

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		Spring Semester	
Fall Semester			
ITEC 2000	3	ENGL 1200 (WI)	3
ENGL 1100 (WI)	3	Humanities /Fine Arts	2
PSYC 1000	3	MATH 1065	3
Humanities /Fine Arts	3	DESN 2034, 2035	3, 0
HLTH 1000	2	IENG 2020, 2021	3, 0
EXSS 1000	1	FINA 2244	3
	<u>15</u>		<u>17</u>
SOPHOMORE YEAR			
PHYS 1250, 1251	3, 1	PHYS 1260, 1261	3, 1
MATH 1074	2	DESN 3032, 3033	3, 0
ITEC 2080, 2081	3, 0	ITEC 2090, 2091	3, 0
DESN 2036, 2037	3, 0	ECON 2113	3
ITEC 2054, 2055	3, 0	IENG 2076, 2077	3, 0
	<u>15</u>		<u>16</u>
JUNIOR YEAR			
DESN 3234, 3235	3, 0	DESN 3230, 3231	3, 0
ITEC 3292	3	ITEC 3300 (WI)	3, 0
PSYC 3241	3	Social Science Elective	3
ITEC 3200 or MATH 2283	3	COMM 2420 or 2410	3
ITEC 3290 (WI)	3	Humanities	3
Approved Elective	3		<u>15</u>
	<u>18</u>		
SENIOR YEAR			
IENG 3300	3	IENG 3020, 3021	3, 0
DESN 3236, 3237	3, 0	DESN 4030, 4031	2
ITEC 4300	3	ITEC 3800 or FINA 3004	3
ITEC 4293 or MGMT 3202	3	Approved Elective	4
Approved Elective	3	Approved Elective	3
	<u>15</u>		<u>15</u>

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: May 2008