

**Structural Engineering**  
(ABET Accredited)  
**Class of 2012**

**Mathematics & Basic Science Requirements (9 Courses)**

CHM 201 or 207                      MAT 103, 104                      COS 126  
PHY 103, 104                      MAT 201& 202, or 203& 204                      MAE 305

**Engineering Science Requirements (9 Courses out of 10)**

(Core Courses)

CEE 205                      CEE 306 or 307                      ORF 245  
CEE 262A                      CEE 361                      Take at least two: CEE 308, CEE 364, CEE 365  
CEE 303                      CEE 362

**Engineering Design Requirements (4 Courses)**

CEE 366                      CEE 462                      CEE 478 – Senior Thesis (Counts as two courses)

<i>Freshman Year</i>	
Fall 08	Spring 09
1. CHM 207	1. COS 126
2. MAT 104	2. MAT 201
3. PHY 103	3. PHY 104
4. _____	4. _____
5. _____	5. _____

<i>Sophomore Year</i>	
Fall 09	Spring 10
1. CEE 205	1. CEE 303
2. ORF 245	2. CEE 262A
3. MAT 202	3. CEE 364*
4. _____	4. _____
5. _____	5. _____

<i>Junior Year</i>	
Fall 10	Spring 11
1. CEE 361	1. CEE 365*
2. CEE 366*	2. CEE 362
3. MAE 305	3. CEE 306 or 307
4. _____	4. CEE 308
5. _____	5. _____

<i>Senior Year</i>	
Fall 11	Spring 12
1. CEE 478 (thesis)	1. CEE 478 (thesis)
2. _____	2. CEE 462
3. _____	3. _____
4. _____	4. _____
5. _____	5. _____

Program Electives (4 or more)	
1. _____	6. _____
2. _____	
3. _____	
4. _____	
5. _____	

Humanities Electives (7 or more)	
1. _____	6. _____
2. _____	7. _____
3. _____	8. _____
4. _____	9. _____
5. _____	

\*CEE 364 and 365 will be offered each calendar year in alternation.

## Recommended Program Electives

Four or more Program Electives must be chosen from the list below. Three courses must provide a coherent sequence in the student's area of interest. Only one 200-level course may be chosen as a Program Elective. Any course listed under Engineering Science Requirements not used to fulfill that requirement may be used as a Program Elective. The single bullet (●) indicates course that are highly recommended.

### ***Civil and Environmental Engineering***

- CEE 308 Environmental Engineering Laboratory  
CEE 375/376 Independent Research Project
- CEE 460 Risk Assessment and management
- CEE 461 Design of Large Scale Structures: Buildings
- CEE 471 Introduction to Water Pollution technology
- CEE 472 Hydrometeorology and Remote Sensing
- CEE 477 Environmental and Civil Engineering Systems Planning and Design
- CEE 567 Advanced Design and Behavior of Steel Structures

### ***Other Engineering***

MAE 306 mathematics in Engineering II  
MAE 222 Mechanics of Fluids  
ORF 301 Elements of Interactive Computer Graphics  
ORF 307 Optimization

### ***Architecture***

ARC 203 Introduction to Architectural Thinking  
ARC 204 Introduction to Architectural Design  
ARC 401 Theories of Housing and Urbanism  
ARC Junior Independent Work (Fall)(ARC 204 is pre-requisite)

### ***Geology***

GEO 235 The Physical Earth  
GEO 316 Structural Geology and Tectonics  
GEO 320 Introductory Geophysics

### ***Art and Archaeology***

ART 242 The Experience of Modernity: A Survey for Modern Architecture in the West  
ART 342 Modern Architecture  
ART 458 Modern Architecture