CEE Track: Architecture and Engineering – Structures Focus  
(ABET Accredited)  
Class of 2015

BSE Math & Science Requirements (8 Courses)  
CHM 201 General Chemistry I  
MAT 103 Calculus  
MAT 104 Calculus  
MAT 201 Multivariable Calculus,  
or MAT 203 Adv. Multivariable Calculus  
MAT 202 Linear Algebra w/ Applications,  
or MAT 204 Adv. Linear Algebra w/ Applications  
PHY 104 General Physics, or PHY 106 Adv. Physics  
PHY 104 General Physics, or PHY 106 Adv. Physics  
COS 126 General Computer Science

Writing Seminar  
Additional Math Requirements (2 courses)  
This requirement may be waived for students who scored 5 on AP STAT.  
MAE 305 Mathematics in Engineering I

Additional Science Requirements (1 course)  
GEO 203 Geology, or EEB 211 Biology of Organisms, or  
MOL 215 Quantitative Principles in Cell and Molecular Biology  
This requirement may be waived for students who scored 5 on AP BIO.

University Writing Seminar (1 Course)

Engineering Science Requirements (8 Courses)  
CEE 205 Mechanics of Solids  
CEE 262A Structures and the Urban Environment  
CEE 312 Statics of Structures  
CEE 361 Structural Analysis & Finite Elements  
CEE 364 Materials in Civil Eng. –Note (a)  
CEE 365 Soil Mechanics – Note (a)  
CEE 303 Intro to Environmental Engineering,  
or CEE 306 Hydrology,  
or CEE 307 Field Ecohydrology – Note (b)  
ARC 374 Computational Design

Engineering Design Requirements (2 Courses)  
CEE 366 Design of Reinforced Concrete Structures  
CEE 462 Design of Large Scale Structure: Bridges

Independent Work (2 Courses)  
CEE 478 Senior Thesis (Counts as two courses)

Program Electives (1 or more) – See list.  
1. (engineering)______  
2. ________

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

Notes: (a) CEE 364 and CEE 365 are offered in alternating years. This calendar shows the correct sequence for students in the class of 2015. (b) For students who take CEE 307 in Kenya, this counts as an engineering lab course. This satisfies the requirement for one of the two engineering lab courses (either CEE 364 or CEE 365). In consultation with the advisor, a student can substitute another engineering course to count as the remaining engineering science requirement.
**Approved and Recommended Program Electives**

A student’s program electives must provide a coherent sequence in the student’s area of interest. For the Architecture & Engineering - STR track, at least one of the program electives must be an engineering course. No more than one program elective can be at the 200 level. The courses listed below are pre-approved. If a student would like to take a program elective not on the list, such as a one-time-only course or a graduate course, the student should make a compelling case for why this is consistent with the student’s educational objectives. Approval is based on agreement from the advisor and the departmental representative. The bullet (●) indicates courses that are highly recommended as program electives for this program track.

**Civil and Environmental Engineering**
Courses in the CEE department that are not part of the current requirements. In particular, the following are recommended for the Arch & Eng – Structures Focus track:
- CEE 362 Structural Dynamics in Earthquake Engineering
- CEE 477 Engineering Design for Sustainable Development
- CEE 567 Adv. Design and Behavior Steel Structures

Additional recommended courses for the Architecture & Engineering - STR track are listed below.

**Courses on Urbanism, Art and Archaeology, and Architectural History**
- ARC 201/202: Introductory Drawing (LA)
- ARC 302 Architecture and the Visual Arts (LA)
- ARC 304 Cities of the 21st Century (HA)
- ARC 305 Urban Studies: Analysis of Contemporary Urban Form
- ARC 308 History of Architectural Theory (HA)
- ARC 401 Theories of Housing and Urbanism (SA)
- ARC 406 Energy and Form
- ARC 492 Topics in the Formal Analysis of the Urban Structure
- ART 206 Byzantine Art & Architecture (LA)
- ART 230 Early Islamic Art and Architecture (LA)
- ART 242 The Experience of Modernity: A Survey of Modern Architecture in the West (LA)
- ART 308 Roman Cities and Countryside: Republic to Empire (LA)
- ART 315 Medieval Architecture (LA)
- ART 320 Rome, the Eternal City (LA)
- ART 332 The Landscape of Allusion: Garden and Landscape Architecture 1450-1750 (LA)
- ART 333 Renaissance & Baroque Architecture (LA)
- ART 337 Court, Cloister, and City: Art and Architecture in Central and Eastern Europe (LA)
- ART 351 Traditional Chinese Architecture (LA)
- ART 443 Global Exchange in Art and Architecture (LA)
- ART 445 Topics in the History and Theory of Architecture in Early-Modern Europe (LA)
- ART 458 Seminar: Modern Architecture (LA)
- URB 201 (Fall or Spring) Introduction to Urban Studies