## CIVIL ENGINEERING (IIEP) - CLASS OF 2020

Freshman Year Fall Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :--- |
| CHM 101 | General Chemistry Lec I (A1) | 3 |  |
| CHM 102 | General Chemistry I Lab | 1 |  |
| EGR 105 | Foundations of Engineering I (A4) | 1 |  |
| MTH 141 | Intro Calculus with Analytical Geometry (A1, B3) | 4 |  |
| ECN 201 | Principles of Microeconomics (A2) | 3 |  |
| ITL XXX |  | 3 |  |

Sophomore Year Fall Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| CVE 205 | Intro to Civil Engineering Tools | 2 |  |
| MCE 262 | Statics | 3 |  |
| MTH 243 | Calculus for Funcs. of Sev. Vars. (A1, B3) | 3 |  |
| PHY 204 | Elementary Physics II (A1) | 3 |  |
| PHY 274 | Elementary Physics Lab II (A1) | 1 |  |
| WRT 332 | Technical Writing (B1, B2) | 3 |  |
| ITL XXX |  | 3 |  |

Junior Year Fall Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| CVE 346 | Transportation Engineering | 3 |  |
| CVE 354 | Structural Engineering | 3 |  |
| CVE 374 | Environmental Engineering | 3 |  |
| CVE 381 | Geotechnical Engineering | 3 |  |
| CVE 382 | Geotechnical Engineering Lab | 1 |  |
| MCE 354 | Fluid Mechanics | 3 |  |
| ITL XXX |  | 3 |  |

Semester Abroad

| Course Code | Description | Cr |  |
| :--- | :--- | :---: | :---: |
|  | Engineering Professional Elective | 3 |  |
|  | General Education Outcome(s) | 3 |  |
|  | General Education Outcome(s) $^{*}$ | 3 |  |
|  | General Education Outcome(s) |  |  |
| ITL $3 \mathrm{XX} / 4 \mathrm{XX}$ |  | 3 |  |

## Senior Year Fall Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :--- |
| CVE 355 | Structural Engineering Lab | 1 |  |
| CVE 400 | Civil Engineering Licensure | 1 |  |
| CVE 465 | Analysis \& Design of Concrete Structures | 3 |  |
| CVE 483 | Foundation Engineering | 3 |  |
| CVE 497 | Civil Engineering Design I | 2 |  |
|  | General Education Outcome(s)* | 3 |  |
|  | Approved Professional Elective** | 3 |  |
| ITL 4XX |  | 3 |  |

Freshman Year Spring Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| EGR 106 | Foundations of Engineering II (A4) | 2 |  |
| MTH 142 | Intermed Calc with Analytic Geom (B3) | 4 |  |
| PHY 203 | Elementary Physics I (A1) | 3 |  |
| PHY 273 | Elementary Physics Lab I (A1) | 1 |  |
| GEO 103 | Understanding the Earth (A1, B4) | 4 |  |
| ITL XXX |  | 3 |  |

Sophomore Year Spring Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| CHM 112 | General Chemistry II Lec | 3 |  |
| CVE 220 | Mechanics of Materials | 3 |  |
| CVE 230 | Mechanics of Materials Lab | 1 |  |
| MCE 263 | Dynamics | 3 |  |
| MTH 244 | Differential Equations | 3 |  |
| STA 409 | Statistics | 3 |  |
| ITL XXX |  | 3 |  |

Junior Year Spring Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| CVE 347 | Highway Engineering | 3 |  |
| CVE 348 | Highway Engineering Lab | 1 |  |
| CVE 370 | Hydraulic Engineering | 3 |  |
| CVE 375 | Hydraulic Engineering Lab | 1 |  |
| ISE 304 | Engineering Economics and Project Planning | 3 |  |
|  | General Eduation Outcome(s)* | 3 |  |
| ITL XXX |  | 3 |  |

International Internship Semester

| Course Code | Description | Cr |  |
| :--- | :--- | :---: | :---: |
| ITL 316-317 | Language Study Abroad | $3-6$ |  |
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## Senior Year Spring Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| CVE 498 | Civil Engineering Design II | 3 |  |
|  | Approved Professional Elective** | 3 |  |
|  | Approved Professional Elective** | 3 |  |
|  | Approved Professional Elective** | 3 |  |
|  | General Education Outcome(s)* | 3 |  |
| ITL 4XX |  | 3 |  |
| --- | Take FE Examination*** | --- |  |
|  |  |  |  |

Specified Math, Science, and Engineering Courses


| Italian Language Requirements |  |  |  |  |
| :---: | :--- | :---: | :---: | :---: |
| Sem | Course | $\mathbf{C r}$ | $\mathbf{G r}$ | $\mathbf{Q P}$ |
|  | ITL__ | 3 |  |  |
|  | ITL__ | 3 |  |  |
|  | ITL__ | 3 |  |  |
|  | ITL__ | 3 |  |  |
|  | ITL__ | 3 |  |  |
|  | ITL__ | 3 |  |  |
|  | ITL__ | 3 |  |  |
|  | ITL__ | 3 |  |  |
|  | ITL 4_-_ | 3 |  |  |
|  | ITL 4_- | 3 |  |  |

ITL 100, 101, and 102 will not count toward the major. Up to three (3) credits chosen from ITL $\mathbf{3 9 0}$ or $\mathbf{3 9 5}$ may be used toward major requirements.

| General Education Outcome Audit |  |  |
| :---: | :---: | :---: |
|  | Course | Credit |
| Knowledge |  |  |
| A1. STEM | CHM \& PHY (see above) | 11 |
| A2. Social \& Behavioral Sciences | ECN 201 | 3 |
| A3. Humanities | ITL 1XX/2XX (suggested) | 3 |
| A4. Arts \& Design | EGR 105 \& 106 | 3 |
| Competences |  |  |
| B1. Write Effectively | WRT 332 | 3 |
| B2. Communicate Effectively | WRT 332 | -- |
| B3. Mathematical, statistical, or computational stategies | MTH (see above) | 11 |
| B4. Information literacy | GEO 103 | 3 |
| Responsibilities |  |  |
| C1. Civic knowledge \& responsibilities |  |  |
| C2. Global responsibilities | ITL 1XX/2XX (suggested) | 3 |
| C3. Diversity and Inclusion |  |  |
| Inegrate \& Apply |  |  |
| D1. Ability to synthesize | TBD from major requirements | 3 |
| Grand Challenge |  |  |
| G. Check that at least one course of your 40 credits is an approved "G" course |  |  |
| Total General Educatio | Outcome Credits | 40 |

