

F INDICATES COURSE IS OFFERED FALL SEMESTER  
 S INDICATES COURSE IS OFFERED SPRING SEMESTER  
 Su INDICATES COURSE IS OFFERED SUMMER SEMESTER  
 (L) INDICATES A COURSE WHICH INCLUDES A LAB  
 MUST BE SCHEDULED IN ADDITION TO THE LECTURE

# CIVIL ENGINEERING FLOWCHART

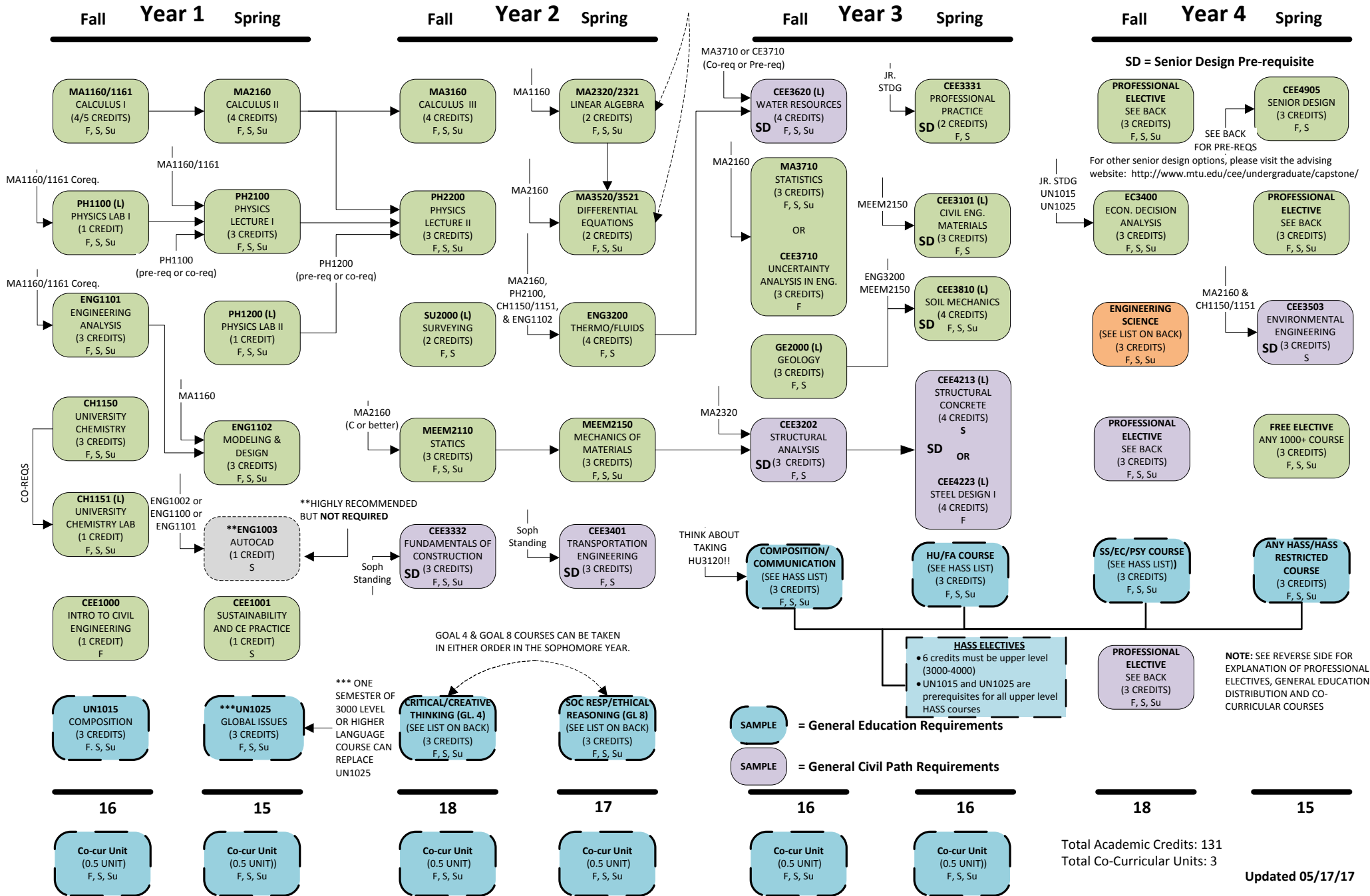
## General

### Academic Year 2017-18



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 Adjustments may be required due to curriculum changes.

NOTE: LINEAR ALGEBRA & DIFFERENTIAL EQUATIONS CAN BE TAKEN DURING THE SAME SEMESTER (MA2321 & MA3521) OR SEPARATE SEMESTERS (MA2320 & MA3520)



### Engineering Science Elective List (3 credits)

BE2700	BIOMEDICAL SIGNALS & SYSTEMS
CM2110	FUND. OF CHEM ENGRG 1
CM2200	INTRO TO MINERALS AND MATERIALS
EE3010	CIRCUITS AND INSTRUMENTATION
MY2100	INTRO TO MATERIALS SCI & ENGRG
MEEM2201	THERMODYNAMICS
MEEM2700	DYNAMICS

### Senior Design (SD) Pre-reqs (complete 7 of the following)

CEE3101, CEE3202, CEE3331,  
CEE3332, CEE3401, CEE3503,  
CEE3620, CEE3810, CEE4213 or  
CEE4223

**UNDERGRADUATE CATALOG:** <http://www.mtu.edu/catalog/undergraduate/course-descriptions/>  
**GENERAL EDUCATION:** <http://www.mtu.edu/provost/academic-policies/general-education/programs/>  
**CO-CURRICULAR LIST & HASS LIST:** <http://www.mtu.edu/registrar/faculty-staff/advisors/gen-ed/>

### Professional Electives

**(UNDERGRADUATE CATALOG: <http://www.mtu.edu/catalog/undergraduate/course-descriptions/>)**

- ANY 3000 OR HIGHER LEVEL COURSE IN CIVIL AND ENVIRONMENTAL ENGINEERING OR IN ANY OTHER ENGINEERING DEPARTMENT
  - \* AN OVERALL GPA OF 3.00 IS REQUIRED TO TAKE GRADUATE LEVEL COURSES (5000 LEVEL)
  - \* A MAXIMUM OF TWO (2) GRADUATE LEVEL COURSES MAY BE USED TOWARD YOUR BSCE DEGREE
- ANY 3000 OR HIGHER LEVEL COURSE IN BIOLOGY, CHEMISTRY, COMPUTER SCIENCE, CONSTRUCTION MANAGEMENT, GEOLOGY, FORESTRY, OR PHYSICS
- ANY 3000 OR HIGHER LEVEL COURSE IN MATHEMATICS
- ANY 3000 OR HIGHER LEVEL COURSE IN BUSINESS OR ECONOMICS. (ACC, BUS, EC, FIN, MGT, MIS, MKT, OSM)
- ANY 2000 OR HIGHER LEVEL COURSE IN SURVEYING
- HU3120 – TECHNICAL AND PROFESSIONAL COMMUNICATION

NOTE: OTHER COURSES MAY BE USED TO SATISFY THE PROFESSIONAL ELECTIVES REQUIREMENT IF APPROVED BY THE DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING ACADEMIC ADVISOR.

### GENERAL EDUCATION REQUIREMENTS

#### A. CORE COURSES (12 CREDITS)

1. **UN1015** (COMPOSITION)
2. **UN1025** (GLOBAL ISSUES)
3. CRITICAL AND CREATIVE THINKING (**Goal 4**) \*
4. SOCIAL RESPONSIBILITY AND ETHICAL REASONING

(Goal 8) \*\*

#### \*GOAL 4 LIST

FA2330  
FA2520  
FA2720  
FA2820  
HU2130  
HU2324  
HU2501  
HU2503  
HU2538  
HU2700  
HU2820  
HU2910  
SS2300

#### \*\*GOAL 8 LIST

EC2001  
ED2000  
PSY2000  
SS2100  
SS2200  
SS2400  
SS2500  
SS2501  
SS2502  
SS2503  
SS2504  
SS2505  
SS2600  
SS2610  
SS2700

#### B. HASS COURSES (12 CREDITS) (General Ed Website, left)

1. COMMUNICATION/COMP (HASS LIST)  
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  2. HU OR FA COURSE (HASS LIST)  
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  3. SS OR EC OR PSY COURSE (HASS LIST)  
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  4. ANY HASS OR HASS RESTRICTED COURSE (HASS LIST)  
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- 6 credits must be upper division 3000-4000 level courses
  - No more than 3 credits from the HASS Restricted list can be used to satisfy HASS requirements.
  - Each course can satisfy only one requirement.

#### C. CO-CURRICULAR ACTIVITIES (3 UNITS)

PE/FA/AR/AF \_\_\_\_\_  
PE/FA/AR/AF \_\_\_\_\_  
PE/FA/AR/AF \_\_\_\_\_

PE/FA/AR/AF \_\_\_\_\_  
PE/FA/AR/AF \_\_\_\_\_  
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# CIVIL ENGINEERING FLOWCHART

## Water Resources

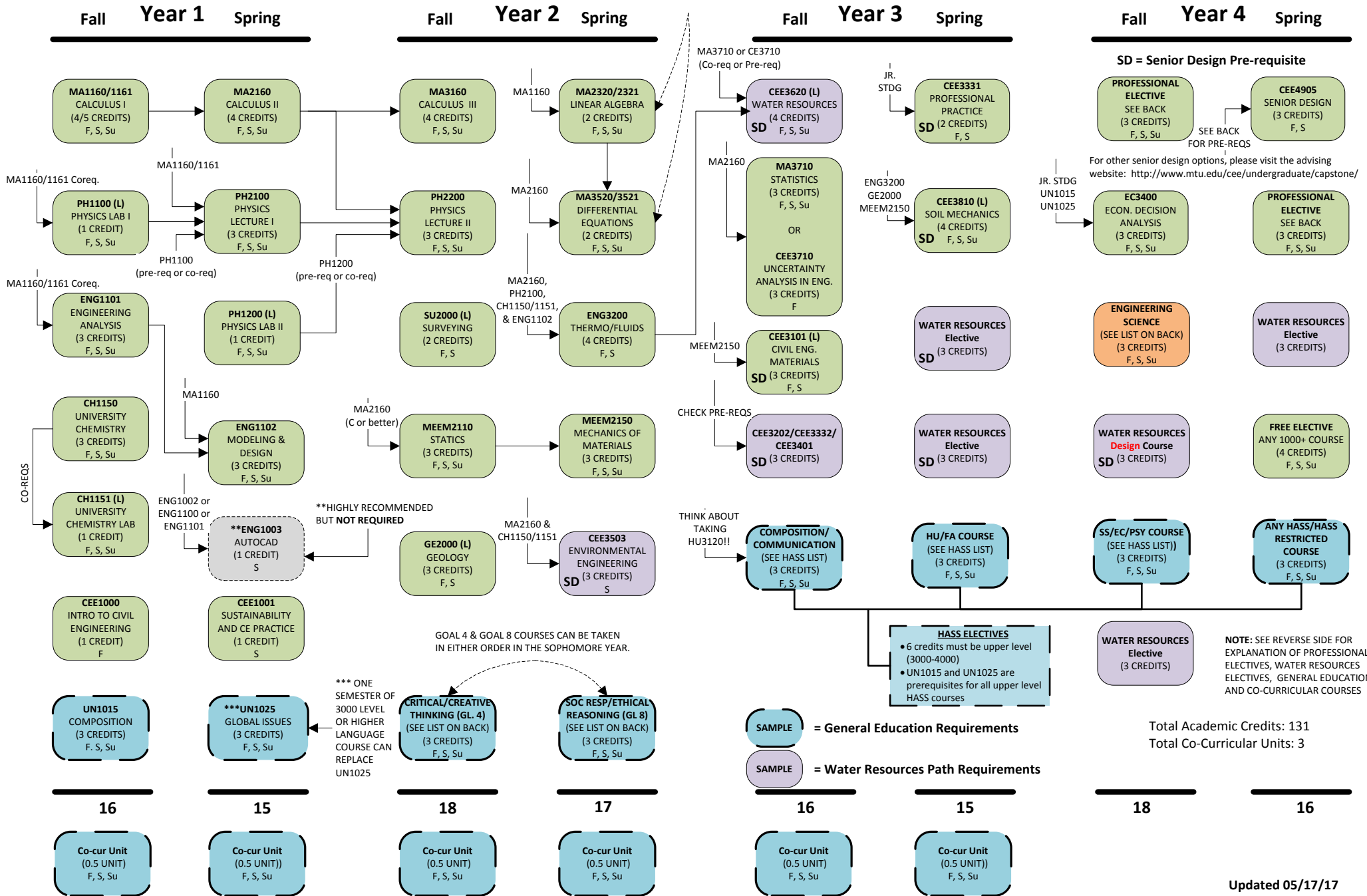
### Academic Year 2017-18



Michigan Tech

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## Water Resources Requirements

Choose 1 course from the following

CEE3202	STRUCTURAL ANALYSIS	F, Sp	3 cr.
CEE3332	FUND. OF CONSTRUCTION	F, Sp	3 cr.
CEE3401	TRANSPORTATION ENGRG	F, Sp	3 cr.

### WATER RESOURCES DESIGN COURSE (select 1)

CEE4620	RIVER/FLOODPLAIN HYDRAULICS	Fall	3 cr.
CEE4640	STORMWATER MANAGE. & LID	Su	3 cr.
CEE4665	STREAM RESTORATION	Spring	3 cr.

### WATER RESOURCES ELECTIVES (select 4)

CEE4502	WASTE TREATMENT	Fall	3 cr.
CEE4503	WATER TREATMENT	Spring	3 cr.
CEE4505	SURFACE WATER QUALITY	Fall	3 cr.
CEE4507	WATER DISTRIBUTION/COLLECT.	Spring	3 cr.
CEE4620	RIVER/FLOODPLAIN HYDRAULICS	Fall	3 cr.
CEE4640	STORMWATER MANAGE. & LID	Su	3 cr.
CEE4665	STREAM RESTORATION	Spring	3 cr.
CEE5620	STOCHASTIC HYDROLOGY	Spring	3 cr.
CEE5666	WR PLANNING & MANAGEMENT	Var.	3 cr.
GE3850	GEOHYDROLOGY	F, Sp	3 cr.
GE4800	GROUNDWATER ENGRG	Spring	3 cr.

## Senior Design (SD) Pre-reqs (complete 7 of the following)

CEE3101, CEE3331, (CEE3202 or CEE3332 or CEE3401), CEE3620, CEE3810, CEE3503, WATER RESOURCES DESIGN COURSE, & 2 WATER RESOURCES ELECTIVES

## Engineering Science Elective List (3 credits)

BE2700	BIOMEDICAL SIGNALS & SYSTEMS
CM2110	FUND. OF CHEM ENGRG 1
CM2200	INTRO TO MINERALS & MATERIALS
EE3010	CIRCUITS AND INSTRUMENTATION
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- HU3120 – TECHNICAL AND PROFESSIONAL COMMUNICATION

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## GENERAL EDUCATION REQUIREMENTS

### A. CORE COURSES (12 CREDITS)

1. UN1015 (COMPOSITION)
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3. CRITICAL AND CREATIVE THINKING (Goal 4) \*
4. SOCIAL RESPONSIBILITY AND ETHICAL REASONING (Goal 8) \*\*

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FA2720  
FA2820  
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HU2324  
HU2501  
HU2503  
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HU2700  
HU2820  
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SS2400  
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### C. CO-CURRICULAR ACTIVITIES (3 UNITS)

PE/FA/AR/AF \_\_\_\_\_  
PE/FA/AR/AF \_\_\_\_\_  
PE/FA/AR/AF \_\_\_\_\_

PE/FA/AR/AF \_\_\_\_\_  
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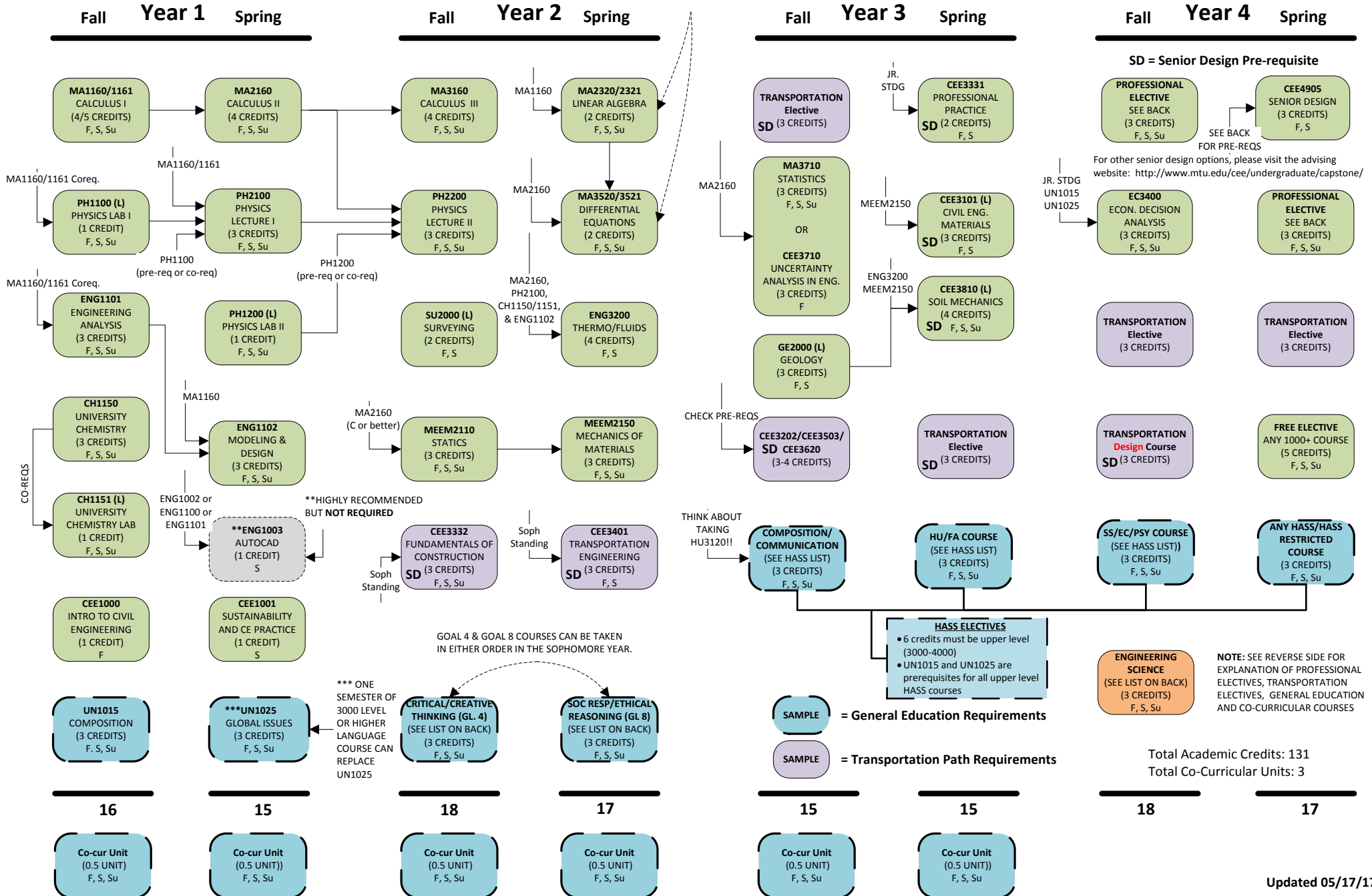
# CIVIL ENGINEERING FLOWCHART



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## Transportation Academic Year 2017-18

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 MA3521) OR SEPARATE SEMESTERS (MA2320 & MA3520)



## Transportation Requirements

Choose 1 course from the following

<b>CEE3202</b>	<b>STRUCTURAL ANALYSIS</b>	<b>F, Sp</b>	<b>3 cr.</b>
<b>CEE3503</b>	<b>ENVIRONMENTAL ENG.</b>	<b>Sp</b>	<b>3 cr.</b>
<b>CEE3620</b>	<b>WATER RESOURCES ENG</b>	<b>F, Sp, Su</b>	<b>3 cr.</b>

### TRANSPORTATION DESIGN COURSE (Select 1)

<b>CEE4401</b>	<b>PAVEMENT DESIGN</b>	<b>Fall</b>	<b>3 cr.</b>
<b>CEE4407</b>	<b>TRANSPORTATION DESIGN</b>	<b>Spring</b>	<b>3 cr.</b>

### TRANSPORTATION ELECTIVES (select 4)

<b>CEE4333</b>	<b>ESTIMATING, PLAN., CONST.</b>	<b>Fall</b>	<b>3 cr.</b>
<b>CEE4344</b>	<b>CONSTRUCTION SCHEDULING</b>	<b>Spring</b>	<b>3 cr.</b>
<b>CEE4401</b>	<b>PAVEMENT DESIGN</b>	<b>Fall</b>	<b>3 cr.</b>
<b>CEE4402</b>	<b>TRAFFIC ENGINEERING</b>	<b>Fall</b>	<b>3 cr.</b>
<b>*CEE4404</b>	<b>RAILROAD ENGINEERING</b>	<b>Fall</b>	<b>3 cr.</b>
(*pre-req is CEE3490 – 1 cr, Offered in the spring)			
<b>CEE4406</b>	<b>AIRPORT PLANNING</b>	<b>Spring</b>	<b>3 cr.</b>
<b>CEE4407</b>	<b>TRANSPORTATION DESIGN</b>	<b>Spring</b>	<b>3 cr.</b>
<b>CEE4410</b>	<b>TRANSPORTATION PLANNING</b>	<b>Fall</b>	<b>3 cr.</b>

## Senior Design (SD) Pre-reqs (complete 7 of the following)

CEE3101, (CEE3202 or CEE3503 or CEE3620),  
CEE3331, CEE3332, CEE3401, CEE3810  
TRANSPORTATION DESIGN COURSE, & 2  
TRANSPORTATION ELECTIVES

## Engineering Science Elective List (3 credits)

BE2700	BIOMEDICAL SIGNALS & SYSTEMS
CM2110	FUND. OF CHEM ENGRG 1
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## GENERAL EDUCATION REQUIREMENTS

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2. **UN1025** (GLOBAL ISSUES)
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4. **SOCIAL RESPONSIBILITY & ETHICAL REASONING (Goal 8) \*\***

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FA2720  
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### C. CO-CURRICULAR ACTIVITIES (3 UNITS)

PE/FA/AR/AF \_\_\_\_\_  
PE/FA/AR/AF \_\_\_\_\_  
PE/FA/AR/AF \_\_\_\_\_

PE/FA/AR/AF \_\_\_\_\_  
PE/FA/AR/AF \_\_\_\_\_  
PE/FA/AR/AF \_\_\_\_\_

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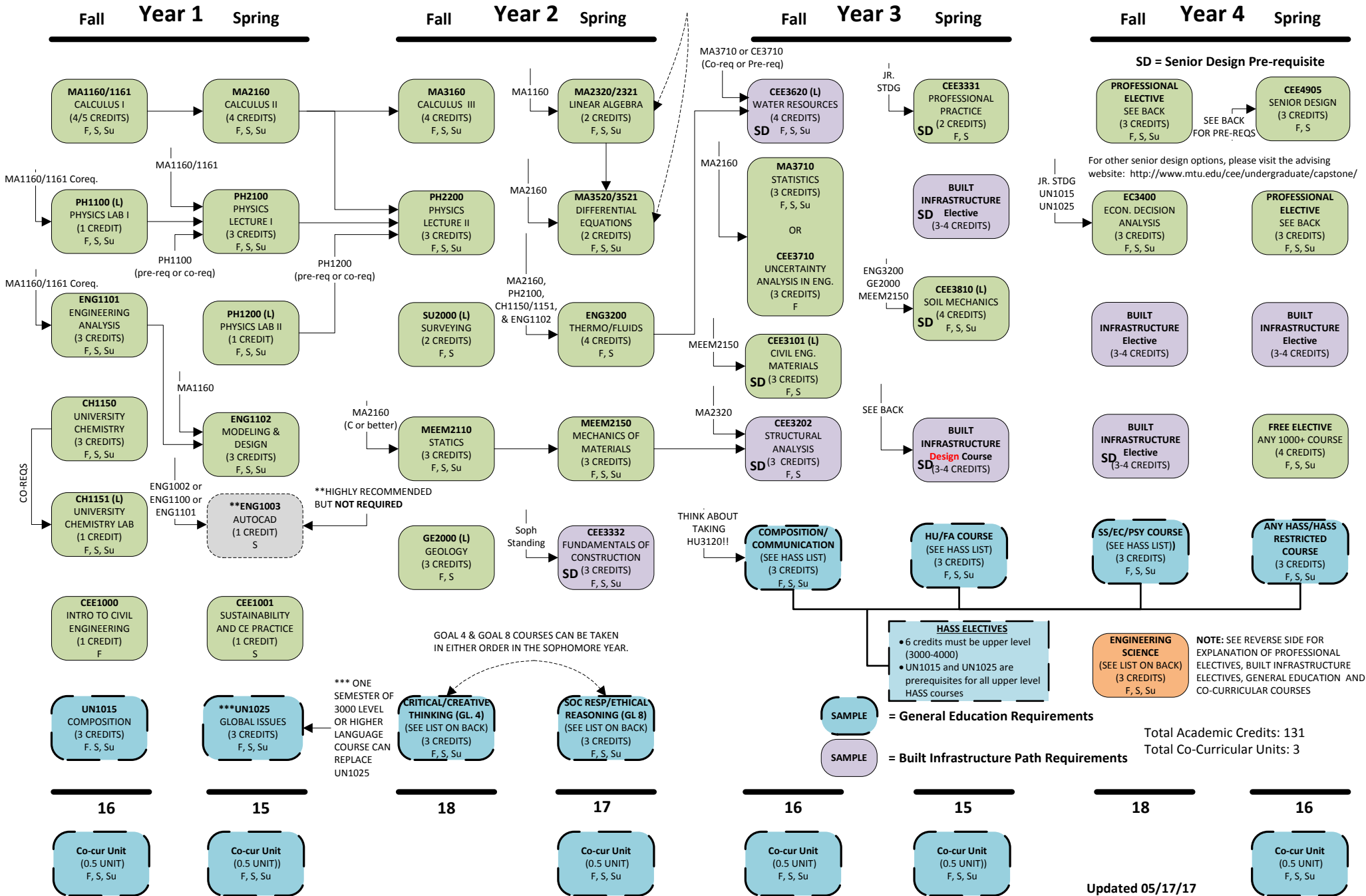
# CIVIL ENGINEERING FLOWCHART



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## Built Infrastructure Academic Year 2017-18

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## Built Infrastructure Requirements

### BUILT INFRASTRUCTURE DESIGN COURSE (select 1)

CEE4213	STRUCTURAL CONCRETE DESIGN	Spring	4 cr.
CEE4223	STEEL DESIGN 1	Fall	4 cr.
CEE4820	FOUNDATION ENGINEERING	Fall	3 cr.

### BUILT INFRASTRUCTURE ELECTIVES (select 4)

CEE4020	COMPUTER APPLICATIONS	Fall	3 cr.
CEE4201	MATRIX STRUCTURAL ANALYSIS	Fall	3 cr.
CEE4213	STRUCTURAL CONCRETE DESIGN	Spring	4 cr.
CEE4223	STEEL DESIGN 1	Fall	4 cr.
CEE4233	STRUCTURAL TIMBER DESIGN	Spring	3 cr.
CEE4244	LOADS FOR CIVIL STRUCTURES	Spring	3 cr.
CEE4333	ESTIMATING, PLANNING, CONST.	Fall	3 cr.
CEE4344	CONSTRUCTION SCHEDULING	Spring	3 cr.
CEE4820	FOUNDATION ENGINEERING	Fall	3 cr.
CEE4830	GEOSYNTHETICS	Spring	3 cr.
CEE4850	ROCK ENGINEERING	Spring	3 cr.
CEE5212	PRESTRESSED CONCRETE DESIGN	Fall	3 cr.
CEE5213	CONCRETE/MASONRY BLDG SYS	Fall	3 cr.

### Senior Design (SD) Pre-reqs (complete 7 of the following)

CEE3101, CEE3331, CEE3332, CEE3202,  
CEE3620, CEE3810, BUILT INFRASTRUCTURE  
DESIGN COURSE, & 2 BUILT INFRASTRUCTURE  
ELECTIVES

### Engineering Science Elective List (3 credits)

BE2700	BIOMEDICAL SIGNALS & SYSTEMS
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### C. CO-CURRICULAR ACTIVITIES (3 UNITS)

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PE/FA/AR/AF \_\_\_\_\_  
PE/FA/AR/AF \_\_\_\_\_

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