



Bachelor of Science in  
**MATHEMATICS/PHYSICS (Certification 7-12)**

MAJOR MAP | 2019-2020



FRESHMAN

**YOUR CLASS SCHEDULE**

- Take core curriculum courses.
- Complete courses that are pre-requisites to higher division courses in your major and which align to the teacher certification exam: MATH 1508 or 1411, MATH 2313.

**ACADEMIC ADVISING**

- Register for the first available New Student Orientation.
- Schedule an appointment early each semester with your College of Science Secondary Education Advisor.
- Ask your advisor about joining a learning community.

**ENRICHING EXPERIENCES**

- Explore student organizations such as Future Educators of Math and Science (FEMaS), Club Zero, the Statistics Club, and the Actuarial Science Association. Ask for more information at the at the Math Department office.
- Discover volunteer opportunities with the Center for Civic Engagement.
- Meet new people and visit Club Zero's social hub in Bell Hall 141.

**LIFELONG SUCCESS**

- Research the diverse aspects of math education, such as teaching English Language Learners or children from other cultures and communities.
- Promote math in the community by working with a local math teacher, judging a science fair, tutoring a neighbor, or helping low-income senior citizens do their taxes.
- Talk to a financial aid advisor about loan forgiveness for teachers.

SOPHOMORE

- Take mathematics courses that align to the Math 7-12 Qualifying Exam, including MATH 3325, MATH 3329, and STAT 3325.
- Attend the TExES Boot Camp in Maymester to prepare for the Math 7-12 Qualifying Exam.
- Balance stringent core courses with electives.
- Visit the MaRCS center for help.

- Schedule an appointment early each semester with your College of Science Secondary Education Advisor.
- Create your personal graduation plan and certification timeline with your advisor.

- Cultivate a leadership role with your student organization.
- Investigate volunteer opportunities with summer camps in area schools or apply to summer research opportunities at UTEP and across the nation.
- Experience unique professional development opportunities by becoming an ADP MaST Academy Scholar.
- Expand your global awareness with a Study Away course during Summer or Maymester.

- Visit the University Career Center for professional development resources.
- Review your graduation timeline, including your certification exams and student teaching.

JUNIOR

- Complete remaining core curriculum courses.
- Progress with your major courses.
- Prepare for and pass your Math 7-12 Qualifying Exam, and apply to the Teacher Education Program early in your Junior Year. As soon as you receive your letter of admission, request permission to take the TExES Math 7-12 Certification Exam and pass it.
- Begin taking your Secondary Education Minor courses.
- Pass your PPR exams.

- Schedule an appointment early each semester with your College of Science Secondary Education Advisor.
- Request an updated degree plan when you pass your Mathematics 7-12 Qualifying Exam.
- Review your personal graduation plan and certification timeline with your advisor.

- Expand your leadership activities with Future Educators of Math and Science (FEMaS), Club Zero, the Statistics Club, and/or the Actuarial Science Association.
- Participate in Project MOVE and expand your community engagement efforts with the Center for Civic Engagement.
- Develop experience by tutoring at a school, judging science fairs, or becoming a peer leader for freshmen classes.

- Explore graduate programs in mathematics education.
- Discover opportunities beyond the classroom, such as coaching a sport or UIL team.
- Cultivate relationships by volunteering at a school. This will help you secure a teaching job.
- Research ESL Certification requirements and investigate international teaching opportunities.
- Visit the S.O.S. MATHematics website for free review materials.

SENIOR

- Finish your certification exams and apply to student teach before the deadlines set by the College of Education.
- Complete all courses except student teaching the semester before you plan to graduate.
- Explore degree requirements for graduate programs in mathematics education.

- Schedule an appointment early each semester with your College of Science Secondary Education Advisor.
- Schedule an appointment with the College of Science to clear for graduation.

- Enhance your resume by attending a local or state conference in mathematics education. Some have free registration if you volunteer to help or deliver a presentation.
- Reflect on the broader impacts and applications of mathematics education, and identify emerging trends in your field.

- Review application timelines and requirements if you are pursuing graduate studies.
- Attend Teacher Job Fairs at UTEP and throughout the region.
- Visit the Career Center to review your resume, prepare for interviews, and create a Professional Portfolio.

UPDATED 06/29/2018

**EDGE ADVANTAGES | UTEP students will graduate with these skills:**

- Leadership
- Problem-solving
- Communication
- Entrepreneurship
- Social Responsibility
- Confidence
- Global Awareness
- Teamwork
- Critical Thinking

**CAREER POSSIBILITIES:**

- Mathematics Teacher
- Mathematics Coach
- Administration



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College of Science					Updated: NCM 10-9-17						
<b>Bachelor of Science Degree Plan</b> <b>Note: Unofficial - Based on New Catalog</b> <b>Mathematics - Secondary Educator Minor</b> (120/37)											
Name			Address			Date					
Major: <b>Mathematics</b>			Minor: <b>Secondary Education</b>			Certification: <b>Math/Physics 7 - 12</b>					
Department Chair: <b>Dr. Maria Cristina Mariani</b>					Advising Director: <b>Dr. Tina Garza</b>						
You must have an overall and math/science UTEP GPA of at least 2.75 to declare this major.											
Secondary Education Advisor: <b>Ellen Esposito</b>					Departmental Advisor: <b>Dr. Andrew Pownuk</b>						
<b>REQUIREMENTS ***</b>											
A		Items	Subjects	Has	Needs	B		Items	Subjects	Has	Needs
<b>General Education</b>		(Minimum "C" grades required)				<b>MAJOR: Mathematics (46/30)</b>					
<b>1</b>		<b>Communication:</b>			6	MATH 1411					4
		COMM 1611, ESOL 1311, ESOL 1312,				MATH 1312					3
		RWS 1301, RWS 1302, RWS 1601				MATH 2313					3
<b>2</b>		<b>Mathematics</b>				MATH 2300 or MATH 2325					3
		MATH 1411 (see Block B)				MATH 2326					3
		MATH 1312 (See Block B)				MATH 3325					3
<b>3</b>		<b>Life and Physical Sciences **</b>				MATH 3323 or MATH 4326					3
		See Block C				MATH 3341					3
						MATH 3300					3
						MATH 3329 (Geometry)					3
						STAT 3330 and STAT 4380 or					6
						STAT 3325 and STAT 4385					6
						MATH 4303					3
						Two of the following:					6
						MATH 3319, MATH 3327, MATH 4325,					
						MATH 4329, MATH 3328 (not-Geometry),					
						MATH 4341.					
<b>4</b>		<b>Language, Philosophy, &amp; Culture</b>				<b>C</b>		<b>Physics</b>			
		ENGL 2311, 2312 2313, 2314, 2318,		3		PHYS 2420 or PHYS 2320-2121 and				4	
		HIST 2301, 2302, PHIL 1301, 2306				PHYS 2421 or PHYS 2321-2121				4	
		FREN 2322, RS 1301, SPAN 2340,				PHYS 3323				3	
		WS 2300, WS 2350				PHYS 2325				3	
<b>5</b>		<b>Creative Arts</b>				<b>D</b>		<b>Additional Required Courses</b>			
		ART 1300, ARTH 1305, ARTH 1306,		3		RWS 3359				3	
		DANC 1304, FILM 1390, MUSL 1321,				CS 1320 or CS 1301-1101				3	
		MUSL 1324, MUSL 1327, THEA 1313									
<b>6</b>		<b>American History</b>				<b>E</b>		<b>Electives</b>			
		HIST 1301		3		Additional Semester Hours				0	
		HIST 1302		3							
<b>7</b>		<b>Government/Political Science</b>				<b>Minor: Secondary Education</b>					
		POLS 2310		3		SCED 3311				3	
		POLS 2311		3		SCED 4367				3	
<b>8</b>		<b>Social and Behavioral Sciences</b>				RED 3342				3	
		ANTH 1301, 1302, 1310, 2320, CE 2326,		3		EDPC 3300				3	
		COMM 2350, 2372, ECON 2303, 2304,				SCED 3317				3	
		EDPC 1301, EDU 1342, ENGL 2320,				SCED 4691 Internship				6	
		GEOG 1310, LING 2320, 2340, PSYC 1301,									
		SOC 1301, SOCI 1310									
<b>9</b>		<b>Component Area Option</b>									
		BUSN 1301, COMM 1301, COMM 1302,		6							
		CS 1310, CS 1320, SCI 1301, UNIV 1301									
<b>TOTAL HOURS</b>										0	120

**COMMENTS:**

This degree plan is just a sample. Your individualized degree plan may differ.

Dr. Nancy Marcus, Associate Dean, College of Science