

**Architectural Engineering Curriculum
Fall 2021**

Freshman

First Semester			Cr Hrs
ARE	020	ARE Seminar	0
ARE	100	ARE Orientation	2
CHM	210	Chemistry I	4
COMM	105	Public Speaking	2
MATH	220	Anal Geom & Calculus I	4
ECON	110	Principles of Macroeconomics	3
			15

Second Semester			Cr Hrs
ARE	020	ARE Seminar	0
CNS	110	History of Building & Const.	3
CNS	210	Graphic Comm I	1
CNS	220	Construction Materials	2
MATH	221	Anal Geom & Calc II	4
PHYS	213	Engineering Physics I	5
			15

Sophomore

Third Semester			Cr Hrs
ARE	020	ARE Seminar	0
ARE	295	Intro to Bldg Systems	3
CE	333	Statics	3
ENGL	200	Expository Writing II	3
MATH	222	Anal Geom & 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	Mech. Of Materials Lab	1
CNS	321	Graphic Communication II	3
MATH	340	Elem Differential Eq.	4
ME	513	Thermodynamics	3
*** Development Elective			3
			17

Junior

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

Sixth Semester			Cr Hrs
ARE	020	ARE Seminar	0
ARE	421	Plan Reading & System Comm	3
ARE	521	Computer Aided ARE	2
ARE	561	Electrical Systems II	3
ARE	562	Mechanical systems II	3
ARE	563	Structural Systems II	3
ART180, 190 or 200			3
			17

Senior

Seventh Semester			Cr Hrs
ARE	020	ARE Seminar	0
ENGL	415	Written Comm for Engineers	3
ARE	571	Systems Integr & Design	3
**Design Elective			3
**Design Elective			3
****Engr Elective			3
			15

Eighth Semester			Cr Hrs
ARE	020	ARE Seminar	0
ARE	671	ARE Capstone	4
***Design Elective			3
****Engr Elective			3
***Design/Engr/Comp Elect			3
*Humanity/Soc. Sci. Elective			3
			16

* 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 current approved department list.

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

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