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.

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)				
		ENG	111	Writing and Inquiry	3	0	0	3
		ENG	112	Writing/Research in the Disciplines	3	0	0	3
	2. Humanities (3 SHC)							
		Select one course from the following:						
		ENG	231	American Literature I	3	0	0	3
		ENG	232	American Literature II	3	0	0	3
		ENG	241	British Literature I	3	0	0	3
		ENG	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. 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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				American Literature I Music Appreciation	3	0	0 0	3			
	4.			vioral Sciences (6 SHC)	3	U	U	3			
	т.	Requir									
		-		Principles of Microeconomics	3	0	0	3			
		Select	one c	ourse from the following:							
		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			
				American Government	3	0	0	3			
		PSY	150	General Psychology	3	0	0				
				Introduction to Sociology	3	0	0	3			
	5.	5. Mathematics (12 SHC)									
		MAT	271	Calculus I	3	2	0	4			
				Calculus II	3	2	0	4			
		MAT	273	Calculus III	3	2	0	4			
	6.			ences (12 SHC)							
		CHM		General Chemistry I	3	3	0	4			
		PHY		General Physics I	3	3	0	4			
		PHY		General Physics II	3	3	0	4			
В.			ner Required Courses								
	1. Academic Transition (1 SHC)										
				College Transfer Success	0	2	0	1			
	2.	Pre-major Elective (2 SHC)									
				Introduction to Engineering	1	2	0	2			
	Other General Education and Pre-Major Elective Hours (15 SHC)										
		BIO		General Biology I	3	3	0	4			
				General Chemistry II	3	3	0	4			
				Introduction to Communication	3	0	0	3			
		CSC		JAVA Programming	2	3	0	3			
		ECO		Principles of Macroeconomics	3	0	0	3			
		EGR		Engineering Statics	3	0	0	3			
		EGR		Engineering Dynamics	3	0	0	3			
		MAT		Differential Equations	2	2	0	3			
		PED	110	Fitness and Wellness for Life	1	2	0	2			

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

Total Credit Hours

SEMESTER SCHEDULE ENGINEERING (DAY)

Work/ Class Lab Clinical Credit

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		First Year – Fall Semester								
ACA	122	College Transfer Success	0	2	0	1				
CHM	151	General Chemistry I	3	3	0	4				
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				
			1 2	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				
			1 2	10	0	16				
Second Year – Spring Semester										
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				
			14	2	0	15				

Total Credit Hours

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