

Wake Tech Engineering Advising Form

Website: engineering.waketech.edu

Last Name:		First Name:		Middle:	Date:
Student ID	Campus: South North RTP	Phone:		GPA program	GPA overall
email: _____@my.waketech.edu				Working?	Financial Aid Veteran NONE
Catalog Year:					
1st choice Proposed Engr Major:			University:		
2nd choice Proposed Engr Major:			University:		

**COMPETITIVE GPA TO TRANSFER (calculated by the University, and subject to change every year)
ACCEPTANCE INTO AN ENGINEERING UNIVERSITY PROGRAM IS NOT GUARANTEED**

ECU 3.0 GPA overall	NC A&T 2.5 GPA overall	NCSU 3.5+ GPA overall for BioEngr, Biomed (separate application), Chem E. Civil, Comp E, Comp. Sci, Construc, Elec.E, Enviro, Industrial, Matr'l, Nuclear, Paper, Textiles	UNC CHARLOTTE	UNC ASHEVILLE 3.0 GPA overall
Biomedical Engr	Chemical, Biological, Bioengineering Engr (CBEN)		2.5 for the following Civil & Environmental	Mechatronics
Bioprocess Engr			Computer Science	Joint program with NCSU 3.0 GPA must contact UNC Asheville
Electrical Engr	Civil, Architectural, Environmental Engr (CAEE)		Electrical & Computer Systems & Engr Management	
Environmental Engr		3.8+ GPA overall for Mech E and Aerospace	3.0 GPA overall for all Mechanical degrees	WESTERN CAROLINA 2.5 GPA overall
Industrial & Systems Engr	Computer Science (COMP)	Required Calculus for <u>ALL</u> Engineering Majors: MAT 273 & MAT 285	Mechanical concentration biomedical	Electrical Engineering
Mechanical Engr	Electrical and Computer Engr(ELEN)	Required Calculus for Computer Science MAT 273 & MAT 280	Mechanical Engineering concentration Energy Systems	Mechanical Engineering
<u>All ENGR students must take MAT 285 Differential Eq. and MAT 280 Linear Alg. and EGR 220 Statics</u>	Industrial and Systems Engr (INEN)		Mechanical Engineering concentration Motorsports	CHAPEL HILL 3.5 GPA
	Mechanical Engr (MEEN)			Biomedical
	Mechanical Engineering Aerospace option			Computer Science

EXAMPLE SEMESTER BY SEMESTER PLAN

1 st Year FALL		1 st Year SPRING		1 st Year SUMMER	
MAT 271 Calculus I	4	MAT 272 Calculus II	4	ECO 251 Micro-Economics	3
CHM 151 General Chem I	4	PHY 251 Physics I	4	Engr. specific course, such as DFT 170	3
ENG 111 Writing	3	ENG 112 Writing & Res	3		
ACA 122 College Trnsfr Success	1	HIS XXX or SOC 210 or PSY 150	3		
EGR 150 Intro. to Engineering	2				
Total SHC	14	Total SHC	14	Total SHC	6
2 nd Year FALL		2 nd Year SPRING		2 nd Year SUMMER	
MAT 273 Calculus III	4	MAT 285 Differential Equation	3		
ENG 231 or 232 or PHI 240	3	PHY 252 Physics II	4		
Engr specific course	3	Engr specific course	3		
Engr specific course	3	COM 231	3		
Total SHC	13	Total SHC	13		

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WAKE TECH ASSOCIATES IN ENGINEERING

AE degree SHC	Course Requirements: General Education Hours	Total SHC	Selected Courses	Transfer required	Grade rec'vd
6 SHC ENGLISH COMPOSITION Take both	ENG 111 Writing and Inquiry + RISE (if needed)	3	ENG 111	required	
	ENG 112 Writing and Research in the Disciplines	3	ENG 112	required	
3 SHC HUMANITIES Choose one	ENG 231 American Lit I or ENG 232 American Lit II	3		choose one	
	PHI 240 Ethics	3			
	REL 110 World Religion* (not recommended)	3			
	<i>*REL 110 will transfer to all Engineering Programs at all five NC Universities. May not transfer to other undergraduate degree programs.</i>				
3 SHC FINE ARTS AND COMMUNICATION Choose one	COM 231 Public Speaking (recommended)	3		choose one	
	ART 111 Art Appreciation or ART 114, Art Survey I or ART 115 Art Survey II	3			
	MUS 110 Mus. Appr. or MUS 112 Intro to Jazz	3			
3 SHC SOC & BE	ECO 251 Micro Econ.	3	ECO 251	required	
3 SHC SOCIAL & BEHAVIORAL SCIENCE Choose one	HIS 111, or 112, (World Civ.I, II) or HIS 131 or 132 (American His. I and II)	3		choose one	
	POL 120 American Government	3			
	PSY 150 General Psychology	3			
	SOC 210 Intro. to Sociology	3			
PRE-REQ MATH courses	MAT 171 Pre-Calculus I + RISE (if needed)				
	MAT 172 Pre-Calculus II				
12 SHC MATHEMATICS	MAT 271 Calculus I <i>pre-req MAT 172 or equivalent</i>	4	MAT 271	required	
	MAT 272 Calculus II	4	MAT 272	required	
	MAT 273 Calculus III	4	MAT 273	required	
12 SHC Natural Sciences	CHM 151 General Chemistry I <i>pre-req MAT 171</i> (Must take CHM 090 if no Chem in HS)	4	CHM 151	required	
	PHY 251 Physics I <i>pre-req MAT 271 co-req MAT 272</i>	4	PHY 251	required	
	PHY 252 General Physics II	4	PHY 252	required	
Course Requirements: Engineering Hours					
3 SHC required hours	ACA 122 College Transfer Success <i>take in 1st 30 hours</i>	1	ACA 122	required	
	EGR 150 Intro to Engineering	2	EGR 150	required	
3 -4 SCH Hours Choose one	BIO 111 General Biology	4		Choose one (not taken for another category)	
	CHM 152 General Chemistry II	4			
	GEL 111 Geology	4			
	COM 231 Public Speaking	3			
	HUM 110 Technology and Society	3			
	PHI 240 Introduction to Ethics	3			
	ECO 252 Principles of Macroeconomics	3			
11- 12 SHC OTHER REQUIRED HOURS Students should choose courses appropriate to the specific University and Engineering Major reqs.	MAT 285 Differential Equations <i>pre-req MAT 272</i> (All Engr)	3		Highly recommend	
	MAT 280 Linear Algebra <i>pre-req MAT 271</i>	3			
	CSC 134 C++	3			
	CSC 151 JAVA (Comp. Sci)	3			
	BIO 111 General Biology (Biomed, Enviro)	4			
	GEL 111 Geology (Civil)	4			
	CHM 152 Chem II (Chem E, Biomed, Matls)	4			
	CHM 251 Organic Chemistry I (Chem E, Biomed, Matls)	4			
	CHM 252 Organic Chemistry II (Chem E)	4			
	DFT 170 Engineering Graphics (ME, Civil, IE, Enviro)	3			
	EGR 212 Logic System Design I <i>pre-req MAT 272 & PHY 251</i> (EE, Comp E, CS)	3			
	EGR 220 Statics <i>pre-req PHY 251, co-req MAT 273,</i> (ME, Civil, Enviro, IE, Matls, & ECU Engineering)	3			
	EGR 225 Dynamics <i>pre-req EGR 220</i> (ME)	3			
	ECO 252 Macro Economics	3			
	HUM 110 Technology and Society	3			
PED 110 Healthy Living <i>not recommended first semester</i>	2				
TOTAL SEMESTER HOURS for AE DEGREE					60- 61 SHC

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