

BSE Engineering: UTeach (Major Code: 3236)

Engineering Courses (59hrs)



ENGR 1030/1030L	Basic Engineering Science & lab	4	
ENGR 1040	Vector Statistics	3	
ENGR 1011	Introduction to Two- and Three Dimensional Modeling	1	
ENGR 1850	Introduction to Engineering Design	2	
ENGR 2700/2700L	Electric Circuits	4	
ENGR 2240 <i>or</i> ENGR 2250	Intro to Engineering Computations <i>or</i> Engineering Programming	3	
ENGR 2220	Probability and Statistics: Engineering (Every semester)	3	
ENGR 2460/2460L	Mechanics of Materials & lab	4	
ENGR 2480	Dynamics	3	
ENGR 3520	Engineering Economy (Every semester)	3	
ENGR 3700	Energy Conservation & Electronics (Spring semesters only)	3	
ENGR 3280/3280L	Control Systems & lab	4	
ENGR 3850	Interdisciplinary Design I	3	
ENGR 3050 <i>or</i> ENGR3030	Thermo-Fluids (Fall semesters only) <i>or</i> Thermodynamics (Fall and Summer semesters only)	3	
ENGR 4850	Interdisciplinary Design II	3	
	Engineering electives (courses must be at the 3000-4000 level)	13	

Related Courses (28hrs)

MATH 1910/1911	Calculus I & lab	4	
MATH 1920/1921	Calculus II & lab	4	
MATH 2200	Elementary Linear Algebra	3	
MATH 2450	Introduction to Differential and Difference Equations	3	
MATH 2550	Multivariable Calculus	3	
MATH 2300	Functions & Modeling	3	
CHEM 1110/1110L	General Chemistry I & lab	4	
PHYS 2310/2310L	Principles of Physics: Electricity and Magnetism/Lab	4	

General Education (beyond what is above) (18hrs)

ENGL 1010	Rhetoric & Composition I	3	
ENGL 1020	Rhetoric & Composition II	3	
	Fine Arts	3	
	Behavioral and Social Science	6	
	Cultures and Civilizations	3	

UTeaChattanooga Courses (23hrs)

UTSM 1010	Step 1: Inquiry Approaches to Teaching Mathematics and Science	1	
UTSM 1020	Step 2: Inquiry Based Lesson Design in Mathematics and Science	1	
UTSM 2010	Knowing and Learning in Mathematics and Science	3	
UTSM 2020	Classroom Interactions	3	
UTSM 3010	Perspectives on Science and Mathematics	3	
UTSM 3020	Research Methods in Science	3	
UTSM 4010	Project-Based Instruction	3	
UTSM 4020	Apprentice Teaching in Secondary Mathematics and Science	6	

TOTAL 128

*** This form should be used for planning purposes only. Please refer to your course catalog for the most recent prerequisites and course descriptions. Information is subject to change. ***