

**ARC BACHELOR OF ARCHITECTURE/BACHELOR OF SCIENCE IN ARCHITECTURAL  
ENGINEERING DUAL DEGREE PROGRAM**

**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 2018-2020* or *LAW SCHOOL  
CATALOG 2018-2020***

**TYPE OF CHANGE:**<sup>1</sup>  Academic Change  
 Degree Program Change (THECB<sup>2</sup> form required)

**PROPOSED CLASSIFICATION:**<sup>3</sup>  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 SACSCOC APPROVAL IS REQUIRED.**

- Is this a new degree program? Yes  No
- Is this program being deleted? 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:** Changes in course numbering in the Cockrell School of Engineering, the Department  
of Mathematics, and the School of Architecture. NOTE: ARC 561C and ARC 335M are co-requisites, so the  
Suggested Arrangement of Courses now reflects that pairing. This is the “Change in course sequencing for an  
existing program” that is indicated below.

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

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Courses in other colleges                          | <input type="checkbox"/> Courses in proposer’s college that<br>are frequently taken by students in<br>other colleges                                    | <input type="checkbox"/> Flags   |
| <input type="checkbox"/> Course in the core curriculum                                 | <input checked="" type="checkbox"/> Change in course sequencing for an<br>existing program  | <input type="checkbox"/> Courses that have to be<br>added to the inventory |
| <input type="checkbox"/> Change in admission<br>requirements (external or<br>internal) | <input type="checkbox"/> Requirements not explicit in the<br>catalog language (e.g., lists of<br>acceptable courses maintained by<br>department office) |  |

**4. SCOPE OF PROPOSED CHANGE:**

- a. Does this proposal impact other colleges/schools? Yes  No   
If yes, then how would you do so?
- 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.

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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? 0

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

Person communicated with: Sarah Shields/Michelle Meyer

Date of communication: 9/15/2017 / 12/6/2017

Response: Change ME 320 to ME 310T

- e. Does this proposal involve changes to the core curriculum or other basic education requirements (42-hour core, signature courses, flags)? 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.**

Note: THECB Semester Credit Hour Change Form required, download from URL:

<http://www.thecb.state.tx.us/reports/DocFetch.cfm?DocID=2419&format=doc>

If yes, explain:

### 5. COLLEGE/SCHOOL APPROVAL PROCESS

Department approval date: 9/15/2017

College approval date: 9/15/2017

Dean approval date: 9/22/2017

Approved by whom: Associate Dean Juan Miró

Approved by whom: Associate Dean Juan Miró

Approved by whom: Dean Michelle Addington

### PROPOSED NEW CATALOG TEXT:<sup>4</sup>

#### 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 ~~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.

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A student who follows the suggested arrangement of courses 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	Hours
<b>Architecture</b>	
<b>Design</b>	
ARC 310K Design I	3
ARC 310L Design II	3
ARC <del>320K</del> 320D <del>Design III</del> <u>Intermediate Studio I</u>	3
ARC <del>520L</del> 520E <del>Design IV</del> <u>Intermediate Studio II</u>	5
ARC <del>520M</del> 520F <del>Design V</del> <u>Intermediate Studio III</u>	5
ARC <del>530T</del> 520G <del>Design VI</del> <u>Intermediate Studio IV</u>	5
ARC <del>560T</del> 561C <del>Advanced Design</del> <u>Comprehensive Studio</u>	5
ARC 561R Advanced Design (taken twice)	10
<b>Visual communication</b>	
ARC 311K Visual Communication I	3
ARC 311L Visual Communication II	3
ARC 221K Visual Communication III	2
ARC 361T Technical Communication	3
<b>Professional practice</b>	
ARC 362 Professional Practice	3
<b>Site design</b>	
ARC 333 Site Design	3
<b>Construction</b>	
ARC 335M Construction V	3
<b>History</b>	
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 <u>342A-Z</u> Topics in the History of Architecture (taken three times) <u>series course or</u> 368R	9
<b>Community and Regional Planning</b>	

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CRP 369K	Principles of Physical Planning	3
<b>Engineering and Other Degree Requirements</b>		
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 371	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 ( <u>meets the mathematics requirement of the core curriculum</u> )	4
M 408D	Sequences, Series, and Multivariable Calculus	4
M E <del>320</del> 310T	Applied Thermodynamics	3
M 427J	Differential Equations with Linear Algebra	4
or M <del>427K</del>	<del>Advanced Calculus for Applications I</del>	
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

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Approved technical electives	9
Additional coursework to satisfy the core curriculum	24
<b>Total Hours</b>	<b>197</b>

**SUGGESTED ARRANGEMENT OF COURSES**

**First Year**

<b>First Term</b>	<b>Hours</b>	<b>Second Term</b>	<b>Hours</b>
ARC 310K	3	ARC 310L	3
ARC 311K	3	ARC 311L	3
ARC 308	3	ARC 318K	3
ARE 102	1	M 408D	4
M 408C	4	PHY 303K	3
UGS 302 or 303	3	PHY 103M	1
	17		17

**Second Year**

<b>First Term</b>	<b>Hours</b>	<b>Second Term</b>	<b>Hours</b>
ARC <del>320K</del> <u>320D</u>	3	ARC <del>520L</del> <u>520E or 520G</u>	5
ARC 221K	2	ARC 333	3
ARC 318L	3	C E 311K	3
E M 306	3	CH 301	3
PHY 303L	3	E M 319	3
PHY 103N	1		
RHE 306	3		
	18		17

**Third Year**

<b>First Term</b>	<b>Hours</b>	<b>Second Term</b>	<b>Hours</b>
ARC <del>520M</del> <u>520F</u>	5	ARC <del>530T</del> <u>520G or 520E</u>	5
C E 311S	3	ARE 217	2
C E 329	3	ARE 335	3
C E 324P	3	ARE 346N	3
M E <del>320</del> <u>310T</u>	3	M 427J <del>or 427K</del>	4
	17		17

**Fourth Year**

<b>First Term</b>	<b>Hours</b>	<b>Second Term</b>	<b>Hours</b>
ARC <u>342A-Z series course or 368R</u>	3	ARE 323K	3

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C E 319F	3 C E 331 or 335	3
E 316L, 316M, 316N, or 316P	3 C E 357	3
Approved mathematics or science elective	3 CRP 369K	3
Social and behavioral sciences core	3 GOV 310L	3
	15	15

**Fifth Year**

First Term	Hours	Second Term	Hours
ARC <del>561R</del> <u>561C</u>	5	ARE 465	4
<del>HIS 315K</del> ARC 335M	3	ARE 366	3
ARE 346P or 371	3	Approved technical electives	6
C E 333T	3	<del>ARC 335M</del> <u>HIS 315K</u>	3
Approved technical elective	3		
	17		16

**Sixth Year**

First Term	Hours	Second Term	Hours
ARC <del>560F</del> <u>561R</u>	5	ARC 561R	5
ARC 361T	3	ARC 362	3
ARC <u>342A-Z series course or 368R</u>	3	ARC <u>342A-Z series course or 368R</u>	3
GEO 303	3	GOV 312L	3
HIS 315L	3		
	17		14

Total credit hours: 197

<sup>1</sup> See <https://facultycouncil.utexas.edu/degree-program-changes> for detailed explanations.

<sup>2</sup> Submit required Texas Higher Education Coordinating Board forms to the provost's office ([lydia.cornell@austin.utexas.edu](mailto:lydia.cornell@austin.utexas.edu)); downloadable from URL <https://facultycouncil.utexas.edu/theCb-forms>

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<sup>3</sup> **EXCLUSIVE:** of *exclusive* application and of primary interest only to a single college or school ("no protest" period is *seven calendar days*); **GENERAL:** of *general* interest to more than one college or school (but not for submission to the General Faculty) ("no protest" period is *fourteen calendar days*); *major* legislation must be submitted to the General Faculty for adoption ("no protest" period is *fourteen calendar days*).

<sup>4</sup> The proposed text should be based on the text of the current catalog available at:

<http://catalog.utexas.edu/undergraduate/>

**Strike through and replace (with underlines) only the specific language to be changed. Do NOT use track changes, and do not include hyperlinks in the catalog copy.** Submit form electronically to the Office of the General Faculty and Faculty Council at [fc@austin.utexas.edu](mailto:fc@austin.utexas.edu). For questions on completing this section, please contact Victoria Cervantes, [fc@austin.utexas.edu](mailto:fc@austin.utexas.edu), 471-5934 or Brenda Schumann, [brenda.schumann@austin.utexas.edu](mailto:brenda.schumann@austin.utexas.edu), 475-7654.