



CATALOG YEAR 2011-2012
(Please use separate form for each add/change)

COLLEGE/SCHOOL/SECTION: _____ College of Arts and Sciences _____
Current Catalog Page(s) Affected: pp. _____ On Line _____

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

If new, provide Course Prefix, Number, Title, SCH Value, Description, prerequisite, lecture/lab (hours if applicable) and **student learning outcomes**. 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.

Pre-Engineering Program [see the attached sheets for details]

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.

Other: 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	_____	_____

Pre-Engineering Curriculum

1. Total number of hours that may transfer: 68
2. Minimum semester credit hours (SCH) for automatic transfer: 42
3. Hours required: A minimum of 33 semester credit hours (SCH).
4. Chemistry: 4 SCH of CHEM 1412.
5. English: 6 SCH including ENGL 1301 and 2311
6. Engineering: 4 SCH including ENG 1201, 1202.
7. Mathematics: 11 SCH including MATH 2413, 2414, 2415 (only 3 SCH will be accepted in transfer).
8. Physics: 8 SCH including PHYS 2125, 2325, 2126 and 2326.
9. Other requirements: 9 additional SCH for automatic admission, to bring total of SCH to 42; 26 additional SCH recommended, to bring total SCH to 68. SCH selected from:
Engineering 2103/2303, 2105/2305 (for non EE majors), ENGR 2176/2376 (for EE majors);
MATH 3330 or 3365 (for ~~ESPE~~ majors); PSCI 2305 or 2305; HIST 1301 or 1302; EDFS 1152
or 1 SCH from 1101, 1104, 1111, 1130 and 1143; Visual/Performing Arts Elective: 3 SCH
selected from ARTS 1316, ARTS 1303, ARTS 1304, ARTS 2316, ARTS 2323, DANC 1242,
DANC 1246 and DANC 2247; Social Science or Visual/Performing Arts Elective: 3 SCH
selected from ARTS 1316, ARTS 1303, ARTS 1304, ARTS 2316, ARTS 2323, DANC 1242,
DANC 1246, DANC 2247, ECO 2301, ECO 2302, PSYC 2301, SOCI 1301 and SOCI 1306.

*Changed to "Computer Science" majors per Dr. Bachnak. 032911

Texas A&M International University
Department of Engineering, Mathematics, and Physics
Pre-Engineering Curriculum

Math Pre-requisites

Summer Session I	Hrs.	Summer Session II	Hrs.
MATH 1314 College Algebra	3	MATH 1316 Plane Trigonometry	3

Two-Year Schedule

Pre-Engineering Curriculum for TAMU students wishing to transfer to the College of Engineering at TAMU

YEAR ONE

Fall Semester	Hrs.	Spring Semester	Hrs.
MATH 2413 Calculus I	4	MATH 2414 Calculus II	4
PSCI 2305 American National Government	3	CHEM 1412 General Chemistry II	4
ENGL 1301 English Composition I	3	ENGL 2311 Technical Writing	3
CHEM 1411 General Chemistry I (Does not transfer. Pre-requisite for CHEM 1412)	4	PHYS 2325/2125 University Physics I	4
ENGR 1201 Foundation of Engineering I	2	ENGR 1202 Foundation of Engineering II	2
HLTH/Wellness Elective (EDFS 1152)	1	Select from EDFS 1101, 1104, 1111, 1130, 1143, 1152	1
TOTAL	17	TOTAL	18

YEAR TWO

Fall Semester	Hrs.	Spring Semester	Hrs.
HIST 1301 The US History to 1877	3	PSCI 2305 American State Government	3
MATH 2415 Calculus III (Equivalent to MATH 251 at TAMU)	4	MATH 3330 Differential Equations or MATH 3365 Discrete Mathematics ¹	3
ENGR 2303/2103 Statics & Dynamics	4	ENGR 2305/2105 Principles of Electrical Engineering or ENGR 2376/2176 Conservation Principles in Thermal Sciences ²	4
PHYS 2326/2126 University Physics II	4	Social/Behavioral Science Elective or Visual/Performing Arts Electives ³	3
Social/Behavioral Science Elective: Select from ARTS 1316, 1317, 1304, 2316, 2323, DANC 1242, 1246, 2247	3	HIST 1302 The US History Since 1877	3
TOTAL	18	TOTAL	16

Summary of Transfer Requirements:

Total required credits (in bold)	= 33*
Additional credits to make 42	= <u>09</u>
Minimum credits required for automatic admission	= 42
Total credit recommended	= 68

* CHEM 1411 General Chemistry I is a pre-requisite for CHEM 1412 General Chemistry II.

MATH 2415 Calculus III is a 4-credit course (equivalent to MATH 251 at TAMU, a 3-credit course)

¹ For CSPC (Computer Science at TAMU)

² Depends on degree program (ENGR 2303/2103 for non-EE majors, ENGR 2376/2176 for EE major)

³ Select from ARTS 1316, ARTS 1317, ARTS 1304, ARTS 2316, ARTS 2323, DANC 1242, DANC 1246, DANC 2247, ANTH 2346, ECO 1301, ECO 2301, ECO 2302, PSYC 2301, SOCI 1301, and SOCI 1306.