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

BRINF

UTRio Grande Valley

ЯАЗҮ НТЯООЗ

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

AAAY ORIHT

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
seoneio2 leoisγd9 bne efiL	100040
Learning Option (Core)	
laitnerive/Experiential	t əsood)
Science (Core)	
Government/Political	t əsood)
foor9 leoitemedteM	
Introduction to	02EE HTAM
916 Safewatical Software	
Introduction to	5455 HTAM
Culture (Core)	
که γhqosolid۹ ,egengne	t əsood)
(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

AAAY TZAIA

т эгоодЭ	Social and Behavioral Sciences (Core)		
т эгоочЭ	American History (Core)		
8152 HTAM	Linear Algebra		
4142 HTAM	ll sulusib		
т әѕооцЭ	(ore) noiteoinummoD		
τοετ λινη	Learning Framework		
t əsood)	Creative Arts (Core)		
	Learning Option (Core)		
τ	lntegrative/Experiential		
т эгоонЭ	American History (Core)		
6142 HTAM	l sulusie		
t əsood)	(onmunication (Core)		

ACADEMIC

PLAN

' Expe

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.



....

- 00.
- 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



AAAY HTAUOA

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 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
9vitoela beonevbA roleM	XXEX HTAM
toolor9 soitemedteM	0664 HTAM

AAAY ORIHT

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
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

AAAY TZAIA

Principles of Microeconomics	ECON 5305
American History (Core)	t əsood)
Linear Algebra	8122 HTAM
ll sulusied	4142 HTAM
(əro) noitsəinnmmo)	t əsood)
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

i Expe

FIRST YEAR

SECOND YEAR

THIRD YEAR

UTRio Grande Valley

Medic R a point to visit them Complete a point to visit them Complete a point to visit them Complete 30 craft hours. Complete 30 craft hours Comp					ANI
Hild Section 2016 Compared sources of the states			□Shoot for a GPA of <u>3.5</u> .	□Shoot for a GPA of 3.5.	□Shoot for a GPA of 3.00
MILESTONES Complexity State Display the fuscion state of the		•			
Implementation graduate in Ayers. Definition of a QPA of 3_S. Definition of a QPA of 3_S. Definition of a QPA of 3_S. ADVICE & Disker information between the scattering control of a QPA of 3_S. Definition of a QPA of 3_S. Definition of a QPA of 3_S. Definition of a QPA of 3_S. ADVICE & Disker information between the scattering control of a QPA of 3_S. Definition of a QPA of 3_S. Definition of a QPA of 3_S. Definition of a QPA of 3_S. SUPPORT Definition control of a QPA of 3_S. Definition of QPA of 3_S. Definition of A QPA of 3_S. Definition of A QPA of 3_S. Definition A QPA of 3_S. Definition A QPA of 3_		during your first year.	□Take Core Economics courses such as ECON 2301		□Register for your Capst
ADVICE & SUPPORT Construction of a GA of a <u>S</u> of read of read of a <u>S</u> of read of read of a <u>S</u> of read o	MILESTONES	*			1
ADVICE & SUPPORT Disets with your academic advices and bring your disets with your academic advices and bring your disets with your academic advices and bring your disets advices and bring your disets with your academic advices and bring your disets with your academic advices and bring your disets advices and your academic advices and bring your disets advices and your academic advices and your analyour advices and your					
ADVICE & SUPPORT ADVICE ADVIC		Take MATH 2412 in your first year.			
Internation forder with you to every essoning Include endpower. Include end		•			apprenticeship, or for f
ADVICE & SUPPORT Dubits a factor which comes void: updation of which comes void: Support Dubits a factor which comes void: updation mext year: updation mext year: up				join a professional organization such as American	
SUPPORT Dista facture member during their office hours and sake question about class. Dista the commendation nature table presentations. Bigdlation net year. Bigdlation net year. Classes fill up fast. When registration opens, be sur- to register on the first day for your group. Drouble making your turtion payment? The Financial Add Office can help. Payment plans and emergency loans are also available Drouble making your turtion payment? The Financial Add Office can help. Payment plans and emergency loans are also available Drouble making your turtion payment? The Financial Add Office can help. Payment plans and emergency loans are also available Dis show off your research, special-financial Add Office can help. Payment plans and emergency loans are also available Dis show off your research, special-financial Add office can help. Payment plans and emergency loans are also available Dis show off your research, special-financial Add office can help. Payment plans and emergency loans are also available Dis show off your research, special-financial Add office can help. Payment plans and emergency loans are also available Dis show off your research, special-financial Add office can help. Payment plans and the plant plant prof writing a kills Take proof-ch courses the Engaged Scholar Symposium. Dis show off your research special-financial Payment plant add plant plan					
SUPPORT -Wast a factor member due and cas. -Wast a factor house and cas. -Wast he Communication House House and cas. -Wast he Commun	ADVICE &				i de la companya de la company
Classes fill up task. When registration opers, be sur- to register on the first day for your group. Classes fill up task. When registration opers, be sur- to register on the first day for your group. Classes fill up task. When registration opers, be sur- to register on the first day for your group. Classes fill up task. When registration opers, be sur- to register on the first day for your group. Classes fill up task. When registration opers, be sur- to register on the first day for your group. Classes fill up task. When registration opers, be sur- to register on the first day for your group. Classes fill up task. When registration opers, be sur- to register on the first day for your group. Classes fill up task. Check on a campus with free office withs. Class to study with you. Classes fill up task. Classes for task. Classes fill up task. Classes fill up task. Classes for task. C	SUPPORT				•
APPLY WHAT Office can help. Payment plans and emergency loans are also available Center. Dicok for future schularships and fellowships to apply for more start either type of graves and for type start. The sector start is the secto					
APPLY WHAT YOU LEARN YOU LEARN GLOBAL, CAMPUS & COMMUNITY ENGAGEMENT LIFE AFTER GRADUATION LIFE AFTER GRA				Center.	□Consider applying for a
APPLY WHAT YOU LEARN		□Cold or flu getting you down? We have Student	also available		start either type of grad
APPLY WHAT YOU LEARN visit fragged Scholarship & Learning Office. Engaged Scholarship & Learning Office. works at the Engaged Scholar Symposium! Engage Scholar Symposium! EngageScholar Symposium! Engage Scholar Sympos		Health Services on campus with free office visits.		during the fail of your senior year. Visit utigy.edu/cstern.	Mathematics.
APPLY WHAT Participate in a campus-sponsored community service project. DAsk a student in class to study with you. Dask a student in class to study with you. Dask a student in class to study with you. Discuptor profile on the Engagement Zone through My LITRGV edu. Dast a student in class to study with you. Discuptor profile on the Engagement Zone through My LITRGV edu. Dast a student in class to study with you. Discuptor profile on the Engagement Zone through My LITRGV edu. Dast and a diversity based campus or community event (e.g. MKL Day of Service). Dian a student organization. D		□Look for a service-learning course! For guidance,	□To find undergraduate research opportunities, visit the	□Go show off your research, service-learning or creative	□Continue to present re
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!	
LIFE AFTER GRADUATION Ask a student in dass to study with you. Description the Engagement Zone through My.UTROV.edu. Dook at study abroad opportunities or consider applying to UT-ISAMP or other internal or external summer research projects. Click on Student resources at htp://www.utrgv.edu/cstem/ Dook at study abroad opportunities or consider applying to UT-ISAMP or other internal or external summer research projects. Click on Student resources at htp://www.utrgv.edu/cstem/ Dook at study abroad opportunities or consider applying to UT-ISAMP or other internal or external summer research projects. Click on Student resources at htp://www.utrgv.edu/cstem/ Dook at study abroad opportunities or consider applying to UT-ISAMP or other internal or external summer research projects. Click on Student resources at htp://www.utrgv.edu/cstem/ Dook at study abroad opportunities or consider applying to UT-ISAMP or other internal or external summer research projects. Click on Student resources at htp://www.utrgv.edu/cstem/ Dook at study abroad opportunities or consider applying to UT-ISAMP or other internal or external summer research projects. Click on Student resources at htp://www.utrgv.edu/cstem/ Dook at study abroad opportunities or consider applying to UT-ISAMP or other internal or external summer research projects. Click on Student resources at htp://www.utrgv.edu/cstem/ Dook at study abroad opportunities or consider applying to tak student sudy abroad opportunities. Dist option summer astoch industrial and Applied Mathematics (SIAM) or visit VLInk (trgv.edu/vLink) for options. SiAMP or other internal on a computer science (SACMS) or visit VLInk (trgv.edu/vLink) for options. SiAMP or other internal on ask for letters of recommend computer Science, Physics, or Engineering. Siotol for a job on the Career Center portal! Docate an d					
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
GLOBAL, CAMPUS Consider serving on a campus life/community committee trivough My.UTRGV.edu. Consider serving on a campus life/community committee or become a student leader and make a difference. Visit Mark or diversity based campus or community event lice. Click on Student resources at http://www.utrgv.edu/cstem/ Consider serving on a campus life/community committee or become a student leader and make a difference. Visit Component your favorite professor's of in other internal or external summer research projects. Click on Student resources at http://www.utrgv.edu/cstem/ Clock at study abroad opportunities or consider applying to T-LSAMP or other internal or external summer research projects. Click on Student resources at http://www.utrgv.edu/cstem/ Clock at study abroad opportunities or consider applying to T-LSAMP or other internal or external summer research projects. Click on Student resources at http://www.utrgv.edu/stanian and apple dometers program. Clock at study abroad opportunities or consider applying to T-LSAMP or other internal or external summer research projects. Click on Student resources at http://www.utrgv.edu/stanian and poption the summer and drop by vuir favorite professor's project or ist VLink for option. Science (SACNAS) or visit VLink for option. Science on the external advice and neater or portain list. Click on student resources at the event, approach a recruiter and discus internships. Click for a job on the Career Center portail Clock out the center for Excellence in STEM program department website for postings on career/graduate school inclice/ worksdowrs, supervisor, etc.). Give them at least two weeks' advance and thead worksdowr. Science, physics, or Engineering. Click fo		Ask a student in class to study with you.		organization.	
GLOBAL, CAMPUS [□] Attend a diversity based campus or community event (e.g. MLK Day of Service). [□] Tresearch projects. Click on Student resources at thtp://www.utrgv.edu/clstem/ [□] Create a résumé and setu op your favoite professor's office to talk about research opportunities. [□] Line a student organization! Consider looking into Society for industrial and Applied Mathematics (SIAM) or visit VLink (utrgv.edu/vlink) for other options. [□] Create a résumé and set up your profile on the Career Center on Steener (SACMAD) [□] Licate a résumé and set up your profile on the Career Center and ask [□] about places to do some job shadowing. [□] Lock out a campus or community or career options? [□] Lock out a tarend one student workshop. [□] Nink about three people you can ask for letters of recommend Computer Science, Physics, or Engineering. [□] Locate and attend one student workshop. [□] Nink about three define for your graduate school advice and to take the GR exame. Viting or graduate school advice and to take the GR exame. Viting or graduate school advice and to take the GR exame. Viting or manupus or career/graduate school. Click on 3 tudent resources at http://www.utrgv.edu/viting/ [□] Dicate and attend one student workshop. [□] Nink about three people you can ask for letters of recommend Computer Science, Physics, or Engineering. [□] Dicate and attend one student workshop. [□] Nink about three GR exame. [□] Nink about three GR exame. [□] Nink about schools require you tare application? [□] Nink about three GR exame. [□] Ni					
GLOBAL, CAMPUS Association for more information! Before a job interview, Second MUNITY ENGAGEMENT Attend a School Colloquium or Departmental seminar, and drop by your favorite professor's office to talk about research opportunities. http://www.utrgv.edu/cstem/ Before a job interview, Career Center or speec thuse Lab. Before a job interview, LIFE AFTER GRADUATION Career Connection icon: (My.UTRCV.edu). Did na not er student organization. Perspanse in Science (SACNAS) or visit VLink (utrgv.edu/vlink) for other options. Diddate your resume in Career Connection and have it reviewed. Check out a campus event that offers free lunch- bring a divice and student some job shadowing. Check our the Career Center and ask about places to do some job shadowing. Divin a nor expand your career options? We recommend_Computer Science, Physics, or Engineering. Check our UTRGV email for the daily Messenger- locate and attend one student workshop. Mill a interests. 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 Before a job interview, Career Center or speec thuse Lab. Before a job interview, Career Center or speec thuse Lab. Before a job interview, Career Center or speec to application?		•			
& COMMUNITY ENGAGEMENT Attend a School Colloquium or Departmental seminar, and drop by your favorite professor's office to talk about research opportunities. Check out a cultural campus or community event such as seminar, and drop by your favorite professor's office to talk about research opportunities. Check out a cultural campus or community event such as seminar, and drop by your favorite professor's office to talk about research opportunities. Check out a cultural campus or community event such as seminar, and drop by your favorite professor's office to talk about research opportunities. Check out a cultural campus or community event such as society for Industrial and Applied Mathematics (SIAM) or visit VLink (utry.edu/Vlink) for othe Career Connection icon: (My.UTRGV.edu). Check out a campus event that offers free lunch- bring a friend! Check out a campus event that offers free lunch- bring a friend! Check out a campus event that offers free lunch- bring a solup talkets to a some job shadowing. Check out a campus event that offers free lunch- bring a solup talkets to a some job shadowing. Check out a campus event that offers free lunch- bring a solup talkets to a some job shadowing. Check out a campus event that offers free verveed. Check out talket a career for secellence in STEM program department website for postings on career/graduate school. Cick os Student resources at http://www.utrgv.edu/cstem/ Have you received you employment offer? If n Center, and get on Link the event, approach a recruiter and discuss interneships. Check out a career for secellence in STEM program department website for postings on career/graduate school. Cick os Student resources at http://www.utrgv.edu/cstem/ Have you received you employment offer? If n Center, and get on Li	GLOBAL CAMPLIS				
seminar, and drop by your favorite professor's office to talk about research opportunities. Instruction restriction. LIFE AFTER GRADUATION Life after connection icon: (My.UTRGV.edu). Instruction reviewed. Instruction re					
LIFE AFTER GRADUATION Career Connection icon: (My.UTRGV.edu). Distance for the day ancement of Chicanos/Hispanics & Native Americans in Science (SACNAS) or visit VLink for options. Distance for the day ancement of Chicanos/Hispanics & Native Americans in Science (SACNAS) or visit VLink for options. Data a tudent organization! Consider looking into options. Data a tudent organization! Consider looking into optioption indok of a poption in the cally More and		seminar, and drop by your favorite professor's office			
LIFE AFTER GRADUATION ULFGV email for the daily Messenger- locate and attend one student workshop. LIFE AFTER GRADUATION ULFGV email for the daily Messenger- locate and attend one student workshop. LIFE AFTER GRADUATION LIFE AFTER	ENGAGEMIENI	•			
LIFE AFTER (SIAM) or visit VLink (utrgv.edu/Vlink) for other options. Check out a campus event that offers free lunch- bring a friend! Office for International Programs & Partnerships. Have you received you and the program office on the career connection icon: (My.UTRGV.edu). Have you received you and the program office on the career connection icon: (My.UTRGV.edu). Image: Connectio					,
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
GRADUATION Got summer plans? Visit Career Center and ask about places to do some job shadowing. Visit the Career Center site to find a job fair to attend. At the event, approach a recruiter and discuss internships. Visit the Career Center site to find a job fair to attend. At the event, approach a recruiter and discuss internships. Image: Center intervalue: Centervalue: Center intervalue: Center intervalue: Centervalue: Center intervalue: Center intervalue: Centervalue: Centervalue: Centervalue: Centervalue: Center intervalue: Centervalue: Centervalue: Centerval				department website for postings on career/graduate	employment offer? If n
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<>					-
In Research shows that students who work off campus. perform better than those who work off campus. Look for a job on the Career Center portal! In Check your UTRGV email for the daily Messenger- Iocate and attend one student workshop. In Will a miniciple explaind your career options? We recommend_Computer Science, Physics, or Engineering. In Explain to someone how your academic program aligns with your strengths and interests. 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	GRADUATION				
Look for a job on the Career Center portal! Check your UTRGV email for the daily Messenger- locate and attend one student workshop. Look for a job on the Career Center portal! Explain to someone how your academic program aligns with your strengths and interests. Explain to someone how your academic program aligns with your strengths and interests. Locate and attend one student workshop. Locate and				recommendation (professors, mentors, advisors,	
Check your UTRGV email for the daily Messenger- locate and attend one student workshop. With your strengths and interests. With your strengths and interests. DWhen 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					mixers, events and con
application? Most schools require you to apply a year in advance and to take the GRE exam. Visiting the program					
advance and to take the GRE exam. Visiting the program		locate and attend one student workshop.		application? Most schools require you to apply a year in	
					-



.....

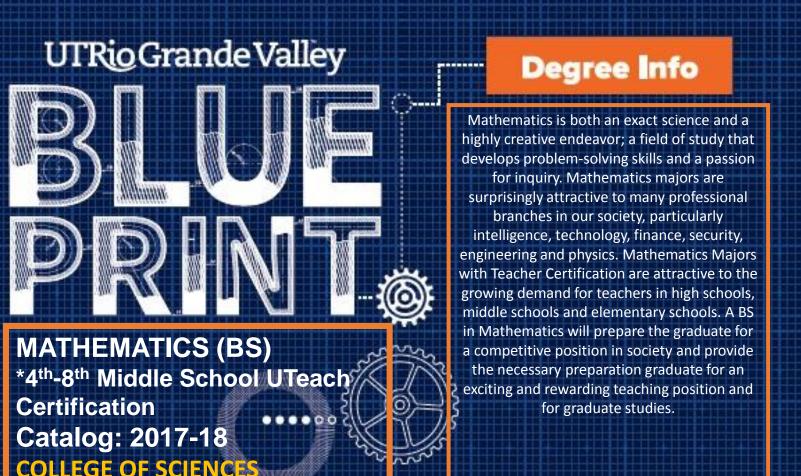
FOURTH YEAR AND BEYOND s.00.

- 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
- ur exit loan counseling on

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**



AAAY HTAUOA

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

BnidoseT eoitnerqA	1094 HOTU
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

AAAY ORIHT

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
Algebraic Structures	
fo sletnemebnu ³	4025 3TAM
I	
Measurement and Geometry	MATE 3302
fo sletnemebnu7	
l sisylenA le9Я	2725 HTAM
l sıdəglA nıəboM	EBEE HTAM
Classroom Interactions	UTCH 3302
gnileboM bns snoitonu ¹	1225 JTAM
School Mathematics	
elbbiM fo sletnemebnu T	1025 3701
Modern Geometry I	S255 HTAM
Differential Equations	1456 HTAM

SECOND YEAR

(Core)	τ əsooyጋ	
zeoneio2 leoiεγήq bne eli		
(Sore) noitqO guinseJ	T 2000110	
lntegrative/Experiential	τ əsooyጋ	
Solution and Science Solution Science	T000 110 10	
ni gninre J bne gniwonX	UTCH 3301	
Science (Core)	τ əsooyጋ	
Government/Political		
foor9 lesitemedteM		
Introduction to	02EE HTAM	
ll szitemedteM	1251 HTAM	
fo sletnemebnu 1		
Culture (Core)		
& Ydqosolid9 ,9gengne1	t əsood)	
(Core)	T 2000110	
Life and Ρhysical Sciences	t əsood)	
Science (Core)		
Government/Political	t əsood)	
lll sulusid	2142 HTAM	
l szitemedteM		
fo sletnemebnuF	02E1 HTAM	

T ƏSOOUN	
τ əsooyጋ	
8122 HTAM	P
MATH 2414	A
t əsoodD	ADI
τοετ λινη	EMIC
τ әѕоочጋ	
T ƏSOOUN	CP
	LAN
т әѕоочо	Z
6142 HTAM	
τ əsooyጋ	
	 E142 HTAM E142 HTAM L 920042 L 920042 L 920043 <lil 92004<<="" td=""></lil>

AAAY TZAIA



UTRio Grande Valley

FIRST YEAR

SECOND YEAR

THIRD YEAR

				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 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!

.....

- 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



ЯАЗҮ НТЯООЗ

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 Elective	XXEX XXXX
Free Advanced Elective	33XX-43XX
9vitɔəl∃ bəɔnɕvbA roįɕM	XXE4 HTAM
9vitoel Elective	XXE4 HTAM
Free Elective	XXEX XXXX
Free Advanced Elective	33XX-43XX
9vitoel Elective	XXE4 HTAM
Τοροίοgy	2264 HTAM
toject Project	0664 HTAM

AAAY ORIHT

Free Elective	XXEX XXXX
Aajor Advanced Elective	XXE4 HTAM
sbodt9M leain9muN	6455 HTAM
Probability and Statistics	VEEE TAT2
l sisylenA le9Я	STEE HTAM
Free Elective	XXEX XXXX
Major Advanced Elective	XXEE HTAM
səldeineV xəlqmoD	2424 HTAM
Number Theory	2955 HTAM
l sıdəglA nıəboM	EƏEE HTAM

SECOND YEAR

t əsood)	Life and Physical Sciences (Core)
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

AAAY TZAIA

	т эгоодЭ	Social and Behavioral Sciences (Core)
1	t əsooy)	American History (Core)
0	8122 HTAM	Linear Algebra
Þ	4142 HTAM	ll sulusid
DEN	t əsood)	(ore) noiteoinummoO
EMI	τοετ λινη	Learning Framework
ō	τ	Creative Arts (Core)
PLA	£ əsood)	Integrative/Experiential Learning Option (Core)
Ź	τ əsooyጋ	American History (Core)
	6142 HTAM	l sulusis
	τ	(ommunication (Core)

' Fxpf N I

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

- .00.
- 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
- credit hours to graduate.
- tion(s) for graduate school in the fall, an or fulltime employment. with your faculty mentor or advisor that
- , 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 er letters, and other job application
- or a Masters of Doctoral Program. You can raduate degree with your BS in
- research or creative works at the posium or at State or National meetings lustrial and Applied Mathematics and the ical 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 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**



AAAY HTAUOA

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

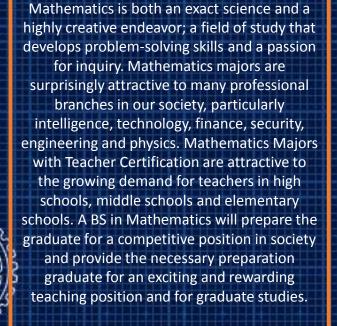
Free Elective	XXEX XXXX
Free Advanced Elective	33XX-43XX
Major Elective	XXEX XXXX
Major Advanced Elective	33XX-43XX
Free Elective	XXEX XXXX
Free Advanced Elective	XXEX XXXX
Major Advanced Elective	33XX-43XX
Major Advanced Elective	33XX-43XX
bathematics Project	0654 HTAM

AAAY OAIHT

Free Elective	XXEX XXXX
Elective	
b92nevbA rojeM	33XX-43XX
Elective	
b92nevbA rojeM	33XX-43XX
C+2+1i+2irc	ΥΕΕΕ ΤΑΤΖ
Probability and	
l sisylenA le9Я	2755 HTAM
Free Elective	ΧΧΈΧ ΧΧΧΧ
Major Elective	XXEX XXXX
Elective	33XX-43XX
b90r Advanced	
Flective	33XX-43XX
Major Advanced	
I sidegla niebna l	EBEE HTAM
	The second s

SECOND YEAR

τ əsooyጋ	Sciences (Core)
1030040	lisizyd9 bns 91iJ
	Learning Option (Core)
t əsood)	Integrative/Experiential
	Science (Core)
τ	leoitilo9\tnemn1evoD
02EE HTAM	Proof IssitemedteM
	Introduction to
SZEE HTAM	Modern Geometry I
	Culture (Core)
t əsood)	& yhqosolih9 ,98eugne1
	Sciences (Core)
t əsood)	Life and Physical
CUDO3C T	Science (Core)
τ	leoitilo9\tn9mn19voÐ
1456 HTAM	Differential Equations
ZIAS HTAM	Calculus III sulusia



Degree Info

AAAY TZAIA

	τ	Social and Behavioral Sciences (Core)
		levoivedo9 bac leiso3
	t ssood)	American History (Core)
A	8162 HTAM	Linear Algebra
CA	MATH 2414	ll sulusid
DE	t ssood)	(ore) noiteoinummoD
Ζ	τοετ λινη	ไลละทาน หาวิทยาย ได้เกายอา
Ξ	τ	Creative Arts (Core)
P	τ	Learning Option (Core)
	1030040	Integrative/Experiential
ź	τ əsooyጋ	American History (Core)
	6142 HTAM	l sulusied
	т эгоочЭ	(ommunication (Core)

D

FIRST YEAR

SECOND YEAR

THIRD YEAR

				AND DETOND
	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



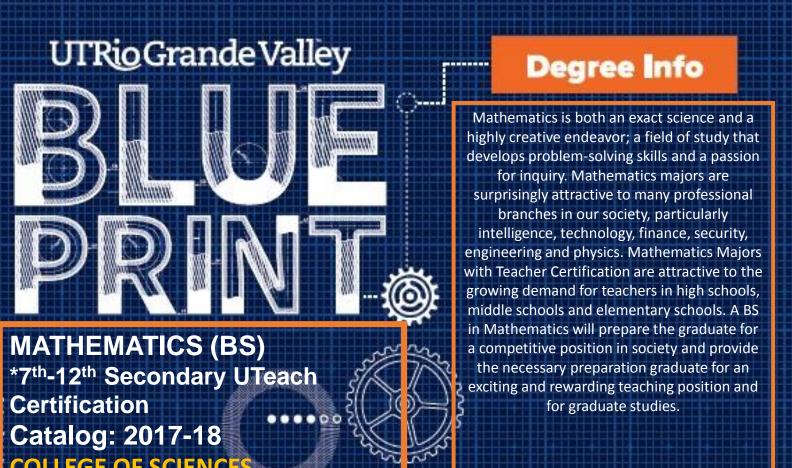
FOURTH YEAR AND REYOND

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

ר	γοntent Area Literacy	READ 4305
	a Technological	MATE 3322
ר	Secondary Mathematics in	
N	Probability and Statistics	VEEE TAT2
٦	l sisylanA la9Я	2755 HTAM
. .	History of Mathematics	92EE HTAM
N	Classroom Interactions	UTCH 3302
N	Pathematics and Science	VIEE 3TAM
	Perspectives in	
N	Modern Geometry I	SZEE HTAM
N	l sıdəglA nıəboM	EƏEE HTAM
	A second seco	ing and

Apprentice Teaching	1094 HOTU
Seminar	1014 H2TU
Apprentice Teaching	
Secondary Mathematics	
ni səibut2 bəɔnɕvbA	6244 JTAM
Project-Based Instruction	UTCH 3303
Secondary Mathematics	
Research Methods in	6264 JTAM
<u> Μ</u> αμοει Τheory	2955 HTAM
toejor9 soitemedteM	0654 HTAM
szitemedteM	
Applied Discrete	1955 HTAM

AAAY HTAUOA

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)	
т әѕоочጋ	Government/Political Science (Core)	
MATE 3321	gnileboM bns snoitonu ¹	
2142 HTAM	III suluoleO	

AAAY OAIHT

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

AAAY TZAIA



UTRio Grande Valley

FIRST YEAR

SECOND YEAR

TH	II R	D١	YFA	R

				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!

.....

- 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