

# Engineering Technology, BS Architecture Concentration

Suggested 4-year plan of study

## First Year

### Fall

| Course Number | Course Title                             | Credits (16) |
|---------------|--|--------------|
| MATH 1300     | Precalculus                              | 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                   | 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             | 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 | 3            |
| ENGT 4930     | Internship in ET                   | 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)