

B.S. in architectural engineering

(158 hours)

Pre-professional program

Freshman

Hrs. Fall Semester

2	ENVD 205	Graphics
4	MATH 220	Analytic Geometry and Calculus I
4	CHEM 210	Chemistry I
3	DEN 210	History of Building and Construction
1	ARE 100	Architectural Engineering Orientation
0	ARE 020	Architectural Engineering Seminar
<hr/>		
14		

Hrs. Spring Semester

2	CNS 320	Construction Materials
4	MATH 221	Analytic Geometry and Calculus II
4	CHEM 230	Chemistry II
or		
3	BIOL 198	Principles of Biology
3	ENGL 100	Expository Writing I*
3	GEOL 100	Earth in Action
0	ARE 020	Architectural Engineering Seminar
<hr/>		
16		

Sophomore

Hrs. Fall Semester

5	PHYS 213	Engineering Physics I
2	SPCH 105	Public Speaking IA
3	ECON 110	Principles of Macroeconomics
4	MATH 222	Analytic Geometry and Calculus III
2	CNS 200	Computer Application in Engineering and Construction Science
0	ARE 020	Architectural Engineering Seminar
<hr/>		
16		

Hrs. Spring Semester

3	ART 100	2D Design
or		
3	ART 200	3D Design
3	CE 333	Statics
5	PHYS 214	Engineering Physics II
4	MATH 240	Elementary Differential Equations
0	ARE 020	Architectural Engineering Seminar
<hr/>		
15		

Professional program

Junior

Hrs. Fall Semester

3	CNS 321	Construction Techniques and Detailing
3	CE 533	Mechanics of Materials
1	CE 534	Mechanics of Materials Lab
3	ME 513	Thermodynamics
2	ARE 532	Lighting Systems Design
2	IMSE 530	Engineering Economics
0	ARE 020	Architectural Engineering Seminar
<hr/>		
14		

Hrs. Spring Semester

3	CNS 325	Construction Drawings
3	ARE 534	Thermal Systems
3	CE 212	Elementary Surveying Engineering
3	CE 537	Introduction to Structural Analysis
4	EECE 519	Electrical Circuits and Controls
0	ARE 020	Architectural Engineering Seminar
<hr/>		
16		

Senior

Hrs. Fall Semester

3	ARE 411	Architectural Engineering Design
3	ENGL 415	Written Communication for Engineers*
3	ME 512	Dynamics
2	ARE 522	Loading and Stability of Structures
3	ARE 533	Building Electrical Systems
2	ARE 537	Acoustic Systems
0	ARE 020	Architectural Engineering Seminar
<hr/>		
16		

Hrs. Spring Semester

3	ARE 524	Steel Structures
3	ARE 536	Plumbing/Fire Protection Systems Design
3	ARE 540	Building Mechanical Systems
3	ME 571	Fluid Mechanics
3		Complementary elective**
3		UGE humanities or social science elective (upper level)†
0	ARE 020	Architectural Engineering Seminar
<hr/>		
18		

Fifth year

Hrs. Fall Semester

3	ARE 590	Integrated Building Systems Design
3	CE 522	Soil Mechanics I
3	ARE 528	Reinforced Concrete Structures
3		Complementary elective**
5		Free elective
0	ARE 020	Architectural Engineering Seminar
<hr/>		
17		

Hrs. Spring Semester

3	ARE 690	Senior Project
3	ARE 539	Architectural Engineering Management
4		Complementary elective**
3		Complementary elective**
3		UGE humanities or social science elective (upper level)†
0	ARE 020	Architectural Engineering Seminar
<hr/>		
16		

*Expository Writing II must be taken if prerequisites for Written Communications for Engineers (ENGL 415) are not met from Expository Writing I.

†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.

For more information about architectural engineering, contact:

Department of Architectural Engineering/Construction Science
Kansas State University
240 Seaton Hall
Manhattan, KS 66506-2903
785-532-5964
Fax: 785-532-3556
www.ksu.edu/are-cns/
www.engg.ksu.edu

For more information about Kansas State University, contact:

Office of Admissions
Kansas State University
119 Anderson Hall
Manhattan, KS 66506-0102
785-532-6250
E-mail: k-state@k-state.edu
consider.k-state.edu