TEMPLE UNIVERSITY

# Temple University College of Engineering

## Associate in Science in Engineering Science at the Community College of Philadelphia to the Bachelor of Science in Civil Engineering at Temple University

**(Effective Fall 2017)**

| Community College of Philadelphia Recommended Course | | | Temple University Equivalent | |
|---|---|---|---|---|
| ***First Semester*** | | ***Credits*** | ***First Semester*** | |
| ENGR 102 | Engineering Design and Lab I | 4 | ENGR 1101 | Intro to Engineering |
| MATH 171 | Calculus I | 4 | MATH 1041 | Calculus I |
| CHEM 121 | College Chemistry I | 4 | CHEM 1031 & CHEM 1033 | General Chemistry I & General Chemistry Lab I |
| ENGL 101 | English Composition I | 3 | ENGL 0802 | Analytic Reading & Writing |
| CIS 103 | Applied Computer Technology | 3 | CIS L000 | Elective |
| | **Semester Total:** | **18** | | |
| ***Second Semester*** | | | ***Second Semester*** | |
| ENGR 202 | Engineering Design and Lab II | 4 | ENGR 1117 | Engineering Graphics |
| PHYS 140 | Mechanics, Heat and Sound | 5 | PHYS 1061 | Elementary Classical Physics I |
| MATH 172 | Calculus II | 4 | MATH 1042 | Calculus II |
| MATH 270 | Linear Algebra | 4 | MATH 2101 | Linear Algebra |
| | **Semester Total:** | **17** | | |
| ***Summer Session I*** | | | ***Summer Session I*** | |
| ENGL 102 | English Composition II | 3 | ENGL T*** | English Elective |
| | **Semester Total:** | 3 | | |
| ***Third Semester*** | | | ***Third Semester*** | |
| MATH 271 | Calculus III | 4 | MATH 2043 | Calculus III |
| CHEM 122 | College Chemistry II | 4 | CHEM 1032 & CHEM 1034 | General Chemistry II & General Chemistry Lab II |
| ENGR 221 | Statics | 3 | ENGR 2331 | Engineering Statics |
| PHYS 241 | Electricity, Magnetism and Light | 5 | PHYS 1062 | Elementary Classical Physics II |
| | **Semester Total:** | **16** | | |
| ***Fourth Semester*** | | | ***Fourth Semester*** | |
| | Humanities Elective | 3 | | Dependent on Selection [Note 1] |
| | Social Science Elective | 3 | | Dependent on Selection [Note 1] |
| MATH 272 | Differential Equations | 4 | MATH 3041 | Differential Equations |
| ENGR 222 | Dynamics | 3 | ENGR 2332 | Engineering Dynamics |
| CSCI 111 OR ENGR 205 | Computer Science I w/ Java Materials Engineering | 4 | CIS 1057 OR ENGR 3201 | Programming in C Materials Science for Engineers [Note 2] |
| | **Semester Total:** | **17** | | |
| | **Degree Total:** | **71** | | |

Notes:

1. CCP graduates who transfer with the A.S. in Engineering Science satisfy Temple's GenEd requirements by GenEd-to-GenEd transfer. It is recommended that students work with their CCP advisor to select transfer courses for their Humanities and Social Science electives. To see how CCP courses might transfer consult Temple's Transfer Equivalency Tool: http://admissions.temple.edu/transfer-equivalency-tool
2. Students may select CSCI 111: Programming and Algorithm Design or ENGR 205: Materials Engineering for their degree requirements at CCP. ENGR 205, which meets a major requirement at Temple, is recommended. Student selecting CSCI 111 will need to complete additional courses at Temple and may need additional semester(s) to complete the degree.

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| Remaining requirements at Temple University | | |
|---|---|---|
| ***Summer Session between 2nd and 3rd year*** | | *Credits* |
| ENGR 2333 | Mechanics of Solids See Note A | 3 |
| | **Session Total** | **3** |
| ***Fifth Semester*** | | |
| ENGR 2196 | Technical Communication [WI] | 3 |
| ENGR 3571 | Classical & Statistical Thermodynamics | 3 |
| CEE 3411 | Structural Analysis | 3 |
| CEE 3412 | Structural Analysis Lab | 1 |
| CEE 3331 | Soil Mechanics | 3 |
| CEE 3332 | Soil Mechanics Lab | 1 |
| CEE 2711 | Environmental Chemistry & Microbiology | 3 |
| | **Semester Total** | **17** |
| ***Sixth Semester*** | | |
| CEE 3048 | Probability, Statistics & Stochastic Methods | 3 |
| ENGR 4169 | Engineering Seminar | 1 |
| CEE 1105 | Surveying | 2 |
| CEE 3441 | Steel & Concrete Design | 4 |
| ENGR 3553 | Mechanics of Fluids | 3 |
| ME 3506 | Fluids and Energy Laboratory | 1 |
| CEE 2011 | Civil Engineering Materials | 2 |
| | **Semester Total** | **16** |
| ***Seventh Semester*** | | |
| ENGR 4196 | Engineering Senior Design I | 1 |
| CEE XXXX | Technical Elective #1 (see approved CEE Technical Electives) See Note B | 3 |
| CEE 3711 | Environmental Engineering | 3 |
| CEE 3311 | Construction Engineering | 3 |
| Free Elective | Free Elective | 3 |
| | **Semester Total** | **13** |
| ***Eighth Semester*** | | |
| ENGR 4296 | Engineering Senior Design II | 3 |
| CE 3211 | Transportation Engineering | 3 |
| CE XXXX | Technical Elective #2 (see approved CEE Technical Electives) See Note B | 3 |
| Free Elective | Free Elective | 3 |
| | **Semester Total** | **12** |
| | **Total Credits for AS in Engineering Science** | **71** |
| | **Remaining Temple Requirements** | **61** |
| | **Total Credits for BS Degree: (124 min.)** | **132** |

Notes

A. Students transferring with the A.S. in Engineering Science will need to complete ENGR 2333: Mechanics of Solids prior to their first regular semester at Temple to be able to complete the BS in 2 years or 4 full semesters at Temple.

B. Students should see their Temple advisor for recommended courses.

NOTES:

1. To find the online application:
   - Go to www.temple.edu/undergrad
   - Click on "Applying" on the gray bar across the top
   - Click on "Transfer Students" on the left hand side - This will take you directly to an online application
2. All inquiries about the undergraduate program and application are handled through the Office of Undergraduate Admissions. If you have specific questions about your application or the admission process, please call 215-204-7200.
3. All inquiries specific to the Engineering program and requirements should be directed to the College of Engineering, Shawn Fagan, 215-204-8825, sfagan@temple.edu.