

Choose 1	Communication (Core)
MATH 2413	Calculus I
Choose 1	American History (Core)
Choose 1	Integrative/Experiential Learning Option (Core)
Choose 1	Creative Arts (Core)
UNIV 1301	Learning Framework
Choose 1	Communication (Core)
MATH 2414	Calculus II
MATH 2318	Linear Algebra
Choose 1	American History (Core)
Choose 1	Social and Behavioral Sciences (Core)

MATH 2415	Calculus III
MATH 3341	Differential Equations
Choose 1	Government/Political Science (Core)
Choose 1	Life and Physical Sciences (Core)
Choose 1	Language, Philosophy & Culture (Core)
MATH 3343	Introduction to Mathematical Software
MATH 3350	Introduction to Mathematical Proof
Choose 1	Government/Political Science (Core)
Choose 1	Integrative/Experiential Learning Option (Core)
Choose 1	Life and Physical Sciences (Core)
MATH 2415	Calculus III

MATH 3363	Modern Algebra I
MATH 3352	Modern Geometry I
STAT 2331	Essentials of Statistics
MATH 3345	Linear Optimization
XXXX X3XX	Free Elective
MATH 3372	Real Analysis I
STAT 3337	Probability and Statistics
MATH 3349	Numerical Methods
MATH 4344	Boundary Value Problems
XXXX X3XX	Free Elective

MATH 4390	Mathematics Project
MATH 3361	Applied Discrete Mathematics
MATH 4342	Complex Variables
33XX-43XX	Free Advanced Elective
XXXX X3XX	Free Elective
MATH 3347	Elementary Cryptology
MATH 4346	Integral Transforms
33XX-43XX	Free Advanced Elective
33XX 43XX	Free Advanced Elective

FIRST YEAR

SECOND YEAR

THIRD YEAR

FOURTH YEAR

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.

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. Roger Knobel
Roger.knobel@utrgv.edu

Departmental Office
 Phone Number
 956-665-3451

UTRio Grande Valley

BLUE PRINT

MATHEMATICS (BS)
 *Applied Mathematics
 Catalog: 2017-18
COLLEGE OF SCIENCES

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.

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 3.5.
- Take MATH 2412 in your first year.

- Shoot for a GPA of 3.5.
- Complete major foundation classes, such as Math 2413, 2414, and 2415.
- Complete 30 credit hours.

- 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 such as MATH 3331 Applied Statistics I, MATH 3343 Introduction to Mathematical Software

- 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 such as MATH 4342 Complex Variables, MATH 4344 Boundary Value Problems
- Complete at least 30 credit hours to graduate.
- Submit your application(s) for graduate school in the fall, 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 the Major Explorer
- 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 Major Explorer!
- Come ready with course suggestions and questions 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 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 American Mathematical Society.
- Check Degree Works 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.
- Look for future scholarships and fellowships to apply for during the fall of your senior year. Check out C-STEM at www.utrgv.edu/cstem.

- 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 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 start either type of graduate degree with your BS in Mathematics.

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! Take proof-rich courses beginning with MATH 3350, Introduction to Mathematical Proof Writing, or become the secretary for your organization.

- 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 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 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 options.

- 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.
- 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!
- 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.

- 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

- Create a résumé and set up your profile on the Career Connection icon: (My.UTRGV.edu).
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- Research shows that students who work on campus perform better than those who work off campus. Look for a job on the Career Center portal!
- Check your UTRGV email for the daily Messenger- locate and attend one student workshop.

- Update your resume in Career Connection 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 C-STEM program department 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? Most require you to apply a year in advance and take the GRE. Visit admission webpages for graduate programs and apply early, as most programs 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.
- Develop 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.

- 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
- Risk management/ Assessment
- Loss management/ Control
- Underwriting

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

ECON 2302	Principles of Microeconomics
Choose 1	American History (Core)
MATH 2318	Linear Algebra
MATH 2414	Calculus II
Choose 1	Communication (Core)
UNIV 1301	Learning Framework
ECON 2301	Principles of Macroeconomics
Choose 1	I Learning Option (Core)
Choose 1	Integrative/Experientia American History (Core)
MATH 2413	Calculus I
Choose 1	Communication (Core)

MATH 2415	Calculus III
MATH 3341	Differential Equations
Choose 1	Government/Political Science (Core)
Choose 1	Life and Physical Sciences (Core)
MATH 3343	Introduction to Mathematical Software
MATH 3350	Introduction to Mathematical Proof
Choose 1	Government/Political Science (Core)
Choose 1	Life and Physical Sciences (Core)
Choose 1	Integrative/Experientia I Learning Option (Core)
Choose 1	Life and Physical Sciences (Core)

MATH 3363	Modern Algebra I
MATH 3352	Modern Geometry I
ECON 3351	Macroeconomic Theory
Choose 1	Language, Philosophy & Culture (Core)
XXXX X3XX	Free Elective
MATH 3372	Real Analysis I
STAT 3337	Probability and Statistics
ECON 3352	Microeconomic Theory
XXXX X3XX	Free Elective
XXXX X3XX	Free Elective

MATH 4390	Mathematics Project
MATH X3XX	Major Advanced Elective
ECON 3341	Econometrics
XXXX X3XX	Free Advanced Elective
XXXX X3XX	Free Elective
ECON 4361	Studies in Economics
ECON 3342	Business and Economics Forecasting
Choose 1	Creative Arts (Core)
XXXX X3XX	Free Advanced Elective
XXXX X3XX	Free Elective

FIRST YEAR

SECOND YEAR

THIRD YEAR

FOURTH YEAR

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.

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UTRiO Grande Valley

BLUE PRINT

MATHEMATICS (BS)
 *Economics
 Catalog: 2017-18
COLLEGE OF SCIENCES

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.

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CAREERS

MILESTONES

- UTRGV has a Writing Center and a Learning Center. Make it a point to visit them!
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- Take MATH 2412 in your first year.

- Shoot for a GPA of 3.5.
- Complete major foundation classes, such as Math 2413, 2414, and 2415.
- Take Core Economics courses such as ECON 2301 Principles of Macroeconomics and ECON 2302 Principles of Microeconomics
- Complete 30 credit hours.

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- 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 such as MATH 3343 Introduction to Mathematical Software

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- "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 and Economics such as ECON 4361 Studies in Economics
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ADVICE & SUPPORT

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- Discuss future plans with your faculty mentor or advisor that include employment, finances, and other life goals.
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- 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 take the GRE exam. Visiting the program admissions webpage. Most do not accept late applicants!

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- 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.

- Buying
- Purchasing
- Industrial sales
- Consumer product sales
- Financial services sales
- Services sales
- Advertising sales
- E-commerce
- Customer service
- Sales management: District, regional, and higher

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

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

FIRST YEAR

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

SECOND YEAR

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

THIRD YEAR

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

FOURTH YEAR

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.

Contact Info

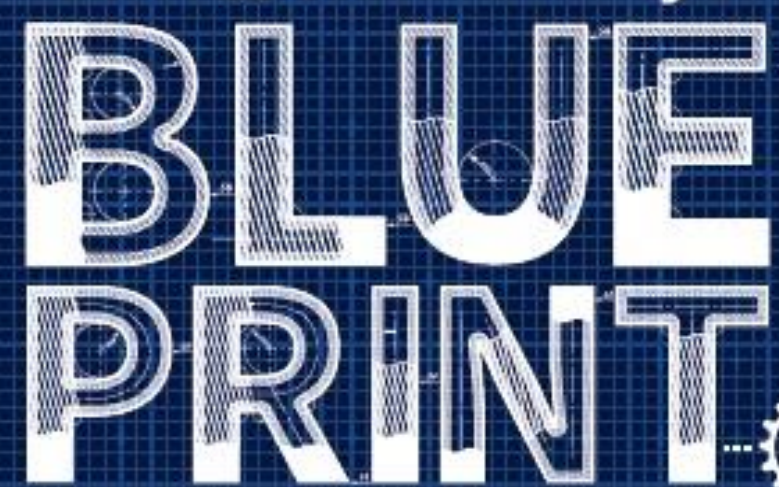
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Departmental Office
 Phone Number
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UTRio Grande Valley



MATHEMATICS (BS)
 *4th-8th Middle School UTeach Certification
 Catalog: 2017-18
COLLEGE OF SCIENCES

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.

BLUEPRINT EXPERIENCES

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MILESTONES

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- Complete your core English classes (section 010) during your first year.
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- Shoot for a GPA of 3.0.
- Take MATH 2412 in your first year. See degree plan for options

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- Complete major foundation classes such as MATH 2413. See degree plan for options.
- Complete 30 credit hours.
- Apply to the UTeach program. Visit www.utrgv.edu/cep for more information.

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- "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

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- 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

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

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MATH 2318	Linear Algebra
Choose 1	American History (Core)
Choose 1	Social and Behavioral Sciences (Core)

FIRST YEAR

MATH 2415	Calculus III
MATH 3341	Differential Equations
Choose 1	Government/Political Science (Core)
Choose 1	Life and Physical Sciences (Core)
Choose 1	Language, Philosophy & Culture (Core)
MATH 3352	Modern Geometry I
MATH 3350	Introduction to Mathematical Proof
Choose 1	Government/Political Science (Core)
Choose 1	Integrative/Experiential Learning Option (Core)
Choose 1	Life and Physical Sciences (Core)
Choose 1	Life and Physical Sciences (Core)

SECOND YEAR

MATH 3363	Modern Algebra I
MATH 3365	Number Theory
MATH 4342	Complex Variables
MATH 33XX	Major Advanced Elective
XXXX X3XX	Free Elective
MATH 3372	Real Analysis I
STAT 3337	Probability and Statistics
MATH 3349	Numerical Methods
MATH 43XX	Major Advanced Elective
XXXX X3XX	Free Elective
MATH 43XX	Major Advanced Elective

THIRD YEAR

MATH 4390	Mathematics Project
MATH 4355	Topology
MATH 43XX	Major Advanced Elective
33XX-43XX	Free Advanced Elective
XXXX X3XX	Free Elective
MATH 43XX	Major Advanced Elective
MATH 43XX	Major Advanced Elective
33XX-43XX	Free Advanced Elective
XXXX X3XX	Free Elective

FOURTH YEAR

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.

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. Roger Knobel
Roger.knobel@utrgv.edu

Departmental Office
 Phone Number
 956-665-3451

UTRiO Grande Valley

BLUE PRINT

MATHEMATICS (BS)
 *Pure Mathematics
 Catalog: 2017-18
COLLEGE OF SCIENCES

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.

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 3.5.
- Take MATH 2412 in your first year.

- Shoot for a GPA of 3.5.
- Complete major foundation classes, such as Math 2413, 2414, and 2415.
- Complete 30 credit hours.

- 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 such as MATH 3349 Numerical Methods or MATH 3365 Number Theory

- 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 such as MATH 4342 Complex Variables or MATH 4355 Topology
- Complete at least 30 credit hours to graduate.
- Submit your application(s) for graduate school in the fall, 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 the Kuder Journey.
- 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 Kuder Journey!
- Come ready with course suggestions and questions 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 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 American Mathematical Society.
- 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.
- Look for future scholarships and fellowships to apply for during the fall of your senior year. Visit utrgv.edu/cstem.

- 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 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 start either type of graduate degree with your BS in Mathematics.

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! Take proof-rich courses beginning with MATH 3350, Introduction to Mathematical Proof Writing, or become the secretary for your organization.

- 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 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 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 options.

- 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.
- 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!
- 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.

- 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.
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- Ask your favorite professor or faculty mentor for career advice and to review your application materials.

LIFE AFTER GRADUATION

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- Update your resume in Career Connection 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 take the GRE exam. 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.

- 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

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

BLUEPRINT EXPERIENCES

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ADVICE & SUPPORT

- Take MATH 1342 Elementary Statistical Methods
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- Visit a faculty member during their office hours and ask a question about class.
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- Modeling and simulation
- Numerical methods and analysis
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- 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

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

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

FIRST YEAR

MATH 2415	Calculus III
MATE 3321	Functions and Modeling
Choose 1	Government/Political Science (Core)
Choose 1	Life and Physical Sciences
Choose 1	(Core)
Choose 1	Language, Philosophy & Culture (Core)
MATH 3350	Introduction to Mathematical Proof
MATH 3341	Differential Equations
Choose 1	Government/Political Science (Core)
UTCH 3301	Knowing and Learning in Mathematics and Science
Choose 1	Life and Physical Sciences
Choose 1	(Core)
Choose 1	Integrative/Experiential Learning Option (Core)

SECOND YEAR

MATH 3363	Modern Algebra I
MATH 3352	Modern Geometry I
MATE 3317	Perspectives in Mathematics and Science
UTCH 3302	Classroom Interactions
MATH 3326	History of Mathematics
MATH 3372	Real Analysis I
STAT 3337	Probability and Statistics
MATE 3322	Secondary Mathematics in a Technological
READ 4305	Content Area Literacy

THIRD YEAR

MATH 3361	Applied Discrete Mathematics
MATH 4390	Mathematics Project
MATH 3365	Number Theory
MATE 4329	Research Methods in Secondary Mathematics
UTCH 3303	Project-Based Instruction
MATE 4423	Advanced Studies in Secondary Mathematics
UTCH 4101	Apprentice Teaching Seminar
UTCH 4601	Apprentice Teaching

FOURTH YEAR

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.

Contact Info

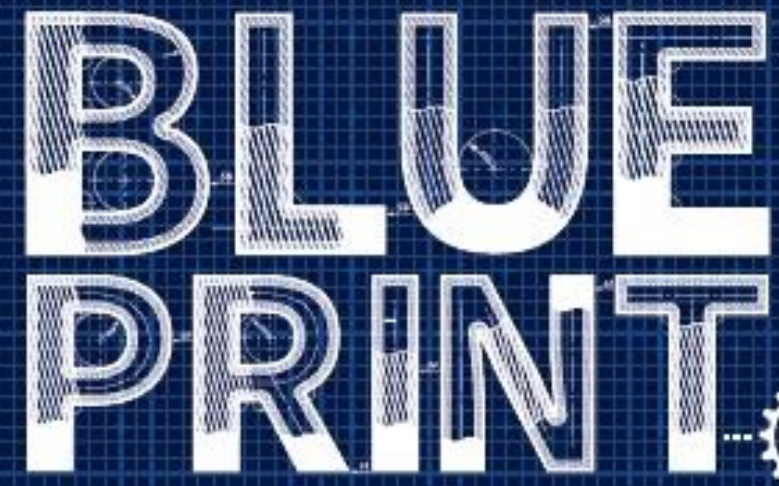
School Director
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Timothy.huber@utrgv.edu

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Departmental Office
 Phone Number
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UTRio Grande Valley



MATHEMATICS (BS)
 *7th-12th Secondary UTeach
 Certification
 Catalog: 2017-18
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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.

BLUEPRINT EXPERIENCES

FIRST YEAR

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MILESTONES

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- Shoot for a GPA of 3.0.
- Take MATH 2412 in your first year. See degree plan for options

- Shoot for a GPA of 3.0.
- Complete major foundation classes such as MATH 2413. See degree plan for options.
- Complete 30 credit hours.
- Apply to the UTeach program. Visit www.utrgv.edu/cep for more information.

- Shoot for a GPA of 3.0.
- Complete 30 credit hours.
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- 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

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- Engage in an independent study project or an academic internship to complement your major.
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- Teaching
- Research
- Higher education administration
- Public and private K-12 schools

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