

2006-2008

ABET ADVISING AID

**Undergraduate Program Leading to Degree of
Bachelor of Science in Architectural Engineering**

The undergraduate program in Architectural Engineering currently is accredited by the Accreditation Board for Engineering Technology (ABET). The minimum ABET criteria are an appropriate combination of MATHEMATICS and BASIC SCIENCES (32 hours), ENGINEERING TOPICS including ENGINEERING SCIENCE AND ENGINEERING DESIGN (48 hours), and GENERAL EDUCATION including HUMANITIES AND SOCIAL SCIENCES (16 hours).

Completion of a program of study in engineering which is accredited by ABET at time of graduation is considered to meet the education requirements for registration as a Professional Engineer by the Texas Board of Professional Engineers.

Students must register for Technical Electives that will combine with their required courses to provide the needed hours in Engineering Topics (48 hours) to meet ABET criteria. The required number of hours in the Math & Basic Science, and General Education categories are already met in the required courses.

The curricular distribution (ENGINEERING TOPICS, etc.) of all courses required in the Architectural Engineering curriculum, including electives, is identified on the attached sheets.

	<u>Math Basic Science</u>	<u>Engr. Science</u>	<u>Engr. Design</u>	<u>Hum. & SS</u>	<u>Other</u>
Mathematics					
M 408C	4				
M 408D	4				
M 427K	4				
Basic Science					
CH 301	3				
PHY 303K	3				
PHY 103M	1				
PHY 303L	3				
PHY 103N	1				
GEO 312K	3				
Math/Science Elective	3 or 4				
English/Humanities/Social Science					
RHE 306					3
E 316K				3	
GOV				3	
GOV				3	
HIS				3	
HIS				3	
Architectural History				3	
Social Science				3	
Engineering Science					
EM 306	0.5	2.5			
EM 319	0.2	2.5	0.3		
ME 320		3.0			
Architectural Engineering					
ARE 102					1
ARE 217		0.5			1.5
ARE 335		0.5	2.5		
ARE 320K			3		
ARE 320L			3		
ARE 323K		3			
ARE 346N		2.5	0.5		
ARE 366		1			2
ARE 465			4		

	Math & Basic Science	Engr. Science	Engr. Design	Hum. & SS	Other
Civil Engineering					
CE 311K	1	2			
CE 311S	2	1			
CE 314K (W)		2	1		
CE 319F		3			
CE 329		3			
CE 331 or CE 335		0.5	2.5		
CE 333T (W)			0.5		2.5
CE 357		2	1		
Sub-Total Required Courses	≥ 32.7	29	18.3	21	10.0
Technical Area Electives					
Structures					
ARE 345K		1	2		
ARE 362L			3		
CE 331 OR CE 335		0.5	2.5		
CE 360K			3		
CE 362M			3		
CE 362N			3		
CE 363	1	2			
CE 375			3		
EM 339	.6	1.9	.5		
Building Environmental Systems					
ARE 346P		1.5	1.5		
ARE 370	.5	1.5	1.0		
ARE 371	1	1	1		
ARE 372	1	1.5	.5		
ARE 377K.2	1	1.5	.5		
CE 341		2	1		
ME 339		3			
ME 374S		3.0			
ME 379M Topic: Fire Science	.5	2.0	.5		
ME 379N		3.0			
Building Construction/Materials					
ARE 350	0.5	0.5	2.0		
ARE 358		1	2		
CE 351		1	2		
ME 349		3			
ME 378K		3			
ME 378P		3			
Total Minimum ABET Required	32	Engr. Topics* ≥ 48		16	0
UT Required*	≥ 32.7	See footnote*	See footnote*	≥ 21	≥ 10.0

(W)Denotes substantial writing component course.

***Note: The Total ABET required for Math/Basic Science is 32; Engineering Topics, which includes Engineering Science and Engineering Design, is 48 hours.**