

BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING (BS ARCE)
THE UNIVERSITY OF KANSAS (KU)
For Fall 2019 and Later Matriculations

Fall Semesters			Spring Semesters		
<u>FIRST YEAR</u>					
ARCE 101	Intro. to Architectural Engineering	2	ARCE 217	Computer-Assisted Building Design	3
ARCH 100 ^F	Architectural Foundations I	4	ARCH 101 ^S	Architectural Foundations II	4
ENGL 101 ^H	Composition (<i>KU Core: GE21</i>)	3	ENGL 102 ^H	Critical Reading and Writing (<i>GE21</i>)	3
MATH 125 ^H	Calculus I (<i>GE12</i>)	4	MATH 126 ^H	Calculus II	4
Elective ^H	Oral Communications (<i>GE22</i>) ¹	<u>3</u>	PHSX 210 ^H	Gen. Physics I for Engineers (<i>GE11</i>)	3
			PHSX 216 ^H	General Physics I Laboratory	<u>1</u>
		16			18
<u>SECOND YEAR</u>					
CE 301	Statics and Dynamics	5	ARCE 350 ^{S,H}	Building Materials Science	3
CHEM 150 ^H	Chemistry for Engineers I (<i>GE3N</i>)	5	CE 310 ^H	Strength of Materials	4
MATH 127 ^H	Calculus III	4	ME 312	Basic Engineering Thermodynamics	3
PHSX 212 ^H	General Physics II	3	MATH 220 ^H	Applied Differential Equations	3
PHSX 236 ^H	General Physics II Laboratory	<u>1</u>	MATH 290 ^H	Elementary Linear Algebra	2
			Elective ^H	Social Science (<i>GE3S</i>) ¹	<u>3</u>
		18			18
<u>THIRD YEAR</u>					
ARCH 540 ^F	Global History of Arch. I (<i>GE3H</i>)	3	ARCH 541 ^S	Global History of Arch. II (<i>AE42</i>)	3
ARCH 626 ^F	Bldg. Tech. I: Const. Sys. & Asmbl.	3	ARCE 315 ^S	Electric Circuits & Machines	3
ARCE 660 ^{F,H}	Building Thermal Science	3	ARCE 650 ^S	Illumination Engineering	3
CE 330 ^F /ME 510	Fluid Mechanics	3	ARCE 661 ^S	HVAC&R Systems Design	3
MATH 526	Applied Mathematical Statistics I	<u>3</u>	CE 461	Structural Analysis	<u>4</u>
		15			16
<u>FOURTH YEAR</u>					
ARCE 640 ^F	Power Systems Engineering I	3	ARCE 698 ^S	Comprehensive Design Project	3
CE 562	Design of Steel Structures (<i>AE61</i>)	3	CE 562	Design of Steel Structures (<i>AE61</i>)	3
or		3	or		3
CE 563	Design of Reinfrcd. Concrete Structr.	3	CE 563	Design of Reinfrcd. Concrete Structr.	3
CE 610	Engineering Ethics (<i>AE51</i>) ³	3	CMGT 500 ^S	Construction Engineering	3
CMGT 457 ^F	Construction Project Management	3	Elective ^H	Human Diversity (<i>AE41</i>) ¹	3
Elective ²	Engr. Science or Engr. Design	<u>3</u>	Required ⁴	Fundamentals of Engineering Exam	<u>0</u>
		15			12

TOTAL CREDIT-HOURS = 128

¹ See the lists of acceptable General Education (GE) and Advanced Education (AE) *KU Core* courses at kucore.ku.edu.
² See the BS ARCE's *Electives List* at www.ceae.ku.edu/degree-requirements-arce-bs. ³ Other AE51 courses are also allowed. See footnote (1) above for more information. ⁴ 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.