

Curriculum in Architectural Engineering

Bachelor of Science in Architectural Engineering

Effective Fall 2015

Freshman Year

First Semester	Cr Hrs
ARE 020 ARE Seminar	0
ARE 100 ARE Orientation	2
CHM 210 Chemistry	4
CNS 110 History of Building and Const	3
COMM 105 Public Speaking IA	2
MATH 220 Analytic Geometry and Calculus I	4
	15

Second Semester Cr Hrs

ARE 020 ARE Seminar	0
CNS 210 Graphic Communication I	1
CNS 220 Construction Materials	2
ECON 110 Principles of Macro-Econ	3
MATH 221 Analytic Geometry and Calc II	4
PHYS 213 Engineering Physics I	5
	15

Sophomore Year

Third Semester Cr Hrs

ARE 020 ARE Seminar	0
ARE 295 Introduction to Building Systems	3
CE 333 Statics	3
ENGL 200 ! Expository Writing II	3
MATH 222 Analytic Geometry and Calc III	4
PHYS 214 Engineering Physics II	5
	18

Fourth Semester Cr Hrs

ARE 020 ARE Seminar	0
CE 533 Mechanics of Materials	3
CE 534 Mechanics of Materials Lab	1
CNS 321 Graphic Communications II	3
MATH 240 Elem Differential Equations	4
ME 513 Thermodynamics I	3
*** Science Elective	3
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Junior Year

Fifth Semester	Cr Hrs
ARE 020 ARE Seminar	0
ARE 460 ARE Professional Practice	3
ARE 551 Electrical Systems I	3
ARE 552 Mechanical Systems I	3
ARE 553 Structures I	3
CE 537 Intro to Structural Analysis	3
	15

Sixth Semester Cr Hrs

ARE 020 ARE Seminar	0
ARE 421 Plan Reading and Syst Comm	3
ARE 521 Computer Aided Arch Engg	2
ARE 561 Electrical Systems II	3
ARE 562 Mechanical Systems II	3
ARE 563 Structures II	3
ART 180 2-Dimensional Design	3
or	
ART 190 Drawing I	
or	
ARE 200 3-Dimensional Design	17
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Senior Year

Seventh Semester Cr Hrs

ARE 020 ARE Seminar	0
ENGL 415 Written Comm for Engineers	3
ARE 571 Systems Integration and Design	3
** Comp Elective	3
** Comp Elective	3
/ Comp/Engg Elective	3
	15

Eighth Semester Cr Hrs

ARE 020 ARE Seminar	0
ARE 671 ARE Capstone	4
**** Engineering Elective	3
**** Engineering Elective	3
** Comp Elective	3
* Humanities or Soc Sci Elec	3
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* Humanities and Social Science Electives are to be selected from the official College of Engineering Humanities and Social Science Elective Course List.

** Complementary Electives are to be selected from the approved department list.

*** Science Electives are to be selected from the current approved department list.

**** Engineering Electives are to be selected from the current approved department list.

! English 100, or equivalent, is required before student may enroll in English 200.