ARCHITECTURAL ENGINEERING
TECHNICAL ELECTIVES BY AREAS OF SPECIALIZATION
9 total hours required

**STRUCTURAL ENGINEERING**

- **ARE 345K**
  - Masonry Engineering
  - **C E 331**
  - Reinforced Concrete Design
  - **C E 335**
  - Elements of Steel Design
  - **C E 360K**
  - Foundation Engineering
  - **ARE 362L**
  - Structural Design in Wood

  *Only offered when faculty availability permits*

- **C E 362M**
  - Adv Reinforced Concrete Design

  *Offered in spring of EVEN years*

- **C E 362N**
  - Advanced Steel Design

  *Offered in spring of ODD years*

- **C E 375**
  - Earth Slopes and Retaining Structures

- **E M 339**
  - Advanced Strength of Materials

  *see E M department for registration*

**BUILDING ENERGY AND ENVIRONMENTS**

- **ARE 346P**
  - HVAC Design

  *Offered in spring of EVEN years*

- **ARE 371**
  - Energy Simulation in Bldg Design

  *see M E department for prerequisites and registration*

- **ARE 370**
  - Design of Energy Effctn/Hlthy Bldgs

  *see M E department for prerequisites and registration*

- **C E 341**
  - Intro to Environmental Engr

- **C E 369R**
  - Indoor Air Quality

  *Offered in spring of EVEN years*

- **M E 339**
  - Heat Transfer

  *see M E department for prerequisites and registration*

- **M E 374S**
  - Solar Energy Systems Design

  *see M E department for prerequisites and registration*

- **M E 374F**
  - Fire Science

  *see M E department for prerequisites and registration*

- **M E 379N**
  - Engineering Acoustics

  *see M E department for prerequisites and registration*

**CONSTRUCTION AND INFRASTRUCTURE MATERIALS ENGINEERING**

- **ARE 358**
  - Cost Estimating in Bldg Construction

  *Offered in fall of EVEN years*

- **C E 351**
  - Concrete Materials

  *see M E department for prerequisites and registration*

- **ARE 376**
  - Bldg Info Modeling Capital Projects

  *Offered in fall of ODD years*

- **M E 349**
  - Corrosion Engineering

  *see M E department for prerequisites and registration*

- **M E 378K**
  - Mech Behavior of Materials

  *see M E department for prerequisites and registration*

- **M E 378P**
  - Properties & Apps of Polymers

  *see M E department for prerequisites and registration*

**KEY**

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NOTE: semester offered subject to change

Updated 8.22.17 SES