### THE UNIVERSITY OF TEXAS AT AUSTIN
#### ARCHITECTURAL ENGINEERING
#### 2014 - 2016 CATALOG DEGREE PLAN

**FALL**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Spring</th>
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<tbody>
<tr>
<td><strong>14</strong> ARE 102 Intro to Arch Engr <em>(taught fall only)</em></td>
<td><strong>3</strong> GEO 303 Introduction to Geology</td>
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<tr>
<td>3 CH 301 Principles of Chemistry I *</td>
<td>4 M 408D Seq, Series &amp; Multivariable Calculus ♦</td>
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| 4 M 408C Differential and Integral Calculus ♦ | 3 PHY 303K Engineering Physics I *
| 3 RHE 306 Rhettoric & Writing | 1 PHY 103M Engineering Physics I Lab *
| 3 UGS 302 First-Year Signature Course * | 3 Architectural History ♦ _____________ |

**OR**

3 UGS 303 First-Year Signature Course *

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<th><strong>17</strong></th>
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**Second Year**

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**Third Year**

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**Fourth Year**

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### TOTAL HOURS: 126

**NOTE:** Students MUST register for C E 324P in their first semester admitted to major sequence.

**NOTES AND COMMENTS**

* Basic Sequence Course

** Major Sequence Course

♦ M 408K + M 408L + M 408M = M 408C + M 408D

△ fulfills the Visual & Performing Arts requirement

Students should refer to the Undergraduate Catalog for information about the core curriculum flag requirements.
ARCHITECTURAL ENGINEERING
TECHNICAL ELECTIVES BY AREAS OF SPECIALIZATION

**STRUCTURAL ENGINEERING**

- **ARE 345K** F  
  Masonry Engineering
  - Pre-Reqs: C E 329, C E 331

- **ARE 362L** S  
  Structural Design in Wood
  - Pre-Reqs: C E 329

- **C E 331**  
  Reinforced Concrete Design
  - Pre-Reqs: C E 324P, C E 339

- **C E 335**  
  Elements of Steel Design
  - Pre-Reqs: C E 324P

- **C E 360K** F  
  Foundation Engineering
  - Pre-Reqs: C E 357

- **C E 362M** S  
  Advanced Reinforced Concrete Design
  - Pre-Reqs: C E 331

- **C E 362N** F  
  Advanced Steel Design
  - Pre-Reqs: C E 335

- **C E 363**  
  Advanced Structural Analysis
  - Pre-Reqs: C E 329

- **C E 375** S  
  Earth Slopes and Retaining Structures
  - Pre-Reqs: C E 357

- **E M 339** F  
  Advanced Strength of Materials
  - Pre-Reqs: see E M department for registration

**BUILDING ENERGY AND ENVIRONMENTS**

- **ARE 346P** F  
  HVAC Design
  - Pre-Reqs: C E 329, C E 331

- **ARE 370** S  
  Design of Energy Efficient/Healthy Buildings
  - Pre-Reqs: C E 346N

- **ARE 371** F  
  Energy Simulation in Building Design
  - Pre-Reqs: C E 346N

- **C E 341**  
  Intro to Environmental Engineering
  - Pre-Reqs: CH 301

- **C E 369R**  
  Indoor Air Quality
  - Pre-Reqs: C E 310F

- **M E 339**  
  Heat Transfer
  - Pre-Reqs: see M E department for prerequisites and registration

- **M E 374S**  
  Solar Energy Systems Design
  - Pre-Reqs: see M E department for prerequisites and registration

- **M E 374F**  
  Fire Science
  - Pre-Reqs: see M E department for prerequisites and registration

- **M E 379N**  
  Engineering Acoustics
  - Pre-Reqs: see M E department for prerequisites and registration

**BUILDING CONSTRUCTION/MATERIALS**

- **ARE 358** Su  
  Cost Estimating in Building Construction
  - Pre-Reqs: ARE 335

- **C E 351** S  
  Concrete Materials
  - Pre-Reqs: C E 324P

- **ARE 376** F  
  Bldg Info Modeling Capital Projects
  - Pre-Reqs: ARE 323K

- **M E 349**  
  Corrosion Engineering
  - Pre-Reqs: see M E department for prerequisites and registration

- **M E 378K**  
  Mech Behavior of Materials
  - Pre-Reqs: see M E department for prerequisites and registration

- **M E 378P**  
  Properties & Apps of Polymers
  - Pre-Reqs: see M E department for prerequisites and registration

**KEY**

- **Course #**  
  Course Title

- **PRE-REQ**  
  Co-Req

- **F** = Fall Only

- **S** = Spring Only

- **Su** = Summer Only

**NOTE:** Semester offered subject to change
ARCHITECTURAL ENGINEERING
APPROVED ELECTIVES & CORE CURRICULUM

APPROVED ELECTIVES
Approved Math/Science Elective
Three semester hours.
- Biology: BIO 311C
- Chemistry: CH 302

CORE CURRICULUM
American & Texas Government
Six semester hours.
- GOV 310L and one of the following:
  - GOV 312L or 312P

American History
Six semester hours, of which three may be in Texas history.
- Lower Division: HIS 314K, 315G, 315K, 315L, 317L
- Texas History: HIS 320L, 320P, 320R

Humanities (Literature)
Three semester hours.
- E 316L, 316M, 316N, 316P

Social & Behavioral Science
Three semester hours.
- African & Africa Diaspora Studies: AFR 324E
- Anthropology: ANT 302, 305, 307, 318L
- Core Texts & Ideas: CTI 302, 365
- Economics: ECO 301, 304K, 304L
- Geography: GRS 305, 306C, 307C, 319
- Health & Society: H S 301
- History: HIS 329U
- Human Development & Family Science: HDF 304, 304H
- Linguistics: LIN 306, 312D, 312E
- Psychology: PSY 301
- Religious Studies: R S 310
- Social Sciences: S S 301 (Plan II ONLY)

Architectural History
Three semester hours. Fulfills the Visual & Performing Arts requirement.
- Architecture: ARC 308, 318K, 318L