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	= 09
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)

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[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.