

BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING

For Fall 2006 and Subsequent Admissions
(Second Year Architectural Design Studio Placement)

FIRST YEAR

ARCE 103	Intro to Architectural Engineering	3	CHEM 184	Foundations of Chemistry I	5
ENGL 101	Composition	3	ENGL 102	Composition & Literature	3
MATH 12	Calculus I	5	MATH 122	Calculus II	5
EECS 138	Introduction To Computing (C++)	3	PHSX 211	General Physics I	<u>4</u>
Humanities Elective		<u>3</u>			17
		17			

SECOND YEAR

ARCH 100	Architectural Foundations I	4	ARCH 101	Architectural Foundations II	6
MATH 220	Differential Equations	3	ARCE 217	Computer Assisted Bldg Design	3
MATH 290	Linear Algebra	2	CE 301	Statics and Dynamics	5
PHSX 212	General Physics II	4	CE 625	Applied Probability & Statistics	<u>3</u>
Basic Science Elective		<u>3</u>			17
		16			

THIRD YEAR

ARCH 200	Architectural Design I	6	ARCH 201	Architectural Design II	6
CE 310	Strength of Materials	4	CE 461	Structural Analysis	4
ME 312	Thermodynamics	3	ME 510	Fluid Mechanics	3
EECS 315	Electric Circuits & Machines	<u>3</u>	CMGT 357	Engineering Economics	<u>3</u>
		16			16

FOURTH YEAR

ARCH 626	Building Technology I	3	ARCH 627	Building Technology II	3
ARCE 645	Power System Engineering	3	ARCE 642	Illumination Engineering	3
ARCE 660	Building Thermal Science	3	ARCE 661	HVAC&R Systems Design	3
ARCH 640	History of Architecture I	3	ARCE 661	History of Architecture II	3
CE 562	Structural Design I	3	ARCE 661	Structural Design II	3
ARCE 350	Building Materials Science	<u>3</u>	CMGT 400	Construction Administration	<u>3</u>
		18			18

FIFTH YEAR

ARCE 680	Architectural Engineering Design I ¹	6	ARCE 681	Architectural Engineering Design II	6
	Engineering Design Elective ²	3		Engineering Design Elective ²	3
ARCH 642	History of Architecture III	3		Social Science Elective	3
Engineering Science Elective ²		<u>3</u>		Professional Skills Elective ³	<u>3</u>
		15			15

TOTAL HOURS = 165

[Approved 03MAR03/Revised 23JUN06]

¹ Taking or having previously passed the Fundamentals of Engineering (FE) Exam is a requirement of this course.

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

³ See list of recommended professional skills electives.