

Architecture and Engineering – Structures Focus
 (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)

(Core Courses)

CEE 205 CEE 361 CEE 362 ORF 245
 CEE 262A CEE 364 MAE 305
 CEE 303 or 306 CEE 365 ARC JIW

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 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	Spring
1. CEE 205	1. CEE 262A
2. ARC 203	2. ARC 204 (<i>studio</i>)
3. MAT 202	3. CEE 365(a)
4. ART 242	4. MAE 305
5. _____	5. _____

<i>Junior Year</i>	
Fall	Spring
1. CEE 361	1. CEE 303 or 306
2. ARC JIW (e) (<i>studio</i>)	2. CEE 364(a)
3. CEE 362	3. CEE 366
4. ORF 245	4. _____
5. _____	5. _____

<i>Senior Year</i>	
Fall	Spring
1. CEE 461	1. CEE 462
2. CEE 478 (thesis)	2. CEE 478 (thesis)
3. _____	3. ARC Urbanism(d)
4. _____	4. _____
5. _____	5. _____

Program Electives (4 or more)	
1. ARC 203 (b)	6. _____
2. ARC 204 (b)	
3. ARC Urbanism (c)(d)	
4. ART 242 or 342 (c)	
5. Add'l course in Art and Archaeology (d) (e)	

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
- (e) alternatively can be taken in the spring

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. The single bullet (●) indicates course that are highly recommended.

Civil and Environmental Engineering

- CEE 263 Rivers and the Regional Environment
- CEE 303 Introduction to Environmental Engineering
- CEE 306 Hydrology
- CEE 308 Environmental Engineering Laboratory
- CEE 362 Structural Dynamics in Earthquake Engineering
- 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 477 Environmental and Civil Engineering Systems Planning and Design

Architecture & History

ARC 204 Introduction to Architectural Design
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
HIS 398 Technologies & Their Societies: Historical Perspectives Other Engineering and Science

Other Engineering and Science

GEO 225 Earth: The Physical Environment
MAE 305 Mathematics in Engineering I
MAE 306 Mathematics in Engineering II
MAE 323 Advanced Solid Mechanics and Structural Design
ORF 301 Elements of Interactive Computer Graphics

Humanities and Social Science Electives for Architecture and Engineering

Two of the seven Humanities and Social Electives must be selected from the following list:

ARC 484 Rhetoric of Architecture – 18th to 20th Century
ARC 493 The Nature of the Landscapes
ART 206 Byzantine Art & Architecture
ART 232 The Arts of the Islamic World
ART 242 The Experience of Modernity: A Survey for Modern Architecture in the West
ART 305 Greek & Roman Architecture
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 351 Traditional Chinese Architecture
ART 458 Modern Architecture

- Highly recommended