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Department: **Department of Applied Technology**

Degree: **Bachelor of Science in Technology Studies 533-0839D (BSTS)**

Concentration: **Engineering Design Technology**

**TECS Core Requirements –** 32 credit hours  
TECS 120 – Power, Energy, and Transportation (3)  
TECS 130 – STEM in Technology Systems (3)   
TECS 200 – Engineering Graphics (3)   
TECS 312 – Graphic Communication Techniques (3)   
TECS 318 – Introduction to Computer Aided Drafting (3)  
TECS 480 – Industrial Management (3)  
TECS 490 – Occupational Safety, Health, and Liability (2)  
TECS 495 – Training & Instructional Systems (3) *Add OR* TECS 460 Teaching Technology Education (495 OR 460)  
TECS 499 – Internship (9)*Add OR TECS 406 Internship (3) OR TECS 606 Internship (3) (406/606 can be taken multiple times to earn the 9 credits of internship hours.)*

**TECS Engineering Design Technology -** 27 credit hours

TECS 180 – Materials, Processes & Production (3)   
TECS 310 – Manufacturing Graphics (3)  
TECS 355 – Computer Aided Drafting (3)  
TECS 375 – Robotics: Engineering Problem Solving (3)   
TECS 385 – Construction Planning and Design (3)   
TECS 415 – Construction Graphics (3)   
TECS 445 – Civil Drafting (3)  
TECS 475 – Mechanical & Electrical Systems (3)  
TECS 610 – Advanced Computer-Aided Drafting (3) *Add TECS 610 to the EDT concentration.*

**TECS Elective –** 9 credit hours

**FREE Elective –** 5 credit hours

**TECS Management Requirements** – 6 credit hours

MGT 101 – Intro to Business (3)  
MGT 301 – Management Principles (3)

***BSTS-COGNATES*: Requirement for Association of Technology, Management, and Applied Engineering (ATMAE) Accreditation** – 16 credit hours (Credits should be taken as part of the General Education course work.)  
MATH 101 – Contemporary Mathematics (3) ***or***MATH 110 – College Algebra (3)  
MATH 250 – Elements of Statistics (3) ***or***MATH 234 Analytic Geometry & Calculus I (3)  
GSCI 100 – Introduction to Geology (3) ***or*** GSCI 240 Intro to Geographic Information Systems (3)  
PHYS 102 – Physical Science (3)  
PHYS 103 – Physical Science Laboratory (1) ***or***GSCI 102 – Introduction to Geology Lab (1)  
TECS 391 – Technology in Society (3)

**General Education Requirements**: KBOR 34 hours General Education + TECS additional MATH & Physical Science for ATMAE Accreditation.

**Total Hours – 120 Hours**