

Name _____ I.D. No. _____

CIVIL ENGINEERING Curriculum Sheet

Revised 6-11-2010

Effective for all students admitted to CVE program Fall 2009 and after.

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|---|---|------------|--------------|---|---|------------|--------------|
| Fall Semester – Year 1 | | Cr. | Grade | Spring Semester – Year 1 | | Cr. | Grade |
| ENG 100 Intensive College Writing OR | 3 | _____ | | ESC 102 Technical Writing | 3 | _____ | |
| ENG 101 College Writing I | | | | | | | |
| MTH 181 Calculus I | 4 | _____ | | MTH 182 Calculus II | 4 | _____ | |
| CHM 261 General Chemistry I | 4 | _____ | | PHY 241 University Physics I | 5 | _____ | |
| CHM 266 General Chemistry Lab I | 1 | _____ | | Gen Ed Elective _____ | 3 | _____ | |
| ESC 120 Intro. to Engineering Design *** | 2 | _____ | | GEO 100 Introduction to Geology | 3 | _____ | |
| ESC 100 New Student Orientation* | 1 | _____ | | CSC 121 Career Orientation** | 1 | _____ | |
| Fall Semester – Year 2 | | Cr. | Grade | Spring Semester – Year 2 | | Cr. | Grade |
| ESC 201 Statics | 3 | _____ | | ESC 211 Strength of Materials | 3 | _____ | |
| ESC 250 Differential Equations for Engrs. | 3 | _____ | | CVE 310 Strength of Materials Lab | 2 | _____ | |
| MTH 283 Multivariable Calculus for Engrs. | 2 | _____ | | CVE 360 Mechanics of Fluids and Basic Thermal Systems for Civil Engineers | 4 | _____ | |
| PHY 242 Univ. Physics II | 5 | _____ | | ESC 200 Engineering History & Heritage | 3 | _____ | |
| CVE 211 Surveying | 3 | _____ | | ESC 282 Engineering Economy | 3 | _____ | |
| CVE 212 Surveying Lab | 2 | _____ | | | | | |
| Fall Semester – Year 3 | | Cr. | Grade | Spring Semester – Year 3 | | Cr. | Grade |
| ESC 202 Dynamics | 3 | _____ | | CVE 322 Structural Steel Design | 3 | _____ | |
| CVE 312 Structural Analysis I | 3 | _____ | | CVE 331 Intro. To Geotechnical Engineering | 3 | _____ | |
| CVE 361 Hydraulic Engineering | 3 | _____ | | CVE 332 Geotechnical Engineering Lab | 2 | _____ | |
| CVE 362 Hydraulics Lab | 2 | _____ | | CVE 461 Hydrologic Analysis | 3 | _____ | |
| CVE 371 Environmental Engineering I | 3 | _____ | | CVE 422 Reinforced Concrete Design | 3 | _____ | |
| CVE 374 Environmental Engineering Lab | 2 | _____ | | | | | |
| Fall Semester – Year 4 | | Cr. | Grade | Spring Semester – Year 4 | | Cr. | Grade |
| CVE 426 Preliminary Design (SPAC) | 2 | _____ | | CVE 403 Construction Planning and Estimating | 3 | _____ | |
| CVE 429 Foundation Engineering | 3 | _____ | | CVE 427 Capstone Design (WAC) | 2 | _____ | |
| CVE 446 Transportation Engineering | 3 | _____ | | CVE Tech Elective _____ | 3 | _____ | |
| PHL 215 Engineering Ethics (WAC) | 3 | _____ | | CVE Tech Elective _____ | 3 | _____ | |
| Gen Ed Elective _____ | 3 | _____ | | Gen Ed Elective _____ | 3 | _____ | |
| Gen Ed Elective _____ | 3 | _____ | | | | | |

* Not required for transfer students

**Optional course. Required for participation in co-op and internship programs.

*** Required for freshmen and transfer students admitted to Engineering College Fall, 2003 and after.

Minimum number of credits required for degree (excluding orientation and co-op): 126

Name _____ Advisor _____

CIVIL ENGINEERING Co-op Curriculum Sheet Revised 6-11-2010

| <u>Year 1</u> <u>Fall Semester</u> | <u>Cr.</u> | <u>Grade</u> | <u>Spring Semester</u> | <u>Cr.</u> | <u>Grade</u> | <u>Summer Semester</u> | |
|--|------------|--------------|---|------------|--------------|-----------------------------|------------------|
| MTH 181 Calculus I | 4 | _____ | MTH 182 Calculus II | 4 | _____ | Work or School | |
| CHM 261 Gen. Chemistry I | 4 | _____ | PHY 241 Univ. Physics I | 5 | _____ | | |
| CHM 266 Gen. Chemistry Lab I | 1 | _____ | ESC 102 Technical Writing | 3 | _____ | | |
| ENG 100 Intensive College Writing OR | 3 | _____ | GEO 100 Intro. to Geology | 3 | _____ | | |
| ENG 101 College Writing I | 3 | _____ | CSC 121 Career Orientation* | 1 | _____ | | |
| ESC 100 New Student Orientation** | 1 | _____ | Gen Ed Elective _____ | 3 | _____ | | |
| ESC 120 Intro. to Engineering Design*** | 2 | _____ | | | | | |
| | | | | | | | |
| <u>Year 2</u> <u>Fall Semester</u> | <u>Cr.</u> | <u>Grade</u> | <u>Spring Semester</u> | <u>Cr.</u> | <u>Grade</u> | <u>Summer Semester</u> | <u>Cr. Grade</u> |
| ESC 250 Differential Equations for Engineers | 3 | _____ | ESC 211 Strength of Materials | 3 | _____ | Co-op or School: ESC 300 | 1 _____ |
| PHY 242 Univ. Physics II | 5 | _____ | CVE 310 Strength of Materials Lab | 2 | _____ | | |
| ESC 201 Statics | 3 | _____ | CVE 360 Fluids/ Thermal Syst. for Civil Engineers | 4 | _____ | | |
| CVE 211 Surveying | 3 | _____ | ESC 200 History & Heritage | 3 | _____ | | |
| CVE 212 Surveying Lab | 2 | _____ | | | | | |
| MTH 283 Multi. Var. Calc. Engr | 2 | _____ | | | | | |
| | | | | | | | |
| <u>Year 3</u> <u>Fall Semester</u> | <u>Cr.</u> | <u>Grade</u> | <u>Spring Semester</u> | <u>Cr.</u> | <u>Grade</u> | <u>Summer Semester</u> | <u>Cr. Grade</u> |
| ESC 202 Dynamics | 3 | _____ | Co-op: ESC 300 | 1 | _____ | ESC 282 Engr. Economy | 3 _____ |
| CVE 312 Structural Analysis I | 3 | _____ | | | | PHL 215 Engr. Ethics | 3 _____ |
| CVE 361 Hydraulic Engr. | 3 | _____ | | | | | |
| CVE 362 Hydraulics Lab | 2 | _____ | | | | | |
| CVE 371 Environmental Engr. | 3 | _____ | | | | | |
| CVE 374 Environ. Engr. Lab | 2 | _____ | | | | | |
| | | | | | | | |
| <u>Year 4</u> <u>Fall Semester</u> | <u>Cr.</u> | <u>Grade</u> | <u>Spring Semester</u> | <u>Cr.</u> | <u>Grade</u> | <u>Summer Semester</u> | <u>Cr. Grade</u> |
| Co-op: ESC 300 | 1 | _____ | CVE 322 Structural Steel | 3 | _____ | Co-op: ESC 300 | 1 _____ |
| | | | CVE 331 Intro to Geotechnical Engineering | 3 | _____ | | |
| | | | CVE 332 Geotechnical Engr. Lab (Writing) | 2 | _____ | | |
| | | | CVE 441 Hydrologic Analysis | 3 | _____ | | |
| | | | CVE 442 Reinforced Concrete | 3 | _____ | | |
| | | | | | | | |
| <u>Year 5</u> <u>Fall Semester</u> | <u>Cr.</u> | <u>Grade</u> | <u>Spring Semester</u> | <u>Cr.</u> | <u>Grade</u> | | |
| CVE 426 Preliminary Design | 2 | _____ | CVE 403 Construct. Planning and Estimating | 3 | _____ | | |
| CVE 429 Foundation Engr. | 3 | _____ | CVE 427 Capstone Design (Writing) | 2 | _____ | | |
| CVE 446 Transportation Engr. | 3 | _____ | CVE Tech Elective _____ | 3 | _____ | | |
| Gen Ed Elective _____ | 3 | _____ | CVE Tech Elective _____ | 3 | _____ | | |
| Gen Ed Elective _____ | 3 | _____ | Gen Ed Elective _____ | 3 | _____ | | |

Minimum number of credits required for degree (excluding orientation and co-op): 126

* Required for co-op and internship programs.

**Not required for transfer students.

***Requirement for freshmen and transfer students admitted to Engineering College Fall 2003 and after