

BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING (BS ARCE)
THE UNIVERSITY OF KANSAS (KU)
For Fall 2016 and Later Matriculations

Fall Semesters

Spring Semesters

FIRST YEAR

ARCE 101	Intro. to Architectural Engineering	2	ARCE 217	Computer Assisted Building Design	3
ARCH 108 ^F	Architectural Foundations	6	ARCH 281	Dsgn Wrkshp II: Dsgn Thinking	3
ENGL 101 ^H	Composition (<i>KU Core: GE2.1</i>)	3	ENGL 102 ^H	Critical Reading and Writing (<i>GE2.1</i>)	3
MATH 125 ^H	Calculus I (<i>GE1.2</i>)	4	MATH 126 ^H	Calculus II	4
Elective	Oral Communications (<i>GE2.2</i>)	<u>3</u>	PHSX 210 ^H	General Physics I (<i>GE1.1</i>)	3
			PHSX 216 ^H	General Physics I Laboratory	<u>1</u>
		18			17

SECOND YEAR

PHSX 212 ^H	General Physics II	3	ARCH 509	Architectural Design IV	6
PHSX 236 ^H	General Physics II Laboratory	1	ARCE 350 ^S	Building Materials Science	3
CHEM 130 ^H	General Chemistry I (<i>GE3N</i>)	5	MATH 220 ^H	Applied Differential Equations	3
MATH 127 ^H	Calculus III	4	ME 312	Basic Engineering Thermodynamics	3
CE 301	Statics and Dynamics	<u>5</u>	CE 310	Strength of Materials	<u>4</u>
		18			19

THIRD YEAR

CE 461	Structural Analysis	4	ARCE 650 ^S	Illumination Engineering I	3
ARCE 660 ^F	Building Thermal Science	3	ARCE 661 ^S	HVAC&R Systems Design	3
CMGT 457 ^F	Construction Project Management	3	CMGT 500 ^S	Construction Engineering	3
CE 330 ^F /ME 510	Fluid Mechanics	3	ARCE 315 ^S / EECS 315	Electric Circuits & Machines	3
ARCH 540	Global History of Arch. I (<i>GE3H</i>)	<u>3</u>	ARCH 541	Global History of Arch. II (<i>AE4.2</i>)	<u>3</u>
		16			15

FOURTH YEAR

CE 562	Design of Steel Structures (<i>AE6.1</i>)		CE 562	Design of Steel Structures (<i>AE6.1</i>)	
or		3	or		3
CE 563	Design of Reinf. Concrete Structures		CE 563	Design of Reinf. Concrete Structures	
ARCE 640 ^F	Power Systems Engineering I	3	ARCE 698 ^S	Comprehensive Design Studio	3
MATH 526	Applied Mathematical Statistics	3	Elective ^H	Social Science (<i>GE3S</i>) ¹	3
MATH 290 ^H	Elementary Linear Algebra	2	Elective ^H	Human Diversity (<i>AE4.1</i>) ¹	3
Elective	Engr. Science or Engr. Design	3	Elective ^H	Ethics/Social Responsibil. (<i>AE5.1</i>) ¹	<u>3</u>
Required ³	Fundamentals of Engineering Exam	<u>0</u>			
		14			15

TOTAL CREDIT-HOURS = 132

¹ See the lists of acceptable General Education (GE) and Advanced Education (AE) *KU Core* courses via kucore.ku.edu

² See the BS ARCE's *Electives List*, available via www.ceae.ku.edu/undergraduate/curriculum.html

³ Taking the Fundamentals of Engineering (FE) Exam is a requirement of this program for graduation.

^(F) Courses are only offered in the Fall Semesters. ^(S) Courses are only offered in the Spring Semesters.

^(H) Honors options available. Consult with your CEAE and University Honors Program advisors for details.