

# Engineering Technology, BS Architecture Concentration

Suggested 4-year plan of study

## First Year

### Fall

Course Number	Course Title	Credits (16)
MATH 1300	Precalculus (QR)	4
ENGL 1100	Writing I	3
FYE 1022	First Year Experience: Evolution of ENGT	3
ENGT 1000	Electrical Systems and Circuits	3
	Any WS Course	3

### Spring

Course Number	Course Title	Credits (17)
MATH 2300	Calculus I	4
ENGL 1200	Writing II	3
ENGT 1XXX	Engineering Design & Fab. Systems I	3
ENGT 1020	Engineering Graphics	3
CHEM 1300	General Chemistry (SI)	4

## Sophomore Year

### Fall

Course Number	Course Title	Credits (17)
PHYS 2300	General Physics I	4
ENGT 2020	Statics & Dynamics	3
	PLT Course (ECON 1100 or ECON 1200)	3
CMGT 2035	Building Construction Systems	4
ENGT 1XXX	AI Applications in ENGT (SI)	3

### Spring

Course Number	Course Title	Credits (15)
ENGT 2025	Strength of Materials	3
	Elective	3
ENGT 2030	Materials Testing & Quality Control	3
	Elective	3
	Any LI Course	3

## Junior Year

### Fall

Course Number	Course Title	Credits (15)
ENGT 3000	Energy & Sustainable Practices	3
ENGT 3010	Sustainable Building Design I	3
CMGT 3030	MEP & HVAC Systems	3
CMGT 3035	OSHA: Safety & Risk Management	3
	FA Course: History of Architecture	3

### Spring

Course Number	Course Title	Credits (15)
ENGT 3020	Sustainable Building Design II	3
ENGT 3045	Analysis & Design of Structural Systems	3
	DP Course: History of Modern Architecture	3
	Any HI Course	3
	Elective	3

## Senior Year

### Fall

Course Number	Course Title	Credits (13)
ENGT 4020	Architectural Design	4
ENGT 4700	Engineering Project Management	3
	Any PW Course	3
CMGT 4035	Site Planning & Land Development	3

### Spring

Course Number	Course Title	Credits (12)
ENGT 4903	Engineering Technology Capstone OR ENGT 4930 Internship in ENGT	3
	Elective	3
	Any ER Course	3
	Any CV Course	3

**Completion of 120 credits is required for graduation**

## General Education

### Foundation (3 credits each)

- Reading & Info Literacy First-Year Experience (R & IL)
- Writing (W): Writing I
- Writing & Info. Literacy (W & IL): Writing II
- Quantitative Reasoning (QR)
- World Languages, Speaking and Listening (WS)

### Exploration (3 credits each)

- Civic Learning (CV)
- Diverse Perspectives (DP)
- Ethical Reasoning (ER)
- Fine Arts Expression & Analysis (FA)
- Historical Inquiry & Analysis (HI)
- Literary Inquiry & Analysis (LI)
- Personal Wellness (PW)
- Procedural & Logical Thinking (PL)
- Scientific Inquiry & Analysis (SI)

### Suggested Elective Courses:

- 3 credits Technical Analysis (ENGT 1050)
- 3 credits Software Applications in ENGT (ENGT 1040)
- 3 credits Renewable Energy & the Built Environment (ENGT 1XXX)
- 3 credits Engineering Design & Fabrication Systems II (ENGT 2XXX)
- 3 credits Seminar in Architecture (ENGT 4150)
- 3 credits Fluid Mechanics & Thermodynamics (ENGT 2000)