

EFFECTIVE: FALL 2009  
**Curriculum in Architectural Engineering**  
 Bachelor of Science in Architectural Engineering

First Semester Course	Sem Cr Hrs	Second Semester Course	Sem Cr Hrs
<b>FRESHMAN</b>			
MATH 220 Analytic Geom & Calc I	4	CNS 320 Construction Materials	2
CHM 210 Chemistry I	4	MATH 221 Analytic Geom & Calc II	4
DEN 210 History of Bldg & Const	3	CHM 210 Chemistry II <b>OR</b>	
ARE 100 Arch Engg Orientation	1	BIOL 198 Prin of Biology	4
GEOL 100 Earth in Action	3	ECON 110 Prin of Macroeconomics	3
ARE 020 Architectural Engg Sem	0	ENGL 100 Expository Writing I	3
	15	ARE 020 Architectural Engg Sem	0
			16
<b>SOPHOMORE</b>			
PHYS 213 Engineering Physics I	5	ART 100 2D Design <b>OR</b>	
COMM 105 Public Speaking IA	2	ART 200 3D Design <b>OR</b>	
ENGL 200 Expository Writing II	3	ART 191 Drawing I	3
MATH 222 Analytic Geom & Calc III	4	CE 333 Statics	3
CNS 200 Comp Appl in Engg & Const Sci	2	PHYS 214 Engineering Physics II	5
ARE 020 Architectural Engg Sem	0	MATH 240 Elem Diff Equations	4
	16	ARE 020 Architectural Engg Sem	0
			15
<b>JUNIOR</b>			
CNS 321 Const Tech & Detailing	3	CNS 325 Construction Drawing	3
CE 533 Mechanics of Materials	3	ARE 534 Thermal Systems	3
CE 534 Mechanics Materials Lab	1	CE 537 Intro Structural Analysis	3
ME 513 Thermodynamics I	3	EECE 519 Elect Circuits & Controls	4
ARE 532 Lighting Systems Design	2	ARE 522 Loading & Load Paths/Bldg	2
IMSE 530 Engineering Economics	2	ARE 310 Intro to AutoCAD	1
CE 212 Elem Surveying Engg	3	STAT 490 Statistics for Engineers	1
ARE 020 Architectural Engg Sem	0	ARE 020 Architectural Engg Sem	0
	17		17
<b>SENIOR</b>			
ARE 411 Arch Engg Design	3	ARE 524 Steel Structures	3
ENGL 415 Written Comm for Engr	3	ARE 536 Plumb/Fire Prot Sys Des	3
ME 512 Dynamics	3	ARE 540 Building Mech Systems	3
ARE 528 Reinforced Concrete Structures	3	ME 571 Fluid Mechanics	3
ARE 533 Building Elect Systems	3	UGE Hum or Soc Sci Elect*	3
ARE 537 Acoustic Systems	2	(Upper Level)	
ARE 020 Architectural Engg Sem	0	ARE 020 Architectural Engg Sem	0
	17		15
<b>FIFTH YEAR</b>			
ARE 590 Integrated Bldg Sys Des	3	ARE 690 Senior Project	3
CE 522 Soil Mechanics I	3	ARE 539 Arch Engg Management	3
Complementary Elective*	3	Complementary Elective*	3
Complementary Elective*	3	Complementary Elective*	3
Free Elective	3	UGE Hum or Soc Sci Elec*	3
ARE 020 Architectural Engg Sem	0	(Upper Level)	
	15	ARE 020 Architectural Engg Sem	0
			15

**Number of hours required for graduation is 158**

- Humanities and Social Science Electives are to be selected from the approved catalog list of UGE courses (see Engineering UGE course requirements).
- Complementary Electives are to be selected from the approved departmental list.