

MANUFACTURING ENGINEERING TECHNOLOGY CONCENTRATION

FRESHMAN YEAR

Fall Semester		16 Credits
MATH 1300	Precalculus.....	4
ENGL 1100	Writing I.....	3
HIST xxxx	LA&S Elective (HIST).....	3
ENGT 1700	Evolution of Engineering Technology.....	3
ENGT 1000	Electrical Systems and Circuits.....	3

Spring Semester		16 Credits
MATH 2100	Technical Calculus.....	3
ENGL 1200	Writing II.....	3
CHEM 1300	General Chemistry I.....	4
ENGT 1020	Engineering Graphics.....	3
ENGT 1050	Technical Analysis.....	3

JUNIOR YEAR

Fall Semester		13 Credits
ENGT 3000	Energy and Sustainable Practice.....	3
ENGT 3025	Engineering Design: Fabrication Systems I.....	3
PSY/SOC xxxx	LA&S Elective (HMN).....	3
ENGT 3040	Metrology.....	4

Spring Semester		14 Credits
ENGT 3026	Engineering Design: Fabrication Systems II.....	3
ENGL xxxx	LA&S Elective (LIT).....	3
ENGT 3042	Enterprise Resource Planning Systems.....	4
ENGT 3110	Robotics and Mechatronics.....	4

LA&S Elective List

- 1 AOM attribute (Art or Music)
- 1 ART attribute (the Arts)
- 3 credits HAF attribute (Health/Fitness)
- 1 LIT attribute (Literature)
- 1 HIST subject (History)
- 1 HMN attribute (Human Behavior)

Advanced LA&S Options Area

Review the three options with your advisor and submit your decision to the Registrar's Office by completion of 60 credits.

Global Diversity Area

Two courses taken must meet the Global Diversity requirement: GDAN course + (GDC or GDCN course) **OR** GDCN course + (GDA or GDAN course). These courses are allowed to satisfy this requirement and another requirement at the same time.

SOPHOMORE YEAR

Fall Semester		16 Credits
PHYS 2300	General Physics I.....	4
ART xxxx	LA&S Elective (ART).....	3
ENGT 2000	Fluid Mechanics and Thermodynamics.....	3
ENGT 2020	Statics and Dynamics.....	3
ENGT 1040	Software Applications in Engineering Technology.....	3

Spring Semester		16 Credits
PHYS 2400	General Physics II.....	4
MATH 1700	Applied Statistics.....	3
ECON 1100	Principles of Economics: Macroeconomics.....	3
ENGT 2025	Strength of Materials.....	3
ENGT 2030	Materials Testing and Quality Control.....	3

SENIOR YEAR

Fall Semester		16 Credits
CMGT 3030	MEP and HVAC Systems.....	3
CMGT 3035	OSHA: Safety and Risk Management.....	3
ENGT 3041	Manufacturing Processes and Systems.....	3
ENGT 4700	Engineering Project Management.....	3
ENGT 4000	Quality Concepts and Lean Six Sigma.....	4

Spring Semester		13 Credits
EXSS 1000	Health and Fitness.....	3
ENGT 4025	Industrial Systems Automation.....	4
ART/MUS xxxx	LA&S Elective (AOM).....	3
ENGT 4903	Engineering Technology Capstone.....	3

Suggested 4-year plan of study. Completion of 120 credits required for graduation.

Revised 06-2020

Engineering Technology Program

MANUFACTURING ENGINEERING TECHNOLOGY CONCENTRATION

LA&S Courses

SMT Courses:

MATH 1300	Precalculus.....	4
CHEM 1300	General Chemistry I.....	4
EXSS 1000	Health and Fitness.....	3
MATH 2100	Technical Calculus.....	3

CTW Courses:

HIST	History (LA&S).....	3
PSY/SOC	Human Behavior.....	3
ENGT 1700	Evolution of Engineering Technology	3

ART Courses:

ART/MUS	Art/Music (LA&S).....	3
ENGL1100	Writing I	3
ENGL 1200	Writing II	3
ENGL	Literature (LA&S).....	3
ART	Art (LA&S)	3

Advanced LA&S Option C

PHYS 2300	General Physics I.....	4
PHYS 2400	General Physics II	4
ECON 1100	Principles of Economics-Macro	3
MATH 1700	Applied Statistics (Manufacturing Engineering Technology Concentration Only).....	3

Core Courses

ENGT 1000	Electrical Systems and Circuits	3
ENGT 1020	Engineering Graphics	3
ENGT 1050	Technical Analysis.....	3
ENGT 1040	Software Applications in Engineering Technology.....	3
ENGT 2000	Fluid Mechanics and Thermodynamics	3
ENGT 2020	Statics and Dynamics	3
ENGT 2025	Strength of Materials.....	3
ENGT 2030	Materials Testing and Quality Control.....	3
ENGT 3000	Energy and Sustainable Practices.....	3
ENGT 3025	Engineering Design and Fabrication I.....	3
ENGT 3026	Engineering Design and Fabrication II	3
CMGT 3030	MEP and HVAC Systems.....	3
CMGT 3035	OSHA: Safety and Risk Management	3
ENGT 4700	Engineering Project Management	3
ENGT 4903	Engineering Technology Capstone.....	3

Additional Courses: Manufacturing Engineering Technology

ENGT 3040	Metrology.....	4
ENGT 3041	Manufacturing Processes and Systems	3
ENGT 4000	Quality Concepts and Lean Six Sigma	4
ENGT 3042	Enterprise Resource Planning Systems.....	4
ENGT 3110	Robotics and Mechatronics	4
ENGT 4025	Industrial System Automation.....	4

Total credit hours for the Bachelors of Science in Engineering Technology Program with Manufacturing Engineering Technology Concentration = 120