CIVIL ENGINEERING – CURRICULUM FLOW DIAGRAM for the 2010-2011 CATALOG
ENVIRONMENTAL ENGINEERING CONCENTRATION

LEGEND:
- References (Reverse side)
- Prerequisites (consult catalog)
- Corequisites (consult catalog)
- Grade of “C” or better required

NO CREDIT DEFICIENCIES (if applicable)

1st SEMESTER

ENG 101 3
MAT 170 Pre Calculus 3
MAT 265 3 Calc for Engrs I

2nd SEMESTER

ENG 102 3
ECN201/211/212 3 Econ.
SB
MAT 266 3 Calc for Engrs II

3rd SEMESTER

MAT 275 3 Modern Diff Eqns
MAT 267 3 Calc for Engrs III

4th SEMESTER

Basic Science Elective 3
HU / SB 3

5th SEMESTER

IEE 380 3 Prob. & Statistics
CEE 384 3 Num. Methods
CEE 353 3 CE Materials

6th SEMESTER

CEE 300 3 Eng Business Practice
CEE 351 4 Geotechnical Eng
CEE 321 4 Structural Analysis

7th SEMESTER

HU / SB 3
CE400 3 Earth Sys, HU,H

8th SEMESTER

HU / SB 3
HU / SB 3

Electives in the SB/HU area are selected from the General Catalog. However, students should consider the following electives that may enhance their Civil Engineering Program such as:
- SB : GCU 141, 361, 362, 442
- HU FSE 194 (Technology, Society & Sustainability), CON 101, APH 100, PUP 200
1. **WAC 101** (WAC107 for International Students). Is required for students with the following test score: SAT 460 or lower, ACT 18 or lower, or TOEFL 540 or lower.

2. **MAT 170**. Students who are considering enrolling in MAT 170 must take a placement examination. [http://math.asu.edu/fym/placement.html](http://math.asu.edu/fym/placement.html).

3. **PHY 105**. For students who have not taken high school Physics. Algebra and Trigonometry are prerequisites.

4. **MAT 265**. Students who are considering enrolling in MAT 265 must take a placement examination. [http://math.asu.edu/fym/placement.html](http://math.asu.edu/fym/placement.html).

5. **CHM 114** requires H.S. Chemistry with A or B grade; CHM 116 requires CHM 113 as a prerequisite.

6. **CEE 100**. H.S. elementary computer usage or CSE 180; Physics and Algebra required.

7. **PHY 121**. H.S. Physics or PHY 105 and MAT 265 as pre-requisites.

8. **Basic Science**. Electives include courses related to civil engineering in: life sciences, earth sciences, advanced chemistry and advanced physics. The CEE Dept. recommends CHM 231.

9. **HU & SB**. Minimum of 6 hours each required for HU and SB; minimum of 15 hours required for HU + SB electives. HU and SB electives need to satisfy the following requirements:
   a. The HU and SB electives must be selected to satisfy the three General Study areas.
   b. Awareness Areas (a minimum of six hours required): Cultural Diversity in the United States (C); Global Awareness (G) and Historical Awareness (H). CEE 400 satisfies H.
   c. A course can satisfy more than one of the Awareness Areas.
   d. At least 1 HU or SB elective must be upper division (UD), i.e., 300-level or above. CEE 400 satisfies UD.
   e. ECN 201 or 211 or 212 (SB) and CEE 400 (HU, H) are required in the CE curriculum.

10. **Design and Technical Courses**. Note that most design and technical courses are offered once a year. Therefore, students are advised to plan ahead to ensure taking all intended courses without delay in graduation. Fall courses are: CEE 440, 467 and 466. Spring courses: 441, 462 and 494.

11. **Technical Electives**: CEE 281, 412, 420, 421, 452, 474, 475, 481, 483, BIO320, BCH361, CHM302, 341, PUP442, 475. Independent Study CEE 499 and 500-level courses are for seniors with a GPA of 3.0 or better, and a petition must be completed. See your academic advisor.

12. **CEE 486**. Required of seniors in their last semester of coursework.

13. **Order of Engineering Courses**: 100-level courses must be completed before taking 200-level courses, 200-level courses must be completed before taking 300-level courses, and 300-level courses must be completed before taking 400-level courses. This order of courses is important not only to satisfy the prerequisite requirements, but also to avoid time conflicts that typically exist among different level courses.

14. **Graduation Requirements**: 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. A maximum of two “D” grades are allowed in all 3XX and 4XX courses combined. The total GPA of all ASU courses must be 2.00 or higher.