

| Course Subject and Title<br><i>(courses in bold/shading are critical)</i>  | Hrs.   | Upper Division                      | Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No |                           | Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No  |
|--|--------|-------------------------------------|---|---------------------------|---|
|  |        |                                     | Transfer Course/Grade   | Minimum Grade if Required | Additional Critical Requirement Notes   |
| <b>TERM ONE: 0-15 CREDIT HOURS</b>   |        |                                     |   |                           |   |
| ASU 101-FSE: The ASU Experience  | 1      | <input type="checkbox"/>            |   |                           | <ul style="list-style-type: none"> <li>Complete CHM 114 or 116; MAT 265 with a minimum grade of "C"</li> <li>ASU 101-FSE should be completed first semester.</li> <li>An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses</li> <li>ASU Math Placement Exam score determines placement in Mathematics course</li> </ul> *CHM 113 is a prerequisite and does not apply toward degree credit.<br>**If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor. |
| <b>CEE 100: Intro to Civil and Environmental Engineering OR ECN 211/212 (SB): Macroeconomic Principles/ Microeconomic Principles or ECN 201: Economic Issues &amp; Analysis (SB)</b> | 2 or 3 | <input type="checkbox"/>            |   | Grade of C in CEE 100     |   |
| <b>CHM 114: General Chemistry for Engineers (SQ) OR CHM 116: General Chemistry II* (SQ)</b>  | 4      | <input type="checkbox"/>            |   |                           |   |
| <b>MAT 265: Calculus for Engineers I</b>   | 3      | <input type="checkbox"/>            |   | Grade of C                |   |
| ENG 101 or 102: First-Year Composition OR<br>ENG 105: Advanced First-Year Composition** OR<br>ENG 107 or 108: English for Foreign Students   | 3      | <input type="checkbox"/>            |   | Grade of C                |   |
| <b>TERM TWO: 16-30 CREDIT HOURS</b>  |        |                                     |   |                           |   |
| <b>CEE 100: Intro to Civil and Environmental Engineering OR ECN 211/212 (SB): Macroeconomic Principles/ Microeconomic Principles or ECN 201: Economic Issues &amp; Analysis (SB)</b> | 2 or 3 | <input type="checkbox"/>            |   | Grade of C in CEE 100     | <ul style="list-style-type: none"> <li>Complete CEE 100; MAT 242, 266; PHY 121 &amp; 122 each with a minimum grade of "C"</li> </ul>  |
| <b>MAT 242: Elementary Linear Algebra</b>  | 2      | <input type="checkbox"/>            |   | Grade of C                |   |
| <b>MAT 266: Calculus for Engineers II</b>  | 3      | <input type="checkbox"/>            |   | Grade of C                |   |
| <b>PHY 121/122: University Physics I/Laboratory I (SQ)</b>   | 3/1    | <input type="checkbox"/>            |   | Grade of C                |   |
| ENG 101 or 102: First-Year Composition OR<br>ENG 105: Advanced First-Year Composition** OR<br>ENG 107 or 108: English for Foreign Students   | 3      | <input type="checkbox"/>            |   | Grade of C                |   |
| <b>TERM THREE: 31-45 CREDIT HOURS</b>  |        |                                     |   |                           |   |
| <b>CEE 210: Engineering Mechanics: Statics</b>   | 3      | <input type="checkbox"/>            |   | Grade of C                | <ul style="list-style-type: none"> <li>Complete CEE 210; MAT 267, 275, PHY 131 &amp; 132 each with a minimum grade of "C"</li> <li>Complete First-Year Composition requirement: ENG 101 &amp; 102 or ENG 107 &amp; 108 or ENG 105</li> </ul>  |
| <b>MAT 267: Calculus for Engineers III</b>   | 3      | <input type="checkbox"/>            |   | Grade of C                |   |
| <b>MAT 275: Modern Differential Equations (MA)</b>   | 3      | <input type="checkbox"/>            |   | Grade of C                |   |
| <b>PHY 131/132: University Physics II: Electricity and Magnetism/ Laboratory II (SQ)</b>   | 3/1    | <input type="checkbox"/>            |   | Grade of C                |   |
| <b>TERM FOUR: 46-60 CREDIT HOURS</b>   |        |                                     |   |                           |   |
| <b>CEE 212: Engineering Mechanics: Dynamics</b>  | 3      | <input type="checkbox"/>            |   | Grade of C                | <ul style="list-style-type: none"> <li>Complete CEE 212, CEE 213 each with a minimum grade of "C"</li> </ul>  |
| <b>CEE 213: Introduction to Deformable Solids</b>  | 3      | <input type="checkbox"/>            |   | Grade of C                |   |
| EEE 202: Circuits I  | 4      | <input type="checkbox"/>            |   |                           |   |
| Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB), AND Cultural Diversity in the US (C) or Global Awareness (G):   | 3      | <input type="checkbox"/>            |   |                           |   |
| Basic Science Elective:  | 3      | <input type="checkbox"/>            |   |                           |   |
| <b>TERM FIVE: 61-75 CREDIT HOURS</b>   |        |                                     |   |                           |   |
| # CEE 384: Numerical Methods for Engineers (CS)<br>Select 3  | 3      | <input checked="" type="checkbox"/> |   | Grade of C                | # Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses. NOTE: A maximum of two "D" grades are allowed in all 3XX and 4XX courses combined.   |
| # CEE 300: Engineering Business Practice (L) (3 hrs)   |        |                                     |   |                           |   |
| # CEE 321: Structural Analysis and Design (4 hrs)  |        |                                     |   |                           |   |
| # CEE 341: Fluid Mechanics for Civil Engineers (4 hrs)   |        |                                     |   |                           |   |
| # CEE 351: Geotechnical Engineering (4 hrs)  |        |                                     |   |                           |   |
| # CEE 353: Civil Engineering Materials (3 hrs)   |        |                                     |   |                           |   |
| # CEE 361: Introduction to Environmental Engineering (4 hrs)   | 10-    |                                     |   |                           |   |
| # CEE 372: Transportation Engineering (4 hrs)  | 12     | <input checked="" type="checkbox"/> |   | Grade of C in each        |   |
| IEE 380: Probability and Statistics for Engineering Problem Solving  | 3      | <input checked="" type="checkbox"/> |   |                           |   |
| <b>TERM SIX: 76-90 CREDIT HOURS</b>  |        |                                     |   |                           |   |
| Select remaining 4   |        |                                     |   |                           | # Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses. NOTE: A maximum of two "D" grades are allowed in all 3XX and 4XX courses combined.   |
| # CEE 300: Engineering Business Practice(L) (3 hrs)  |        |                                     |   |                           |   |
| # CEE 321: Structural Analysis and Design (4 hrs)  |        |                                     |   |                           |   |
| # CEE 341: Fluid Mechanics for Civil Engineers (4 hrs)   |        |                                     |   |                           |   |
| # CEE 351: Geotechnical Engineering (4 hrs)  |        |                                     |   |                           |   |
| # CEE 353: Civil Engineering Materials (3 hrs)   |        |                                     |   |                           |   |
| # CEE 361: Introduction to Environmental Engineering (4 hrs)   | 14-    |                                     |   |                           |   |
| # CEE 372: Transportation Engineering (4 hrs)  | 16     | <input checked="" type="checkbox"/> |   | Grade of C in each        |   |
| <b>TERM SEVEN: 91-105 CREDIT HOURS</b>   |        |                                     |   |                           |   |
| Select 4   |        |                                     |   |                           | # Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses. NOTE: A maximum of two "D" grades are allowed in all 3XX and 4XX courses combined.   |
| # CEE 281: Surveying (3 hrs)   |        |                                     |   |                           |   |
| # CEE 412: Pavement Analysis and Design (3 hrs) OR # CEE 483: Highway Materials, Construction and Quality (3 hrs)  |        |                                     |   |                           |   |
| # CEE 420: Steel Structures (3 hrs) OR # CEE 421: Concrete Structures (3 hrs)  |        |                                     |   |                           |   |
| # CEE 452: Foundation (3 hrs)  |        |                                     |   |                           |   |
| # CEE 481: Civil Engineering Project (3 hrs)   |        |                                     |   |                           |   |
| # Approved technical elective (3 hrs)  | 12     | <input checked="" type="checkbox"/> |   | Grade of C in each        |   |
| #CEE 400: Earth Systems Engineering and Management (HU, H) OR Social & Behavioral Science (SB) AND Cultural Diversity in the US (C) or Global Awareness (G)                          | 3      | <input checked="" type="checkbox"/> |   | Grade of C in CEE 400     |   |

| Course Subject and Title<br><i>(courses in bold/shading are critical)</i>  | Hrs. | Upper Division                      | Transfer Course/Grade | Minimum Grade if Required | Additional Critical Requirement Notes   |
|--|------|-------------------------------------|-----------------------|---------------------------|---|
| <b>TERM EIGHT: 106-120 CREDIT HOURS</b>  |      |                                     |                       |                           |   |
| Select remaining 2<br># CEE 281: Surveying (3 hrs)<br># CEE 412: Pavement Analysis and Design (3 hrs) OR # CEE 483: Highway Materials, Construction and Quality (3 hrs)<br># CEE 420: Steel Structures (3 hrs) OR # CEE 421: Concrete Structures (3 hrs)<br># CEE 452: Foundation (3 hrs)<br># CEE 481: Civil Engineering Project (3 hrs)<br># Approved technical elective (3 hrs) | 6    | <input checked="" type="checkbox"/> |                       | Grade of C in each        | # Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses. NOTE: A maximum of two "D" grades are allowed in all 3XX and 4XX courses combined. |
| #CEE 400: Earth Systems Engineering and Management (HU, H) OR Social & Behavioral Science (SB) AND Cultural Diversity in the US (C) or Global Awareness (G) if CEE 400 completed   | 3    | <input type="checkbox"/>            |                       | Grade of C in CEE 400     |   |
| # CEE 486: Integrated Civil Engineering Design (L)   | 4    | <input checked="" type="checkbox"/> |                       | Grade of C                |   |
| Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C) or Global Awareness (G)   | 3    | <input type="checkbox"/>            |                       |                           |   |

**Graduation Requirements Summary:**

| Total Hours Regular Curriculum (120) | Total UD Hrs (45 min) | Total Hrs at ASU (30 min) | Cumulative GPA (2.00 minimum) | Major GPA (2.30 Min. CUM GPA in CEE 3XX, 2.30 min CUM GPA in CEE 4XX) | Hrs Resident Credit for Academic Recognition (56 min) | Total Comm. College Hrs. (64 Max) |
|--------------------------------------|-----------------------|---------------------------|-------------------------------|---|---|-----------------------------------|
|                                      |                       |                           |                               |   |   |                                   |

**General University Requirements: Legend**

- General Studies Core Requirements:
  - Literacy and Critical Inquiry (L)
  - Mathematical Studies (MA)
  - Computer/Statistics/Quantitative applications (CS)
  - Humanities, Fine Arts, and Design (HU)
  - Social and Behavioral Sciences (SB)
  - Natural Science-Quantitative (SQ)
  - Natural Science-General (SG)
- General Studies Awareness Requirements
  - Cultural Diversity in the US (C)
  - Global Awareness (G)
  - Historical Awareness (H)
- First-Year Composition

**Additional Notes:**