

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
___ MGT 301 – Management Principles (3) B

TECS General Education Requirement – 16 credit hours

___ MATH 101 – Liberal Arts Mathematics (3) <i>or</i> MATH 110 – College Algebra (3)
___ MATH 250 – Elements of Statistics (3) <i>or</i> MATH 234 Analytic Geometry & Calculus I (5)
___ GSCI 100 – Introduction to Geology (3)
___ PHYS 102 – Physical Science (3)
___ PHYS 103 – Physical Science Laboratory (1) <i>or</i> 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.