EFFECTIVE 2024 FALL: THIS PROGRAM IS IN TEACH-OUT STATUS. NO NEW STUDENTS WILL BE ENROLLED 2024 FALL OR AFTER. CURRENT STUDENTS MUST COMPLETE THE PROGRAM BY 2026 SPRING. LAST SEMESTER THESE CLASSES WILL BE OFFERED IS 2026 SPRING.

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. Gener	al Educa	ation Courses				
1. En	glish Coı	mposition (6 SHC)				
EN	G 111	Writing and Inquiry	3	0	0	3
EN	G 112	Writing/Research in the Disciplines	3	0	0	3
2. Hu	2. Humanities (3 SHC)					
Sel	Select one course from the following:					
EN	G 231	American Literature I	3	0	0	3
EN	G 232	American Literature II	3	0	0	3
EN	G 241	British Literature I	3	0	0	3
EN	G 242	British Literature II	3	0	0	3
PH	I 215	Philosophical Issues	3	0	0	3
PH	I 240	Introduction to Ethics	3	0	0	3

		REL	110	World Religions	3	0	0	3
	3.	Fine A	rts an	d Communication (3 SHC)				
		Select	one c	ourse 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
		COM	231	American Literature I	3	0	0	3
		MUS	110	Music Appreciation	3	0	0	3
	4.	Social	/Beha	vioral Sciences (6 SHC)				
		Requir	red					
		ECO	251	Principles of Microeconomics	3	0	0	3
	Select one course 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
				American History II	3	0	0	3
		POL		American Government	3	0	0	3
				General Psychology	3	0	0	3
				Introduction to Sociology	3	0	0	3
	5.			s (12 SHC)				
				Calculus I	3	2	0	4
				Calculus II	3	2	0	4
				Calculus III	3	2	0	4
	6.			ences (12 SHC)				
				General Chemistry I	3	3	0	4
				General Physics I	3	3	0	4
				General Physics II	3	3	0	4
B.	Ot			d Courses	-	-	-	
			-	ransition (1 SHC)				
				College Transfer Success	0	2	0	1
	2.			lective (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
		CHM		General Chemistry II	3	3	0	4
		CSC	151	-	2	3	0 0	3
		ECO		Principles of Macroeconomics	3	0	0	3
		EGR		Engineering Statics	3	0 0	0	3
		EGR		Engineering Dynamics	3	0	0	3
		MAT		Differential Equations	2	2	0	3
		PED		Fitness and Wellness for Life	1	$\frac{2}{2}$	0	2
				- Threes and Trendos for Life	-	-	0	-

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

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SEMESTER SCHEDULE ENGINEERING (DAY)

ENGINEERING (DAY)									
				Work/					
			Class	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			
ENG	111	Writing and Inquiry	3	0	0	3			
MAT	271	Calculus I	3	2	0	4			
		Humanities	3	0	0	3			
			$\overline{12}$	7	0	$\overline{15}$			
		First Year – Spring Semeste	r						
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			
			$\overline{12}$	8	$\overline{0}$	$\overline{15}$			
		Second Year – Fall Semester		0	U	10			
CSC	151	JAVA Programming	2	3	0	3			
EGR	150	Introduction to Engineering	1	2	Ő	2			
EGR	220	Engineering Statics	3	0	0 0	3			
MAT	273	Calculus III	3	2	0 0	4			
PHY	252	General Physics II	3	3	0	4			
			$\overline{12}$	10		16			
		Coord Voor Crying Comost		10	0	16			
ECO	251	Second Year – Spring Semest	er 3	0	0	2			
ECO		Principles of Microeconomics		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			
			$\overline{14}$	2	0	15			
	Total			61					

Total Credit Hours

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