

TECHNOLOGY / ENGINEERING EDUCATION INDUSTRY TRAINING CONCENTRATION

FRESHMAN YEAR

Fall Semester	16 Credits
MATH 1300	Precalculus..... 4
ENGL 1100	Writing I 3
ENGT 1700	Evolution of Engineering Technology 3
	LA&S Elective (AOM) 3
	LA&S Elective (ART)..... 3
Spring Semester	15 Credits
ENGT 1020	Engineering Graphics 3
ENGL 1200	Writing II 3
EXSS 1000	Health and Fitness..... 3
ENGT 2030	Materials Testing and Quality Control..... 3
ENGT 1050	Technical Analysis..... 3

JUNIOR YEAR

Fall Semester	15 Credits
ENGT 3025	Engineering Design: Fabrication Systems I 3
ENGT 3300	Methods of Teaching Technology/Engineering Education (5-12) I 3
ENGT 3000	Energy and Sustainable Practices..... 3
CMGT 3022	Surveying 3
	Advanced LA&S Elective 3
Spring Semester	15 Credits
CMGT 4020	Communication and Transportation Technologies 3
ENGT 3026	Engineering Design: Fabrication Systems II 3
ENGT 4850	Methods of Teaching Technology/Engineering Education (5-12) II 3
	Advanced LA&S Elective 3
	Advanced LA&S Elective 3

SOPHOMORE YEAR

Fall Semester	17 Credits
PHYS 2300	General Physics I..... 4
PSY/SOC xxxx	LA&S Elective (HMN)..... 3
CMGT 2035	Building Construction Systems..... 4
ENGT 2020	Statics and Dynamics 3
ENGT 3010	Building Design I..... 3
Spring Semester	15 Credits
HIST xxxx	LA&S Elective (HIST)..... 3
ENGL xxxx	LA&S Elective (LIT)..... 3
ENGT 1860	Introduction to Education (5-12) 3
	Advanced LA&S Elective 3
	LA&S Elective (SMT) 3

SENIOR YEAR

Fall Semester	15 Credits
CMGT 3030	MEP and HVAC Systems..... 3
CMGT 3035	OSHA: Safety and Risk Management 3
CMGT 4025	Construction Law and Legal Systems 3
ENGT/CMGT xxxx	ENGT/CMGT Electives* (see list) 6
Spring Semester	12 Credits
CMGT/ENGT xxxx	CMGT/ENGT Electives* (see list) 12

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.

Non-Licensure Track selection of 3 credit, elective courses (check prerequisites).
Can be taken in earlier semesters if semester swapped with LA&S required elective courses.

FALL:

- Electrical Systems and Circuits
- Electronics II
- Manufacturing Processes and Systems
- Co-generation and Waste Recycling System
- Site Planning and Land Development
- Project Scheduling
- Engineering Project Management

SPRING:

- Electronics I
- Strength of Materials
- Heavy / Highway Construction Systems
- Estimating and Bidding
- Building Design II

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

Revised 10-2020

Applied Science and Technology Program

TECHNOLOGY/ENGINEERING EDUCATION INDUSTRY TRAINING CONCENTRATION

LA&S Courses

SMT Courses:

MATH 1300	Pre-calculus.....	4
PHYS 2300	General Physics I.....	4
EXSS 1000	Health and Fitness.....	3
SMT	SMT Elective	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 Options A, B or C

A, B or C Elective	3
A, B or C Elective	3
A, B or C Elective	3
A, B or C Elective	3

Core Courses

CMGT 2035	Building Construction Systems.....	4
CMGT 3022	Surveying	3
CMGT 3030	MEP and HVAC Systems.....	3
CMGT 3035	OSHA: Safety and Risk Management	3
CMGT 4020	Communication and Transportation Technologies	3
CMGT 4025	Construction Law and Legal Systems	3
ENGT 1020	Engineering Graphics	3
ENGT 1050	Technical Analysis.....	3
ENGT 2020	Statics and Dynamics	3
ENGT 2030	Materials Testing and Quality Control.....	3
ENGT 3010	Building Design I.....	3
ENGT 3000	Energy and Sustainable Practices.....	3
ENGT 3025	Engineering Design and Fabrication I.....	3
ENGT 3026	Engineering Design and Fabrication II	3

Additional Courses: Technology/Engineering (NON-LICENSURE TRACK)

ENGT 1860	Introduction to Education (5-12)	3
ENGT 3300	Methods of Teaching Technology/Engineering Education (5-12) I.....	3
ENGT 4850	Methods of Teaching Technology/Engineering Education (5-12) II.....	3
CMGT/ENGT XXXX	CMGT/ENGT Electives (see list below)	18

Industry Training selection of Elective Courses (CHECK PREREQUISITES)

Fall Semester:

ENGT 1000	Electrical Systems and Circuits	3
ENGT 2055	Electronics II	3
ENGT 3041	Manufacturing Processes and Systems	3
ENGT 3650	Co-generation and Waste Recycling Systems.....	3
CMGT 4035	Site Planning and Land Development	3
CMGT 4010	Project Scheduling	3
ENGT 4700	Project Management	3

Spring Semester:

ENGT 2050	Electronics I	3
ENGT 2025	Strength of Materials.....	3
CMGT 3005	Heavy/Highway Construction Systems	3
CMGT 3028	Estimating and Bidding	3
ENGT 3020	Building Design II.....	3

Can be taken in earlier semesters if semester swapped with LA&S required elective courses.

Total credit hours for the Bachelors of Science in Applied Science and Technology/Engineering Program with Technology /Engineering Education Concentration (Licensure Track) = 120