

Bachelor of Science – Mathematics Major (Four Year Plan)

YEAR 1

Semester 1		Semester 2	
Course Number	Credit Hours	Course Number	Credit Hours
ENG 1301 (Composition I)# P: One of the following: (1) TSI ESSAY score of 4 and WRITING score of 340, (2) TSI ESSAY score of 5 and ABE WRITING diagnostic level 4, (3) TSI WRITING complete, OR (4) TSI WRITING exempt	3	ENG 1302 (Composition II) P: A grade of C or better in ENG 1301 or placement by examination	3
*MATH 2401 (Calculus I)# P: C or better in MATH 1404 or MATH 1505 or placement by exam taken at UHD	4	*MATH 2402 (Calculus II) P: A grade of C or better in MATH 2401 or MATH 2411	4
UHD 1302 (Freshman Seminar - Mathematics) Transfer students see advisor for options	3	*MATH 2409 (Introduction to Proofs)& P: C or better in MATH 1404 or MATH 1505, or in both MATH 1305 and MATH 1306	4
Approved Life and Physical Science course (p. 60) P: Refer to catalog	3	Approved Life and Physical Science course (p. 60) P: Refer to catalog	3
		POLS 2305 (Federal Government) P: Enrollment in or completion of ENG 1301 or 010 core complete	3
Total Semester Hours	13	Total Semester Hours	17

YEAR 2

Semester 3		Semester 4	
Course Number	Credit Hours	Course Number	Credit Hours
*MATH 2307 (Linear Algebra) P: C or better in MATH 2401 or MATH 2305 or MATH 2409	3	MATH 2403 (Calculus III) P: A grade of C or better in MATH 2402	4
MATH 3301 (Diff. Equations) P: A grade of C or better in MATH 2401 and MATH 2402, credit or enrollment in MATH 2307 is recommended	3	MATH 3302 (Probability & Statistics) P: C or better in MATH 2402 or 2421	3
Approved Oral Communication course (p. 60) P: Refer to catalog	3	MATH 3408 (Numerical Methods) P: A grade of C or better in MATH 2307 and MATH 2401, or MATH 2412, or MATH 2422	4
POLS 2306 (Texas Government) P: Enrollment in or completion of ENG 1301 or 010 core complete	3	Minor course Any university approved minor from CST	3
Approved Language, Philosophy, and Culture course (p. 60) P: Refer to catalog	3	Approved Am. Hist. course (p. 60) P: Enrollment in or completion of ENG 1301 or 010 core complete	3
Total Semester Hours	15	Total Semester Hours	17

YEAR 3

Semester 5		Semester 6	
Course Number	Credit Hours	Course Number	Credit Hours
MATH 3307 (Analysis I) P: A grade of C or better in MATH 2402 and MATH 2409	3	MATH 3306 (Introduction to Modern Algebra) P: A grade of C or better in MATH 2307 and MATH 2409	3
MATH Elective course (3000-4000L) See catalog for details	3	MATH Elective course Choose either MATH 3309, MATH 3312, or MATH 3314	3
Minor course Any university approved minor from CST	3	Minor course Any university approved minor from CST	3
Approved Social and Behavioral Sciences course (p. 60) P: Refer to catalog	3	Minor course Any university approved minor from CST	3
DATA 2401 (Data Science I) P: C or better in MATH 1505 Can be substituted for CS 1311 or CS 1410	4	Approved American History course (p. 60) P: Enrollment in or completion of ENG 1301 or 010 core complete	3
Total Semester Hours	16	Total Semester Hours	15

YEAR 4

Semester 7		Semester 8	
Course Number	Credit Hours	Course Number	Credit Hours
MATH 4000L Elective course See catalog for approved course list	3	MATH 4000L Elective course See catalog for details	3
MATH 4395 (Senior Project in Mathematics) P: Senior standing, formal approval by the prospective advisor and the department chair	3	MATH Elective course (3000 - 4000 level) See catalog for details	3
Minor course Any university approved minor from CST	3	Approved Creative Arts course (p. 60) P: Refer to catalog	3
Minor course Any university approved minor from CST	3	Free Elective (if needed)	3
Free Elective (if needed)	3		
Total Semester Hours	15	Total Semester Hours	12

Total Credit Hours Required 120

* Critical course required to stay on track within major and take subsequent courses

Students are expected to place into ENG 1301 and MATH 2401 via CLEP or Bypass exams – placement tests determine which english or math course students should start with and additional courses may be necessary

& Satisfies both common core and major requirement/prerequisite