

Program Planning Guide Associate in Engineering, A10500

Program Length: 4 semesters

Program Sites: Lee Main Campus; selected courses available in Chatham and Harnett and via distance education

Career Pathway Options: Associate in Engineering Degree, Baccalaureate Degree at a Senior Institution

The Associate in Engineering degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC). Within the degree program students will have the opportunity to demonstrate problem solving ability, effective written communication skills and appropriate mathematical skills.

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 North Carolina public Bachelor of Engineering programs, as well as Campbell University. 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 Associates of Engineering program 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.

Specific course schedule sequences are available for students starting at different levels of MAT 271, Calculus I, readiness.

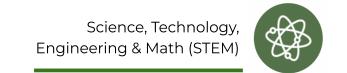
Suggested Co	Class	Lab	Credits	Notes:	
1st Semester (fall)					
ENG 111	Writing and Inquiry	3	0	3	
CHM 151	General Chemistry I	3	3	4	
ECO 251	Principles of MIcroeconomics	3	0	3	
EGR 150	Introduction to Engineering	1	2	2	
ACA 122	College Transfer Success	0	2	1	
MAT 271 prerequisites* or Humanities			0	3	*MAT 271 prereq courses do not count towards the AE degree
	Total Semester Hours	13	7	16	
2nd Semester (spring)					
ENG 112	Writing & Research in the Disciplines	3	0	3	
MAT 271**	Calculus I	3	2	4	
Fine Arts/Communications Requirement			0	3	
Social/Behavioral Science Requirement		3	0	3	
Pre-major Elective Course		3	3	4	
	Total Semester Hours			17	

Effective Term: 2024FA

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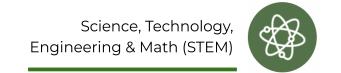
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**Note: MAT	171 and MAT 172 or their equivalents are p	rerequi	sites for	MAT 27
3rd Semester	(summer)			
MAT 272	Calculus II	3	2	4
PHY 251	General Physics	3	3	4
Pre-major Ele	ective Course	3	0	3
Pre-major Ele	ective Course	3	0	3
	Total Semester Hours	12	5	14
4th Semester	(fall)			
MAT 273	Calculus III	3	2	4
PHY 252	General Physics II	3	3	4
Other Genera	al Education Requirement	3	0	3
Pre-major Ele	ective Course	3	0	3
	Total Semester Hours	12	5	14

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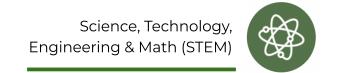
_	_			Associate in Engineering		
I.		l Education				
	A.	English C			_	
				11 Writing and Inquiry		3-0-3
				12 Writing & Research in the Disciplines	3	3-0-3
	B.			e Arts (Take one course from each group.)		
		1. G	•			
			,	ENG 231 American Literature I		3-0-3
			,	ENG 232 American Literature II		3-0-3
			,	ENG 241 British Literature I		3-0-3
			,	ENG 242 British Literature II		3-0-3
			,	PHI 240 Introduction to Ethics		3-0-3
			f)	REL 110 World Religions	3	3-0-3
		2. G	roup	2		
				ART 111 Art Appreciation		3-0-3
			b)	ART 114 Art History Survey I		3-0-3
			c)	ART 115 Art History Survey II		3-0-3
				COM 231 Public Speaking		3-0-3
			e)	MUS 110 Music Appreciation		3-0-3
			f)	MUS 112 Introduction to Jazz	3	3-0-3
	C.			ral Sciences		
				51 Prin of Microeconomics	3	3-0-3
		2. Ta		ne course from:		
			,	HIS 111 World Civilizations I		3-0-3
			b)	HIS 112 World Civilizations II		3-0-3
			c)	HIS 131 American History I		3-0-3
			d)	HIS 132 American History II		3-0-3
			e)	POL 120 American Government		3-0-3
			f)	PSY 150 General Psychology	3	3-0-3
			g)	SOC 210 Introduction to Sociology	3	3-0-3
	D.	Mathemat	tics			
		1. M	1AT 27	71 Calculus I		3-2-4
				72 Calculus II		3-2-4
		3. M	1AT 27	73 Calculus III	3	3-2-4
	E.	Natural So				
				51 General Chemistry I		3-3-4
				51 General Physics I		3-3-4
				52 General Physics II	3	3-3-4
	F.			Education (Take one course.)		
				1 General Biology		3-3-4
				10 Introduction to Communication		3-0-3
				31 Public Speaking		3-0-3
				52 General Chemistry II		3-3-4
				52 Prin of Macroeconomics		3-0-3
				1 Geology		3-2-4
				10 Technology and Society		3-0-3
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8. PHI 240 Introduction to Ethics

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II.	Other F	Other Required Hours							
	A.	Required							
		1.	ACA 122 College Transfer Success	0-2-1					
		2.	EGR 150 Intro to Engineering	1-2-2					
	B.	Other F	Required Hours (Take 12 credits.)						
		1.	BIO 111 General Biology	3-3-4					
		2.	CHM 152 General Chemistry II	3-3-4					
		3.	COM 110 Introduction to Communication	3-0-3					
		4.	COM 231 Public Speaking	3-0-3					
		5.	CSC 134 C++ Programming	2-3-3					
		6.	CSC 151 JAVA Programming	2-2-3					
		7.	DFT 170 Engineering Graphics	2-2-3					
		8.	ECO 252 Prin of Macroeconomics	3-0-3					
		9.	EGR 220 Engineering Statics	3-0-3					
		10.	GEL 111 Geology	3-2-4					
		11.	HUM 110 Technology and Society	3-0-3					
		12.	MAT 280 Linear Algebra	2-2-3					
		13.	MAT 285 Differential Equations	2-2-3					

14. PED 110 Fit and Well for Life