

# CIVIL ENGINEERING FLOWCHART

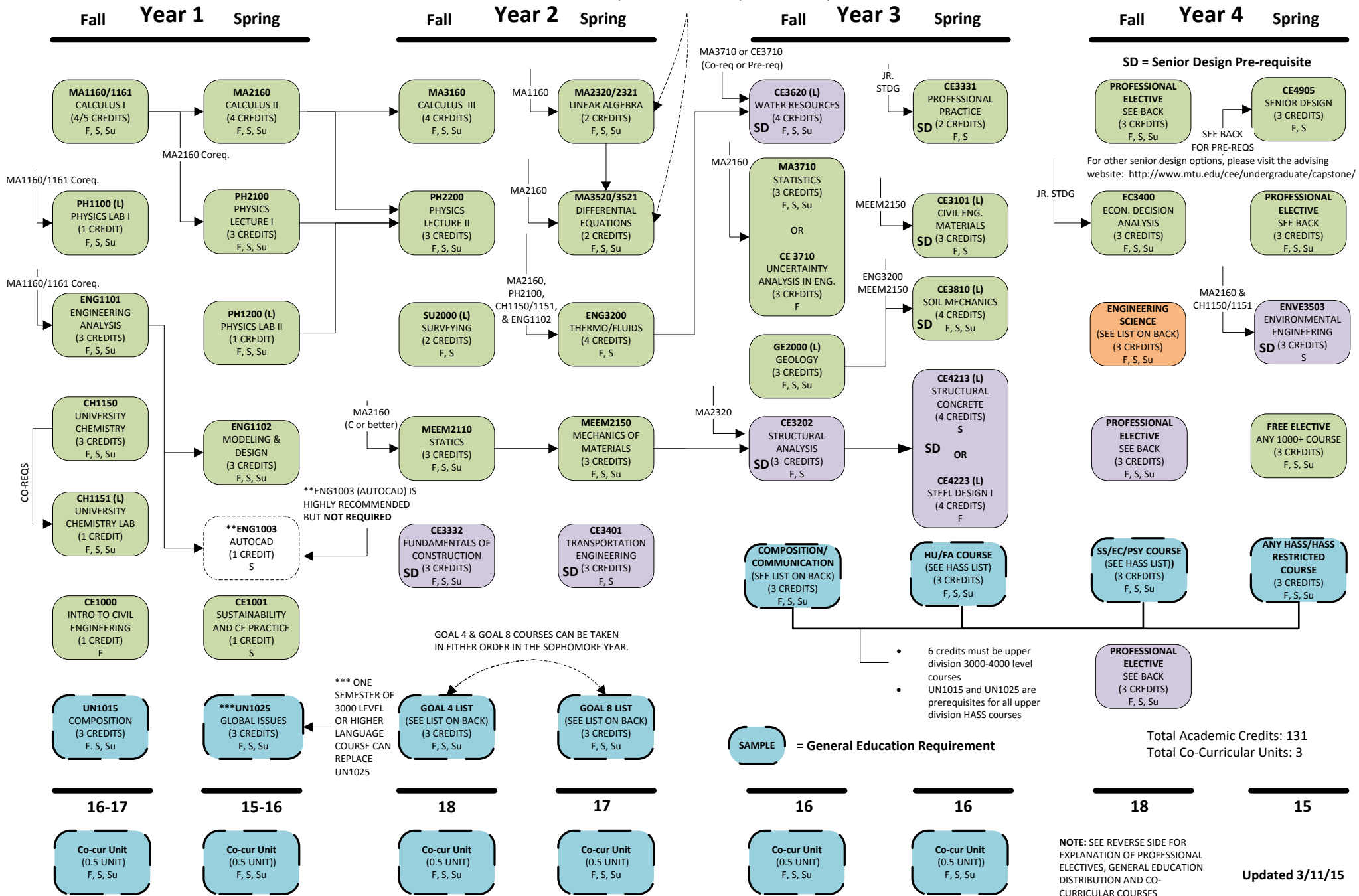
## General

### Academic Year 2015-16

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Adjustments may be required due to curriculum changes.

- 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

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
SSE3730	SYSTEMS DYNAMICS AND DESIGN

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

CE3101, CE3202, CE3331, CE3332,  
CE3401, CE3620, CE3810,  
ENVE3503, CE4213 or CE4223

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

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**CO-CURRICULAR 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, 4000, OR 5000 LEVEL COURSE IN CIVIL AND ENVIRONMENTAL ENGINEERING.
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  - \* A MAXIMUM OF TWO (2) GRADUATE LEVEL COURSES MAY BE USED TOWARD YOUR BSCE DEGREE
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- ANY 2000 OR HIGHER LEVEL COURSE IN SURVEYING

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. **GOAL 4** (CRITICAL AND CREATIVE THINKING) \*
4. **GOAL 8** (SOCIAL RESPONSIBILITY AND ETHICAL REASONING) \*\*

#### **\*GOAL 4 LIST**

FA2330  
FA2520  
FA2720  
FA2820  
HU2130  
HU2503  
HU2504  
HU2538  
HU2700  
HU2820  
HU2910  
SS2300

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SS2504  
SS2505  
SS2600  
SS2601  
SS2700

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

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

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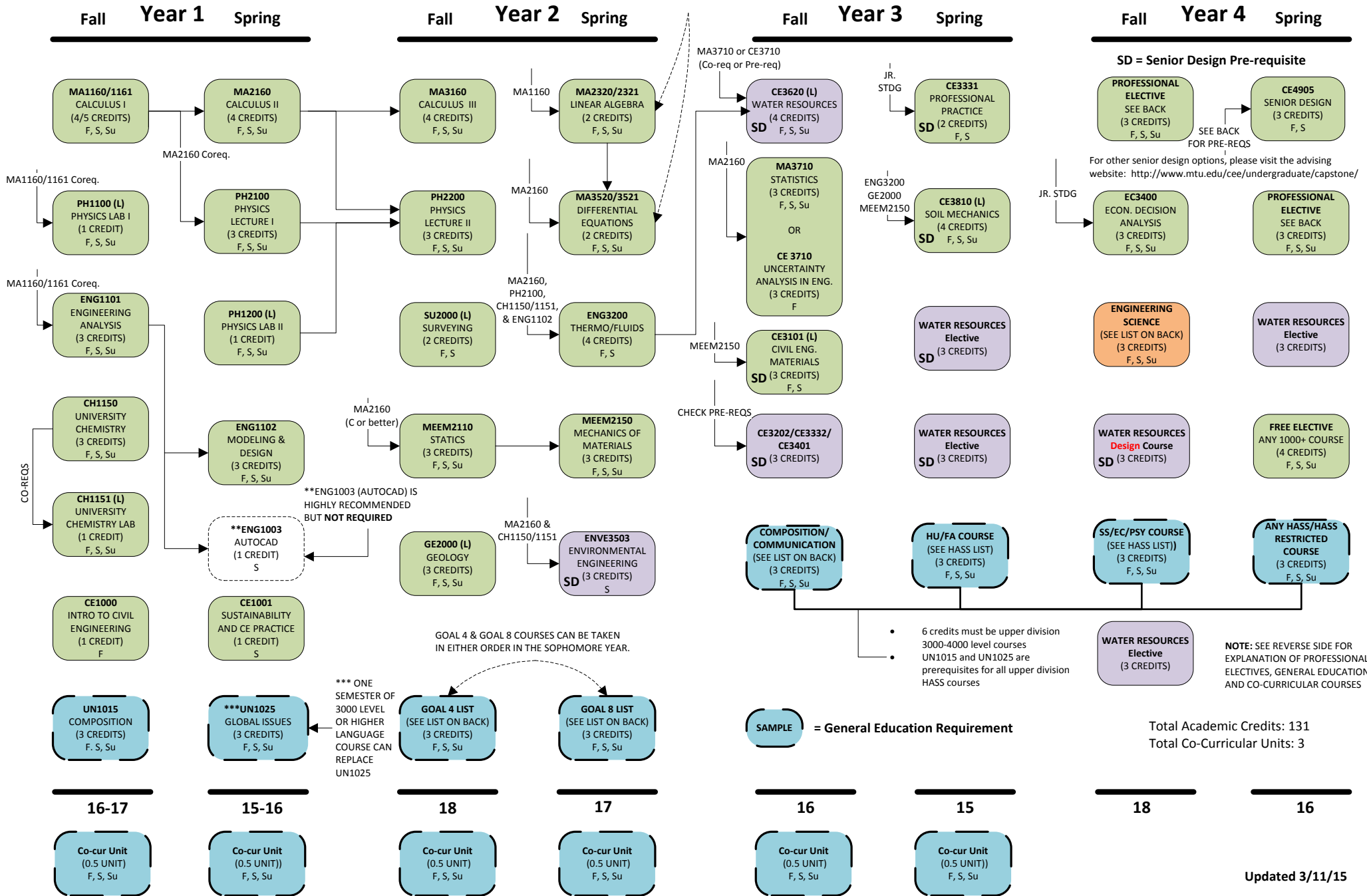
## Water Resources

### Academic Year 2015-16

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## Water Resource Requirements

Choose 1 course from the following

<b>CE3202</b>	<b>STRUCTURAL ANALYSIS</b>	<b>3 credits</b>
<b>CE3332</b>	<b>FUND. OF CONSTRUCTION</b>	<b>3 credits</b>
<b>CE3401</b>	<b>TRANSPORTATION ENGRG</b>	<b>3 credits</b>

### WATER RESOURCES DESIGN COURSE (select 1)

<b>CE4620</b>	<b>RIVER/FLOODPLAIN HYDRAULICS</b>	<b>3 credits</b>
<b>CE4640</b>	<b>STORMWATER MANAGE. &amp; LID</b>	<b>3 credits</b>
<b>CE4665</b>	<b>STREAM RESTORATION</b>	<b>3 credits</b>

### WATER RESOURCES ELECTIVES (select 4)

<b>CE4620</b>	<b>RIVER/FLOODPLAIN HYDRAULICS</b>	<b>3 credits</b>
<b>CE4640</b>	<b>STORMWATER MANAGE. &amp; LID</b>	<b>3 credits</b>
<b>CE4665</b>	<b>STREAM RESTORATION</b>	<b>3 credits</b>
<b>CE5620</b>	<b>STOCHASTIC HYDROLOGY</b>	<b>3 credits</b>
<b>CE5666</b>	<b>WR PLANNING &amp; MANAGEMENT</b>	<b>3 credits</b>
<b>ENVE4502</b>	<b>WASTE TREATMENT</b>	<b>3 credits</b>
<b>ENVE4503</b>	<b>WATER TREATMENT</b>	<b>3 credits</b>
<b>ENVE4505</b>	<b>SURFACE WATER QUALITY</b>	<b>3 credits</b>
<b>ENVE4507</b>	<b>WATER DISTRIBUTION/COLLECT.</b>	<b>3 credits</b>
<b>GE3850</b>	<b>GEOHYDROLOGY</b>	<b>3 credits</b>
<b>GE4800</b>	<b>GROUNDWATER ENGRG</b>	<b>3 credits</b>

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

CE3101, CE3331, (CE3202 or CE3332 or CE3401),  
CE3620, CE3810, ENVE3503, 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
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PE/FA/AR/AF \_\_\_\_\_  
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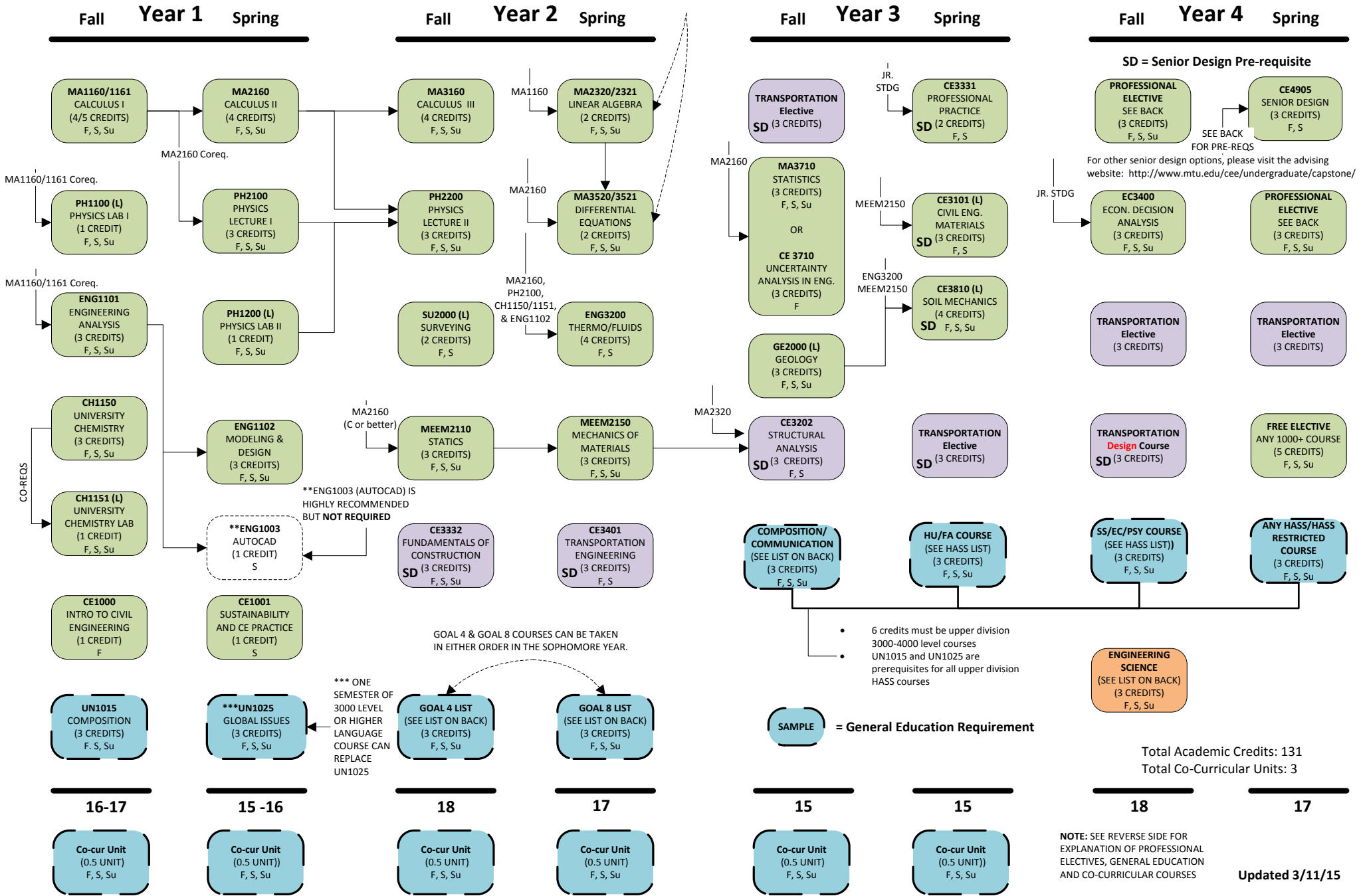
## Transportation

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## Transportation

### **TRANSPORTATION DESIGN COURSE** (Select 1)

<b>CE4401</b>	<b>PAVEMENT DESIGN</b>	<b>3 credits</b>
<b>CE4407</b>	<b>TRANSPORTATION DESIGN</b>	<b>3 credits</b>

### **TRANSPORTATION ELECTIVES** (select 4)

<b>CE4401</b>	<b>PAVEMENT DESIGN</b>	<b>3 credits</b>
<b>CE4402</b>	<b>TRAFFIC ENGINEERING</b>	<b>3 credits</b>
<b>CE4403</b>	<b>TRAFFIC SAFETY</b>	<b>3 credits</b>
<b>CE4404</b>	<b>RAILROAD ENGINEERING</b>	<b>3 credits</b>
<b>CE4406</b>	<b>AIRPORT DESIGN</b>	<b>3 credits</b>
<b>CE4407</b>	<b>TRANSPORTATION DESIGN</b>	<b>3 credits</b>
<b>CE4410</b>	<b>TRANSPORTATION PLANNING</b>	<b>3 credits</b>

**Senior Design (SD) Pre-reqs (complete 7 of the following)**  
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**TRANSPORTATION DESIGN COURSE, & 2**  
**TRANSPORTATION ELECTIVES**

### **Engineering Science Elective List (3 credits)**

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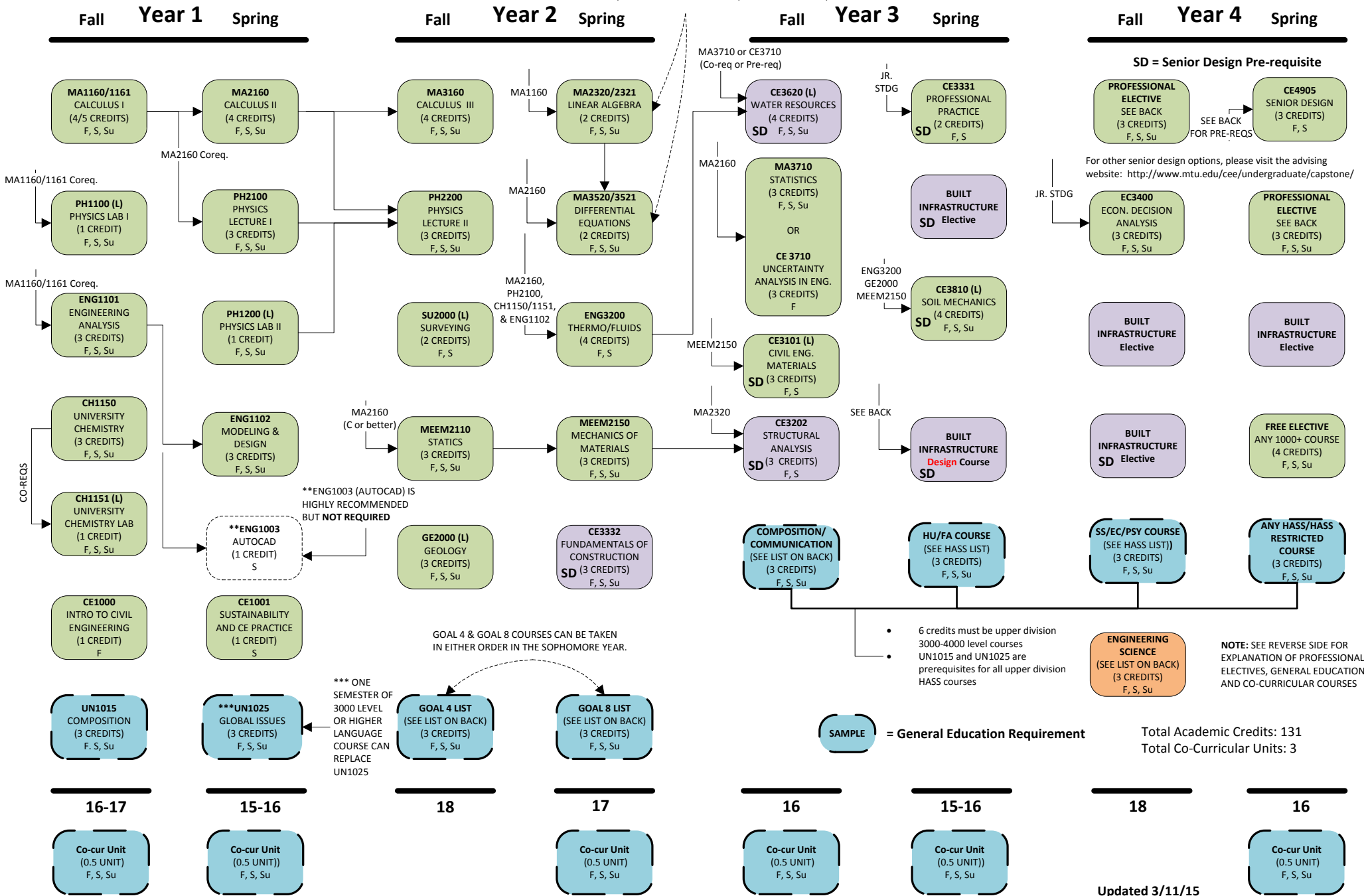
# CIVIL ENGINEERING FLOWCHART

## Built Infrastructure Academic Year 2015-16

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## **BUILT INFRASTRUCTURE**

### **BUILT INFRASTRUCTURE DESIGN COURSE** (select 1)

<b>CE4213</b>	<b>STRUCTURAL CONCRETE DESIGN</b>	<b>4 credits</b>
<b>CE4223</b>	<b>STEEL DESIGN 1</b>	<b>4 credits</b>
<b>CE4820</b>	<b>FOUNDATION ENGINEERING</b>	<b>3 credits</b>

### **BUILT INFRASTRUCTURE ELECTIVES** (select 4)

<b>CE4020</b>	<b>COMPUTER APPLICATIONS</b>	<b>3 credits</b>
<b>CE4201</b>	<b>MATRIX STRUCTURAL ANALYSIS</b>	<b>3 credits</b>
<b>CE4213</b>	<b>STRUCTURAL CONCRETE DESIGN</b>	<b>4 credits</b>
<b>CE4223</b>	<b>STEEL DESIGN 1</b>	<b>4 credits</b>
<b>CE4233</b>	<b>STRUCTURAL TIMBER DESIGN</b>	<b>3 credits</b>
<b>CE4333</b>	<b>ESTIMATING, PLANNING, CONST.</b>	<b>3 credits</b>
<b>CE4344</b>	<b>CONSTRUCTION SCHEDULING</b>	<b>3 credits</b>
<b>CE4820</b>	<b>FOUNDATION ENGINEERING</b>	<b>3 credits</b>
<b>CE4830</b>	<b>GEOSYNTHETICS</b>	<b>3 credits</b>
<b>CE4850</b>	<b>ROCK ENGINEERING</b>	<b>3 credits</b>
<b>CE5212</b>	<b>PRESTRESSED CONCRETE DESIGN</b>	<b>3 credits</b>
<b>CE5213</b>	<b>CONCRETE/MASONRY BLDG SYS</b>	<b>3 credits</b>

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INFRASTRUCTURE ELECTIVES**

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