



Bachelor of Science in Engineering (TTU-ETSU-B.S.ENG.)

Sample Four-Year Program of Study



FRESHMAN YEAR (33)					
FALL SEMESTER			SPRING SEMESTER		
ENGL 1010	Critical Reading and Expository Writing (Writing I)	3	ENGL 1020	Critical Thinking and Argumentation (Writing II)	3
MATH 1910	Calculus I	4	MATH 1920	Calculus II	4
CHEM 1110 & 1111 (1110)	General Chemistry Lecture I & General Chemistry Laboratory I (General Chemistry I)	4	CHEM 1120 & 1121 (1120)	General Chemistry Lecture II & General Chemistry Laboratory II (General Chemistry II)	4
ENGR 1110	Engineering Graphics	2	ENGR 1120	Programming for Engineers	2
HUFA	Humanities or Fine Arts*	3	HUFA	Humanities or Fine Arts*	3
ENGR 1020	Connections to Engineering	1			
Fall Total		17	Spring Total		16

SOPHOMORE YEAR (32-34)					
FALL SEMESTER			SPRING SEMESTER		
MATH 2110	Calculus III	4	MATH 2120	Differential Equations	3
PHYS 2110	Technical Physics I - Calculus Based (Cal-based Physics I)	5(4)	PHYS 2120	Technical Physics II - Calculus Based (Cal-based Physics II)	5(4)
CEE 2110	Statics	3	COMM 2045	Public Speaking (Introduction to Speech Communication)	3
CEE 3710	Principles of Engineering Economy	2	ME 2330	Dynamics	3
LIT	Gen Ed Literature*	3	MATH 2010	Linear Algebra (Matrix Algebra)	3
Fall Total		16-17	Spring Total		16-17

JUNIOR YEAR (33)					
FALL SEMESTER			SPRING SEMESTER		
ECE 2010	Electric Circuits I	3	ME 3720	Fluid Mechanics	3
ECE 2011	Electrical Engineering Laboratory I	1	ME 3010	Materials and Processes in Engineering	3
CEE 3110	Mechanics of Materials	3	ECE 2020	Electric Circuits II	3
ENGR 3120	Solid Modeling	3	ME 3023	Measurements in Mechanical Systems	3
ME 3210	Thermodynamics I	3	SBS	Social/Behavioral Science*	3
SBS	Social/Behavioral Science*	3	CEE 3720	Engineering Statistics	2
Fall Total		16	Spring Total		17

SENIOR YEAR (28-30)					
FALL SEMESTER			SPRING SEMESTER		
ENGR 4950	Senior Design I	3	ENGR 4960	Senior Design II	3
ENGR 4900	Professionalism & Ethics	3	ENGR 4510	Engineering Management	3
CSC 3020	Numerical Methods	3	Technical Electives	See list of approved electives	6
Technical Electives	See list of approved electives	6	(Free Elective)	(Any course(s)) [TTU]	(1-3)
Fall Total		15	Spring Total		13-15

Total B.S.E = 128

*See ETSU Catalog for acceptable General Education courses in these areas. Major courses (ENGR, ECE, CEE, ME, CSC, and tech. electives) should be taken through ETSU/TTU to satisfy program residency requirements. For more information, contact ETSU academic advisor Debbie Roach at roachdt@etsu.edu.