology Graduation Requirement	
	Total	18	varies				
	Grand Total	60-61		Associate in Engineering Degree Complete			
	Updated 2/9/2026 (2026-2027 Catalog)						

Early College Associate in Engineering (A10500EC) Course Sequencing

Goal: Early College Student to complete an Associate in Engineering Degree.

The AE plan includes required general education and prerequisite courses that are acceptable to all NC 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 duplicate courses. Admission to Engineering programs is highly competitive and admission is not guaranteed.

The [Uniform Articulation Agreement](#) for the Associate in Engineering promotes educational advancement opportunities for Associate in Engineering (A10500) completers and the constituent institutions of The University of North Carolina in order to complete Bachelor of Science in Engineering degrees. This Associate in Engineering to Bachelor of Science in Engineering Articulation Agreement (AE to BSE AA) is between the State Board of North Carolina Community Colleges and The University of North Carolina Board of Governors. It applies to all NC community colleges that operate the AE program and to UNC constituent institutions (ECU, NC A&T, NCSU, UNC-Charlotte and Western Carolina).

*AE Note: Students who do not place directly into MAT 271 must complete MAT 171 and MAT 172 prior to enrolling in MAT 271 Calculus I before enrolling in the degree. [MAT 271 Direct Placement Information](#)

Note: General Education electives should be selected from courses classified as general education within the [Comprehensive Articulation Agreement \(CAA\)](#). Students should select these courses based on their intended major and transfer university. 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. Students should consult with the transfer guides available at <https://www.cfnc.org/plan-your-future/plan-for-college/transfer-student-planner/to-unc-system-institutions/>.

Semester	Course	Cr Hrs	Co Hrs	Course Designation	Course Notes	Dual Credit Notes
Fall Freshman						
Spring Freshman	ACA 122 - College Transfer Success	1	2	Required Course		
	Total	1	2			
Fall Sophomore	Choice of Social Science Course	3	3	Choice of Social Science - HIS 111, HIS 112, HIS 131, HIS 132, POL 120, PSY 150, or SOC 210		1 Elective Credit or HIS 111 + HIS 112 = World History Graduation Requirement HIS 131 + HIS 132 = American History Graduation Requirement
	Total	3	3			
Spring Sophomore	EGR 150 - Intro to Engineering	2	3	Required Course - CAA Pre Major/Elective	Course Only Offered in Spring	
	Total	2	3			
Fall Junior	ENG 111 - Writing & Inquiry	3	3	Required Course - UGETC: English Comp		ENG 111 + ENG 112 + (ENG 231 or ENG 232) = English III ENG 111 + ENG 112 + (ENG 241 or ENG 242) = English IV
	MAT 271 - Calculus I	4	5	Required Course - UGETC: Math	Course Only Offered in Fall	1 Credit; Satisfies Fourth Math Graduation requirement
	ECO 251 - Principles of Microeconomics	3	3	Required Course - UGETC: Social/Behavioral Science		1 Elective Credit
	Choice of Select General Education and Pre Major Elective Course(s) DFT 170 is RECOMMENDED	3	varies	Choice of BIO 111, CHM 152, COM 110, COM 231, CSC 151, DFT 170, ECO 252, MAT 280, or PED 110	DFT 170 is Only Offered in Fall CSC 151 is Only Offered in Fall MAT 280 is Only Offered in Spring Courses should be selected from courses classified as general education within the Comprehensive Articulation Agreement (CAA). Students should select these courses based on their intended major and transfer university. 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.	1 Elective Credit (excluding COM 110, CSC 151, DFT 170, MAT 280, PED 110) CHM 152 May be combined with CHM 151 to satisfy the physical science requirement; CHM 151 + CHM 152 = Physical Science Requirement BIO 112 May be combined with BIO 112 to satisfy the biology requirement BIO 111 + BIO 112 + BIO EOC Exam = Biology Graduation Requirement
	Total	13	varies			
Spring Junior	ENG 112 - Writing/Research in the Disciplines	3	3	Required Course - UGETC: English Comp		ENG 111 + ENG 112 + (ENG 231 or ENG 232) = English III ENG 111 + ENG 112 + (ENG 241 or ENG 242) = English IV
	MAT 272 - Calculus II	4	5	Required Course - UGETC: Math	Course Only Offered in Spring	1 Credit; Satisfies Fourth Math Graduation requirement

	PHY 251 - General Physics I	4	6	Required Course - UGETC: Natural Science	Course Only Offered in Spring	1 Elective Credit or May be combined with PHY 252 to satisfy the physical science requirement; PHY 251 + PHY 252 = Physical Science Requirement
	Choice of Fine Arts/Communications	3	3	Choice of Fine Arts/Communications - ART 111, ART 114, ART 115, COM 231, MUS 110, or MUS 112		1 Elective Credit
	Total	14	17			
Summer Junior	Choice of Humanities	3	3	Choice of Humanities - ENG 231, ENG 232, ENG 241, ENG 242, or PHI 240		1 Elective Credit or ENG 111 + ENG 112 + (ENG 231 or ENG 232) = English III ENG 111 + ENG 112 + (ENG 241 or ENG 242) = English IV
	Total	3	3			
Fall Senior	CHM 151 - General Chemistry I	4	6	Required Course - UGETC: Natural Science		1 Elective Credit or May be combined with CHM 152 to satisfy the physical science requirement; CHM 151 + CHM 152 = Physical Science Requirement
	MAT 273 - Calculus III	4	5	Required Course - GEN ED: Math	Course Only Offered in Fall	
	PHY 252 - General Physics II	4	6	Required Course - UGETC: Natural Science	Course Only Offered in Fall	1 Elective Credit or May be combined with PHY 252 to satisfy the physical science requirement; PHY 251 + PHY 252 = Physical Science Requirement
	Total	12	17			
Spring Senior	Choice of General Education Course	3-4	varies	Choice of General Education Course - BIO 111, CHM 152, COM 110, COM 231, ECO 252 or PHI 240		1 Elective Credit (excluding COM 110) or CHM 152 may be combined with CHM 151 to satisfy the physical science requirement; CHM 151 + CHM 152 = Physical Science Requirement BIO 111 + BIO 112 + BIO EOC Exam = Biology Graduation Requirement
	Choice of Select General Education and Pre Major Elective Course(s)	8-9	varies	Choice of BIO 111, CHM 152, COM 110, COM 231, CSC 151, DFT 170, ECO 252, MAT 280, or PED 110	DFT 170 is Only Offered in Fall CSC 151 is Only Offered in Fall MAT 280 is Only Offered in Spring Courses should be selected from courses classified as general education within the Comprehensive Articulation Agreement (CAA). Students should select these courses based on their intended major and transfer university. 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.	1 Elective Credit (excluding COM 110, CSC 151, DFT 170, MAT 280, PED 110) CHM 152 May be combined with CHM 151 to satisfy the physical science requirement; CHM 151 + CHM 152 = Physical Science Requirement BIO 112 May be combined with BIO 112 to satisfy the biology requirement BIO 111 + BIO 112 + BIO EOC = Biology Graduation Requirement
	Total	12	varies			
	Grand Total	60-61		Associate in Engineering Degree Complete		
	Updated 2/9/2026 (2026-2027 Catalog)					

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. Prepare a deliverable designed to increase knowledge, foster understanding, or promote change in audiences' attitudes, values, beliefs, or behavior.
2. Apply appropriate strategies to identify materials, evaluate information, and reference relevant discipline materials to effectively address a topic.
3. Use mathematical skills to logically analyze and interpret mathematics in context.
4. Develop meaningful questions, gather and analyze evidence, and create evidence-based conclusions or solutions.

Graduation Requirement: At least 60 semester hours must be completed with at least a 2.0 ('C') grade point average on a 4.0 scale. Note: To be eligible for the transfer of credits under the AE to BSE Uniform Articulation Agreement, an applicant must earn an AE degree in a North Carolina Community College with a GPA of at least 2.5 and a grade of C or better in all AE courses.

Partnership: College of The Albemarle has articulation agreements with certain universities for students transferring into specific programs of study. Students can complete the first two years of that specific baccalaureate degree at College of The Albemarle. Students should check with their advisor and the COA website for more information. www.albemarle.edu/student-resources/transfer-from-coa/

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*This program offers a [Career and College Promise pathway \(CCP\) P1052C](#). Courses within the pathway are highlighted in yellow.

A 10 50 0 Associate in Engineering

COURSE NUMBER	COURSE TITLE	SEMESTER	CO-REQUISITES	PRE-REQUISITES	CREDITS
STUDENT SUCCESS					1
ACA 122	Transfer & Career Success			None	1
COMPOSITION					6
ENG 111	Writing and Inquiry			ENG 025	3
ENG 112	Writing/Research in the Disciplines			ENG 111	3
FINE ARTS & COMMUNICATIONS					3
Select 1 course from: COM 231 (ENG 111), ART 111 (None), ART 114 (ENG 025), ART 115 (ENG 025), MUS 110 (None), or MUS 112 (None)					
				Varies	3
HUMANITIES					3
Select 1 course from: ENG 231 (ENG 112), ENG 232 (ENG 112), ENG 241 (ENG 111), ENG 242 (ENG 111), or PHI 240 (ENG 111)					
				Varies – pre-requisites in parentheses	3
SOCIAL/BEHAVIORAL SCIENCES					6
Select 1 course from: HIS 111 (ENG 025), HIS 112 (ENG 025), HIS 131 (ENG 025), HIS 132 (ENG 025), POL 120 (ENG 025), PSY 150 (ENG 025), or SOC 210 (ENG 025)					
				Varies – pre-requisites in parentheses	3
ECO 251	Principles of Microeconomics			ENG 025 and MAT 025	3
MATHEMATICS					12
MAT 271	Calculus I			MAT 172 or MAT 175 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		4
PHY 252	General Physics II			PHY 251, MAT 272	4
CHM 151	General Chemistry 1			ENG 025 and MAT 025, and either CHM 090 or one unit of HS Chemistry	4
OTHER GENERAL EDUCATION					3-4
Select 1 course from: BIO 111 (ENG 025 and MAT 025), CHM 152 (CHM 151), COM 110 (none), COM 231 (ENG 111), ECO 252 (ENG 025 and MAT 025), or PHI 240 (ENG 111)					
				Varies – pre-requisites in parentheses	3-4
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 025 and MAT 025), CHM 152 (CHM 151), COM 110 (none), COM 231 (ENG 111), CSC 151 (CIS 110 or CIS 111 or CIS 115), DFT 170 (none), ECO 252 (ENG 025 and MAT 025), MAT 280 (MAT 271), 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

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 Transfer & Career Success	None	0	2	0	2	1
ENG 111 Writing and Inquiry	Pre-Requisites: ENG 025	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 025	3	0	0	3	3
MAT 271 Calculus I*	Pre-Requisites: MAT 172 or MAT 175 (with a C or higher)	3	2	0	5	4
CHM 151 General Chemistry I	Pre-Requisites: ENG 025 and MAT 025, and either 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
Select one of the following: COM 231, ART 111, ART 114, ART 115, MUS 110, or MUS 112	Pre-Requisites: Varies	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	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

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
Select one of the following: ENG 231, ENG 232, ENG 241, ENG 242, PHI 240	Pre-Requisites: Varies	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, MAT 280*, 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
ECO 251 Principles of Microeconomics	Pre-Requisites: ENG 025 and MAT 025	3	3	0	3	3
Select one of the following: BIO 111, CHM 152, COM 110, COM 231, 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, COM 231, CSC 151, DFT 170*, ECO 252, MAT 280**, 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.