

College of Technology and Computer Science

Department of Technology Systems

B.S. In Design

Concentration in Mechanical Technology

Program Coordinator: Dr. Robert Chin, chinr@ecu.edu, 252-328-9640

Prepare graduates for careers in application of machine and mechanical system principles to the development of automated systems and equipment. Graduates often work as a part of an engineering team engaged in the design and development phases of a wide variety of projects involving all aspects of mechanical systems. Course work includes electromechanical systems, thermal and fluid systems, machine design practices, metrology and tolerance systems, computer integrated manufacturing, rapid prototyping and 3D modeling, along with basic and advanced computer aided drafting and design courses.

Please note that this is a **recommended** sequence and should only be used as a guide.

Check the catalog for prerequisites.

Course availability may vary from semester to semester.

FRESHMAN YEAR					
CC Equivalent	Fall Semester		Spring Semester		
Eng 111	ENGL 1100	3	ENGL 1200	3	
Psy 150	PSYC 1000	3	HLTH 1000	2	
	ITEC 2010	3	MATH 1065	3	
	Humanities /Fine Arts	3	DESN 2034, 2035	3, 0	
CIS 110	ITEC 2000	3	IENG 2020, 2021	3, 0	
Ped 110	EXSS 1000	1	FINA 2244	3	
		16		17	
SOPHOMORE YEAR					
Phy 151	PHYS 1250, 1251	3, 1	Phy 152	PHYS 1260, 1261	3, 1
Mat 162	MATH 1074	2		DESN 3032, 3033	3, 0
	ITEC 2090, 2091	3, 0		ITEC 2080, 2081	3, 0
	DESN 2036, 2037	3, 0	Eco 251	ECON 2113	3
	ITEC 2054, 2055	3, 0		IENG 2076, 2077	3, 0
		15			16
JUNIOR YEAR					
	DESN 3234, 3235	3, 0		ITEC 4293	3
	ITEC 3292	3		DESN 3230, 3231	3, 0
	Social Science Elective	3		ITEC 4300	3
	ITEC 3200 or MATH 2283	3		ITEC 3300	3
	ITEC 3290	3	Com 231	COMM 2420 or 2410	3
		15			15
SENIOR YEAR					
	IENG 3300	3		IENG 3020, 3021	3, 0
	DESN 3236, 3237	3, 0		Humanities/Fine Arts	2
	PSYC 3241	3		ITEC 3800	3
	Humanities/Fine Arts	2		Free Elective	1
	Free Elective	3		Free Elective	3
	Free Elective	3		Free Elective	3
		17			15

Notes:

Total hours required for the Design degree is 126 hrs. Up to 63hrs of the degree may be applied from 2 year institutions.

Seeking advisement from a Technology Systems Academic Advisor is strongly encouraged.

Revised: August 2007