

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

TECS Core Requirements – 36 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 406 – Problems in Technology: Industrial Safety Course (1)
TECS 480 – Industrial Management (3)
TECS 490 – Occupational Safety, Health, and Liability (2)
TECS 495 – Training & Instructional Systems (3)
TECS 499 – Internship (12)

TECS Manufacturing Technology - 27 credit hours

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

TECS Management Requirements – 6 credit hours

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

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)

General Education Requirements: 39 credit hours + 16 program (Total of 55 hours)

Total Hours – 124 Hours