

TECHNOLOGY / ENGINEERING EDUCATION 5-12 LICENSURE CONCENTRATION

FRESHMAN YEAR

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

Spring Semester	15 Credits
ENGT 1020	Engineering Graphics (3)
ENGT 1050	Technical Analysis (3)
ENGL 1200	Writing II (3)
ENGT 2030	Materials Testing and Quality Control (3)
	LA&S Elective (AOM) (3)

JUNIOR YEAR

Fall Semester	15 Credits
CMGT 3030	MEP and HVAC Systems (3)
EDUC 2012	Teaching the Adolescent Learner (5-12) (3)
ENGT 3000	Energy and Sustainable Practices (3)
ENGT 3025	Engineering Design: Fabrication Systems I (3)
	Advanced LA&S Elective (3)

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

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	17 Credits
CMGT 2035	Building Construction Systems (4)
ENGT 2020	Statics and Dynamics (3)
ENGT 3010	Building Design I (3)
PHYS 2300	General Physics I (4)
	Advanced LA&S Elective (3)

Spring Semester	15 Credits
ART/MUS xxxx	LA&S Elective (ART) (3)
ENGL xxxx	LA&S Elective (LIT) (3)
ENGT 1860	Introduction to Education (5-12) (3)
EDUC 2011	Diversity in Education (3)
	LA&S Elective (SMT) (3)

SENIOR YEAR

Fall Semester	15 Credits
CMGT 3035	OSHA: Safety and Risk Management (3)
CMGT 4025	Construction Law and Legal Systems (3)
ENGT 4850	Methods of Teaching Technology/Engineering Education (5-12) II (3)
	LA&S Elective (HMN) (3)
PSY/SOC xxxx	Inclusive Education (5-12) (3)
SPED 3800	

Spring Semester	12 Credits
ENGT 4862	Practicum I (4)
ENGT 4864	Practicum II (5)
	Advanced LA&S Elective (3)

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

Revised 10-2020

Applied Science and Technology Program

TECHNOLOGY/ENGINEERING EDUCATION 5-12 LICENSURE 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

ENGT 1020	Engineering Graphics	3
ENGT 1050	Technical Analysis.....	3
ENGT 2030	Materials Testing and Quality Control.....	3
ENGT 2020	Statics and Dynamics	3
CMGT 2035	Building Construction Systems.....	4
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
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

Additional Courses: Technology/Engineering (LICENSURE TRACK)

ENGT 1860	Introduction to Education (5-12)	3
EDUC 2011	Diversity in Education	3
EDUC 2012	Teaching the Adolescent Learner (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
ENGT 4862	Practicum I.....	4
ENGT 4864	Practicum II.....	5
SPED 3800	Inclusive Instruction (5-12).....	3

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