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 E	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	ourse 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 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

<u> </u>	age							
	MUS	110	Music Appreciation	3	0	0	3	
4.			vioral Sciences (6 SHC)					
	Requir							
	ECO	251	Principles of Microeconomics	3	0	0	3	
	Select		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 3	
	HIS	132	American History II	3	0	0		
	POL	120	American Government	3	0	0	3	
	PSY	150	General Psychology	3	0	0	3 3 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	al Scie	ences (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	
Ot	her Re	quire	d Courses					
1.	Acade	nic T	ransition (1 SHC)					
	ACA	122	College Transfer Success	0	2	0	1	
2.	. Pre-major Elective (2 SHC)							
			Introduction to Engineering	1	2	0	2	
Ot	Other General Education and Pre-Major Elective Hours (15 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	
	CSC	151	JAVA Programming	2	3	0	3	
	ECO	252	Principles of Macroeconomics	3	0	0	3	
	EGR	220	Engineering Statics	3	0	0	3	
	EGR	225	Engineering Dynamics	3	0	0	3	
		285	Differential Equations	2	2	0	3	
	MAT	20J		2	<u> </u>	0	2	

60

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

SEMESTER SCHEDULE **ENGINEERING (DAY)**

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

Writing and Inquiry ENG 111 MAT 271 Calculus I Humanities **First Year – Spring Semester** General Chemistry II CHM 152 ENG 112 Writing/Research in the Disciplines MAT 272 Calculus II PHY 251 General Physics I Second Year - Fall Semester CSC JAVA Programming Introduction to Engineering EGR **Engineering Statics** EGR MAT 273 Calculus III PHY 252 General Physics II Second Year – Spring Semester ECO 251 **Principles of Microeconomics** Engineering Dynamics EGR **Differential Equation** MAT 285 Fine Arts/Communication Social/Behavioral Sciences **Total Credit Hours**

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