

Bachelor of Arts in Mathematics

(120 hours)

This is a recommended course sequence based on the UHD 2024-25 Undergraduate Catalog for a degree in BA in Mathematics which equips students to work in many different industries or professions, such as: mathematicians, programmers, educators or data analysts. Courses with asterisks (*) indicate Common Core courses.

First Year					
Semester 1			Semester 2		
Hours	Grade		Hours	Grade	
ENG 1301* (Composition I) <i>P: A TSIA2 score meeting college readiness in Reading and Writing, or TSIA2 Reading and Writing complete, or TSIA2 Reading and Writing exempt</i>	3		ENG 1302* (Composition II) <i>P: A grade of C or better in ENG 1301 or placement by examination</i>	3	
MATH 2401* (Calculus I) <i>P: A grade of C or better in MATH 1505 or placement by exam taken at UHD; Refer to catalog</i>	4		MATH 2402 (Calculus II) <i>P: C or better in MATH 2401</i>	4	
UHD First-year Seminar* <i>Refer to catalog for approved options</i>	3		MATH 2409 (Intro to Proofs) <i>P: C or better in MATH 2401 or MATH 2411 or MATH 2421</i>	4	
Approved Life and Physical Science course <i>P: Refer to catalog</i>	3		Approved Life and Physical Science course <i>P: Refer to catalog</i>	3	
			POLS 2305* (Federal Government) (Summer Option) <i>P: Enrollment in or completion of ENG 1301 or 010 core complete</i>	3	
Total Hours	13		Total Hours	17	
Second Year					
Semester 1			Semester 2		
Hours	Grade		Hours	Grade	
MATH 2307 (Linear Algebra) <i>P: C or better in MATH 2401 or MATH 2305 or MATH 2409</i>	3		MATH 3302 (Probability & Stats.) <i>P: C or better in MATH 2402 or MATH 2421</i>	3	
MATH 3301 (Differential Equations) <i>P: A grade of C or better in MATH 2412, or in MATH 2422, or in both MATH 2307 and MATH 2402</i>	3		MATH 3408 (Numerical Methods) <i>P: C or better in both MATH 2307 and MATH 2401, or MATH 2412, or MATH 2422</i>	4	
POLS 2306* (Texas Government) (Summer Option) <i>P: Enrollment in or completion of ENG 1301 or 010 complete</i>	3		Approved American History course (Summer Option) <i>P: Refer to catalog</i>	3	
Approved Oral Communication Course* (Summer Option) <i>Refer to catalog for approved options</i>	3		MATH 2403 (Calculus III) <i>P: C or better in MATH 2402</i>	4	
Approved Language, Philosophy, and Culture course* (Summer Option) <i>Refer to catalog for approved options</i>	3		Approved Minor course (Teaching Certification or minor from COB, CHSS, or CPS)	3	
Total Hours	15		Total Hours	17	

Third Year					
Semester 1			Hours	Grade	
DATA 2401 (Data Science I) *Can be w/ CS 1411 <i>P: C or better in MATH 1505</i>			4		
Approved Social & Behavioral Sciences Course* (Summer Option) <i>Refer to catalog for approved options</i>			3		
MATH Elective (3000-4000 level) <i>Refer to catalog for approved options</i>			3		
MATH 3307 (Analysis I) <i>P: C or better in MATH 2402 and MATH 2409</i>			3		
Approved Minor course (Teaching Certification or minor from COB, CHSS, or CPS)			3		
Total Hours			16		
Semester 2			Hours	Grade	
MATH 3306 (Intro to Modern Algebra) <i>P: C or better in MATH 2307 - Linear Algebra and MATH 2409</i>			3		
MATH Elective Choose either MATH 3309, MATH 3312 or MATH 3314			3		
Approved Minor course (Teaching Certification or minor from COB, CHSS, or CPS)			3		
Approved Minor course (Teaching Certification or minor from COB, CHSS, or CPS)			3		
Approved American History course (Summer Option) <i>P: Refer to catalog</i>			3		
Total Hours			15		
Fourth Year					
Semester 1			Hours	Grade	
MATH Elective (4000 level) <i>Refer to catalog for approved options</i>			3		
MATH 4395 (Senior Project) <i>P: Senior standing, formal approval by the prospective advisor and the department chair</i>			3		
Approved Minor course (Teaching Certification or minor from COB, CHSS, or CPS)			3		
Approved Minor course (Teaching Certification or minor from COB, CHSS, or CPS)			3		
Free Elective (if needed)			3		
Total Hours			15		
Semester 2			Hours	Grade	
Approved Creative Arts course* (Summer Option) <i>Refer to catalog for approved options</i>			3		
MATH Elective (4000 level) <i>Refer to catalog for approved options</i>			3		
MATH Elective (3000-4000 level) <i>Refer to catalog for approved options</i>			3		
Free Elective (if needed)			3		
Total Hours			12		

<div>15 to Finish</div> <div>Fall: 15 hours • Spring: 15 hours</div>	<div>30 in 3</div> <div>Fall: 12 hours • Spring: 12 hours • Summer: 6 hours</div>
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