

**BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING (BS ARCE)
THE UNIVERSITY OF KANSAS (KU)**

For Spring 2013 and Earlier KU BS ARCEs Who Switch to this New Curriculum
For Current Students not in the KU Core

Fall Semesters

Spring Semesters

FIRST YEAR

ARCE 101	Intro. to ARCE (2 of 3 credit-hours)	2	ARCE 217	Computer Assisted Building Design	3
ENGL 101	Composition	3	ENGL 102	Critical Reading & Writing	3
CHEM 150	or CHEM 130/184, Chemistry	5	PHSX 211	Gen. Physics I + PHSX 216 Lab I ²	4
MATH 121	Calculus I	5	MATH 122	Calculus II	5
Elective	Basic Science ¹	<u>1</u>	Elective	Social Science ¹	<u>3</u>
		16			18

Optional Summer Session at KU: Take courses to lighten your first or second year; otherwise a summer job in construction, for gaining field-experience, is recommended

SECOND YEAR

PHSX 212	Gen. Physics II + PHSX 236 Lab II ²	4	Elective	Prof. Skills (e.g., COMS 130) ¹	3
CE 301	Statics and Dynamics	5	ARCE 350	Building Materials Science	3
ME 312	Basic Engineering Thermodynamics	3	ME 510	Fluid Mechanics	3
MATH 220	Applied Differential Equations	3	MATH 526	Applied Mathematical Statistics	3
MATH 290	Elementary Linear Algebra	<u>2</u>	CMGT 357	Engineering Economics	<u>3</u>
		17			15

Optional Summer Session at KU: Take courses to lighten your second or third year; otherwise an internship that includes drafting or BIM is recommended

THIRD YEAR

ARCH 626	Building Tech: Const. Sys. & Assemb.	3	CMGT 500	Construction Engineering	3
CE 310	Strength of Materials	4	CE 461	Structural Analysis	4
EECS 315	Electric Circuits & Machines	3	ARCE 650	Illumination Engineering I	3
ARCE 660	Building Thermal Science	3	ARCE 661	HVAC&R Systems Design	3
Elective	Humanities or Social Science ¹	<u>3</u>	ARCH 540	Global History of Arch. I	<u>3</u>
		16			16

Summer: A pre-architecture student should take summer courses toward the M.ARCH; otherwise consider an engineering internship, coursework, or undergraduate research

FOURTH YEAR³

ARCH 101	Architectural Design Studio	6	ARCH 100	Architectural Studio (3 of 4 credits)	3
CE 562	Design of Steel Structures	3	CE 563	Design of Reinf. Concrete Structures	3
ARCE 640	Power Systems Engineering I	3	Elective	H/SS, or Eng. Science or Design	3
ARCH 541	Global History of Architecture II	<u>3</u>	Elective	ARCH 542, or Humanities/S.S.	3
		15	ARCE 698	or ARCE 680, Capstone Design	<u>3</u>
					15

TOTAL CREDIT-HOURS = 128

¹ See the BS ARCE's *Electives List*, available via www.ceae.ku.edu/undergraduate/curriculum.html

² PHSX 216 not required if PHSX Lab I was already part of your PHSX 211 course; similarly for PHSX 212 and Lab II.

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