Bachelor of Science in Civil Engineering Curriculum

First Year

Fall
- MATH 1451, Calculus I
- ENGL 1301, Essentials of Coll. Rhetoric
- HIST 2300, U.S. History to 1877
- CE 1130, Civil Engineering Seminar I
- CHEM 1107, Principles of Chemistry I
- CHEM 1107, Exp. Principles of Chem. II

Spring
- MATH 1452, Calculus II
- ENGL 1302, Advanced College Rhetoric
- ENGR 1315, Intro. to Engineering
- PHYS 1408, Principles of Physics I
- CHEM 1308, Principles of Chemistry II
- CHEM 1108, Exp. Principles of Chem. II

Total Hours: 17

Second Year

Fall
- MATH 2450, Calculus III
- ECE 3301, Gen. Electrical Engineering*§
- CE 2301, Statics
- CONE 2302, Surveying
- POLS 1101, American Govt., Org.
- CE 2101, Construction Materials Lab.

Spring
- MATH 3350, Math. for Engr. & Sci. I
- ENGR 2324, Engr. Economic Analysis
- CE 3302, Mechanics of Solids
- CONE 3305, Mechanics of Fluids
- Statistics §
- CE 3301, Construction Materials Lab.

Total Hours: 17

Third Year

Fall
- CE 3440, Structural Analysis I
- CE 3354, Intro. to Hydrology
- CE 3390, Environmental Eng. I
- CE 3441, Transport Engineering
- CE 3103, Mechanics of Fluids Lab.
- CE 3103, Mechanics of Solids Lab.
- HIST 2301, U.S. History Since 1877

Spring
- CE 3442, Fluids and Flow in Pipes
- CE 3341, Prob. of Structural Design
- CE 3302, Mechanics of Solids
- CE 3321, Geotechnical Engineering Lab.
- CE 2302, American Public Policy

Total Hours: 16

Fourth Year

Fall
- CE 4343, Design of Concrete Structures
- Creative Arts ‡
- Elective (Design) §
- CE 4361, Transport. Engineering
- Oral Communication §
- CE 4200, Prof. Engineering Practice II

Spring
- CE 4103, Design of Steel Structures
- Creative Arts ‡
- Elective (Design) §
- CE 4301, Fund. of Engr. Exam Review
- Oral Communication §
- CE 4301, Fund. of Engr. Exam Review

Total Hours: 16

TOTAL HOURS: 129

‡ Choose from the university's core curriculum.
† Fulfill core Social and Behavioral Sciences requirement.
§ Fulfill core Language, Philosophy, and Culture requirement.
** Basic Science Elective—GIST 3300; GEOL 1301, 3428; ATM0 1300; PSS 2330; BIDL 1305, 1401, 1402, 1403.

Bachelor of Science in Construction Engineering Curriculum

First Year

Fall
- ENGL 1301, Essentials of Coll. Rhetoric
- MATH 1451, Calculus I
- CHEM 1307, Principles of Chemistry I
- ENGR 1315, Intro. to Engineering
- POLS 1101, American Govt. Org.

Spring
- MATH 1452, Calculus II
- ENGL 1302, Advanced College Rhetoric
- PHYS 1408, Principles of Physics I
- ENGR 1327, Engr. Graphics: Software B
- POLS 1101, American Govt. Org.

Total Hours: 15

Second Year

Fall
- MATH 2450, Calculus III
- GEOL 1303/1101 or BIOL 1305/1113
- CE 2301, Statics
- CONE 2302, Surveying
- HIST 2301, History of U.S. to 1877

Spring
- MATH 3350, Math. for Engr. & Sci. I
- ENGR 2301, Constr. Meth. & Blueprint
- CE 3305, Mechanics of Fluids
- CE 3101, Construction Materials Lab.
- Oral Communication*

Total Hours: 16

Third Year

Fall
- CONE 3312, Constr. Found. & Earthwork
- CE 3321, Geotechnical Eng. Lab.
- ECE 3301, Geotechnical Eng. Lab.
- CONE 4320, Construction Cost Est.
- IE 2324, Engineering Econ. Analysis

Spring
- CONE 3311, Constr. Consts. & Principles
- CONE 3300, Construction Safety
- CONE 4322, Construction Management
- IE 2324, Engineering Econ. Analysis

Total Hours: 15

Fourth Year

Fall
- CONE 4310, Construction Internship
- CONE 4310, Constr. Steel Structures
- HIST 2301, History of U.S. Since 1877
- ENGR 2392, Engineering Ethics
- POLS 2302, American Public Policy
- CONE 4310, Constr. Misc. & Principles
- IE 3325, Management Systems Control
- Creative Arts*
- POLS 2302, American Public Policy

Spring
- CONE 4301, Constr. Cost Est. & Constr. Management
- CONE 3310, Constr. Cost Est. & Constr. Management
- IE 3325, Management Systems Control
- Creative Arts*
- Oral Communication

Total Hours: 17

TOTAL HOURS: 128

* Choose from the university’s core curriculum.
† Fulfill core Social and Behavioral Sciences requirement.
‡ Fulfill core Language, Philosophy, and Culture requirement.
§ Advisor approval required.

Note: When choosing a Creative Arts elective, choose a course that also fulfills the university’s multicultural requirement.

3301. Statics (3). Prerequisites: MATH 1452, PHY 1408 (may be taken concurrently) and either CE 2301 or ME 2301. A study of moments of particles and rigid bodies.

3302. Mechanics of Solids (3). Prerequisite: CE 2301 or ME 2301. Theory of stress and strain in elastic and inelastic bodies subject to various conditions of loading.

3303. Mechanics of Fluids (3). Prerequisite: CE 2301 or ME 2301. Hydrostatics; dynamics of viscous and nonviscous fluids; resistance to flow; flow in pipes and open channels.


3321. Introduction to Geotechnical Engineering (3). Prerequisite: CE 3303. Physical properties of soils; theories of soil strength, consolidat-