

Associate in Engineering (A10500) (College Transfer Curricula)

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. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

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.

To be eligible for the transfer of credits under the AE to the Bachelor of Science in Engineering Articulation Agreement, community college graduates must obtain a grade of “C” or better in each course and an overall GPA of at least 2.5 on a 4.0 scale.

COURSE REQUIREMENTS

Richmond Community College provides day and evening course sequences for selected programs to enable students to better plan what courses to take to reach their educational goals. However, given the continued increase in the use of technology in instruction and increasing student demand for distance learning courses, the College may offer hybrid, online, web-based and information highway courses in place of traditional courses in any course sequence that is listed. Therefore, students should be aware of this possibility and prepare themselves to successfully function in a hybrid, online, web-based, or information highway course.

	Class	Lab	Work/ Clinical	Credit
A. General Education Courses				
1. English Composition (6 SHC)				
ENG 111 Writing and Inquiry	3	0	0	3
ENG 112 Writing/Research in the Disciplines	3	0	0	3
2. Humanities (3 SHC)				
<i>Select one course from the following:</i>				
ENG 231 American Literature I	3	0	0	3
ENG 232 American Literature II	3	0	0	3
PHI 240 Introduction to Ethics	3	0	0	3
REL 110 World Religions	3	0	0	3
3. Fine Arts and Communication (3 SHC)				
<i>Select one course from the following:</i>				
ART 111 Art Appreciation	3	0	0	3

COM 231	American Literature I	3	0	0	3
MUS 110	Music Appreciation	3	0	0	3
4. Social/Behavioral Sciences (6 SHC)					
Required					
ECO 251	Principles of Microeconomics	3	0	0	3
<i>Select one course from the following:</i>					
HIS 111	World Civilizations I	3	0	0	3
HIS 112	World Civilizations II	3	0	0	3
HIS 131	American History I	3	0	0	3
HIS 132	American History II	3	0	0	3
POL 120	American Government	3	0	0	3
PSY 150	General Psychology	3	0	0	3
SOC 210	Introduction to Sociology	3	0	0	3
5. Mathematics (12 SHC)					
MAT 271	Calculus I	3	2	0	4
MAT 272	Calculus II	3	2	0	4
MAT 273	Calculus III	3	2	0	4
6. Natural Sciences (12 SHC)					
CHM 151	General Chemistry I	3	3	0	4
PHY 251	General Physics I	3	3	0	4
PHY 252	General Physics II	3	3	0	4
B. Other Required Courses					
1. Academic Transition (1 SHC)					
ACA 122	College Transfer Success	0	2	0	1
2. Pre-major Elective (2 SHC)					
EGR 150	Introduction to Engineering	1	2	0	2
Other General Education and Pre-Major Elective Hours (16 SHC)					
BIO 111	General Biology I	3	3	0	4
CHM 152	General Chemistry II	3	3	0	4
COM 110	Introduction to Communication	3	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	3
PED 110	Fitness and Wellness for Life	1	2	0	2

Total Credit Hours**61**

*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE ENGINEERING (DAY)

			Class	Lab	Work/ Clinical	Credit
First Year—Fall Semester						
ENG	111	Writing and Inquiry	3	0	0	3
MAT	271	Calculus I	3	2	0	4
CHM	151	General Chemistry I	3	3	0	4
ACA	122	College Transfer Success	0	2	0	1
BIO	111	General Biology I	3	3	0	4
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			12	10	0	16
First Year—Spring Semester						
ENG	112	Writing/Research in the Disciplines	3	0	0	3
MAT	272	Calculus II	3	2	0	4
PHY	251	General Physics I	3	3	0	4
CHM	152	General Chemistry II	3	3	0	4
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			12	8	0	15
Second Year—Fall Semester						
MAT	273	Calculus III	3	2	0	4
PHY	252	General Physics II	3	3	0	4
EGR	150	Introduction to Engineering	1	2	0	2
ECO	251	Principles of Microeconomics	3	0	0	3
PED	110	Fitness and Wellness for Life	1	2	0	2
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			11	9	0	15
Second Year—Spring Semester						
COM	110	Introduction to Communications	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
		Fine Arts/Communication	3	0	0	3
		Humanities	3	0	0	3
		Social/Behavioral Sciences	3	0	0	3
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			15	0	0	15
Total Credit Hours					61	