

BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING

For Fall 2007 and Subsequent Admissions
(First Year Architectural Design Studio Placement)

FIRST YEAR

ARCE 103	Intro to Architectural Engineering	3	PHSX 211	General Physics I	4
ARCH 100	Architectural Foundations I	4	ARCH 101	Architectural Foundations II	6
ENGL 101	Composition	3	ENGL 102	Composition & Literature	3
MATH 121	Calculus I	5	MATH 122	Calculus II	<u>5</u>
Humanities or Social Science Elective ¹		<u>3</u>			18
		18			

SECOND YEAR

PHSX 212	General Physics II	4	CE 301	Statics and Dynamics	5
ARCH 200	Architectural Foundations III	6	ARCE 217	Computer Assisted Bldg Design	3
EECS 138	Introduction to Computing (C++)	3	CE 625	Applied Probability & Statistics	3
MATH 220	Differential Equations	3	CHEM 184	Foundations of Chemistry I	<u>5</u>
MATH 290	Linear Algebra	<u>2</u>			16
		18			

THIRD YEAR

CE 310	Strength of Materials	4	CE 461	Structural Analysis	4
ARCH 626	Building Technology I	3	ARCH 627	Building Technology II	3
ME 312	Thermodynamics	3	ME 510	Fluid Mechanics	3
EECS 315	Electric Circuits & Machines	3	CMGT 357	Engineering Economics	3
ARCE 350	Building Materials Science	<u>3</u>	ARCH 340	History of Architecture I	<u>3</u>
		16			16

FOURTH YEAR

CE 562	Structural Design I	3	CE 563	Structural Design II	3
ARCH 341	History of Architecture II	3	ARCH 342	History of Architecture III	3
ARCE 660	Building Thermal Science	3	ARCE 661	HVAC&R Systems Design	3
ARCE 645	Power Systems Engineering	3	ARCE 642	Illumination Engineering	3
Engineering Science Elective ²		<u>3</u>	CMGT 500	Construction Engineering	3
		15	Social Science Elective ¹		<u>3</u>
					18

FIFTH YEAR

ARCE 680	Architectural Engineering Design I ³	6	ARCE 681	Architectural Engineering Design II	6
Engineering Design Elective ²		3	Engineering Design Elective ²		3
Architectural Of Engineering Design Elective ^{2,4}		3	Architectural Or Engineering Design Elective ^{2,4}		3
Basic Science Elective ⁵		<u>3</u>	Professional Skills Elective ⁶		<u>3</u>
		15			18

TOTAL HOURS = 165

¹ See list of recommended humanities and social science elective courses.

² See list of recommended engineering science and design elective courses for ARCE emphases.

³ Taking or having previously passed the Fundamentals of Engineering (FE) Exam is a requirement of this course.

⁴ See list of recommended architectural design electives.

⁵ See list of recommended basic science elective courses for ARCE emphases.

⁶ See list of recommended professional skills electives.