DOCUMENTS OF THE GENERAL FACULTY

**PROPOSED CHANGES TO THE BACHELOR OF ARCHITECTURE/BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING DUAL DEGREE PROGRAM IN THE SCHOOL OF ARCHITECTURE CHAPTER IN THE *UNDERGRADUATE CATALOG, 2016-2018***

Dean Fredrick R. Steiner, in the School of Architecture has filed with the secretary of the Faculty Council the following changes to the *Undergraduate Catalog, 2016-2018*. In September 2014, the school faculty and approved the proposed changes. The secretary has classified this proposal as legislation of *general* interest to more than one college or school.

The Committee on Undergraduate Degree Program Review recommended approval of the changes on December 2, 2015, and forwarded the proposal to the Office of the General Faculty. The Faculty Council has the authority to approve this legislation on behalf of the General Faculty. The authority to grant final approval on this legislation resides with UT System.

If no objection is filed with the Office of the General Faculty by the date specified below, the legislation will be held to have been approved by the Faculty Council. If an objection is filed within the prescribed period, the legislation will be presented to the Faculty Council at its next meeting. The objection, with reasons, must be signed by a member of the Faculty Council.

To be counted, a protest must be received in the Office of the General Faculty by December 21, 2015.

Hillary Hart, Secretary
General Faculty and Faculty Council

Posted on the Faculty Council website (http://www.utexas.edu/faculty/council/) on December 7, 2015.

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**Type of Change** ☒ Academic Change
☐ Degree Program Change (THECB form required)

**Proposed classification** ☐ Exclusive ☒ General ☐ Major

**1. IF THE ANSWER TO ANY OF THE FOLLOWING QUESTIONS IS YES, THE COLLEGE MUST CONSULT LINDA DICKENS, DIRECTOR OF ACCREDITATION AND ASSESSMENT, TO DETERMINE IF SACS-COC APPROVAL IS REQUIRED.**

- Is this a new degree program? Yes ☐ No ☒
- Does the program offer courses that will be taught off campus? Yes ☐ No ☒
- Will courses in this program be delivered electronically? Yes ☐ No ☒

**2. EXPLAIN CHANGE TO DEGREE PROGRAM AND GIVE A DETAILED RATIONALE FOR EACH INDIVIDUAL CHANGE:**

The proposal ensures that transcript-recognized certificates used in place of transcript-recognized minors meet the requirements of a transcript-recognized minor.

**3. THIS PROPOSAL INVOLVES (Please check all that apply)**

| | | |
|---|---|---|
| ☐ Courses in other colleges | ☐ Courses in proposer's college that are frequently taken by students in other colleges | ☐ Flags |
| ☐ Course in the core curriculum | ☐ Change in course sequencing for an existing program | ☐ Courses that have to be added to the inventory |
| ☐ Change in admission requirements (external or internal) | ☐ Requirements not explicit in the catalog language (e.g., lists of acceptable courses maintained by department office) | ☐ Other: clarification of certificate requirements |

**4. SCOPE OF PROPOSED CHANGE**

a. Does this proposal impact other colleges/schools? Yes ☒ No ☐
If yes, then how?

b. Do you anticipate a net change in the number of students in your college? Yes ☐ No ☒
If yes, how many more (or fewer) students do you expect?

c. Do you anticipate a net increase (or decrease) in the number of students from outside of your college taking classes in your college? Yes ☐ No ☒
If yes, please indicate the number of students and/or class seats involved.

d. Do you anticipate a net increase (or decrease) in the number of students from your college taking courses in other colleges? Yes ☐ No ☒
If yes, please indicate the number of students and/or class seats involved.

**If 4 a, b, c, or d was answered with yes, please answer the following questions. If the proposal has potential budgetary impacts for another college/school, such as requiring new sections or a non-negligible increase in the number of seats offered, at least one contact must be at the college-level.**

How many students do you expect to be impacted? Five to six.

Impacted schools must be contacted and their response(s) included:

Person communicated with: Keith Baird/Molly Gully

Date of communication: September 28, 2015

Response: Keith Baird notified me of the M 427J course number, and Molly Gully notified me of the ARE 371 course number.

e. Does this proposal involve changes to the core curriculum or other basic education requirements (42-hour core, signature courses, flags)? **No** If yes, explain:
**If yes, undergraduate studies must be informed of the proposed changes and their response included:**
Person communicated with:
Date of communication:
Response:

f. Will this proposal change the number of hours required for degree completion? No If yes, explain:

**5. COLLEGE/SCHOOL APPROVAL PROCESS**

| | | | |
|---|---|---|---|
| Department approval date: | September 2014 | Approved by: | Associate Dean Juan Miró |
| College approval date: | September 2014 | Approved by: | Associate Dean Juan Miró |
| Dean approval date: | September 2014 | Approved by: | Dean Fredrick R. Steiner |

**PROPOSED NEW CATALOG TEXT:**

**Bachelor of Architecture/Bachelor of Science in Architectural Engineering Dual Degree Program**

As a six-year dual professional degree program, the Bachelor of Architecture/Bachelor of Science in Architectural Engineering is founded upon the mutual interests of both architecture and architectural engineering.

For admission to the dual degree program, a student must meet the Admission Requirements of the School of Architecture and the requirements given in Admission and Registration for the Cockrell School of Engineering. Students are advised to contact both the School of Architecture and the Cockrell School of Engineering for specific information about the dual degree program.

Students in the dual degree program complete the requirements of the Bachelor of Architecture and the Bachelor of Science in Architectural Engineering degrees. See the descriptions for the five-year Bachelor of Architecture degree program and the Bachelor of Science in Architectural Engineering for more information.

The following outline of courses is the suggested method for completing the requirements for both degrees simultaneously. Dual degree students must also consult the additional requirements of the Bachelor of Science in Architectural Engineering degree. Dual degree students are responsible for fulfilling the requirements of both degrees.

A student who follows the suggested arrangement of courses below completes all requirements for both degrees at the end of the spring semester of the sixth year.

**Curriculum**

A total of at least 197 hours of coursework is required for this dual degree program.

All students must complete the University's Core Curriculum as well as the courses listed in the following table. In some cases, a course that is required for the dual degree program may also be counted toward the core curriculum; these courses are identified below.

| **Requirements** | | |
|---|---|---|
| **Architecture** | | |
| Design | | |
| ARC 310K | Design I | 3 |
| ARC 310L | Design II | 3 |
| ARC 320K | Design III | 3 |
| ARC 520L | Design IV | 5 |
| ARC 520M | Design V | 5 |
| ARC 530T | Design VI | 5 |
| ARC 560R | Advanced Design (taken twice) | 10 |
| ARC 560T | Advanced Design | 5 |
| Visual communication | | |
| ARC 311K | Visual Communication I | 3 |
| ARC 311L | Visual Communication II | 3 |
| ARC 221K | Visual Communication III | 2 |
| ARC 361T | Technical Communication | 3 |
| Professional practice | | |
| ARC 362 | Professional Practice | 3 |
| Site design | | |
| ARC 333 | Site Design | 3 |
| Construction | | |
| ARC 335M | Construction V | 3 |
| Architectural History | | |
| ARC 308 | Architecture and Society (visual and performing arts) | 3 |
| ARC 318K | World Architecture: Origins to 1750 | 3 |
| ARC 318L | World Architecture: The Industrial Revolution to the Present | 3 |
| ARC 368R | Topics in the History of Architecture (taken three times) | 9 |
| [~~**Core Curriculum Requirements**~~] Community and regional planning | | |
| CRP 369K | Principles of Physical Planning | 3 |
| Engineering requirements | | |
| ARE 102 | Introduction to Architectural Engineering | 1 |
| ARE 217 | Computer-Aided Design and Graphics | 2 |
| ARE 323K | Project Management and Economics | 3 |
| ARE 335 | Materials and Methods of Building Construction | 3 |
| ARE 346N | Building Environmental Systems | 3 |
| ARE 346P | HVAC Design | 3 |
| or [~~ARE 370~~] ARE 371 | [~~Design of Energy Efficient and Healthy Buildings~~] *Energy Simulation In Building Design* | |
| ARE 465 | Integrated Design Project | 4 |
| ARE 366 | Contracts, Liability, and Ethics | 3 |
| CH 301 | Principles of Chemistry I (part II science and technology) | 3 |
| C E 311K | Introduction to Computer Methods | 3 |
| C E 311S | Probability and Statistics for Civil Engineers | 3 |
| C E 324P | Properties and Behavior of Engineering Materials | 3 |
| C E 319F | Elementary Mechanics of Fluids | 3 |
| C E 329 | Structural Analysis | 3 |
| C E 331 | Reinforced Concrete Design | 3 |
| or C E 335 | Elements of Steel Design | |
| C E 333T | Engineering Communication | 3 |

| | | |
|---|---|---|
| C E 357 | Geotechnical Engineering | 3 |
| E M 306 | Statics | 3 |
| E M 319 | Mechanics of Solids | 3 |
| GEO 303 | Introduction to Geology | 3 |
| M 408C | Differential and Integral Calculus (mathematics) | 4 |
| M 408D | Sequences, Series, and Multivariable Calculus | 4 |
| M 427J<br>Or M 427K | Differential Equations with Linear Algebra<br>Advanced Calculus for Applications I | 4 |
| M E 320 | Applied Thermodynamics | 3 |
| PHY 303K | Engineering Physics I (physics sequence meets part I science and technology) | 3 |
| PHY 103M | Laboratory for Physics 303K | 1 |
| PHY 303L | Engineering Physics II | 3 |
| PHY 103N | Laboratory for Physics 303L | 1 |
| Approved mathematics or science elective | | 3 |
| Approved technical electives | | 9 |
| Additional coursework to satisfy the core curriculum | | 24 |
| Total Hours | | 197 |

**Suggested Arrangement of Courses**

| Courses | Sem Hrs |
|---|---|
| **First Year** | |
| Fall | |
| Architecture 310K, *Design I* | 3 |
| Architecture 311K, *Visual Communication I* | 3 |
| Architecture 308, *Architecture and Society* | 3 |
| Architectural Engineering 102, *Introduction to Architectural Engineering* | 1 |
| Mathematics 408C, *Differential and Integral Calculus* | 4 |
| Undergraduate Studies 302, *First-Year Signature Course* or Undergraduate Studies 303, *First-Year Signature Course* | 3 |
| | **Total 17** |
| Spring | |
| Architecture 310L, *Design II* | 3 |
| Architecture 311L, *Visual Communication II* | 3 |
| Architecture 318K, *World Architecture: Origins to 1750* | 3 |
| Mathematics 408D, *Sequences, Series, and Multivariable Calculus* | 4 |
| Physics 303K, *Engineering Physics I* | 3 |
| Physics 103M, *Laboratory for Physics 303K* | 1 |
| | **Total 17** |
| **Second Year** | |
| Fall | |
| Architecture 320K, *Design III* | 3 |
| Architecture 221K, *Visual Communication III* | 2 |

| | |
|---|---|
| Architecture 318L, *World Architecture: The Industrial Revolution to the Present* | 3 |
| Engineering Mechanics 306, *Statics* | 3 |
| Physics 303L, *Engineering Physics II* | 3 |
| Physics 103N, *Laboratory for Physics 303L* | 1 |
| Rhetoric and Writing 306, *Rhetoric and Writing* | 3 |
| | **Total 18** |
| Spring | |
| Architecture 520L, *Design IV* | 5 |
| Architecture 333, *Site Design* | 3 |
| Civil Engineering 311K, *Introduction to Computer Methods* | 3 |
| Chemistry 301, *Principles of Chemistry I* | 3 |
| Engineering Mechanics 319, *Mechanics of Solids* | 3 |
| | **Total 17** |
| **Third Year** | |
| Fall | |
| Architecture 520M, *Design V* | 5 |
| Civil Engineering 311S, *Probability and Statistics for Civil Engineers* | 3 |
| Civil Engineering 329, *Structural Analysis* | 3 |
| Civil Engineering 314K, *Properties and Behavior of Engineering Materials* | 3 |
| Mechanical Engineering 320, *Applied Thermodynamics* | 3 |
| | **Total 17** |
| Spring | |
| Architecture 530T, *Design VI* | 5 |
| Architectural Engineering 217, *Computer-Aided Design and Graphics* | 2 |
| Architectural Engineering 335, *Materials and Methods of Building Construction* | 3 |
| Architectural Engineering 346N, *Building Environmental Systems* | 3 |
| Mathematics 427J, *Differential Equations with Linear Algebra* or Mathematics 427K, *Advanced Calculus for Applications I* | 4 |
| | **Total 17** |
| **Fourth Year** | |
| Fall | |
| Architecture 368R, *Topics in the History of Architecture* | 3 |
| Civil Engineering 319F, *Elementary Mechanics of Fluids* | 3 |
| English 316K, *Masterworks of Literature* | 3 |
| Approved mathematics or science elective | 3 |
| Social and behavioral sciences core | 3 |
| | **Total 15** |
| Spring | |

| | |
|---|---|
| Architectural Engineering 323K, *Project Management and Economics* | 3 |
| Civil Engineering 331, *Reinforced Concrete Design,* or Civil Engineering 335, *Elements of Steel Design* | 3 |
| Civil Engineering 357, *Geotechnical Engineering* | 3 |
| Community and Regional Planning 369K, *Principles of Physical Planning* | 3 |
| Government 310L, *American Government* | 3 |
| | **Total 15** |
| **Fifth Year** | |
| Fall | |
| Architecture 560R, *Advanced Design* | 5 |
| Architectural Engineering 346P, *HVAC Design*, or Architectural Engineering [~~370~~] 371, [~~*Design of Energy Efficient and Healthy*~~ Building]s *Energy Simulation In Building Design* | 3 |
| Civil Engineering 333T, *Engineering Communication* | 3 |
| History 315K, *The United States, 1492-1865* | 3 |
| Approved technical elective | 3 |
| | **Total 17** |
| Spring | |
| Architecture 335M, *Construction V* | 3 |
| Architectural Engineering 366, *Contracts, Liability, and Ethics* | 3 |
| Architectural Engineering 465, *Integrated Design Project* | 4 |
| Approved technical electives | 6 |
| | **Total 16** |
| **Sixth Year** | |
| Fall | |
| Architecture 560T, *Advanced Design* | 5 |
| Architecture 361T, *Technical Communication* | 3 |
| Architecture 368R, *Topics in the History of Architecture* | 3 |
| Geological Sciences 303, *Introduction to Geology* | 3 |
| History 315L, *The United States since 1865* | 3 |
| | **Total 17** |
| Spring | |
| Architecture 560R, *Advanced Design* | 5 |
| Architecture 362, *Professional Practice* | 3 |
| Architecture 368R, *Topics in the History of Architecture* | 3 |
| Government 312L, *Issues and Policies in American Government* | 3 |
| | **Total 14** |