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VISION STATEMENT: Pursuit of excellence in preparing engineers to provide innovative solutions to the world’s challenges in sustaining the environment and the infrastructure.

MISSION STATEMENT: Provide high quality education in engineering and leadership, life-long learning opportunities, and innovation for the benefit of the State of Utah and the world.
### FRESHMAN
- **Fall (17 hrs)**
  - CVEEN 1000: Intro to Civil & Environmental Engineering 4
  - MATH 1050 (or 1060) or MATH 1080 4
  - MATH 1310 4
  - PHYS 2210: Physics for Sci & Engineers I 4
  - CHEM 1210: Gen Chemistry I 4
  - CHEM 1215: Gen Chemistry I Lab 1
  - GEO 1110: Intro Earth Systems 3
  - WRTG 1010: Intermediate Writing 3

- **Spring (16 hrs)**
  - CVEEN 1400: Computer-Aided Design 3
  - MATH 1310: Engineering Calculus I (QR) 4
  - MG EN 2400: Surveying 3
  - CHEM 1215: Gen Chemistry I Lab 1
  - GEO 1115: Microeconomics (BF) 3

### SOPHOMORE
- **Fall (14 hrs)**
  - CVEEN 1400 3
  - MATH 1310: Engineering Calculus I (QR) 4
  - CHEM 1215: Gen Chemistry I Lab 1
  - GEO 1115: Microeconomics (BF) 3
  - WRTG 1010: Intermediate Writing 3

- **Spring (15 hrs)**
  - CVEEN 2000: Seminar 3
  - MATH 1310: Engineering Calculus I (QR) 4
  - CHEM 1215: Gen Chemistry I Lab 1
  - GEO 1115: Microeconomics (BF) 3
  - WRTG 1010: Intermediate Writing 3

### JUNIOR
- **Fall (15 hrs)**
  - CVEEN 2010: Strength of Materials 3
  - MATH 1310: Engineering Calculus I (QR) 4
  - CHEM 1215: Gen Chemistry I Lab 1
  - GEO 1115: Microeconomics (BF) 3

- **Spring (15 hrs)**
  - CVEEN 2140: Structural Loads & Analysis (WI) 3
  - MATH 1310: Engineering Calculus I (QR) 4
  - CHEM 1215: Gen Chemistry I Lab 1
  - GEO 1115: Microeconomics (BF) 3

### SENIOR
- **Fall (15 hrs)**
  - CVEEN 3210: Materials 3
  - MATH 1310: Engineering Calculus I (QR) 4
  - CHEM 1215: Gen Chemistry I Lab 1
  - GEO 1115: Microeconomics (BF) 3

- **Spring (15 hrs)**
  - CVEEN 3700: Construction 3
  - MATH 1310: Engineering Calculus I (QR) 4
  - CHEM 1215: Gen Chemistry I Lab 1
  - GEO 1115: Microeconomics (BF) 3

### General Education Requirement
- **Fall (17 hrs)**
  - General Ed. Requirement 3

- **Spring (16 hrs)**
  - General Ed. Requirement/DV 3

### Recommended General Education Courses
- LEAP 1501: Social & Ethical Engineering (BF) - Fall only
- LEAP 1500: Humanities for Engineers (HFDV) - Spring only
TECHNICAL ELECTIVE COURSES

Students must complete three technical elective courses.

To graduate with a Bachelor of Science Degree in Construction Engineering you must:

1. Complete at least one course from the Primary section.
2. Complete at least one Design course from the Secondary Section. These are designated by a shaded box. Example: CVEEN 5510
   As long as these requirements are satisfied, you may take the remaining one technical elective from either section.

**PRIMARY TECHNICAL ELECTIVES**

- CVEEN 5710: Cost Estimation & Proposal Writing
  - F 18/20: 3
  - SP 18/20: 3
- CVEEN 5750: Engineering Law & Contracts
  - SU 20/22: 3

**SECONDARY TECHNICAL ELECTIVES**

**Structures**
- CVEEN 3210: Steel I
  - SP: 3
- CVEEN 4222: Steel I
  - SP: 3
- CVEEN 5240: Reinforced Timber/Masonry
  - F: 3

**Transportation**
- CVEEN 3510 & 3515: Highway Design
  - SP: 3

**Geotech & Materials**
- CVEEN 5510: Introduction to Foundations
  - F: 3
- CVEEN 5305: Intensive Materials & Construction
  - F: 3

**Architecture**
- ARCH 6371: Intensive Materials & Construction
  - F: 3

**Other**
- ENGIN 5790: Business of Entrepreneurship
  - F: 3

Caveat: Semester availability is subject to change at the discretion of the department and does not create a binding contractual nexus or obligation between the student and the University of Utah.
Math and Science Accreditation Hour Requirements
All students must complete a minimum of 32 credit hours of math and science courses. If students do not meet this requirement, they will need to take additional math and science courses to meet the required hours.

Courses Outside the University of Utah
Upper division courses used to fulfill the Department requirements for graduation, must be taken at the University of Utah. Variances to this policy must be approved prior to enrolling in the course.

Course Grade Requirements
In order to progress within the program and graduate, the Department requires the following grades:

A grade of “C” or higher must be met for the following courses:

- All Mathematics (MATH 1210/1310, 1220/1320, 2210, 2250)
- All Chemistry (CHEM 1210, 1215, 1220, 1225)
- All Physics (PHYS 2210, 2215, 2220, 2225)
- CVEEN 2010, 2140, 2300, and 2310

For all other CVEEN courses, a grade of “C-“ or higher is required.

GPA and Engineering GPA
The University requires all students to maintain a cumulative GPA of 2.00 or higher. The Department requires all students to maintain an engineering GPA (EGPA) of 2.50 or higher. Engineering GPA is defined as courses counted towards the major with the exception of the following:

- All general education courses (e.g., LEAP 1500/1501)
- All seminars (e.g., CVEEN 1000/2000)

For repeated EGPA courses, the second letter grade received will be counted as the official grade for the EGPA calculation. Please see the policy on repeated courses.

Repeat Policy
A student can take an engineering GPA (EGPA) course for grade only twice at the University. Students withdrawing from an EGPA course are allowed three attempts, including the withdrawal. Any student who takes a required class twice and does not have a satisfactory grade the second time, will be removed from major status and will not be allowed to take any new CVEEN classes until they meet with an academic advisor, develop a plan, and petition the Undergraduate Committee requesting that a third
attempt at the class be allowed. Transfer students who have failed a class twice or more at another institution must meet with their academic advisor before registering for classes and file a petition to the Undergraduate Committee. In all cases, the Undergraduate Committee, after reviewing the petition and other relevant facts, shall make the final decision to allow or not allow the further attempt and shall communicate that decision to the student in writing.

When retaking an EGPA course, if the course was taken at the University of Utah, it must be retaken at the University of Utah. For example, students cannot count a grade obtained in a class taken at another institution to replace a low grade obtained in a class previously taken at the University of Utah.

**Academic Probation**

A student who fails to maintain an engineering grade point average (EGPA) of 2.50 or higher will be removed from major status and will be placed on academic probation. While on probation, students will not be allowed to take any new CVEEN classes and will have three consecutive semesters to retake courses or take additional non-CVEEN courses to bring their EGPA to 2.50 or higher. While on academic probation, the student will meet with an academic advisor at the end of every semester to review their progress. If after the three semesters (e.g., fall, spring, summer), the student fails to raise their EGPA to 2.50 or higher, their progress will be evaluated by the Undergraduate Committee and, if no progress is shown, the student will be dismissed from the program. Students that have been placed on probation for more than 3 semesters, even if non-consecutive, will also be evaluated by the Undergraduate Committee to determine if they should be allowed to remain in the program.

A student who fails to maintain a cumulative grade point average of 2.00 or higher will also be on probation with the Department.