

Engineering Technology Management Technical Electives Requirement**

The following courses can be used to fulfill **Technical Electives** in **ETM: Engineering Management** (30-31 Hours) or **ETM: Construction Management** (17-18 Hours):

**Starred notes indicate if there are UTC prerequisite/corequisite requirements for course registration.*

- CHEM/PHYS 1019/L: Light & Life/Lab** (4 Hours)
- CHEM 1110/L: General Chemistry I/Lab** (4 Hours) *MATH 1130+ or Math ACT: 22+
- CHEM 1120/L: General Chemistry II/Lab** (4 Hours) *CHEM 1110/L
- CHEM 3010/L: Organic Chemistry I/Lab** (4 Hours) *CHEM 1120/L
- CPEN: All Computer Engineering Courses** *Varies by class but see below for examples with any pre-reqs:
 - CPEN 3700: Intro to Digital Logic & Computer Hardware** (4 Hours) *CPSC 1100
 - CPEN 3710: Assembly Language Programming** (4 Hours) *CPSC 1110, CPEN 3700
- CPSC: All Computer Science Courses** *Varies by class but see below for examples with any pre-reqs:
 - CPSC 1100: Fundamentals of Computer Science** (4 Hours) *MATH 1720+ or Math ACT: 26+
 - CPSC 1110: Data Structures & Program Design** (4 Hours) *CPSC 1100
- ENCE: All Civil Engineering Courses** *Varies by class but see below for examples with any pre-reqs:
 - ENCE 1020: Intro to Engineering Graphics** (2 Hours)
 - ENCE 1040: Vector Statics** (2 Hours) *ENME 1030, MATH 1960
- ENCH: All Chemical Engineering Courses** *Varies by class but see below for examples with any pre-reqs:
 - ENCH 1000: Intro to Chemical Engineering** (3 Hours)
 - ENCH 3030: Thermodynamics** (3 Hours) *ENCE 1040, MATH 1960
- ENEE: All Electrical Engineering Courses** *Varies by class but see below for examples with any pre-reqs:
 - ENEE 2250: Engineering Programming** (3 Hours) *ENCE 1040, MATH 2450
 - ENEE 2700/2710L: Electrical Circuits I/Lab** (4 Hours) *PHYS 2310/L, MATH 2450
- ENIE: All Industrial Engineering Courses** *Varies for each class.
- ENME: All Mechanical Engineering Courses** *Varies by class but see below for examples with any pre-reqs:
 - ENME 1030/L: Basic Engineering Science/Lab** (4 Hours) *MATH 1950+
 - ENME 1850: Intro to Engineering Design** (2 Hours) *ENME 1011, MATH 1720+
- ETME: All Mechatronics Engineering Courses** *Varies by class but see below for examples with any pre-reqs:
 - ETME 2100: Intro to Mechatronics Engineering Technology** (3 Hours)
 - ETME 3010: Applied Math for Engineering Technology** (3 Hours) *MATH 1950
- ETR 1010: Entrepreneurship & Society** (3 Hours) *60+ Earned Hours
- ETR 3400: Innovation & Creativity in Business** (3 Hours)
- ETR 3500: New Venture Creation** (3 Hours) *60+ Earned Hours
- FIN 3000: Small Business Finance** (3 Hours) *ACC 2010 & 60+ Earned Hours
- FIN 3020: Essentials of Managerial Finance** (3 Hours) *ACC 2020, ECON 1010/20, MGT 2110 & MATH 1710+
- GEOG 2210: Maps & Mapping** (3 Hours)
- GNSC 1150: Science & Society** (3 Hours)
- IARC 1000: Design Fundamentals** (3 Hours)
- IARC 1050: Volume, Space & Form** (3 Hours)
- IARC 1190: Sketching in Interior Design** (3 Hours)
- IARC 1200: Survey of Architecture** (3 Hours)
- IARC 1900: Interior Design Study Tour** (3 Hours)
- IARC 2150: Computer Applications in Design** (3 Hours) *Declared Design Foundations Minor.
- IARC 2200: Interior Materials** (3 Hours) *Declared Design Foundations Minor.
- IARC 3150: Computer Aided Design II** (3 Hours) *Declared Design Foundations Minor.
- IARC 3900: Professional Competence** (3 Hours) *Declared Design Foundations Minor.

INTS 1110: Science of Sustainability (3 Hours)
MATH 1960: Calculus with Analytic Geometry II (4 Hours) *MATH 1950
MATH 2030: Discrete Math (3 Hours) *MATH 1950 & CPSC 1100
MATH 2200: Elementary Linear Algebra (3 Hours) *MATH 1950, MATH 1960 or MATH 2030
MATH 2450: Intro to Differential & Difference Equations (3 Hours) *MATH 1960
MATH 2560: Calculus with Analytic Geometry III (4 Hours) *MATH 1960 & MATH 2200
MATH 3000-4000: Any Mathematics above Calc. III level (3-4 Hours) *Varies for each class.
MGT 1030: Intro to Business & Entrepreneurship (3 Hours)
MGT 2110: Statistical Methods for Business I (3 Hours) *CPSC/MGT 1000 & MATH 1130/1710+
MGT 2120: Statistical Methods for Business II (3 Hours) *CPSC/MGT 1000 & MGT 2110/MATH 2100
MGT 3310: Organizational Motivation & Leadership (3 Hours) *MGT 3150 & 60+ Earned Hours
MGT 3320: Human Resource Management (3 Hours) *60+ Earned Hours
MGT 3600: Management Information Systems (3 Hours) *CPSC/MGT 1000 & 60+ Earned Hours
MKT 3130: Principles of Marketing (3 Hours) *ECON 1020 & 60+ Earned Hours
MKT 3180: International Marketing (3 Hours) *MKT 3130 & 60+ Earned Hours
PHYS 1030/L: General Physics: Mechanics & Heat/Lab (4 Hours)
PHYS 1040/L: General Physics: Electromagnetism & Optics/Lab (4 Hours) *PHYS 1030/L
PHYS 2300/L: Principles Physics: Mechanics & Heat/Lab (4 Hours) *ENCE 1040 & MATH 1960
PHYS 2310/L: Principles Physics: Electricity & Magnetism/Lab (4 Hours) *PHYS 2300/L

Students in either ROTC and/or pursuing the Military Science Minor may use these credits to fulfill their ETM major Technical Electives.

Additional Notes about Technical Elective Credits:

Any course not on this list must be approved by the ETM Dept. for Technical Elective credit. The course with catalog description should be submitted to the ETM Dept. for Faculty Advisor or Dept. Head review.

Transfer students awarded an AAS/AS Degree from an accredited community college in Engineering/Engineering Technology/Construction Technology and other Technology based programs may be eligible to apply some credits toward the ETM: Engineering Management (30-31 Hours) or ETM: Construction Management (17-18 Hours) Technical Electives requirement.

Any additional questions may be directed to the Engineering Technology Management Dept.

****Revised List, Effective January 1, 2019.**