



CATALOG YEAR 2006-2008
(Please use separate form for each add/change)

COLLEGE: Arts and Sciences

Current Catalog Page(s) Affected N/A

Course: Add: _____ Delete: _____ Change: Number _____ Title _____
 (check all that apply) SCH _____ Description _____ Prerequisite _____

If new, provide Course Prefix, Number, Title, SCH Value, Description, prerequisite, and lecture/lab hours if applicable. If in current catalog, provide change and attach page with changes in red and provide a brief justification.

Program: Add: X Change: _____
 Attach new/changed Program of Study description and 4-year plan. If in current catalog, provide change and attach page with changes in red.

Remark: Attached is the proposed program for the business track in the Systems Engineering proposal; pending approval.

Minor: Add: _____ Delete: _____ Change: _____
 Attach new/changed minor. If in current catalog, provide change and attach page with changes in red.

Faculty: Add: _____ Delete: _____ Change: _____
 Attach new/changed faculty entry. If in current catalog, provide change and attach page with changes in red.

College Introductory Pages: Add information: _____ Change information: _____
 Attach new/changed information. If in current catalog, provide change and attach page with changes in red.

Approvals:	Signature	Date
Chair Department Curriculum Committee	_____	_____
Chair Department	_____	_____
Chair College Curriculum Committee	_____	_____
Dean	_____	_____

Bachelor of Science
Major in Systems Engineering (Business Track)

Following is one suggested four-year degree plan. Students are encouraged to see their advisor each semester for help with program decisions and enrollment. Students are responsible for reviewing the Program of Study Requirements.

*See Appendix A Core Curriculum and Optional Course Information

FALL FRESHMAN YEAR	HOURS	SPRING FRESHMAN YEAR	HOURS
COSC 1336/1136	4	Soc/Beh Science	3
ENGL 1301	3	ENGL 1302	3
MATH 2413	4	MATH 2414	4
HIST 1301	3	HIST 1302	3
ENGR 1201	2	ENGR 1204	2
UNIV 1101	(1)	Hlth/Wellness	1
		UNIV 1102	(1)
TOTAL	16 (17)	TOTAL	16 (17)

FALL SOPHOMORE YEAR		SPRING SOPHOMORE YEAR	
PHYS 2325/ 2125	4	PHYS 2326/ 2126	4
MATH 2415	4	MATH 3310	3
ENGR 2303/2103	4	ENGR 2305/2105	4
COMM ELECTIVE	3	SENG 2372	3
PSCI 2305	3	PSCI 2306	3
TOTAL	18	TOTAL	17

FALL JUNIOR YEAR		SPRING JUNIOR YEAR	
ENGR 2370/2170	4	SENG 3301	3
SENG 3310	3	SENG 3330	3
ENGR 2376	3	SENG 3380	3
SENG 3300	3	SENG 3340	3
SENG 3320	3	MKT 3310	3
TOTAL	16	TOTAL	15

SPRING**SENIOR YEAR**

MIS 3310	3
TIL 3310	3
HUM ELECTIVE	3
SENG 3350	3
ENGR/BUSIN FREE ELECTIVE	3

TOTAL	15
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SENIOR YEAR

TIL 3311	3
TIL 3340	3
BA 4399	3
ENGR/BUSIN FREE ELECTIVE	3
VISUAL/PERF ARTS ELECTIVE	3

TOTAL	15
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Bachelor of Science in Systems Engineering Degree Requirements

The B S in Systems Engineering Degree offers two tracks: engineering track and business track.

Engineering Track

Category	Semester Credit Hours	Clock Hours
General Education Core Curriculum <i>(bachelor's degree only)</i>	42	
Required Courses	50	
Prescribed Engineering Electives	18	
Required Mathematics Courses	11	
Business/Engineering Free Electives	6	
University Orientation Classes	2	
Other <i>(Specify, e.g., internships, clinical work)</i>	(if not included above)	
TOTAL	129	

Business Track

Category	Semester Credit Hours	Clock Hours
General Education Core Curriculum <i>(bachelor's degree only)</i>	42	
Required Courses	50	
Prescribed Business Electives	18	
Required Mathematics Courses	11	
Business/ Engineering Free Electives	6	
University Orientation Classes	2	
Other <i>(Specify, e.g., internships, clinical work)</i>	(if not included above)	
TOTAL	129	

The 42 semester credit hours of general education core curriculum requirements at TAMIU are not included in the table below. Students will take Calculus I and University Physics I and II as part of the core curriculum.

Prefix and Number	Required Courses	SCH
COSC 1136	Fundamentals of Programming Laboratory	1
COSC 1336	Fundamentals of Programming	3
ENGR 1201	Foundations of Engineering I	2
ENGR 1204	Engineering Graphics	2
ENGR 2303	Engineering Mechanics-Statics & Dynamics	3
ENGR 2103	Engineering Mechanics-Statics & Dynamics Laboratory	1
ENGR 2305	Principles of Electrical Engineering	3
ENGR 2105	Principles of Electrical Engineering Laboratory	1
ENGR 2370	Introduction to Industrial and Systems Engineering	3
ENGR 2170	Introduction to Industrial and Systems Engineering Laboratory	1
ENGR 2372	Introduction to Design of Experiments	3
ENGR 2376	Conservation Principles in Thermal Engineering	3
SENG 3300 (*)	Engineering Economics	3
SENG 3301 (*)	Technical Communication	3
SENG 3310 (*)	Introduction to Control Systems Engineering	3
SENG 3320 (*)	Engineering Modeling and Design	3
SENG 3330 (*)	Operations Research I	3
SENG(*) 3340	Robotics and Automation	3
SENG(*) 3350	Production Planning and Control	3
SENG 3380 (*)	Engineering Statistics, Quality Control, and Forecasting	3

Prefix and Number	Business and Engineering Electives	SCH
BA 3320	International Business	3
MGT 3310	Principles of Management	3
MKT 3325	Marketing Channels	3
SENG(*) 4370	Introduction to Virtual Manufacturing	3
SENG(*) 4380	Total Quality Engineering	3
SENG(*) 4195-4395	Undergraduate Research	1-3
SENG(*) 419904399	Special Topics in Systems Engineering	1-3