

**Department of Applied Technology**  
**Bachelor of Science in Technology Studies**

**Manufacturing Technology**

**TECS Core Requirements – 32 credit hours**

___ TECS 120 – Power, Energy, and Transportation (3) B	___ TECS 480 – Industrial Management (3) S
___ TECS 130 – STEM in Technology Systems (3) B	___ TECS 490 – Occupational Safety, Health, and Liability (2) I/S
___ TECS 200 – Engineering Graphics (3) B	___ TECS 495 – Training & Instructional Systems (3) F OR
___ TECS 312 – Graphic Communication Techniques (3) B	TECS 460 Teaching Technology Education (3) F
___ TECS 318 – Intro. to Computer Aided Drafting (3) B	___ TECS 499 – Internship *** (9) B

---

**Area of Concentration**

**Manufacturing Technology - 27 credit hours**

- \_\_\_ TECS 119 – Introduction to Welding (3) S
- \_\_\_ TECS 180 – Materials, Processes & Production (3) F
- \_\_\_ TECS 240 – Plastic Processes (3) S
- \_\_\_ TECS 260 – Metal Processes (3) F
- \_\_\_ TECS 280 – Wood Processes (3) S
- \_\_\_ TECS 331 – Machine Tool Operations (3) S
- \_\_\_ TECS 375 – Robotics: Engineering Problem Solving (3) S
- \_\_\_ TECS 420 – Fluid Systems: Hydraulics/Pneumatics (2) S
- \_\_\_ TECS 430 – Computer-Aided Manufacturing (3) S
- \_\_\_ TECS 440 – Maintenance & Repair of Equipment (1) S

**TECS Management Requirements – 6 credit hours**

- \_\_\_ MGT 101 – Intro to Business (3) B

---

**TECS General Education Requirement – 16 credit hours**

- \_\_\_ MATH 101 – Liberal Arts Mathematics (3) *or* MATH 110 – College Algebra (3)
- \_\_\_ MATH 250 – Elements of Statistics (3) *or* MATH 234 Analytic Geometry & Calculus I (5)
- \_\_\_ GSCI 100 – Introduction to Geology (3)
- \_\_\_ PHYS 102 – Physical Science (3)
- \_\_\_ PHYS 103 – Physical Science Laboratory (1) *or* GSCI 102 – Introduction to Geology Lab (1)
- \_\_\_ IDS 390 – Technology in Society (3)

---

**\*\*\*TECS 499—Internship** Students: plan ahead for internship. Start gathering details the semester BEFORE you want to do internship. 9 credit hours of internship can be broken up into segments (before your senior year). Get an internship manual from Rachel (AT 121 or rlharman@fhsu.edu). Make appointment with Mr. Stewart: Department Chair (AT 121) before you are ready to enroll. Note: ALL students (grade level and major) are encouraged to attend & participate in the Career Fair held each fall. This will give you personal contacts with many companies to set up internship, summer work, or full-time employment upon graduation. ALL Technology Studies students plan to attend the **Career Fair!**

**Classes are offered:** B=classes offered **both** Fall and Spring F=class offered in the Fall S=class offered in the Spring U=Summer I=Interession (between Fall and Spring semesters)

Reminder: Go the Registrar's Office (Picken Hall, Room 302) and get a degree summary the middle of your **sophomore** year.