

# CIVIL ENGINEERING FLOWCHART

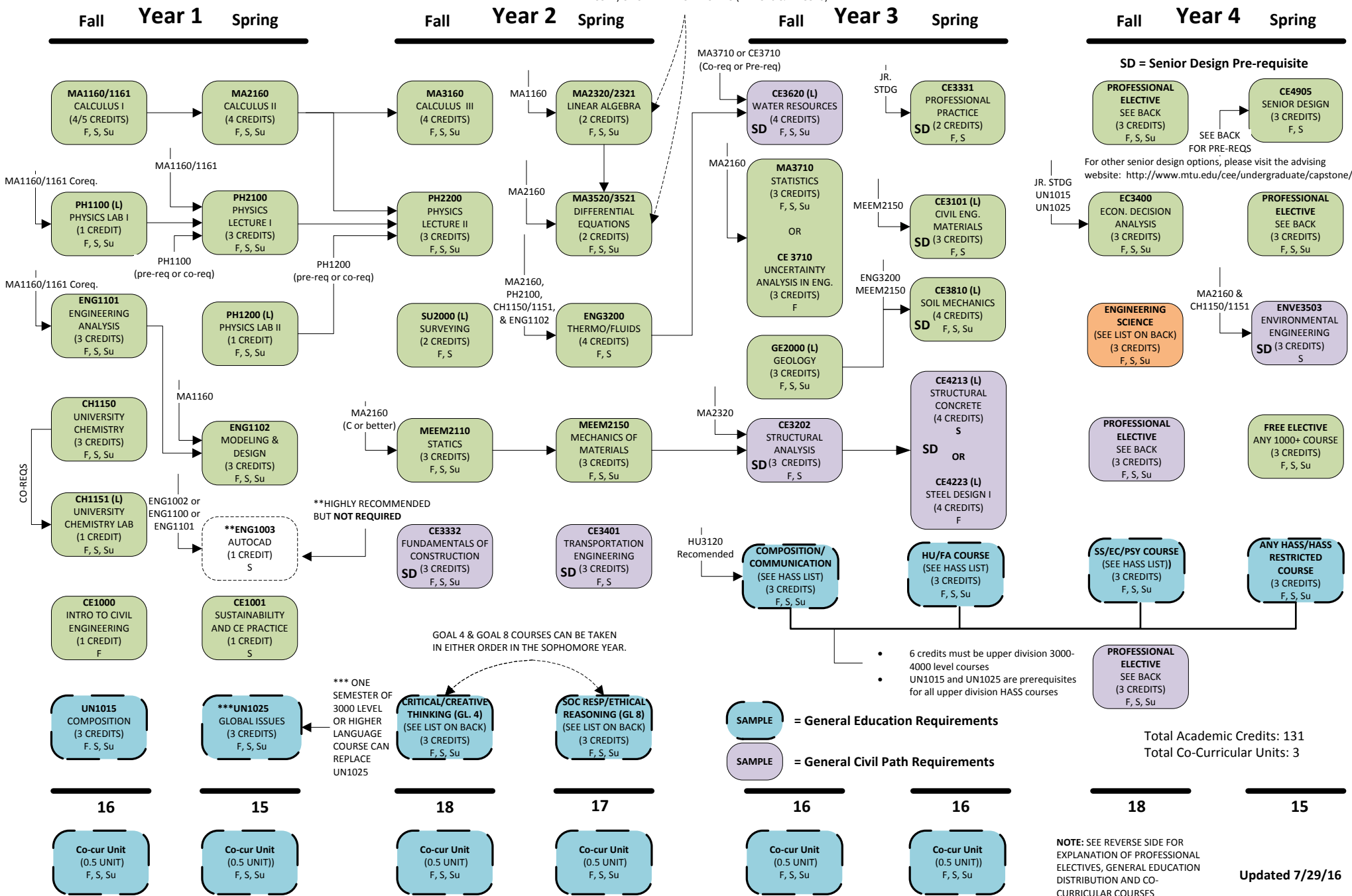
## General

### Academic Year 2016-17

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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)



NOTE: SEE REVERSE SIDE FOR EXPLANATION OF PROFESSIONAL ELECTIVES, GENERAL EDUCATION DISTRIBUTION AND CO-CURRICULAR COURSES

Updated 7/29/16

### 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 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
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- 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  
HU2503  
HU2538  
HU2700  
HU2820  
HU2910  
SS2300

##### \*\*GOAL 8 LIST

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SS2200  
SS2400  
SS2500  
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SS2502  
SS2503  
SS2504  
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SS2600  
SS2610  
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 \_\_\_\_\_

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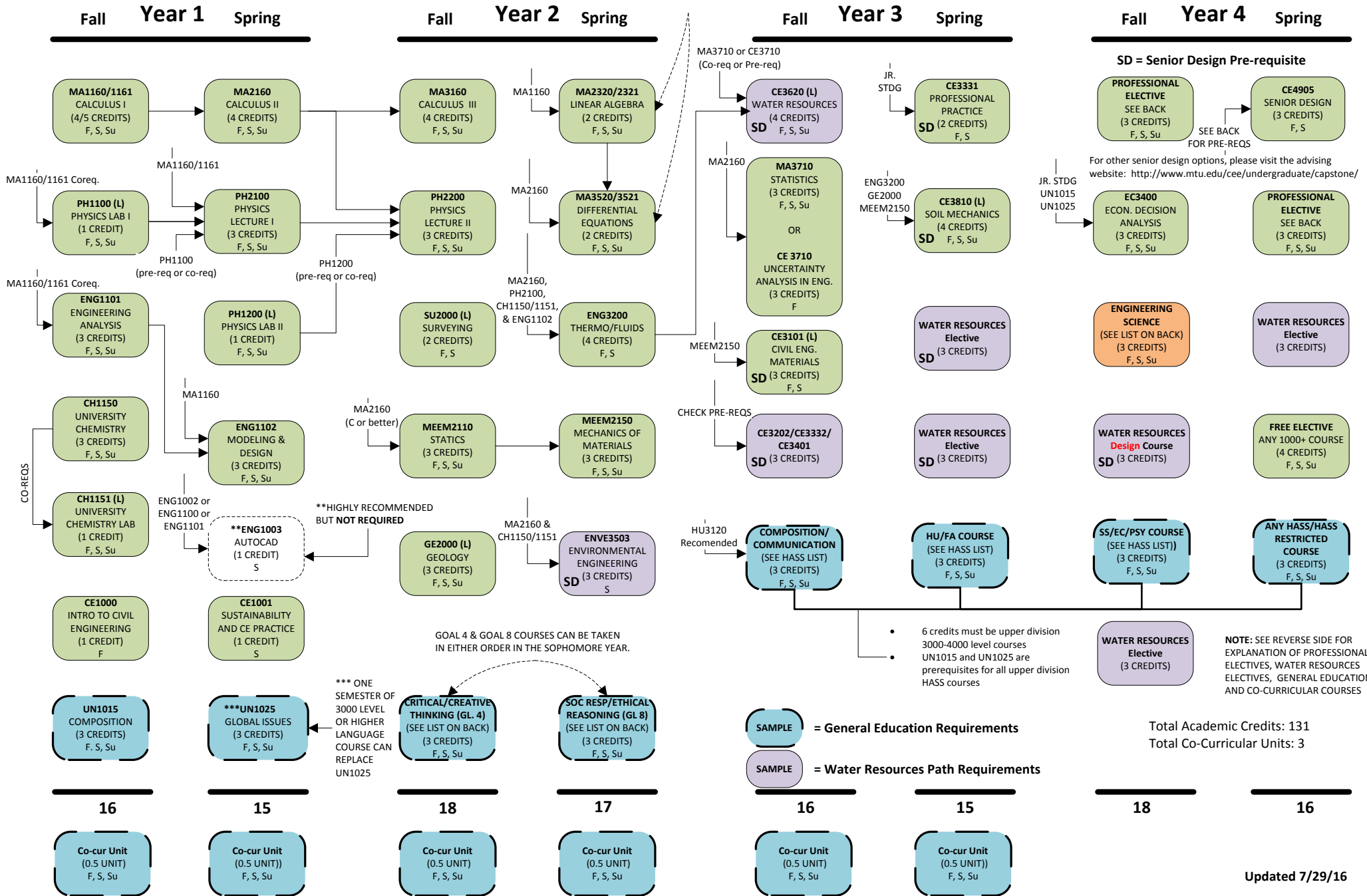
## Water Resources

### Academic Year 2016-17

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## Water Resources Requirements

Choose 1 course from the following

<b>CE3202</b>	<b>STRUCTURAL ANALYSIS</b>	<b>F, Sp</b>	<b>3 cr.</b>
<b>CE3332</b>	<b>FUND. OF CONSTRUCTION</b>	<b>F, Sp</b>	<b>3 cr.</b>
<b>CE3401</b>	<b>TRANSPORTATION ENGRG</b>	<b>F, Sp</b>	<b>3 cr.</b>

### WATER RESOURCES DESIGN COURSE (select 1)

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

### WATER RESOURCES ELECTIVES (select 4)

<b>CE4620</b>	<b>RIVER/FLOODPLAIN HYDRAULICS</b>	<b>Fall</b>	<b>3 cr.</b>
<b>CE4640</b>	<b>STORMWATER MANAGE. &amp; LID</b>	<b>Su</b>	<b>3 cr.</b>
<b>CE4665</b>	<b>STREAM RESTORATION</b>	<b>Spring</b>	<b>3 cr.</b>
<b>CE5620</b>	<b>STOCHASTIC HYDROLOGY</b>	<b>Var.</b>	<b>3 cr.</b>
<b>CE5666</b>	<b>WR PLANNING &amp; MANAGEMENT</b>	<b>Var.</b>	<b>3 cr.</b>
<b>ENVE4502</b>	<b>WASTE TREATMENT</b>	<b>Fall</b>	<b>3 cr.</b>
<b>ENVE4503</b>	<b>WATER TREATMENT</b>	<b>Spring</b>	<b>3 cr.</b>
<b>ENVE4505</b>	<b>SURFACE WATER QUALITY</b>	<b>Fall</b>	<b>3 cr.</b>
<b>ENVE4507</b>	<b>WATER DISTRIBUTION/COLLECT.</b>	<b>Spring</b>	<b>3 cr.</b>
<b>GE3850</b>	<b>GEOHYDROLOGY</b>	<b>F, Sp</b>	<b>3 cr.</b>
<b>GE4800</b>	<b>GROUNDWATER ENGRG</b>	<b>Var.</b>	<b>3 cr.</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
EE3010	CIRCUITS AND INSTRUMENTATION
MY2100	INTRO TO MATERIALS SCI & ENGRG
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SSE3730	SYSTEMS DYNAMICS AND DESIGN

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## 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**) \*\*

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FA2820  
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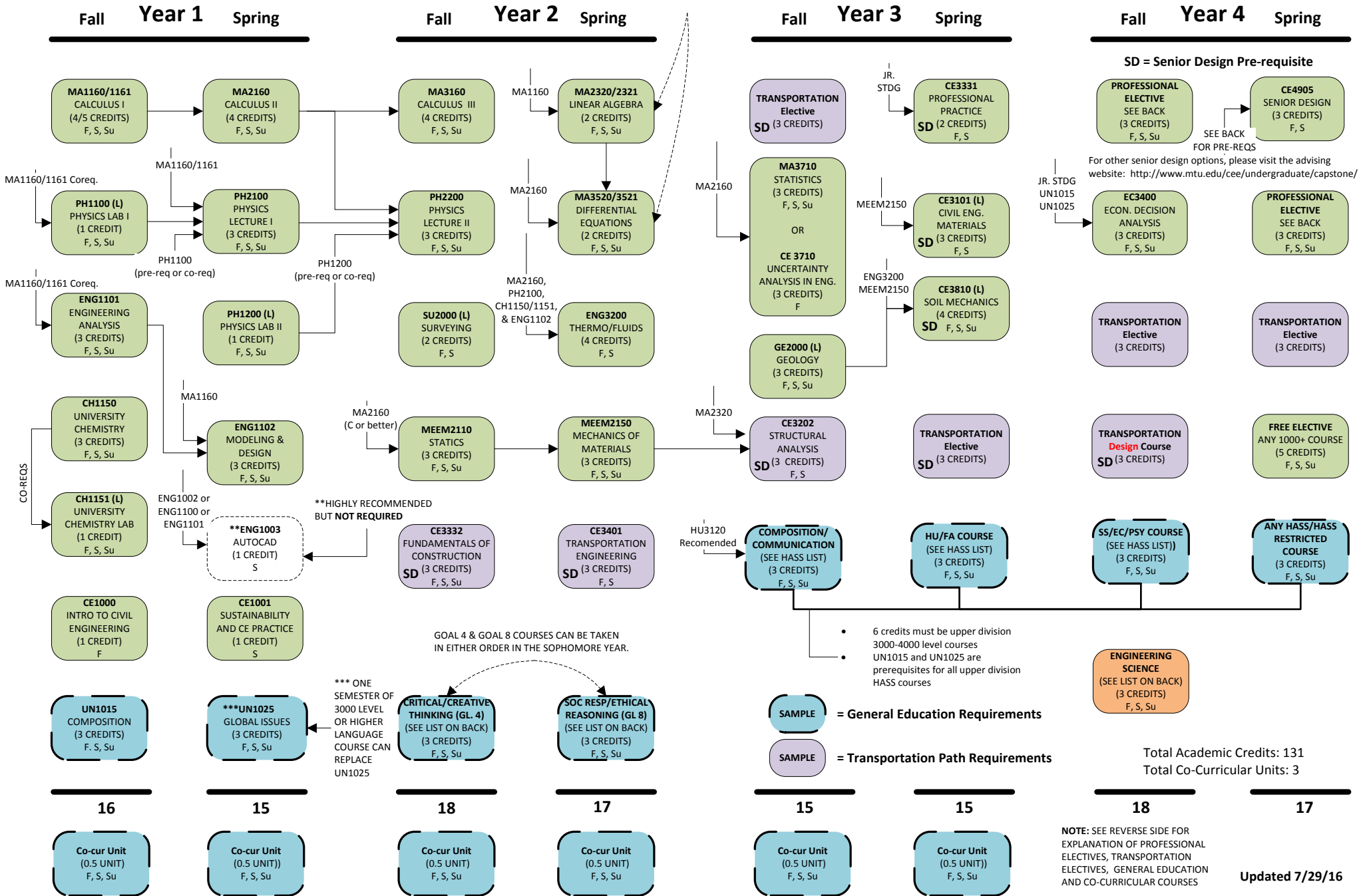
## Transportation

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## Transportation Requirements

### TRANSPORTATION DESIGN COURSE (Select 1)

CE4401	PAVEMENT DESIGN	Fall	3 cr.
CE4407	TRANSPORTATION DESIGN	Spring	3 cr.

### TRANSPORTATION ELECTIVES (select 4)

CE4401	PAVEMENT DESIGN	Fall	3 cr.
CE4402	TRAFFIC ENGINEERING	Fall	3 cr.
CE4404	RAILROAD ENGINEERING	Fall	3 cr.
CE4406	AIRPORT PLANNING	Spring	3 cr.
CE4407	TRANSPORTATION DESIGN	Spring	3 cr.
CE4410	TRANSPORTATION PLANNING	Fall	3 cr.

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CE3810 TRANSPORTATION DESIGN COURSE, &  
2 TRANSPORTATION ELECTIVES

### Engineering Science Elective List (3 credits)

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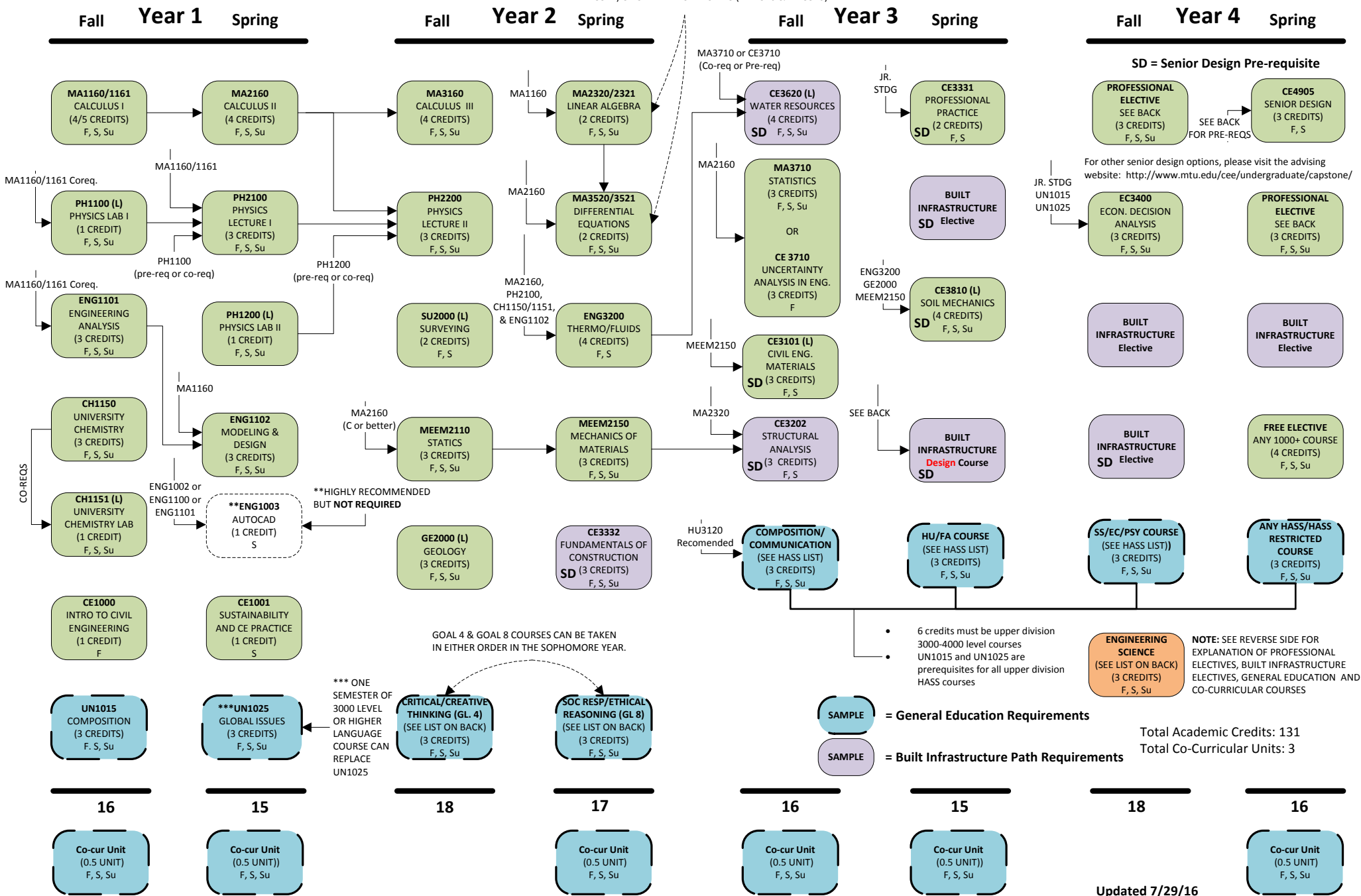
# CIVIL ENGINEERING FLOWCHART

## Built Infrastructure Academic Year 2016-17

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## Built Infrastructure Requirements

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

CE4213	STRUCTURAL CONCRETE DESIGN	Spring	4 cr.
CE4223	STEEL DESIGN 1	Fall	4 cr.
CE4820	FOUNDATION ENGINEERING	Fall	3 cr.

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

CE4020	COMPUTER APPLICATIONS	Fall	3 cr.
CE4201	MATRIX STRUCTURAL ANALYSIS	Spring	3 cr.
CE4213	STRUCTURAL CONCRETE DESIGN	Spring	4 cr.
CE4223	STEEL DESIGN 1	Fall	4 cr.
CE4233	STRUCTURAL TIMBER DESIGN	Spring	3 cr.
CE4244	LOADS FOR CIVIL STRUCTURES	Spring	3 cr.
CE4333	ESTIMATING, PLANNING, CONST.	Fall	3 cr.
CE4344	CONSTRUCTION SCHEDULING	Spring	3 cr.
CE4820	FOUNDATION ENGINEERING	Fall	3 cr.
CE4830	GEOSYNTHETICS	Spring	3 cr.
CE4850	ROCK ENGINEERING	Spring	3 cr.
CE5212	PRESTRESSED CONCRETE DESIGN	Fall	3 cr.
CE5213	CONCRETE/MASONRY BLDG SYS	Fall	3 cr.

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

CE3101, CE3331, CE3332, CE3202, CE3620, CE3810, BUILT INFRASTRUCTURE DESIGN COURSE, & 2 BUILT INFRASTRUCTURE ELECTIVES

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