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

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UTRio Grande Valley

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Graduation requirement

major of 2.5 or better.

Additional Info

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

Free Advanced Elective	33XX 43XX
Free Advanced Elective	33XX-43XX
smrofznerT lergefnl	9454 HTAM
Elementary Cryptology	7456 HTAM
Free Elective	XXEX XXXX
Free Advanced Elective	33XX-43XX
səldsinsV xəlqmoD	2454 HTAM
Applied Discrete Mathematics	1955 HTAM
toeject Project	0654 HTAM

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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

Free Elective	XXEX XXXX
Boundary Value Problems	4454 HTAM
sbodt9M lsoin9muN	6455 HTAM
Probability and Statistics	VEEE TAT2
l sizylenA le9Я	STEE HTAM
Free Elective	ххех хххх
Linear Optimitation	245E HTAM
soitsitet2 fo sleitness∃	1552 TAT2
Modern Geometry I	SZEE HTAM
l sıdəglA nıəboM	EƏEE HTAM

SECOND YEAR

(Core)	т эгоочЭ
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Learning Option (Core)	
laitnerive/Experiential	t əsood)
Science (Core)	
Government/Political	t əsood)
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Introduction to	02EE HTAM
916 Safewatical Software	
Introduction to	5455 HTAM
Culture (Core)	
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(Core)	
Life and Ρhysical Sciences	t əsood)
Science (Core)	
Government/Political	t əsood)
Differential Equations	1455 HTAM
III suluoleO	MATH 2415

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.

Degree Info

Mathematics is both an exact science and a

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т эгоочЭ	American History (Core)		
8152 HTAM	Linear Algebra		
4142 HTAM	ll sulusib		
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τοετ λινη	Learning Framework		
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	Learning Option (Core)		
τ	lntegrative/Experiential		
т эгоонЭ	American History (Core)		
6142 HTAM	l sulusie		
t əsood)	(onmunication (Core)		

ACADEMIC

PLAN

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FIRST YEAR

SECOND YEAR

THIRD YEAR

UTRio Grande Valley

FOURTH YEAR AND BEYOND

				AND BEYOND
	UTRGV has a Writing Center and a Learning Center.	□Shoot for a GPA of 3.5.	□Shoot for a GPA of 3.5.	□Shoot for a GPA of 3.00.
	Make it a point to visit them!	Complete major foundation classes, such as Math 2413, 2414, and 2415.	□Complete 30 credit hours. □Have you landed an internship or acquired research	"I have a plan for after graduation." If great! If not, visit your Faculty Advisor
MILESTONES	your first year.	Complete 30 credit hours.	experience? This is the year to make it happen. Ask your favorite professor about research opportunities.	□Register for your Capstone project: MA □Enroll in Senior level courses such as N
	graduate in 4 years. □Shoot for a GPA of 3.5.		Enroll in upper level courses for your concentration such as MATH 3331 Applied Statistics I, MATH 3343	Variables, MATH 4344 Boundary Value
	□Take MATH 2412 in your first year.		Introduction to Mathematical Software	□Submit your application(s) for graduate apprenticeship, or for fulltime employ
	Meet with your academic advisor and bring your orientation folder with you to every session!	UWant to explore different careers? Check out Major Explorer!	Seek out research opportunities within your major and join a professional organization such as American	Discuss future plans with your faculty include employment, finances, and oth
ADVICE &	Choose a major with confidence- Visit my.UTRGV.edu and check out the Major Explorer	□Come ready with course suggestions and questions when you visit your academic advisor.	Mathematical Society.	□Apply for graduation one semester pri date. Visit your advisor to ensure you a
SUPPORT	□Visit a faculty member during their office hours and ask a question about class.	□Visit the Communication Hauser Lab for help with your presentations, especially capstone presentations.	graduation next year.	□ Ask the Career Center and your faculty on your resume, cover letters, and oth
	Classes fill up fast. When registration opens, be sure to register on the first day for your group.	□Trouble making your tuition payment? The Financial Aid Office can help. Payment plans and emergency	opportunities. Discuss this with your advisor, faculty mentor, or Career Center.	documents. □Consider applying for a Masters of Doc
	□Cold or flu getting you down? We have Student Health Services on campus with free office visits.	loans are also available	□Look for future scholarships and fellowships to apply for during the fall of your senior year. Check out C- STEM at <u>www.utrgv.edu/cstem</u> .	start either type of graduate degree w Mathematics.
APPLY WHAT	□Look for a service-learning course! For guidance, visit Engaged Scholarship & Learning Office.	□To find undergraduate research opportunities, visit the Engaged Scholarship & Learning Office.	□Go show off your research, service-learning or creative works at the Engaged Scholar Symposium!	Continue to present research or creati Engaged Scholar Symposium or at Stat
YOU LEARN	Participate in a campus-sponsored community service project.	□Consider attending the LeaderShape Institute or attend the Engaged Scholar Symposium.	Sharpen your writing skills! Take proof-rich courses beginning with MATH 3350, Introduction to	of the Society for Industrial and Applie American Mathematical Society.
	\Box Ask a student in class to study with you.		Mathematical Proof Writing, or become the secretary for your organization.	Set up an informational interview with (especially an alumnus) currently in the work in.
	Set up your profile on the Engagement Zone through My.UTRGV.edu.	Look at study abroad opportunities or consider applying to UT-LSAMP or other internal or external	Consider serving on a campus life/community committee or become a student leader and make a	☐ Identify employers of interest and seel online, at on-campus information sess
GLOBAL, CAMPUS	□Attend a diversity based campus or community event (e.g. MLK Day of Service).	summer research projects. Click on Student resources at http://www.utrgv.edu/cstem/	difference. Visit VLink or speak with your Student Government Association for more information!	etc. The Career Center can help.
& COMMUNITY ENGAGEMENT	 Attend a School Colloquium or Departmental seminar, and drop by your favorite professor's office to talk about 	Check out a cultural campus or community event such as HESTEC or FESTIBA.	 Engage in outreach programs to local schools to complement your major. Consider joining the Experimental Algebra and Geometry group and 	Career Center or speech coaching with Hauser Lab.
	research opportunities.	□Join another student organization. Perhaps the Society for the Advancement of Chicanos/Hispanics & Native Americans in Science (SACNAS) or visit VLink for	participating in their outreach program.	Ask your favorite professor or faculty r advice and to review your application
	Society for Industrial and Applied Mathematics (SIAM) or visit VLink (utrgv.edu/vlink) for other options.	options.	at Office for International Programs & Partnerships.	
	Create a résumé and set up your profile on the Career	a friend! DUpdate your resume in Career Connection and have it	Check out the C-STEM program department website	Have you received your acceptance for
LIFE AFTER	Connection icon: (My.UTRGV.edu).	reviewed.	for postings on career/graduate school.	employment offer? If not, network: tal Center, and get on LinkedIn.
GRADUATION	places to do some job shadowing.	At the event, approach a recruiter and discuss internships.	recommendation (professors, mentors, advisors, supervisors, etc.). Give them at least two weeks' advance notice!	Develop a strategy for life after gradua fairs, graduate fairs, apply to fellowshi
	perform better than those who work off campus. Look for a job on the Career Center portal! —	□Will a minor expand your career options? We recommend Computer Science, Physics, or Engineering.	□When is the deadline for your graduate school application? Most require you to apply a year in	Dupdate your information with Alumni mixers, events and continued access to services!
	Check your UTRGV email for the daily Messenger- locate and attend one student workshop.	Engineering. Explain to someone how your academic program aligns with your strengths and interests.	advance and take the GRE. Visit admission webpages for graduate programs and apply early, as most programs do not accept late applicants!	services: Remember to do your exit loan counse studentloans.gov.



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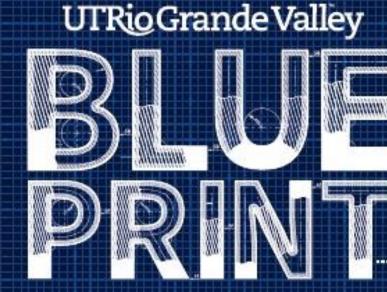
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- r graduation." If this describes you, r Faculty Advisor or Career Center!
- stone project: MATH 4390 Math Project.
- courses such as MATH 4342 Complex Boundary Value Problems
- credit hours to graduate.
- on(s) for graduate school in the fall, an fulltime employment.
- vith your faculty mentor or advisor that finances, and other life goals.
- one semester prior to your anticipated or to ensure you are on track.
- and your faculty mentors for feedback er letters, and other job application
- a Masters of Doctoral Program. You can aduate degree with your BS in
- esearch or creative works at the posium or at State or National meetings ustrial and Applied Mathematics and the cal Society.
- al interview with an individual is) currently in the field you aspire to
- ----interest and seek them out at job fairs, information sessions, staffing agencies, r can help.
- , schedule a mock interview with the ech coaching with the Communication
- fessor or faculty mentor for career your application materials.
- ur acceptance for graduate school or an f not, network: talk to faculty, the Career ikedIn.
- r life after graduation: attend career apply to fellowships, etc.
- tion with Alumni Relations. Enjoy alumni ntinued access to Career Center
- exit loan counseling on

CAREERS

- 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

*Economics **COLLEGE OF SCIEN**

MATHEMATICS (BS) Catalog: 2017-18



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course requirements and all MATH

and MATE courses with grades of 'C'

or better and have with a GPA for the

Free Elective	XXEX XXXX
Free Advanced Elective	XXEX XXXX
Creative Arts (Core)	t ssood)
Business and Economics Forecasting	ECON 3345
studies in Economics	ECON 4361
Free Elective	XXEX XXXX
Free Advanced Elective	XXEX XXXX
Econometrics	ECON 3341
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toolor9 soitemedteM	0664 HTAM

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Timothy.huber@utrgv.edu

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Jerzy.mogilski@utrgv.edu

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Dr. Roger Knobel

Roger.knobel@utrgv.edu

Departmental Office

Phone Number

956-665-3451

Free Elective	XXEX XXXX
Free Elective	XXEX XXXX
Μιςτοεςοπομίς Τheory	ECON 3325
Probability and Statistics	VEEE TAT2
l sisylenA le9Я	2725 HTAM
Free Elective	XXEX XXXX
کماڑure (کمre) Language, Philosophy &	£ əsood)
Macroeconomic Theory	ECON 3327
Modern Geometry I	SZEE HTAM
l sıdəglA nıəboM	EBEE HTAM

SECOND YEAR

τ əsooyጋ	Life and Physical Sciences (Core)
τ əsooyጋ	lntegrative/Experientia I Learning Option (Core)
τ əsooqጋ	Government/Political Science (Core)
02EE HTAM	Introduction to Mathematical Proof
6455 HTAM	Introduction to Mathematical Software
τ əsooyጋ	Life and Physical Sciences (Core)
τ əsooyጋ	Government/Political Science (Core)
1455 HTAM	Differential Equations
MATH 2415	III sulusid

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.

Degree Info

Mathematics is both an exact science and a

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Principles of Microeconomics	ECON 5305
American History (Core)	t əsood)
Linear Algebra	8122 HTAM
ll sulusied	4142 HTAM
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Learning Framework	τοετ λινη
Principles of Macroeconomics	ЕСОИ 5307
Integrative/Experientia I Learning Option (Core)	т эгоолЭ
American History (Core)	t əsood)
l sulusies	8142 HTAM
(Sommunication (Core)	τ əsooyጋ

ACADEMIC PLAN

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FIRST YEAR

SECOND YEAR

THIRD YEAR

UTRio Grande Valley

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APPLY WHAT YOU LEARN		□Cold or flu getting you down? We have Student	also available		start either type of grad
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YOU LEARN Destropate in a campus-sponsored community service project. Destropate in a campus-sponsored community service project. Destropate in a campus-sponsored community service project. Merican Mathematical Proof Writing, or become the secretary for your organization. Merican Mathematical Proof Writing, or become the secretary for your organization. Merican Mathematical Proof Writing, or become the secretary for your organization. Merican Mathematical Proof Writing, or become the secretary for your organization. Merican Mathematical Proof Writing, or become the secretary for your organization. Merican Mathematical Proof Writing, or become the secretary for your organization. GLOBAL, CAMPUS Data a student in class to study with you. Elock at study abroad opportunities or consider apphying to UT-ISAMP or other internal or external summer research projects. Click on the Student resources at thtp://www.utgv.edu/stern/ Consider serving on a campus life/community committe or become a student leader and make a difference. Visit Visik to speak with your Student Government Association for more informational excerned a diversity by our favorite professor's office to tal kabout research opportunities. Dende attending King option. Dende attending King option. Dende attending King option. LIFE AFTER GRADUATION Diot a student organization Constor is obor miles who work on campus perform better than those who work on campus look for a job on the Career Center protail Divisit the Career Center protain treviewed. Decked out an advece and interests. Decked out the career/graduate school. Click out sa k for lieters of recommendicon provem y and para	ΔΟΟΙΥ ΜΗΔΤ	visit Engaged Scholarship & Learning Office.	Engaged Scholarship & Learning Office.	works at the Engaged Scholar Symposium!	
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GLOBAL, CAMPUS Bste up your profile on the Engagement Zone through My.UTRGV.edu. Disk at study abroad opportunities or consider applying to UT-LSAMP or other internal or external summer search projects. Click on Student resources at http://www.utrgv.edu/catem/ Disconsider serving on a campus life/community committee or consider polying to UT-LSAMP or other internal or external summer search projects. Click on Student resources at http://www.utrgv.edu/catem/ Disconsider serving on a campus life/community committee or consider polying to UT-LSAMP or other internal or external summer search application? Hauser Lab. Disconsider serving on a campus life/community committee or consider polying to UT-LSAMP or other internal or external summer search application? Hauser Lab. Disconsider serving on a campus life/community committee or consider polying to UT-LSAMP or other internal or external summer search application? Hauser Lab. Disconsider serving on a campus life/community committee or consider polying to UT-LSAMP or other internal or external summer search application? Hauser Lab. Disconsider serving on a campus life/community committee or consider polying to UT-LSAMP or other internal or external summer search application? Hauser Lab. Disconsider serving on a campus life/community committee or consider polying to UT-LSAMP or other internal or external summer search application? Hauser Lab. Disconsider serving on a campus life/community committee or consider polying to UT-LSAMP or other internal or external summer search application? Hauser Lab. Disconsider serving on a campus life/community committee or consider polying to UT-LSAMP or other internal or external summer search application? Hauser Lab. Disconsider serving on a campus life/community commitee application? Hauser Lab. Disconsider s	YOU LEARN		the Engaged Scholar Symposium.		□Set up an informationa
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LIFE AFTER GRADUATION		 (SIAM) or visit VLink (utrgv.edu/vlink) for other 		Office for International Programs & Partnerships.	
LIFE AFTER Career Connection icon: (My.UTRGV.edu). reviewed. department website for postings on career/graduate school. Click on Student resources at the event, approach a recruiter and discuss internships. department website for postings on career/graduate school. Click on Student resources at the event, approach a recruiter and discuss internships. employment offer? If no center, and get on Link the event, approach a recruiter and discuss internships. Research shows that students who work on career portmal! Will a minor expand your career options? We recommend_Computer Science, Physics, or Engineering. Look for a job on the Career Center portal! Will a minor expand your career options? We recommend_Computer Science, Physics, or Engineering. With your strengths and interests. Explain to someone how your academic program aligns with your strengths and interests. Will a minor expand interests. Will a minor expand interests. Update your information mixers, events and computer science, Physics, or Engineering. With your strengths and interests. Will a minor expand your career options? We recommend_computer Science, Physics, or Engineering. With your strengths and interests. Will a minor expand your career options? We recommend_computer Science, Physics, or Engineering. With your strengths and interests. Will a minor expand your career options? We recommend_computer Science, Physics, or Engineering. With your strengths and interests. Will a minor expand your career options? We recommend_computer Science, Physics, or Engineering. With your strengths and interests. Will a minor expand your career options? We recommend_computer Science, Physics, or Engineering. With your strengths and interests. Ween is		options. Create a résumé and set up your profile on the		i Check out the Center for Excellence in STEM program	Have vou received vou
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CRADUATION about places to do some job shadowing. Intervent, approach a recruiter and discuss internships. Image: construction of places to do some job shadowing. <t< td=""><td></td><td></td><td></td><td></td><td>-</td></t<>					-
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application? Most schools require you to apply a year in advance and to take the GRE exam. Visiting the program					
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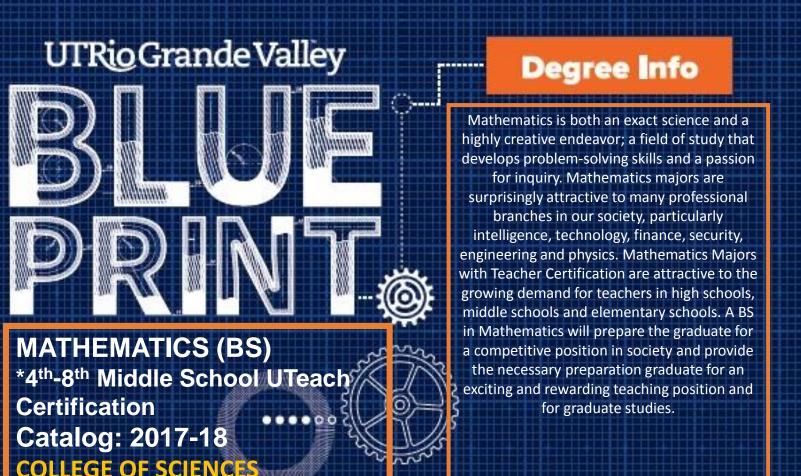
FOURTH YEAR AND BEYOND s.00.

- ter graduation." If this describes you, ur Faculty Advisor or Career Center!
- pstone project: MATH 4390 Math Project.
- courses in Mathematics and Economics Studies in Economics
- credit hours to graduate.
- tion(s) for graduate school in the fall, an or fulltime employment. _____ with your faculty mentor or advisor that t, finances, and other life goals.
- one semester prior to your anticipated sor to ensure you are on track.
- er and your faculty mentors for feedback ver letters, and other job application
- or a Masters of Doctoral Program. You can graduate degree with your BS in
- research or creative works at the nposium or at State or National meetings dustrial and Applied Mathematics and the tical Society.
- nal interview with an individual us) currently in the field you aspire to
- of interest and seek them out at job fairs, s information sessions, staffing agencies, er can help.
- w, schedule a mock interview with the ech coaching with the Communication
- ofessor or faculty mentor for career vyour application materials.
- our acceptance for graduate school or an If not, network: talk to faculty, the Career inkedIn.
- ement a strategy for life after graduation: graduate fairs, apply to fellowships, etc.
- ation with Alumni Relations. Enjoy alumni continued access to Career Center
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CAREERS

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

..... **COLLEGE OF SCIENC**



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Graduation requirement

major of 2.5 or better.

Additional Info

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

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Apprentice Teaching Seminar	UTCH 4101
Research Methods in Middle School	0164 JTAM
Project-Based Instruction	ПТСН 3303
Probability and Statistics	7 £££ TAT2
Perspectives in Mathematics and Science	VIETE 3317
Fundamentals of Measurement and Geometry II	E0EE 3303
bathematics Project	06£4 HTAM

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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

Content Area Literacy	READ 4305
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Differential Equations	1456 HTAM

SECOND YEAR

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UTRio Grande Valley

FIRST YEAR

SECOND YEAR

THIRD YEAR

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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 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. Have you landed an internship or acquired research experience? This is the year to make it happen. 	 Shoot for a GPA of 3 "I have a plan for af great! If not, visit yo Register for your Ca Research Methods. Complete at least 30 Submit your applica apprenticeship, or for
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 our 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/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 internship to compl Discuss future plans that includes emplo Apply for graduation anticipated date. Vi ensure you are on t
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 Engaged Scholar Syn Set up an information (especially an alumning 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) 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 fairs, online, at on-cagencies, etc. The Career Center or sport Hauser Lab.
LIFE AFTER GRADUATION	 Create a résumé and set up your profile on the Career Connection 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 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? 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 y an employment offe Career Center, and y Formulate and impligraduation: attend of fellowships, etc. Update your inform alumni mixers, ever Center services! Remember to do yo studentloans.gov.

FOURTH YEAR AND BEYOND

of 3.0.

after graduation." If this describes you, your Faculty Advisor or Career Center!

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- Capstone/senior/portfolio project.
- t 30 credit hours to graduate.
- lication(s) for graduate school, an r for fulltime employment.
- ependent study project or an academic plement your major.
- ans with your faculty mentor or advisor ployment, finances, and other life goals.
- tion one semester prior to your Visit the Academic Advising Center to track.

ent research or creative works at the Symposium or at RGVCTM conference.

- ational interview with an individual mnus) currently in the field you aspire to
- rs of interest and seek them out at job -campus information sessions, staffing Career Center can help.
- view, schedule a mock interview with the speech coaching with the Communication
- d your acceptance for graduate school or offer? If not, network: talk to faculty, the nd get on LinkedIn.
- nplement a strategy for life after nd career fairs, graduate fairs, apply to
- rmation with Alumni Relations. Enjoy vents and continued access to Career
- your exit loan counseling on

CAREERS

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

Departmental Office Phone Number 956-665-3451

Undergraduate Program Director Dr. Roger Knobel <u>Roger.knobel@utrgv.edu</u>

School Associate Director Dr. Jerzy Mogilski Jerzy.mogilski@utrgv.edu

School Director Dr. Timothy Huber <u>Timothy.huber@utrgv.edu</u>

Contact Info

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



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Graduation requirement

major of 2.5 or better.

Additional Info

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

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Probability and Statistics	VEEE TAT2
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Free Elective	XXEX XXXX
Major Advanced Elective	XXEE HTAM
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Number Theory	2955 HTAM
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SECOND YEAR

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t əsood)	Integrative/Experiential Learning Option (Core)
τ əsooyጋ	Government/Political Science (Core)
02EE HTAM	Introduction to Mathematical Proof
SZEE HTAM	Modern Geometry I
τ əsooyጋ	Language, Philosophy & Culture (Core)
τ əsooyጋ	Life and Physical Sciences (Core)
τ əsooyጋ	Government/Political Science (Core)
1455 HTAM	Differential Equations
2415 HTAM	lli suluolaO

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.

Degree Info

Mathematics is both an exact science and a

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FIRST YEAR

SECOND YEAR

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 <u>3.5</u>. 	 Shoot for a GPA of <u>3.5</u>. 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." great! If not, visit your Faculty Advise Register for your Capstone project: I Enroll in Senior level courses such as Variables or MATH 4355 Topology Complete at least 30 credit hours to
ADVICE & SUPPORT	 Take MATH 2412 in your first year. 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 	 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 	 Submit your application(s) for gradu apprenticeship, or for fulltime employ Discuss future plans with your facult include employment, finances, and o Apply for graduation one semester p date. Visit your advisor to ensure yo Ask the Career Center and your facu on your resume, cover letters, and o documents. Consider applying for a Masters of D start either type of graduate degree
APPLY WHAT YOU LEARN	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.	☐To find undergraduate research opportunities, visit the Engaged Scholarship & Learning Office. ☐Consider attending the LeaderShape Institute or attend the Engaged Scholar Symposium.	 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. 	Mathematics. Continue to present research or creat Engaged Scholar Symposium or at St of the Society for Industrial and App American Mathematical Society. Set up an informational interview wit (especially an alumnus) currently in 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 seconline, at on-campus information second etc. The Career Center can help. Before a job interview, schedule a m Career Center or speech coaching with Hauser Lab. Ask your favorite professor or facult advice and to review your application
LIFE AFTER GRADUATION	 Create a résumé and set up your profile on the Career Connection 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 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 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 i employment offer? If not, network: Center, and get on LinkedIn. Formulate and implement a strategy attend career fairs, graduate fairs, ap Update your information with Alumn mixers, events and continued access services! Remember to do your exit loan cour studentloans.gov.

UTRio Grande Valley



FOURTH YEAR AND BEYOND

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- er graduation." If this describes you, ur Faculty Advisor or Career Center!
- ostone project: MATH 4390 Math Project.
- courses such as MATH 4342 Complex 355 Topology
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- of interest and seek them out at job fairs, s information sessions, staffing agencies, er can help.
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- ofessor or faculty mentor for career your application materials.
- our acceptance for graduate school or an f not, network: talk to faculty, the Career inkedIn.
- ement a strategy for life after graduation: graduate fairs, apply to fellowships, etc.
- ation with Alumni Relations. Enjoy alumni ontinued access to Career Center
- ur exit loan counseling on

CAREERS

- 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

Departmental Office Phone Number 956-665-3451

Undergraduate Program Director Dr. Roger Knobel Roger.knobel@utrgv.edu

School Associate Director Dr. Jerzy Mogilski Jerzy.mogilski@utrgv.edu

Dr. Timothy Huber Timothy.huber@utrgv.edu

School Director

Contact Info

MATHEMATICS (BS) *Science and Engineering Catalog: 2017-18 **COLLEGE OF SCIEN**



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Graduation requirement

major of 2.5 or better.

Additional Info

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

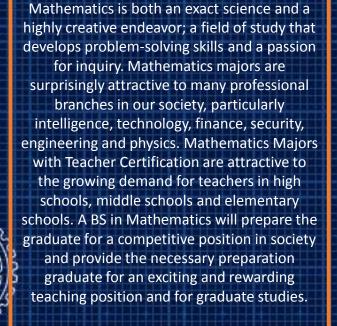
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SECOND YEAR

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SZEE HTAM	Modern Geometry I
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Degree Info

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FIRST YEAR

SECOND YEAR

THIRD YEAR

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	UTRGV has a Writing Center and a Learning Center.	□Shoot for a GPA of 3.5.	□Shoot for a GPA of 3.5.	□Shoot for a GPA of 3.00.
	■ Make it a point to visit them! ■ □Complete your core English classes (section 010)	Complete major foundation classes, such as Math 2413, 2414, and 2415.	□Complete 30 credit hours.	□ "I have a plan for after graduation." If this describes you, great! If not, visit your Faculty Advisor or Career Center!
	during your first year.	Complete 30 credit hours.	Have you landed an internship or acquired research experience? This is the year to make it happen. Ask your	Register for your Capstone project: MATH 4390 Math Project.
MILESTONES	Complete 30 credit hours every year in order to graduate in 4 years.		favorite professor about research opportunities.	□Enroll in Senior level courses in Mathematics, Engineering, or
	□Shoot for a GPA of 3.5.		Enroll in upper level courses for your concentration and major such as MATH 3372 Real Analysis I.	Computer Science.
			2	Complete at least 30 credit hours to graduate.
	■ □Take MATH 1342 Elementary Statistical Methods			Dsubmit your application(s) for graduate school in the fall, an apprenticeship, or for fulltime employment.
	Meet with your academic advisor and bring your orientation folder with you to every session!	Want to explore different careers? Check out Kuder Journey!	Seek out research opportunities within your major and join a professional organization such as American Mathematical	Discuss future plans with your faculty mentor or advisor that include employment, finances, and other life goals.
ADVICE &	 Choose a major with confidence- Visit my.UTRGV.edu and check out the Kuder Journey. 	□Come ready with course suggestions and questions when you visit your academic advisor.	Society.	□Apply for graduation one semester prior to your anticipated date. Visit your advisor to ensure you are on track.
	\Box Visit a faculty member during their office hours and	Uvisit the Communication Hauser Lab for help with	graduation next year.	Ask the Career Center and your faculty mentors for feedback
SUPPORT	ask a question about class.	your presentations, especially capstone presentations.	□Apply for internship and/or job shadowing opportunities. Discuss this with your advisor, faculty mentor, or Career	on your resume, cover letters, and other job application documents.
	□Classes fill up fast. When registration opens, be sure to register on the first day for your group.	Trouble making your tuition payment? The Financial	Center.	Consider applying for a Masters of Doctoral Program. You can
	Cold or flu getting you down? We have Student Health Services on campus with free office visits.	Aid Office can help. Payment plans and emergency loans are also available	Look for future scholarships and fellowships to apply for during the fall of your senior year. Visit utrgv.edu/cstem.	start either type of graduate degree with your BS in Mathematics.
	 Look for a service-learning course! For guidance, visit Engaged Scholarship & Learning Office. 	To find undergraduate research opportunities, visit the Engaged Scholarship & Learning Office.	Go show off your research, service-learning or creative works at the Engaged Scholar Symposium!	Continue to present research or creative works at the Engaged Scholar Symposium or at State or National meetings
APPLY WHAT YOU LEARN	Participate in a campus-sponsored community service project.	□Consider attending the LeaderShape Institute or attend the Engaged Scholar Symposium.	□Sharpen your writing skills! Take proof-rich courses beginning with MATH 3350, Introduction to Mathematical	of the Society for Industrial and Applied Mathematics and the American Mathematical Society.
TOO LLARN	\Box Ask a student in class to study with you.		Proof Writing, or become the secretary for your organization.	Set up an informational interview with an individual (especially an alumnus) currently in the field you aspire to work in.
	Set up your profile on the Engagement Zone through My.UTRGV.edu.	Look at study abroad opportunities or consider applying to UT-LSAMP or other internal or external	Consider serving on a campus life/community committee or become a student leader and make a difference. Visit VLink	□Identify employers of interest and seek them out at job fairs, online, at on-campus information sessions, staffing agencies,
	□Attend a diversity based campus or community event (e.g. MLK Day of Service).	summer research projects. Click on Student resources at http://www.utrgv.edu/cstem/	or speak with your Student Government Association for more information!	etc. The Career Center can help.
GLOBAL, CAMPUS & COMMUNITY	Attend a School Colloquium or Departmental seminar, and drop by your favorite professor's office	Check out a cultural campus or community event such as HESTEC or FESTIBA.	Engage in outreach programs to local schools to complement your major. Consider joining the Experimental	Career Center or speech coaching with the Communication Hauser Lab.
ENGAGEMENT	to talk about research opportunities.	□Join another student organization. Perhaps the	Algebra and Geometry group and participating in their outreach program.	Ask your favorite professor or faculty mentor for career
	 □Join a student organization! Consider looking into Society for Industrial and Applied Mathematics (SIAM) or visit VLink (utrgv.edu/vlink) for other 	Society for the Advancement of Chicanos/Hispanics & Native Americans in Science (SACNAS) or visit VLink for options.	□Travel the world! Look into study abroad opportunities at Office for International Programs & Partnerships.	advice and to review your application materials.
	options.	Check out a campus event that offers free lunch- bring a friend!		
	Create a résumé and set up your profile on the Career Connection icon: (My.UTRGV.edu).	Update your resume in Career Connection and have it reviewed.	Check out the Center for Excellence in STEM program department website for postings on career/graduate	Have you received your acceptance for graduate school or an employment offer? If not, network: talk to faculty, the Career
LIFE AFTER	□Got summer plans? Visit Career Center and ask about	□Visit the Career Center site to find a job fair to attend.	school. Click on Student resources at	Center, and get on LinkedIn.
GRADUATION	places to do some job shadowing.	At the event, approach a recruiter and discuss internships.	http://www.utrgv.edu/cstem/	□Formulate and implement a strategy for life after graduation: attend career fairs, graduate fairs, apply to fellowships, etc.
	 Research shows that students who work on campus perform better than those who work off campus. 	□Will a minor expand your career options? We	recommendation (professors, mentors, advisors, supervisors, etc.). Give them at least two weeks' advance	Update your information with Alumni Relations. Enjoy alumni
	Look for a job on the Career Center portal!	recommend_Computer Science, Physics, or Engineering.	notice!	mixers, events and continued access to Career Center services!
	Check your UTRGV email for the daily Messenger- locate and attend one student workshop.	Engineering. DExplain to someone how your academic program	When is the deadline for your graduate school application?	Remember to do your exit loan counseling on
	•	aligns with your strengths and interests.	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!	studentloans.gov.

UTRio Grande Valley



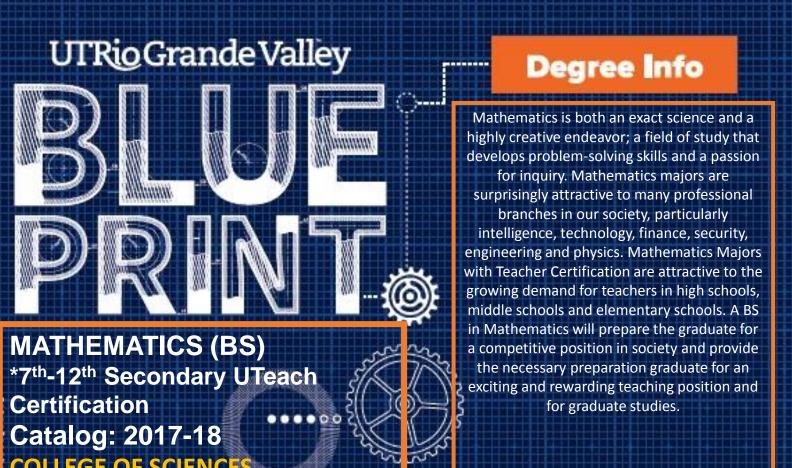
FOURTH YEAR AND REYOND

CAREERS

•	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
_	
	For additional info, visit the
	Career Center website and

check out "What Can I Do With This Major?" <u>www.utrgv.edu/careercenter</u>

Certification Catalog: 2017-18 **COLLEGE OF SCIENC**



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

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	a Technological	MATE 3322
ר	Secondary Mathematics in	
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. .	History of Mathematics	92EE HTAM
N	Classroom Interactions	UTCH 3302
N	Pathematics and Science	VIEE 3TAM
	Perspectives in	
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Project-Based Instruction	UTCH 3303
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Applied Discrete	1955 HTAM

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Graduation requirement

major of 2.5 or better.

Additional Info

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

SECOND YEAR

т әѕоочЭ	lategrative/Experiential Learning Option (Core)	
τ əsooyጋ	Life and Physical Sciences (Core)	
ОТСН 3301	Knowing and Learning in Science and SciemedteM	
τ əsooyጋ	Government/Political Science (Core)	
1425 HTAM	Differential Equations	
02EE HTAM	Introduction to Mathematical Proof	
т әѕоочጋ	Language, Philosophy & Culture (Core)	
т әѕоочጋ	Life and Physical Sciences (Core)	
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MATE 3321	gnileboM bns snoitonu ¹	
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Social and Behavioral Sciences (Core)	τ əsooyጋ
nozzabased Lesson Design	0TCH 1102
American History (Core)	τ əsooyጋ
Linear Algebra	8152 HTAM
Calculus II	4142 HTAM
Communication (Core)	τ əsooyጋ
Learning Framework	τοετ λινη
Creative Arts (Core)	τ əsooyጋ
Integrative/Experiential Learning Option (Core)	τ əsooyጋ
lnuliry Approaches to Teaching	τοττ μοτυ
American History (Core)	τ əsooyጋ
l sulusia	6142 HTAM
Communication (Core)	τ әѕоочე

ACADEMIC PLAN

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UTRio Grande Valley

FIRST YEAR

SECOND YEAR

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				AN
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 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. Have you landed an internship or acquired research experience? This is the year to make it happen. 	 Shoot for a GPA of 3 "I have a plan for af great! If not, visit yc Register for your Ca Research Methods. Complete at least 30 Submit your applica apprenticeship, or formation of the second second
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 our 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/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 independint ernship to compl Discuss future plans that includes emplo Apply for graduation anticipated date. Vi ensure you are on t
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 Engaged Scholar Syn Set up an information (especially an alumn 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) 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 lunchbring 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 fairs, online, at on-c agencies, etc. The C Before a job intervie Career Center or spi Hauser Lab.
LIFE AFTER GRADUATION	 Create a résumé and set up your profile on the Career Connection 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 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? 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 y an employment offe Career Center, and Formulate and impl graduation: attend fellowships, etc. Update your inform alumni mixers, ever Center services! Remember to do you studentloans.gov.

FOURTH YEAR AND BEYOND

of 3.0.

after graduation." If this describes you, your Faculty Advisor or Career Center!

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- Capstone/senior/portfolio project.
- t 30 credit hours to graduate.
- lication(s) for graduate school, an or for fulltime employment.
- ependent study project or an academic nplement your major.
- ans with your faculty mentor or advisor ployment, finances, and other life goals.
- tion one semester prior to your Visit the Academic Advising Center to n track.
- ent research or creative works at the Symposium or at RGVCTM conference.
- ational interview with an individual mnus) currently in the field you aspire to
- rs of interest and seek them out at job n-campus information sessions, staffing Career Center can help.
- rview, schedule a mock interview with the speech coaching with the Communication
- d your acceptance for graduate school or offer? If not, network: talk to faculty, the nd get on LinkedIn.
- nplement a strategy for life after nd career fairs, graduate fairs, apply to
- rmation with Alumni Relations. Enjoy vents and continued access to Career
- your exit loan counseling on

CAREERS

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