

# Civil Engineering Sample Curriculum - 2009-2010

Name: \_\_\_\_\_ E-mail: \_\_\_\_\_ @osu.edu

YEAR	AUTUMN	WINTER	SPRING
1	Math 151.OX (Calc. & Analytic Geom.) 5 _____ Engr. 181.01 (Intro. to Eng. I).....3 _____ Engr. 100.04 (Eng. Survey).....1 _____ GEC.....5 _____	Math 152.OX (Calc. & Analytic Geom.) 5 _____ Engr. 183.OX (Intro. Eng. II).....3 _____ Physics 131 (Particles & Motion).....5 _____ GEC.....5 _____	Math 153.OX (Calc. & Analytic Geom.) 5 _____ Chem. 121 (General Chemistry) .... 5 _____ Physics 132 (Elec. & Magnetism) .. 5 _____ English 110 (1 <sup>st</sup> yr. English Comp.) 5 _____
2	Math 254.OX (Calc. & Analytic Geom.) 5 _____ <i>ME 410 (Statics)..... 4 _____</i> Earth Sci 121 (Dynamic Earth)..... 5 _____ GEC.....5 _____	EG 167 (Prob. Solv. Prog. Eng.)..... 4 _____ Or CSE 202 or CSE 294P <i>ME 420 (Strength of Materials) ..... 4 _____</i> Chem. 122 (General Chemistry).....5 _____ Or Chem. 125 (Chem. for Engrs.)	<i>CE 405 (Observational Analysis)..... 4 _____</i> <i>CE 400 (Intro to Geomatics).....4 _____</i> <i>ME 430 (Dynamics) ..... 4 _____</i> <i>CE 460 (Prof. Aspects of CEE).....1 _____</i> GEC.....5 _____
3	<i>CE 413 (Fluid Mechanics)..... 4 _____</i> <i>CE 451 (CE Materials)..... 4 _____</i> <i>CE 540 (CE Systems)..... 4 _____</i> <i>CE 431 (Structural Eng. Principles) .. 3 _____</i>	<i>CE 406 (Fund. of CE Analysis)..... 4 _____</i> <i>CE 570 (Trans. Eng. &amp; Analysis).... 4 _____</i> <i>CE 576 (CE Econ. &amp; Planning)..... 4 _____</i> <i>CE 516 (Water Resources Eng.) .... 4 _____</i>	<i>CE 520 (Dsgn. of Trmt. Facilities) 4 _____</i> <i>CE 535 (Bsc. Reinfr. Concrete Dsgn.) 5 _____</i> <i>CE 554 (Geotechnical Eng.) ..... 4 _____</i> Math 255.OX (Diff. Eq. & their Apps.) 5 _____ Or Math 415.OX (Ord. & Part. Diff. Eq.)
4	<i>ME 500 (Thermal Sciences)..... 4 _____</i> <i>Technical Elective..... ~4 _____</i> <i>Technical Elective..... ~4 _____</i> <i>Technical Elective..... ~4 _____</i> GEC.....5 _____	<i>Technical Elective.....~4 _____</i> <i>Technical Elective.....~4 _____</i> <i>CE 660.01(Capstone Design) .....3 _____</i> GEC.....5 _____	<i>Technical Elective..... ~4 _____</i> <i>Technical Elective..... ~4 _____</i> <i>CE 660.02 (Capstone Design).....3 _____</i> GEC.....5 _____

Courses in **bold** are offered once a year. Courses in *italics* are monitored courses in which you must maintain a cumulative point hour-ratio of 2.0. CE 400, 405, 431, 460 and 535 are offered twice a year. Quarterly course offerings are subject to change. Please check the on-line course bulletin and master schedule for pre-requisite requirements and course availability. Please note that students who need preparatory work before beginning Math 151 will need additional time to complete this curriculum.

## GENERAL EDUCATION (35 hours)

### English & Communication Skills (10 hrs)

English 110.OX (5) \_\_\_\_\_  
2<sup>nd</sup> Writing Course (5) \_\_\_\_\_

**Students must take 25 hours across Social Sciences, Historical Study, and Arts & Humanities with a minimum of 5 hours and maximum of 10 hours per category.**

### Social Sciences (5-10 hours)

Economics 200 (Required) ( ) \_\_\_\_\_  
\_\_\_\_\_ ( ) \_\_\_\_\_

### Historical Study (5-10 hours)

\_\_\_\_\_ ( ) \_\_\_\_\_  
\_\_\_\_\_ ( ) \_\_\_\_\_

### Arts & Humanities (5-10 hours)

\_\_\_\_\_ ( ) \_\_\_\_\_  
\_\_\_\_\_ ( ) \_\_\_\_\_

### Ethics

(May overlap with another GEC category)

\_\_\_\_\_ ( ) \_\_\_\_\_

### Social Diversity

(May overlap with another GEC category)

\_\_\_\_\_ ( ) \_\_\_\_\_

### Technical Electives (28 hours)

\_\_\_\_\_ ( ) \_\_\_\_\_  
\_\_\_\_\_ ( ) \_\_\_\_\_  
\_\_\_\_\_ ( ) \_\_\_\_\_  
\_\_\_\_\_ ( ) \_\_\_\_\_  
\_\_\_\_\_ ( ) \_\_\_\_\_  
\_\_\_\_\_ ( ) \_\_\_\_\_  
\_\_\_\_\_ ( ) \_\_\_\_\_  
\_\_\_\_\_ ( ) \_\_\_\_\_  
\_\_\_\_\_ ( ) \_\_\_\_\_

### Technical Writing (14 hours)

(Counted in Civil core)

CE 405 (4) \_\_\_\_\_  
CE 406 (4) \_\_\_\_\_  
CE 660.01 and .02 (6) \_\_\_\_\_

### Hours Required:

**Pre-Civil..... 54**  
**Civil Core..... 78-80**  
**General Education..... 35**  
**Technical Electives..... 28**

**TOTAL HOURS 195-197**

Admission to the Civil and Environmental Engineering program requires a minimum cumulative point-hour ratio (CPHR) of 2.0 as well as a minimum secondary point-hour ratio (SPHR) of 2.0 in the following pre-major courses: *Math 151.OX, 152.OX, 153.OX, 254.OX; Physics 131, 132, ME 410; Earth Science 121; Chemistry 121; Engineering 181.01, 183.OX & EG 167.* English 110.OX and Engineering 100.04 must also be completed. Formal application is required.

**Students are accepted into the major autumn and spring quarters only.** Applications to Major are available at

<http://www.ceegs.ohio-state.edu/CEUNDERGRAD/forms.php>. Applications are due in spring or summer for autumn entry and winter for spring entry. Contact the Undergraduate Advisor (HI 475) if you have any question.