

OFFICE OF THE FACULTY COUNCIL

THE UNIVERSITY OF TEXAS AT AUSTIN

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December 22, 2015

Judith H. Langlois  
Interim Executive Vice President and Provost  
The University of Texas at Austin  
MAI 201  
Campus Mail Code: G1000

Dear Dr. Langlois:

Enclosed for your consideration and action are 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* (D 13747-13753). The proposal was classified as being of *general* interest to more than one college or school and was approved by the Faculty Council on a no-protest basis on December 14, 2015. The authority to grant final approval on these changes resides with UT System.

Please let me know if you have questions or if I can provide other information concerning this legislation.

Sincerely,

A handwritten signature in black ink, appearing to read "Hillary Hart".

Hillary Hart, Secretary  
General Faculty and Faculty Council

HH:dlr

Enclosures

xc: Gregory L. Fenves, president  
Janet Dukerich, senior vice provost

ec (letter only): Carol Longoria, deputy to the president  
Frederick Steiner, dean, architecture  
Katrina Kosted, undergraduate academic advising coordinator, architecture  
Allen Walser, manager of reporting and analysis, IRRIS  
Brenda Schumann, associate registrar  
Lydia Cornell, program coordinator, provost's office  
Michelle George, administrative manager for faculty affairs, provost's office

## DOCUMENTS OF THE GENERAL FACULTY

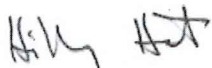
**PROPOSED CHANGES TO THE BACHELOR OF ARCHITECTURE/BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING DUAL DEGREE PROGRAM IN THE SCHOOL OF ARCHITECTURE CHAPTER IN THE *UNDERGRADUATE CATALOG, 2016-2018***

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 minor 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





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
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Site design

ARC 333	Site Design	3
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Construction

ARC 335M	Construction V	3
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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
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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	<del>[Design of Energy Efficient and Healthy Buildings]</del> <i>Energy Simulation In Building Design</i>	
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	Differential Equations with Linear Algebra	4
Or M 427K	Advanced Calculus for Applications I	
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
<b>First Year</b>	
Fall	
Architecture 310K, <i>Design I</i>	3
Architecture 311K, <i>Visual Communication I</i>	3
Architecture 308, <i>Architecture and Society</i>	3
Architectural Engineering 102, <i>Introduction to Architectural Engineering</i>	1
Mathematics 408C, <i>Differential and Integral Calculus</i>	4
Undergraduate Studies 302, <i>First-Year Signature Course</i> or Undergraduate Studies 303, <i>First-Year Signature Course</i>	3
	<b>Total 17</b>
Spring	
Architecture 310L, <i>Design II</i>	3
Architecture 311L, <i>Visual Communication II</i>	3
Architecture 318K, <i>World Architecture: Origins to 1750</i>	3
Mathematics 408D, <i>Sequences, Series, and Multivariable Calculus</i>	4
Physics 303K, <i>Engineering Physics I</i>	3
Physics 103M, <i>Laboratory for Physics 303K</i>	1
	<b>Total 17</b>
<b>Second Year</b>	
Fall	
Architecture 320K, <i>Design III</i>	3
Architecture 221K, <i>Visual Communication III</i>	2

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

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