

# STRUCTURAL DESIGN AND CONSTRUCTION ENGINEERING TECHNOLOGY, B.S.

**Begin Campus:** Any Penn State Campus

**End Campus:** Harrisburg

## Suggested Academic Plan

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2023-24 academic year. To access previous years' suggested academic plans, please visit the archive (<https://bulletins.psu.edu/undergraduate/archive/>) to view the appropriate Undergraduate Bulletin edition (*Note: the archive only contains suggested academic plans beginning with the 2018-19 edition of the Undergraduate Bulletin*).

## Structural Design and Construction Engineering Technology, B.S. at Harrisburg Campus

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

### First Year

| Fall  | Credits   | Spring                                  | Credits      |
|---|-----------|---|--------------|
| ENGL 15, 15S, 30T, or ESL 15 (GWS) <sup>‡</sup> | 3         | General Education Course                | 3            |
| EDSGN 100                                       | 3         | ECON 102 or 104 (GS) <sup>†</sup>       | 3            |
| MATH 41   | 3         | CAS 100A or 100S (GWS) <sup>‡</sup>     | 3            |
| CHEM 110 (GN) <sup>†</sup>                      | 3         | PHYS 150, 211, or 250 (GN) <sup>†</sup> | 3-4          |
| CHEM 111 (GN) <sup>†</sup>                      | 1         | MATH 140 (GQ) <sup>‡</sup>              | 4            |
| General Education Course                        | 3         |   |              |
| CE 100S   | 1         |   |              |
|   | <b>17</b> |   | <b>16-17</b> |

### Second Year

| Fall                                    | Credits      | Spring                           | Credits   |
|---|--------------|----------------------------------|-----------|
| General Education Course                | 3            | CMPSC 101, 121, 200, 201, or 202 | 3         |
| PHYS 151, 212, or 251 (GN) <sup>†</sup> | 3-4          | ENGL 202C (GWS) <sup>‡</sup>     | 3         |
| MATH 141 or STAT 200 (GQ) <sup>‡</sup>  | 4            | ET 322 or EMCH 213 <sup>*</sup>  | 3         |
| ET 300 or EMCH 211 <sup>*</sup>         | 3            | ET 323                           | 1         |
| ACCTG 211 or MGMT 301                   | 3-4          | General Education Course         | 3         |
|   |              | General Education Course         | 3         |
|   | <b>16-18</b> |                                  | <b>16</b> |

### Third Year

| Fall                       | Credits | Spring  | Credits |
|----------------------------|---------|---------|---------|
| CE 254 (GHW) <sup>††</sup> | 3       | CET 343 | 3       |

|  |                |   |                |
|--|----------------|---|----------------|
| CE 333W <sup>††</sup>                      | 3              | CET 308   | 3              |
| CET 342                                    | 3              | CET 361 (S)(G) or ACCTG 211 (C) or MGMT 301 (C) | 3-4            |
| ET 321 or EMCH 212 (S)(G)                  | 3              | CET 430 <sup>*</sup>                            | 3              |
| SUR 111 or CE 310                          | 3-4            | ET 200  | 3              |
|  | <b>12-16</b>   |   | <b>15-16</b>   |
| <b>Fourth Year</b>                         |                |   |                |
| <b>Fall</b>                                | <b>Credits</b> | <b>Spring</b>                                   | <b>Credits</b> |
| CET 431 <sup>*</sup>                       | 3              | CET 434   | 3              |
| CET 432 <sup>*</sup>                       | 3              | CE 321, MET 435, or ENVE 430 (C)(G)             | 3              |
| CET 435 <sup>*</sup>                       | 3              | CE 488D (S)(G) or CE 488C (C) <sup>*</sup>      | 3              |
| CE 488D (S)(G) or CE 488C (C) <sup>*</sup> | 1              | CE 445 (S)(G) <sup>*</sup>                      | 3              |
| CE 456 (C)(G) <sup>*</sup>                 | 3              | CE 449 (S)(G) <sup>*</sup>                      | 3              |
| SSET 295                                   | 1              | CE 458 (C)(G) <sup>*</sup>                      | 3              |
| Approved Selection (C)(S) <sup>1</sup>     | 3              |   |                |
|  | <b>14-17</b>   |   | <b>12-18</b>   |

### Total Credits 118-135

\* Course requires a grade of C or better for the major

‡ Course requires a grade of C or better for General Education

# Course is an Entrance to Major requirement

† Course satisfies General Education and degree requirement

<sup>1</sup> (C) (S) Approved Selection

Choose from the Approved Selection list.

### University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy Cultural Diversity Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

General Education includes Foundations (GWS and GQ), Knowledge Domains (GHW, GN, GA, GH, GS) and Integrative Studies (Inter-domain) requirements. N or Q (Honors) is the suffix at the end of a course number used to help identify an Inter-domain course, but the inter-domain attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.

### Advising Notes:

- The minimum number of credits required to graduate is 125.
- Students must select an option in one of the following areas: Construction (C), Structural Design (S), or General (G).

### Program Notes:

- Students must complete a 3-credit course in "United States Cultures (US)" and a 3-credit course in "International Cultures (IL)."
- Entrance into SDCET major require a minimum of 29.1 credits and a 2.0 GPA.
- Graduation in this major. Courses listed with an \* requires a grade of C or better and an option area.

- SDCET Approved Selections
- Other engineering or business courses may be accepted with permission of the program chair.
- An option-required courses cannot be used for an Approved Selection

**List of Approved Courses**

- ACCTG 211 FINANCIAL ACCOUNTING
- MET 435 HVAC
- B LAW 243 (4) or B LAW 242 and 241 (2) (2) LEGAL ENVIRONMENT BUSINESS
- CET 361 FLUID FLOW
- C E 321 HIGHWAY ENGINEERING
- C E 424 PROJECT INFORMATION MODELING
- C E 445 ADVANCED STRUCTURAL ANALYSIS
- C E 449 ADVANCED STRUCTURAL DESIGN
- C E 456 PLANNING & SCHEDULING
- C E 458 CONSTRUCTION MANAGEMENT II
- ENVE 415 HYDROLOGY
- ENVE 430 SUSTAINABLE ENGINEERING
- EET 320 INDUSTRIAL ELECTRICITY and ELECTRONICS
- ET 495 INTERNSHIP
- E MCH 212/MET 321 DYNAMICS
- MET 435 BUILDING ENERGY SYSTEMS
- M E 201 INTRODUCTION TO THERMAL SCIENCE
- M E 300 ENGINEERING THERMODYNAMICS
- MGMT 301 BASIC MGMT CONCEPT