

Student ID: _____	Bulletin: 2016-2017 Undergraduate Bulletin Program: Architectural Engineering Technology, B.S. Degree Requirements Minimum Credits Required: _____
Student Name: _____	
Adviser Name: _____	

Architectural Engineering Technology, B.S. Degree Requirements

Degree Plan (AETBS)

General Education Curriculum

GEC 01. Written Communication (6 hours)

Course Name	Hours
ENG 101 - Composition One	3 hrs.
ENG 102 - Composition Two	3 hrs.

GEC 02. Natural Science and Mathematics (11 hours minimum)

Science Requirement (8 hours minimum)

Select 2 courses with labs:

Course Name	Hours
AST 111 - General Astronomy I AND	3 hrs.
AST 111L - General Astronomy I Laboratory	1 hr.
AST 112 - General Astronomy II AND	3 hrs.
AST 112L - General Astronomy II Laboratory	1 hr.
BSC 103 - Biology and Society ◊AND	3 hrs.
BSC 103L - Biology and Society Laboratory ◊	1 hr.
BSC 110 - Principles of Biological Science I ◊AND	3 hrs.
BSC 110L - Principles of Biological Science I Laboratory ◊	1 hr.
BSC 111 - Principles of Biological Science II ◊AND	3 hrs.
BSC 111L - Principles of Biological Science II Laboratory ◊	1 hr.
BSC 250 - Human Anatomy and Physiology I AND	3 hrs.
BSC 250L - Human Anatomy and Physiology I Laboratory	1 hr.
BSC 251 - Human Anatomy and Physiology II AND	3 hrs.
BSC 251L - Human Anatomy and Physiology II Laboratory	1 hr.
CHE 104 - Chemistry and Our Environment * AND	3 hrs.
CHE 104L - Chemistry and Our Environment Laboratory *	1 hr.
CHE 106 - General Chemistry I * AND	3 hrs.
CHE 106L - General Chemistry I Laboratory *	1 hr.
CHE 107 - General Chemistry II * AND	3 hrs.
CHE 107L - General Chemistry II Laboratory *	1 hr.
GHY 104 - Weather and Climate AND	3 hrs.
GHY 104L - Weather and Climate Laboratory	1 hr.
GHY 105 - Landforms, Hydrology and Biogeography AND	3 hrs.
GHY 105L - Landforms, Hydrology and Biogeography Laboratory	1 hr.

GLY 101 - Physical Geology * AND	3 hrs.
GLY 101L - Physical Geology Laboratory *	1 hr.
GLY 103 - Historical Geology * AND	3 hrs.
GLY 103L - Historical Geology Laboratory *	1 hr.
MAR 151 - Introduction to Ocean Science AND	3 hrs.
MAR 151L - Introduction to Ocean Science Laboratory	1 hr.
PHY 103 - Introductory Physics AND	3 hrs.
PHY 103L - Introductory Physics Laboratory	1 hr.
PHY 111 - General Physics I * AND	3 hrs.
PHY 111L - General Physics I Laboratory *	1 hr.
PHY 112 - General Physics II * AND	3 hrs.
PHY 112L - General Physics II Laboratory *	1 hr.
PHY 201 - General Physics I with Calculus * AND	4 hrs.
PHY 201L - General Physics I with Calculus Laboratory *	1 hr.
PHY 202 - General Physics II with Calculus * AND	4 hrs.
PHY 202L - General Physics II with Calculus Laboratory *	1 hr.
PSC 190 - Living in a Material World AND	3 hrs.
PSC 190L - Lab for Living in a Material World	1 hr.

Mathematics Requirement (3 hours)

Course Name	Hours
MAT 100 - Quantitative Reasoning ***	3 hrs.
MAT 101 - College Algebra *	3 hrs.
Higher-level MAT course*	

GEC 03. Humanities (9 hours)

Course Name	Hours
ENG 203 - World Literature	3 hrs.

Select 2 courses, 1 History required:

Course Name	Hours
HIS 101 - World Civilizations: Beginnings to 1500 C.E.	3 hrs.
HIS 102 - World Civilizations: 1500 to the present	3 hrs.
PHI 151 - Introduction to Philosophy	3 hrs.
PHI 171 - Ethics and Good Living	3 hrs.
REL 131 - Comparative Religion	3 hrs.

GEC 04. Aesthetic Values (3 hours)

Select 1 course:

Course Name	Hours
ART 130 - Art Appreciation	3 hrs.
DAN 130 - Dance Appreciation	3 hrs.
MUS 165 - The Enjoyment of Music	3 hrs.
THE 100 - Theatrical Expressions	3 hrs.

GEC 05. Social and Behavioral Sciences (6 hours)

Select 2 courses:

Course Name	Hours
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ANT 101 - The Human Experience: A Global Perspective on Human Diversity	3 hrs.
COH 100 - Concepts of Wellness	3 hrs.
ECO 101 - Basic Economics	3 hrs.
GHY 101 - World Geography: Dynamics of a Changing Earth	3 hrs.
PS 101 - American Government	3 hrs.
PSY 110 - General Psychology	3 hrs.
SOC 101 - Understanding Society: Principles of Sociology	3 hrs.

GEC 06. Computer Competency Requirement (Major Area)

Course Name	Hours
ACT 401 - Architectural Studio IV (Capstone)	6 hrs.

GEC 07. Writing-Intensive Requirement (Major Area)

Course Name	Hours
BCT 478 - Applications of Construction Law (WI)	3 hrs.
<i>ENG 101 & ENG 102 prerequisites</i>	

GEC 08. Speaking Intensive Requirement (3 hours)

Select 1 course:

Course Name	Hours
CMS 111 - Oral Communication	3 hrs.
CMS 320 - Business and Professional Speaking	3 hrs.
CMS 330 - Small-Group Communication	3 hrs.

GEC 09. Capstone Requirement (Major Area)

Course Name	Hours
ACT 401 - Architectural Studio IV (Capstone)	6 hrs.
<i>Must be taken Senior Year; ENG 101 & ENG 102 prerequisites</i>	

Note:

*This course satisfies both the GEC requirement and a program requirement for this major.

**This particular GEC course is recommended by this major.

***This course does not satisfy prerequisites for any other math course.

◇ GEC restrictions apply; see here.

GEC 06 - GEC 09 courses are specific to this major.

For full description of the GEC, see here.

Program Curriculum

DEG 01. Major Area of Study Requirements (74 hours)

Course Name	Hours
AEC 132 - Architectural Graphics AND	3 hrs.
AEC 204 - Materials and Methods of Construction AND	3 hrs.
AEC 204L - Materials and Methods of Construction Laboratory	1 hr.
AEC 270 - Statics and Strengths of Materials	3 hrs.
AEC 315 - Mechanical, Electrical and Plumbing Systems	3 hrs.
AEC 315L - Mechanical, Electrical and Plumbing Systems Lab	1 hr.
AEC 344 - Structural Design	3 hrs.
AEC 254 - Estimating I	3 hrs.
ACT 234 - Architectural CADD AND	3 hrs.
ACT 301 - Planning & Codes	3 hrs.
ACT 321 - Architectural History I	3 hrs.
ACT 322 - Architectural History II (WI)	3 hrs.

ACT 336 - Construction Documents I AND	4 hrs.
ACT 363 - Architectural Studio I AND	4 hrs.
ACT 364 - Architectural Studio II AND	4 hrs.
ACT 380 - Specifications and Contract Documents	3 hrs.
ACT 400 - Architectural Studio III	6 hrs.
ACT 401 - Architectural Studio IV (Capstone)	6 hrs.
ACT 450 - Building Information Modeling	3hrs.
BCT 258 - Construction Planning and Scheduling	3 hrs.
BCT 365 - Estimating II	3 hrs.
BCT 478 - Applications of Construction Law	3 hrs.

Select 1 course:

Course Name	Hours
Approved technical elective	
AEC 496 - Industrial Internship (3 hours)	1-6 hrs.

DEG 02. Additional Requirements (9-20 hours)

Course Name	Hours
ART 111 - Design I *	3 hrs.
ART 112 - Design II *	3 hrs.
MAT 103 - Plane Trigonometry ♦*	3 hrs.
MAT 167 - Calculus I with Analytic Geometry *	3 hrs.

Select 2 courses with labs:

Course Name	Hours
CHE 104 - Chemistry and Our Environment *AND	3 hrs.
CHE 104L - Chemistry and Our Environment Laboratory *	1 hr.
CHE 106 - General Chemistry I *AND	3 hrs.
CHE 106L - General Chemistry I Laboratory *	1 hr.
CHE 107 - General Chemistry II *AND	3 hrs.
CHE 107L - General Chemistry II Laboratory *	1 hr.
GLY 101 - Physical Geology *AND	3 hrs.
GLY 101L - Physical Geology Laboratory *	1 hr.
GLY 103 - Historical Geology *AND	3 hrs.
GLY 103L - Historical Geology Laboratory *	1 hr.
PHY 111 - General Physics I *AND	3 hrs.
PHY 111L - General Physics I Laboratory *	1 hr.
PHY 112 - General Physics II *AND	3 hrs.
PHY 112L - General Physics II Laboratory *	1 hr.
PHY 201 - General Physics I with Calculus *AND	4 hrs.
PHY 201L - General Physics I with Calculus Laboratory *	1 hr.
PHY 202 - General Physics II with Calculus *AND	4 hrs.
PHY 202L - General Physics II with Calculus Laboratory *	1 hr.

Select 1 option:

Course Name	Hours
MAT 101 - College Algebra *	3 hrs.

or
Technical Elective ♦

DEG 03. Electives

Choose approved technical electives as needed with adviser's approval. (See Hours to Degree below.)

Note:

♦ If Math ACT score is less than 24, students will be required to take MAT 101.

Hours to Degree

124 hours are needed to graduate with a BS in Architectural Engineering Technology. At least 50 percent of the hours applied to a degree at The University of Southern Mississippi must be earned from a senior college, and 45 of these hours must be in courses numbered 300 or above. The student must earn at least 21 of the last 30 hours of course work and at least 12 hours in the major area of study from Southern Miss. See Residence Hour Requirements for more information.

Notes: