

# CLEVELAND STATE UNIVERSITY

Name \_\_\_\_\_ I.D. No. \_\_\_\_\_

## CIVIL ENGINEERING Curriculum Sheet

|   |   |                   |                     |  |   |                   |                     |
|---|---|-------------------|---------------------|--|---|-------------------|---------------------|
| <b><u>Fall Semester – Year 1</u></b>      |   | <b><u>Cr.</u></b> | <b><u>Grade</u></b> | <b><u>Spring Semester – Year 1</u></b>     |   | <b><u>Cr.</u></b> | <b><u>Grade</u></b> |
| ENG 101 English I                         | 4 | _____             |                     | ENG 102 English II                         | 3 | _____             |                     |
| 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 | _____             |                     | CVE 211 Surveying                          | 3 | _____             |                     |
| ESC 120 Intro. to Engineering Design ***  | 2 | _____             |                     | ESC 151 C Programming                      | 3 | _____             |                     |
| ESC 100 New Student Orientation*          | 1 | _____             |                     | CSC 121 Career Orientation**               | 1 | _____             |                     |
| <b><u>Fall Semester – Year 2</u></b>      |   | <b><u>Cr.</u></b> | <b><u>Grade</u></b> | <b><u>Spring Semester – Year 2</u></b>     |   | <b><u>Cr.</u></b> | <b><u>Grade</u></b> |
| ESC 201 Statics                           | 3 | _____             |                     | ESC 211 Strength of Materials              | 3 | _____             |                     |
| ESC 250 Differential Equations for Engrs. | 3 | _____             |                     | ESC 301 Fluid Mechanics                    | 3 | _____             |                     |
| MTH 283 Multivariable Calculus for Engrs. | 2 | _____             |                     | ESC 310 Engr. Statistics and Probability   | 3 | _____             |                     |
| PHY 242 Univ. Physics II                  | 5 | _____             |                     | ESC 315 Electrical Engineering Concepts or |   |                   |                     |
| CVE 212 Surveying Lab                     | 2 | _____             |                     | ESC 321 Thermodynamics                     | 3 | _____             |                     |
| Gen Ed Elective _____                     | 3 | _____             |                     | ESC 350 Linear Alg. Numer. Meth. Engr.     | 3 | _____             |                     |
|   |   |                   |                     | Gen Ed Elective _____                      | 3 | _____             |                     |
| <b><u>Fall Semester – Year 3</u></b>      |   | <b><u>Cr.</u></b> | <b><u>Grade</u></b> | <b><u>Spring Semester – Year 3</u></b>     |   | <b><u>Cr.</u></b> | <b><u>Grade</u></b> |
| CVE 310 Strength of Materials Lab         | 2 | _____             |                     | 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                    | 1 | _____             |                     | CVE 412 Structural Analysis II             | 3 | _____             |                     |
| CVE 371 Environmental Engineering I       | 3 | _____             |                     | CVE 473 Environmental Engineering II       | 3 | _____             |                     |
| ESC 202 Dynamics                          | 3 | _____             |                     | CVE 474 Environmental Engineering Lab      | 2 | _____             |                     |
| PHL 215 Engineering Ethics (Writing)      | 3 | _____             |                     |  |   |                   |                     |
| <b><u>Fall Semester – Year 4</u></b>      |   | <b><u>Cr.</u></b> | <b><u>Grade</u></b> | <b><u>Spring Semester – Year 4</u></b>     |   | <b><u>Cr.</u></b> | <b><u>Grade</u></b> |
| CVE 422 Reinforced Concrete Design        | 3 | _____             |                     | CVE 403 Construction Planning and          |   |                   |                     |
| CVE 426 Senior Design (Writing)           | 1 | _____             |                     | Estimating                                 | 3 | _____             |                     |
| ESC 282 Engineering Economy               | 3 | _____             |                     | CVE 426 Senior Design (Writing)            | 2 | _____             |                     |
| CVE 429 Foundation Engineering            | 3 | _____             |                     | CVE 446 Transportation Engineering         | 3 | _____             |                     |
| Gen Ed Elective _____                     | 3 | _____             |                     | CVE Elective _____                         | 3 | _____             |                     |
| CVE 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): 136