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.

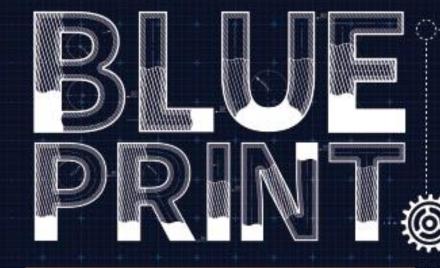
Additional Info

Phone Number 956-665-3451

Departmental Office

eleftherios.gkioulekas@utrgv.edu

MATHEMATICS (BS) *Science and Engineering Catalog: 2019-20 **COLLEGE OF SCIENCES**



UTRio Grande Valley

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.

Contact Info

School Director

Dr. Timothy Huber

timothy.huber@utrgv.edu

School Associate Director

Dr. Jerzy Mogilski

jerzy.mogilski@utrgv.edu

Undergraduate Program Director

Dr. Eleftherios Gkioulekas

2019-2020 ACADEMIC PLAN

SECOND YEAR

FIRST YEAR

Choose 1

33XX-43XX Major Advanced Elective 33XX-43XX Major Advanced Elective I sideglA nieboM £8££ HTAM

Language, Philosophy & Culture Choose 1 *Choose 1 Life and Physical Sciences Choose 1

*Choose 1 Life and Physical Sciences Integrative/Experiential Learning *Choose 1 Government/Political Science Choose 1 MATH 3350 Intro to Mathematical Proof MATH 3352 Modern Geometry I

Communication Choose 1 UNIV 1301 Learning Framework Creative Arts Choose 1 Integrative/Experiential Learning *Choose 1 American History Choose 1 MATH 2413 Calculus I

Communication

*Choose 1 Social and Behavioral Sciences American History Choose 1 6 Black Algebra Algebra Algebra MATH 2414 Calculus II

*Please review degree plan for course recommendations. "Choose 1" Indicates course options. If options are not listed, please review the General Education Core or the degree plan for this major: www.utrgv.edu/degreeplans. Courses in red are part of the General Education Core Curriculum (GEC).

FOURTH YEAR

XXXX-X3XX Free Elective

X3XX-X3XX Major Elective

X3XX-X3XX Free Elective

33XX-43XX Free Advanced Elective

33XX-43XX Major Advanced Elective

X3XX-X3XX Free Advanced Elective

33XX-43XX Major Advanced Elective

33XX-43XX Major Advanced Elective

MATH 4390 Mathematics Project

THIRD YEAR

SXX-XXXX Free Elective

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X3XX-X3XX Free Elective

X3XX-X3XX Major Elective

33XX-43XX Major Advanced Elective

33XX-43XX Major Advanced Elective

STATS 3337 Probability and Statistics

Government/Political Science MATH 3341 Differential Equations III suluslas Calculus III

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	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 3.5. □Take MATH 2412 in your first year. □Take MATH 1342 Elementary Statistical Methods □Meet with your academic advisor and bring your orientation folder with you to every session! □Choose a major with confidence- Visit	□Shoot for a GPA of 3.5. □Complete major foundation classes, such as Math 2413, 2414, and 2415. □Complete 30 credit hours. □Want to explore different careers? Check out MyMajors! □Come ready with course suggestions and questions	□Shoot for a GPA of 3.5. □Complete 30 credit hours. □Have you landed an internship or acquired research experience? This is the year to make it happen. Ask your favorite professor about research opportunities. □Enroll in upper level courses for your concentration and major such as MATH 3372 Real Analysis I. □Seek out research opportunities within your major and join a professional organization such as American Mathematical Society.	□Shoot for a GPA of 3.00. □"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 project: MATH 4390 Math Project. □Enroll in Senior level courses in Mathematics, Engineering, or Computer Science. □Complete at least 30 credit hours to graduate. □Submit your application(s) for graduate school in the fall, an apprenticeship, or for fulltime employment. □Discuss future plans with your faculty mentor or advisor that include employment, finances, and other life goals. □Apply for graduation one semester prior to your anticipated	 Theoretical Research Applied Research Modeling and simulation Numerical methods and analysis Statistics and probability Engineering analysis Differential equations Operations research Discrete mathematics Accounting and finance Computer programming Computer systems Analysis operations Sales and marketing management Actuarial science Engineering Analysis and control of processes Optimization and scheduling of resources Programming Systems development Systems analysis
ADVICE & SUPPORT	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.	when you visit your academic advisor. □Visit the Communication Hauser Lab for help with your presentations, especially capstone presentations. □Trouble making your tuition payment? The Financial	□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.	date. Visit your advisor to ensure you are on track. □Ask the Career Center and your faculty mentors for feedback on your resume, cover letters, and other job application documents. □Consider applying for a Masters of Doctoral Program. You can	
APPLY WHAT YOU LEARN	□Cold or flu getting you down? We have Student Health Services on campus with free office visits. □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.	Aid Office can help. Payment plans and emergency loans are also available □To find undergraduate research opportunities, visit the Engaged Scholarship & Learning Office. □Consider attending the LeaderShape Institute or attend the Engaged Scholar Symposium.	□Look for future scholarships and fellowships to apply for during the fall of your senior year. Visit utrgv.edu/cstem. □Go show off your research, service-learning or creative works at the Engaged Scholar Symposium! □Sharpen your writing skills! Take proof-rich courses beginning with MATH 3350, Introduction to Mathematical Proof Writing, or become the secretary for your organization.	start either type of graduate degree with your BS in Mathematics. Continue to present research or creative works at the Engaged Scholar Symposium or at State or National meetings of the Society for Industrial and Applied Mathematics and the American Mathematical Society. Set up an informational interview with an individual (especially an alumnus) currently in the field you aspire to	
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 School Colloquium or Departmental seminar, and drop by your favorite professor's office to talk about research opportunities. □Join a student organization! Consider looking into Society for Industrial and Applied Mathematics (SIAM) or visit VLink (utrgv.edu/vlink) for other	□Look at study abroad opportunities or consider applying to UT-LSAMP or other internal or external summer research projects. Click on Student resources at http://www.utrgv.edu/cstem/ □Check out a cultural campus or community event such as HESTEC or FESTIBA. □Join another student organization. Perhaps the Society for the Advancement of Chicanos/Hispanics & Native Americans in Science (SACNAS) or visit VLink for options.	□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! □Engage in outreach programs to local schools to complement your major. Consider joining the Experimental Algebra and Geometry group and participating in their outreach program. □Travel the world! Look into study abroad opportunities at Office for International Programs & Partnerships.	work in. 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. Ask your favorite professor or faculty mentor for career advice and to review your application materials.	
LIFE AFTER GRADUATION	options. Create a résumé and set up your profile on the Handshake icon: (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.	□ Check out a campus event that offers free lunchbring a friend! □ 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? We recommend_Computer Science, Physics, or Engineering. □ Explain to someone how your academic program aligns with your strengths and interests	□Check out the Center for Excellence in STEM program department website for postings on career/graduate school. Click on Student resources at http://www.utrgv.edu/cstem/ □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? Most schools require you to apply a year in advance and to	□ 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	For additional info, visit the Career Center website and check out "What Can I Do With This Major?" www.utrgv.edu/careercenter

aligns with your strengths and interests.

take the GRE exam. Visiting the program admissions webpage. Most do not accept late applicants!

studentloans.gov.