

**Architecture and Engineering – Structures Focus**  
 (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)**

(Core Courses)

CEE 205                      CEE 361                      CEE 362  
 CEE 262A                      CEE 364                      ORF 245  
 CEE 303 or 306 or 307                      CEE 365                      ARC JIW

**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 201 or 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 262A
2. ARC 203	2. ARC 204 ( <i>studio</i> )
3. MAT 202	3. CEE 364(a)
4. _____	4. MAE 305
5. _____	5. _____

<i>Junior Year</i>	
Fall 10	Spring 11
1. CEE 361	1. CEE 303 or 306 or 307
2. ARC JIW ( <i>studio</i> )	2. CEE 365(a)
3. CEE 366	3. CEE 362
4. ORF 245	4. _____
5. _____	5. _____

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

Program Electives (4 or more)	
1. ARC 203 (b)	6. _____
2. ARC 204 (b)	
3. ARC Urbanism (c)(d)	
4. Two courses in Art and Archaeology (d) (c)	
5. _____	

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

Notes:

- (a) offered each calendar year in alternation
- (b) program requirement
- (c) can be used as either program elective or humanities and social science electives
- (d) select from listing on next page

## Recommended Program Electives

All Architecture and Engineering Students must take ARC 401 or equivalent urbanism course as one of their Program Electives. The remaining three or more must be selected from the following list. These courses must form a coherent sequence in the student's area of interest. Two of these courses must be of Art/Architecture.

### *Civil and Environmental Engineering*

CEE 303 Introduction to Environmental Engineering  
CEE 306 Hydrology  
CEE 308 Environmental Engineering Laboratory  
CEE 362 Structural Dynamics in Earthquake Engineering  
CEE 365 Soil Mechanics  
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 477 Environmental and Civil Engineering Systems Planning and Design  
CEE 567 Adv. Design and Behavior Steel Structures

### *Architecture & History*

ARC 304 The Historical Development of Urban Form  
ARC 305 Urban Studies: Analysis of Contemporary Form  
ARC 308 History of Architectural Form  
ARC 406 Energy and Form  
ARC 484 Rhetoric of Architecture – 18<sup>th</sup> to 20<sup>th</sup> Century  
ARC 493 The Nature of the Landscape  
HIS 398 Technologies & Their Societies: Historical Perspectives Other Engineering and Science

### *ARC Course on Urbanism*

ARC 304 The Historical Development of Urban Form  
ARC 305 Urban Studies: Analysis of Contemporary Form  
ARC 320 Rome, the Eternal City  
ARC 401 Theories of Housing and Urbanism  
ARC 408 Infrastructure and Design: Design, Disaster and Southern California  
ARC 490 Urban Strategies  
ARC 492 Topics in the Formal Analysis of the Urban Structure

### *Art & Archeology*

ART 206 Byzantine Art & Architecture  
ART 230 Early Islamic Art and Architecture  
ART 242 The Experience of Modernity: A Survey of Modern Architecture in the West  
ART 305 Greek & Roman Architecture  
ART 308 Roman Cities and Countryside: Republic to Empire  
ART 315 Medieval Architecture  
ART 320 Rome, the Eternal City  
ART 332 The Landscape of Allusion: Garden and Landscape Architecture 1450-1750  
ART 333 Renaissance & Baroque Architecture  
ART 342 Modern Architecture  
ART 346 Architecture and the Visual Arts  
ART 351 Traditional Chinese Architecture  
ART 449 Architectural Theory  
ART 458 Seminar: Modern Architecture