## UNIVERSITY TRANSFER

## **Associate in Engineering (A10500)**

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.

Transfer programs such as this require a "C" or better in all classes to graduate.

## **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.

					Work/		
				Class	Lab	Clinical	Credit
A. Ge	eneral I	Educa	tion Courses				
1.	Englis	h Con	nposition (6 SHC)				
	<b>ENG</b>	111	Writing and Inquiry	3	0	0	3
	<b>ENG</b>	112	Writing/Research in the Disciplines	3	0	0	3
2.	Humai	nities	(3 SHC)				
	Select	one c	ourse from the following:				
	<b>ENG</b>	231	American Literature I	3	0	0	3
	<b>ENG</b>	232	American Literature II	3	0	0	3
	<b>ENG</b>	241	British Literature I	3	0	0	3
	<b>ENG</b>	242	British Literature II	3	0	0	3
	PHI	215	Philosophical Issues	3	0	0	3
	PHI	240	Introduction to Ethics	3	0	0	3
	REL	110	World Religions	3	0	0	3
3.	3. Fine Arts and Communication (3 SHC)						
	Select one course from the following:						
	ART	111	Art Appreciation	3	0	0	3
	ART	114	Art History Survey I	3	0	0	3
	ART	115	Art History Survey II	3	0	0	3

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		COM	231	American Literature I	3	0	0	3	
		MUS	110	Music Appreciation	3	0	0	3	
	4.			vioral Sciences (6 SHC)					
		Required							
		ECO	251	Principles of Microeconomics	3	0	0	3	
		Select	one c	ourse from the following:					
		HIS		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 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.	Mathe	matic	s (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.	Natura	ıl Scie	ences (12 SHC)					
		CHM	151	General Chemistry I	3	3	0	4	
		PHY	251	General Physics I	3	3	0	4	
		PHY		General Physics II	3	3	0	4	
В.		Other Required Courses							
	1.	. Academic Transition (1 SHC)							
				College Transfer Success	0	2	0	1	
	2.	<ul> <li>2. Pre-major Elective (2 SHC)</li> <li>EGR 150 Introduction to Engineering</li> <li>1 2 0</li> </ul>							
								2	
	Other General Education and Pre-Major Elective Hours (15 SHC)								
		BIO		General Biology I	3	3	0	4	
		CHM		General Chemistry II	3	3	0	4	
		CSC	151	JAVA Programming	2	3	0	3	
		ECO		Principles of Macroeconomics	3	0	0	3	
		EGR	220	Engineering Statics	3	0	0	3	
		EGR	225	Engineering Dynamics	3	0	0	3	
		MAT		Differential Equations	2	2	0	3	
		PED	110	Fitness and Wellness for Life	1	2	0	2	

**Total Credit Hours**\*Approved Electives are listed on the page before the Course Descriptions.

## SEMESTER SCHEDULE ENGINEERING (DAY)

			Class	Work/ Lab Clinical Credit		
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
CHM	151	General Chemistry I	3	3	0	4

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ENG 111	Writing and Inquiry	3	0	0	3		
MAT 271	Calculus I	3	2	0	4		
	Humanities	3	0	0	3		
		12	7	0	15		
	First Year – Spring Semester						
CHM 152	General Chemistry II	3	3	0	4		
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		
		12	8	0	15		
	Second Year – Fall Semester						
CSC 151	JAVA Programming	2	3	0	3		
EGR 150	Introduction to Engineering	1	2	0	2		
EGR 220	Engineering Statics	3	0	0	3		
MAT 273	Calculus III	3	2	0	4		
PHY 252	General Physics II	3	3	0	4		
		12	10	0	16		
	Second Year – Spring Semeste				_		
ECO 251	Principles of Microeconomics	3	0	0	3		
EGR 225	Engineering Dynamics	3	0	0	3		
MAT 285	Differential Equation	2	2	0	3		
	Fine Arts/Communication	3	0	0	3		
	Social/Behavioral Sciences	3	0	0	3		
		<del>14</del>	2	0	<del>15</del>		
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