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

Sample Four-Year Program of Study*

FRESHMAN YEAR* (33)

Fall (Total credits: 17)

- ENGL 1010 – Critical Reading and Expository Writing (3 cr.)
- MATH 1910 – Calculus I (4 cr.)
- CHEM 1110 & 1111 – General Chemistry Lecture I and Lab I (4 cr.)
- ENGR 1110 – Engineering Graphics (2 cr.)
- HUFA – Humanities/Fine Arts (3 cr.)
- ENGR 1020 – Connections to Engineering (1 cr.)

Spring (Total credits: 16)

- ENGL 1020 – Critical Thinking and Argumentation (3 cr.)
- MATH 1920 – Calculus II (4 cr.)
- CHEM 1120 & 1121 – General Chemistry Lecture II and Lab II (4 cr.)
- ENGR 1120 – Programming for Engineers (2 cr.)
- HUFA – Humanities/Fine Arts (3 cr.)

SOPHOMORE YEAR* (32-34)

Fall (Total credits: 16-17)

- MATH 2110 – Calculus III (4 cr.)
- PHYS 2110 – Technical Physics I – Calculus based (4-5 cr.)
- CEE 2110 – Statics (3 cr.)
- CEE 3710 – Principles of Engineering Economy (2 cr.)
- LIT – General Education Literature (3 cr.)

Spring (Total credits: 16-17)

- MATH 2120 – Differential Equations (3 cr.)
- PHYS 2120 – Technical Physics II – Calculus based (4-5 cr.)
- SPCH 2300 – Public Speaking (3 cr.)
- ME 2330 – Dynamics (3 cr.)
- MATH 2010 – Linear Algebra (3 cr.)

JUNIOR YEAR* (33)

Fall (Total credits: 16)

- ECE 2010 – Electric Circuits I (3 cr.)
- ECE 2011 – Electrical Engineering Laboratory I (1 cr.)
- ME 3023 – Measurements in Mechanical Systems (3 cr.)
- CEE 3110 – Mechanics of Materials (3 cr.)
- ME 3210 – Thermodynamics I (3 cr.)
- SBS – Social/Behavioral Science (3 cr.)

Spring (Total credits: 17)

- ME 3720 – Fluid Mechanics (3 cr.)
- ME 3010 – Materials and Processes in Engineering (3 cr.)

ECE 2020 – Electric Circuits II (3 cr.)
ENGR 3120 – Solid Modeling (3 cr.)
SBS – Social/Behavioral Science (3 cr.)
CEE 3720 – Engineering Statistics (2 cr.)

SENIOR YEAR* (28-30)

Fall (Total credits: 15)

ENGR 4950 – Senior Design I (3 cr.)
ENGR 4900 – Professionalism & Ethics (3 cr.)
CSC 3020 – Numerical Methods (3 cr.)
Technical Electives – see list of approved electives (6 cr.)

Spring (Total credits: 13-15)

ENGR 4960 – Senior Design II (3 cr.)
ENGR 4510 – Engineering Management (3 cr.)
Technical Electives – see list of approved electives (6 cr.)
(Free elective) – (any course(s)) [TTU] (1-3 cr.)

**Freshman major course offerings are scheduled to begin in 2017-2018. Sophomore, junior, and senior course offerings will be added in subsequent years. For more information, contact ETSU academic advisor Erin Coker at cokere@etsu.edu.*