

Structural Engineering

(ABET Accredited)
Class of 2010

Mathematics & Basic Science Requirements (8 Courses)

(Engineering School Requirements)

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

Engineering Science Requirements (10 Courses out of 11)

(Core Courses)

CEE 205 CEE 306 MAE 305
CEE 262a CEE 361 Take at least two: CEE 308, CEE 364, CEE 365
CEE 303 CEE 362 ORF 245

Engineering Design Requirements (4 Courses)

CEE 366 CEE 461 CEE 478 – Senior Thesis (Counts as two courses)

<i>Freshman Year</i>	
Fall	Spring
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	Spring
1. CEE 205	1. CEE 303
2. ORF 245	2. CEE 262a
3. MAT 202	3. CEE 365*
4. _____	4. _____
5. _____	5. _____

<i>Junior Year</i>	
Fall	Spring
1. CEE 361	1. CEE 364
2. CEE 362*	2. CEE 366
3. MAE 305	3. CEE 306
4. _____	4. _____
5. _____	5. _____

<i>Senior Year</i>	
Fall	Spring
1. CEE 461	1. CEE 478 (thesis)
2. CEE 478 (thesis)	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 263 Rivers and the Regional Environment
- CEE 308 Environmental Engineering Laboratory
- CEE 368 The Fractal Beauty of Landscapes
- CEE 375/376 Independent Research Project
- CEE 460 Risk Assessment and management
- CEE 462 Design of Large Scale Structures
- CEE 471 Introduction to Water Pollution technology
- CEE 472 Hydrometeorology and Remote Sensing
- CEE 477 Environmental and Civil Engineering Systems Planning and Design

Other Engineering

MAE 306 mathematics in Engineering II
MAE 222 Mechanics of Fluids
MAE 323 Advanced Solid Mechanics and Structural Design
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)
ARC 574 Computing and Imaging in Architecture
ARC 596 Advanced Topics in Animation and Rendering

Geology

GEO 316 Structural Geology and Tectonics
GEO 320 Introductory Geophysics
GEO 324 Introduction to Seismology

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

● Highly recommended