

MECHANICAL

WAKE TECH ASSOCIATES IN ENGINEERING TRANSFERRABLE COURSES TO ENGINEERING UNIVERSITIES IN NORTH CAROLINA					
Courses should be selected from courses classified as premajor, elective or general education courses within the Comprehensive Articulation Agreement.					
Students must meet the receiving university's foreign language and/or physical education requirements, if applicable, prior to or after transfer to the senior institution.					
AS degree SHC	Course Requirements: General Education Hours	Total SHC	Selected Courses	Transfer required	Grade rec'd
6 SHC ENGLISH COMPOSITION Take both	ENG 111 Writing and Inquiry	3	ENG 111	required	
	ENG 112 Writing and Research in the Disciplines	3	ENG 112	required	
Additional Humanities, Fine Arts, Communications, and Social & Behavioral Science courses may be taken to meet requirements at the transfer University.					
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*	3			
3 SHC FINE ARTS AND COMMUNICATION Choose one	COM 231 Public Speaking	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				
	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 or 092 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	
TOTAL GENERAL EDUCATION HOURS REQ.:					42 SHC
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	
15 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> (Comp. Sci., EE, & all ECU Engineering)	3			
	CSC 134 C++	3			
	CSC 151 JAVA (Comp. Sci)	3			
	BIO 111 General Biology (Chem E, Biomed)	4			
	CHM 152 Chem II (Chem E, Biomed)	4			
	DFT 170 Engineering Graphics (ME, Civil, IE, Enviro)	3			
	EGR 212 Logic Systems Design I <i>pre-req MAT 272 & PHY 251</i> (EE, Comp E, and Comp Sci)	3			
	EGR 220 Statics <i>pre-req PHY 251, co-req MAT 273,</i> (ME, Civil, Enviro, IE & 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 ENGINEERING DEGREE HOURS					18 SHC

Developed by Susan Meardon, Engineering Department Head, Wake Technical Community College