

Architecture and Engineering – Structures Focus
 (ABET Accredited)
Class of 2011

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 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.

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 365 Soil Mechanics
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
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 – 18th to 20th 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 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 305 Greek & Roman Architecture
ART 308 Roman Cities and Countryside: Republic to Empire
ART 315 Medieval Architecture
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 449 Architectural Theory
ART 458 Seminar: Modern Architecture