

## FIRST YEAR

Choose 1 Communication  
 MATH 2413 Calculus I  
 Choose 1 American History  
 UTCH 1101 Inquiry Approaches to Teaching  
 \*Choose 1 Integrative/Experiential Learning  
 Choose 1 Creative Arts  
 UNIV 1301 Learning Framework  
 Choose 1 Communication  
 MATH 2414 Calculus II  
 MATH 2318 Linear Algebra  
 Choose 1 American History  
 UTCH 1102 Inquiry-Based Lesson Design  
 \*Choose 1 Social and Behavioral Sciences

## SECOND YEAR

MATH 1350 Fundamentals of Mathematics I  
 MATH 2415 Calculus III  
 Choose 1 Government/Political Science  
 \*Choose 1 Life and Physical Sciences  
 Choose 1 Language, Philosophy & Culture  
 MATH 1351 Fundamentals of Mathematics II  
 MATH 3350 Intro to Mathematical Proof  
 Choose 1 Government/Political Science  
 UTCH 3301 Knowing & Learning in Math & Science  
 \*Choose 1 Integrative/Experiential Learning  
 \*Choose 1 Life and Physical Sciences

## THIRD YEAR

MATH 3341 Differential Equations  
 MATH 3352 Modern Geometry I  
 MATE 3301 Fund. of Middle School Math  
 MATE 3321 Functions and Modeling  
 UTCH 3302 Classroom Interactions  
 MATH 3363 Modern Algebra I  
 MATH 3372 Real Analysis I  
 MATE 3302 Fund. of Measurement & Geometry I  
 MATE 3304 Fund. of Algebraic Structures  
 READ 4305 Content Area Literacy

## FOURTH YEAR

MATH 4390 Mathematics Project  
 MATE 3303 Fund. of Measurement & Geometry II  
 MATE 3317 Perspectives in Math & Science  
 STAT 3337 Probability and Statistics  
 UTCH 3303 Project-Based Instruction  
 MATE 4319 Research Methods in Middle School Mathematics  
 UTCH 4101 Apprentice Teaching Seminar  
 UTCH 4601 Apprentice Teaching

### 2018-2019 ACADEMIC PLAN

### Degree Info

Mathematics is both an exact science and a highly creative endeavor; a field of study that develops problem-solving skills and a passion for inquiry. Mathematics majors are surprisingly attractive to many professional branches in our society, particularly intelligence, technology, finance, security, engineering and physics. Mathematics Majors with Teacher Certification are attractive to the growing demand for teachers in high schools, middle schools and elementary schools. A BS in Mathematics will prepare the graduate for a competitive position in society and provide the necessary preparation graduate for an exciting and rewarding teaching position and for graduate studies.

UTRio Grande Valley

# BLUE PRINT

**MATHEMATICS (BS)**  
 \*4<sup>th</sup>-8<sup>th</sup> Middle School UTeach  
 Certification  
**Catalog: 2018-19**  
 COLLEGE OF SCIENCES

### Contact Info

School Director  
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Departmental Office  
 Phone Number  
 956-665-3451

### Additional Info

Graduation requirement  
 You must complete all these major course requirements and all MATH and MATE courses with grades of 'C' or better and have with a GPA for the major of 2.5 or better.

\*Please review degree plan for course recommendations.

Courses in red are part of the General Education Core Curriculum (GEC).

"Choose 1" Indicates course options. If options are not listed, please review the 2018-19 General Education Core or the degree plan for this major: [www.utrgv.edu/degreeplans](http://www.utrgv.edu/degreeplans).

# BLUEPRINT EXPERIENCES

## FIRST YEAR

## SECOND YEAR

## THIRD YEAR

## FOURTH YEAR AND BEYOND

## CAREERS

### MILESTONES

- UTRGV has a Writing Center and a Learning Center. Make it a point to visit them!
- Complete your core English classes (section 010) during your first year.
- Complete 30 credit hours every year in order to graduate in 4 years.
- Shoot for a GPA of 3.0.
- Take MATH 2413 in your first year. See degree plan for options

- Shoot for a GPA of 3.0.
- Complete major foundation classes such as MATH 1350 & MATH 1351. See degree plan for options.
- Complete 30 credit hours.
- Apply to the UTeach program. Visit [www.utrgv.edu/cep](http://www.utrgv.edu/cep) for more information.

- Shoot for a GPA of 3.0.
- Complete 30 credit hours.
- Have you landed an internship or acquired research experience? This is the year to make it happen.

- Shoot for a GPA of 3.0.
- "I have a plan for after graduation." If this describes you, great! If not, visit your Faculty Advisor or Career Center!
- Register for your Capstone/senior/portfolio project. Research Methods.
- Complete at least 30 credit hours to graduate.
- Submit your application(s) for graduate school, an apprenticeship, or for fulltime employment.

### ADVICE & SUPPORT

- Meet with your academic advisor and bring your orientation folder with you to every session!
- Choose a major with confidence- Visit my.UTRGV.edu and check out MyMajors.
- Visit a faculty member during their office hours and ask a question about class.
- Classes fill up fast. When registration opens, be sure to register on the first day for your group.
- Cold or flu getting you down? We have Student Health Services on campus with free office visits.

- Want to explore different careers? Check out MyMajors!
- Come ready with course suggestions and questions when you visit your academic/UTeach advisor.
- Visit the Communication Hauser Lab for help with your speeches.
- Trouble making your tuition payment? The Financial Aid Office can help. Payment plans and emergency loans are also available

- Seek out research opportunities within your major and join a professional organization such as RGVCTM (NCTM RGV Chapter).
- Check DegreeWorks to make sure you are on track for graduation next year.
- Apply for internship and/or job shadowing opportunities. Discuss this with your advisor, faculty mentor, or Career Center.

- Engage in an independent study project or an academic internship to complement your major.
- Discuss future plans with your faculty mentor or advisor that includes employment, finances, and other life goals.
- Apply for graduation one semester prior to your anticipated date. Visit the Academic Advising Center to ensure you are on track.

### APPLY WHAT YOU LEARN

- Look for a service-learning course! For guidance, visit Engaged Scholarship & Learning Office.
- Participate in a campus-sponsored community service project.
- Ask a student in class to study with you.

- To find undergraduate research opportunities, visit the Engaged Scholarship & Learning Office.
- Consider attending the LeaderShape Institute or attend the Engaged Scholar Symposium.

- Go show off your research, service-learning or creative works at the Engaged Scholar Symposium!
- Sharpen your writing skills! Visit the Writing Center or become the secretary for your organization.

- Continue to present research or creative works at the Engaged Scholar Symposium or at RGVCTM conference.
- Set up an informational interview with an individual (especially an alumnus) currently in the field you aspire to work in.

### GLOBAL, CAMPUS & COMMUNITY ENGAGEMENT

- Set up your profile on the Engagement Zone through My.UTRGV.edu.
- Attend a diversity based campus or community event (e.g. MLK Day of Service).
- Attend a departmental program!
- Join a student organization! Visit VLink ([utrgv.edu/vlink](http://utrgv.edu/vlink)) for options.

- Look at study abroad opportunities!
- Check out a cultural campus or community event such as HESTEC or FESTIBA.
- Join another student organization. Visit VLink for options.
- Check out a campus event that offers free lunch- bring a friend!

- Consider serving on a campus life/community committee or become a student leader and make a difference. Visit VLink or speak with your Student Government Association for more information!
- Travel the world! Look into study abroad opportunities at Office for International Programs & Partnerships.

- Identify employers of interest and seek them out at job fairs, online, at on-campus information sessions, staffing agencies, etc. The Career Center can help.
- Before a job interview, schedule a mock interview with the Career Center or speech coaching with the Communication Hauser Lab.

### LIFE AFTER GRADUATION

- Create a résumé and set up your profile on the Handshake icon: ([My.UTRGV.edu](http://My.UTRGV.edu)).
- Got summer plans? Visit Career Center and ask about places to do some job shadowing.
- Research shows that students who work on campus perform better than those who work off campus. Look for a job on Handshake!
- Check your UTRGV email for the daily Messenger- locate and attend one student workshop.

- Update your resume in Handshake and have it reviewed.
- Visit the Career Center site to find a job fair to attend. At the event, approach a recruiter and discuss internships.
- Will a minor expand your career options? Perhaps something within physics or engineering? Discuss this with your Academic Advisor.
- Explain to someone how your academic program aligns with your strengths and interests.

- Check out the UTeach program website for postings on career/graduate school.
- Think about three people you can ask for letters of recommendation (professors, mentors, advisors, supervisors, etc.). Give them at least two weeks' advance notice!
- When is the deadline for your graduate school application? Visiting the program admissions webpage. Most do not accept late applicants!

- Have you received your acceptance for graduate school or an employment offer? If not, network: talk to faculty, the Career Center, and get on LinkedIn.
- Formulate and implement a strategy for life after graduation: attend career fairs, graduate fairs, apply to fellowships, etc.
- Update your information with Alumni Relations. Enjoy alumni mixers, events and continued access to Career Center services!
- Remember to do your exit loan counseling on [studentloans.gov](http://studentloans.gov).

- Teaching
- Research
- Higher education administration
- Public and private K-12 schools

For additional info, visit the Career Center website and check out "What Can I Do With This Major?" [www.utrgv.edu/careercenter](http://www.utrgv.edu/careercenter)