Catalog: 2019-20 **COLLEGE OF ENGINEERING AND COMPUTER SCIENCE**

CIVIL ENGINEERING (BS)

UTRioGrandeValley

2019-2020 ACADEMIC PLAN

SECOND YEAR

Government/Political Science T 92004 HYS 2426 Physics for Scientists and Engineers II NECE 2350 Numerical Methods for Engineers **MECE 2301** Statics III sulusias Z145 HTAN

VIECE 2302 Dynamics American History T 92004

CIVE 3115 Fluid Mechanics and Hydraulics Lab CIVE 3315 Fluid Mechanics and Hydraulics snoiteup3 leitnerential £4££ HTAN SIVE 3321 Stress Analysis

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

n take it past the 1^{st} year you may have scheduling conflicts) ou are unable to get a seat in this course this semester, take it in the next semester or as soon as possible thereafter, but no later than the 5th semester (but note that soce 1." Indicates course options. If options are not listed, please review the General Education Core or the degree plan for this major: www.utrgv.edu/degreeplans

Choose 1

CIVE 4346

CIAE 4332

Choose 1

CIVE 3475

CIVE 3331

Social and Behavioral Sciences

Reinforced Concrete Design

Water Resources Engineering

Government/Political Science

Environmental Engineering

Contact Info

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Geotechnical. Engr. & Applications

CIVE 3345 Transportation Engineering

CIVE 3341 Structural Steel Design

CIVE 3324 Structural Analysis

engineering majors, otherwise it may not count towards your degree. 2 Make sure to enroll for the section specifically recommended for

Integrative & Experiential Learning T SOOUJ Basic Science Elective t sood) CIVE 4392 CE Senior Project **StrA Svitser** τ əsooy) CIVE 43XX Technical Elective II PHIL 23262 Ethics, Technology, & Society-CE Senior Fundamentals CIVE 4391 Foundation Design CIVE 4347 CIVE 43XX Technical Elective I Construction Planning & Mgmt.

ANAME 3337 Engineering Economics CIVE 4349 **ΑΑΑΥ ΟΑΙΗΤ**

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Additional Info

- Math courses must be taken in order, and you should take at least 1 MATH course in each of the first four semesters to avoid getting behind in your degree plan!
- Students must get a "C" or

better in all CIVE courses &

any other courses which are

prerequisites for CIVE

It is critical for students to

maintain a GPA above 3.0

internships and EMPLOYERS

REQUIRE IT AS A MINIMUM!

since most scholarships,

courses.

if you	civil Engineering Materials	CIVE 2440
ους Δίμλους	Engineering Statistics	MANE 2332
оцጋ"	Physics for Scientists & Engineers I	PHYS 2425
Cour	li suiusiej	MATH 2414
C	noiteoinummoD	τ
C		
N	Learning Framework	τοετ λινη
C	American History	τ
N	CHEM 1111 Gen. Chemistry Lab	
C	Chemistry for Engineers Lab or	CHEW 7700
	1311 Gen Chemistry I	
C	Chemistry for Engineers or CHEM	CHEW 7300
d	Civil Engineering Measurements ¹	CIAE 55501
N	Introduction to Civil Engineering	CIΛΕ ΤΤΟΤ
N	(Salculus I (Core)	MATH 2413
N	noiteoinummoD	τ

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Degree Info

The Civil Engineering Program prepares graduates for local, regional or worldwide employment in the engineering profession or placement in a graduate school. The program affords students opportunities to meet and interact with practicing engineers, businesses and government agencies; to participate in professional engineering organizations and in research. The faculty endeavor to be accessible, maintain state of the art instruction and facilities, and to provide liberal access to laboratories and academic support.

FXP

UTRio Grande Valley

FIRST YEAR

SECOND YEAR

THIRD YEAR

F	C)	U

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MILESTONES	 UTRGV has a Learning Center which can help you if you are struggling with a particular class, particularly Math and CHEM. Visit them, they're friendly, and it's free! Complete your core English classes (section 010) and MATH 2414 Calculus II during your first year. Complete 30 credit hours per year to graduate in 4 years. Complete foundational classes ASAP (CIVE 1101 in the 1st semester and CIVE 2220 concurrently or soon after. Take advantage of the job shadowing opportunity offered in the Into to Civil Engineering course Meet with your academic advisor and bring your 	Maintain a GPA of <u>3.0</u> (or higher if you can!) Complete major foundation classes, such as <u>CIVE</u> <u>2440, CIVE 3315/3115, and CIVE 3321</u>. Complete MATH sequence courses, such as <u>MATH</u> <u>2415 and MATH 3341</u>. Complete 30 credit hours. Become a member of the ASCE (it's free!) and join their local UTRGV student chapter (minor fee). If you haven't done so, job-shadow an EIT (Engineer-in-training) or a PE (Professional Engr). Want to explore different careers? Check out	Maintain a GPA of at least <u>3.0</u> in order to qualify for the best internships and entry-level jobs! Complete 30 credit hours. Have you landed an internship or acquired research experience? This is the year to make it happen, since most employers look for that. Put together a <u>work portfolio</u> with your most relevant student work, internship projects, Etc. This will give you an edge in finding good internships and/or entry-level jobs! Seek out research opportunities within <u>your</u>	great! If not, visit you Register for your Caps <u>4391 & 4392 CE Senio</u> Complete at least 30 o
ADVICE & SUPPORT	 Infect with your deducting deviser and oning your orientation folder with you to every session! Choose a major with confidence- Visit my.UTRGV.edu and check out MyMajors! If you are struggling or have questions about a class, make sure to visit the instructor during office hours; they can and will help you! Classes fill up fast. When registration opens, be sure to register on the first day for your group. Be sure to get on waitlist if your course is full. Maintain a GPA of at least <u>3.0.</u> 	MyMajors! Come ready with course suggestions and questions when you visit your academic advisor. Visit the Communication Hauser Lab for help with your speeches and job interviews. Trouble making your tuition payment? The Financial Aid Office can help. Payment plans and emergency loans are also available	 <u>major</u> and join a professional organization such as <u>American Society of Civil Engineers</u>. Check Degree Works to make sure you are on track for graduation next year. Apply for internship and/or job shadowing opportunities. Discuss this with your advisor, faculty mentor, or Career Center. 	internship to compler <u>Department of Transp</u> Discuss future plans v includes employment
TOO LEANN	 Look for a service-learning course! For guidance, visit Engaged Scholarship & Learning Office. Participate in a UTRGV community service project. Ask a fellow student in class to study with you. Feeling sick? Visit the free Student Health Services 	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 (this will open a lot of doors for you!) Sharpen your writing skills! Take an intensive writing course such as <u>ENGL 3342</u> or become the secretary for your organization.	Continue to present r Engaged Scholar Symp Set up an information (especially an alumnu work in.
GLOBAL, CAMPUS	 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 such as <u>Engineering Convocation.</u> Join a student organization! Consider looking into <u>ESAC</u> or visit VLink (utrgv.edu/vlink) for options. 	Look at study abroad opportunities! Consider going to <u>Peru or other interesting countries!</u> Check out a cultural campus or community event such as HESTEC or FESTIBA. Join another student organization. Perhaps Student Government Association 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! Travel the world! Look into study abroad opportunities at Office for International Programs & Partnerships.	Identify employers of online, at on-campus etc. The Career Cente Before a job interview Career Center or spee Hauser Lab.
LIFE AFTER GRADUATION	 Create a résumé and set up your profile on the Handshake icon: (My.UTRGV.edu). Got summer plans? Visit Career Center and ask about places to do some job shadowing. Research shows that students who work on campus perform better than those who work off campus. Look for a job on Handshake! Check your UTRGV email for the daily Messenger- locate and attend one student workshop. 	bring a friend! Update your resume in Handshake 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? <u>We do</u> not have a recommendation for a minor. Explain to someone how your academic program aligns with your strengths and interests.	Check out the <u>Civil Engineering</u> department website for postings on career/graduate school. Think about three people you can ask for letters of recommendation (professors, mentors, advisors, supervisors, etc.). Give them at least two weeks' advance notice! When is the deadline for your graduate school application? Most do not accept late applicants!	Have you received you employment offer? If r Center, and get on Link Formulate and implem attend career fairs, gra Update your information mixers, events and con Remember to do your

FOURTH YEAR AND BEYOND

- PA above <u>3.0</u> in order to get good most employers require it.
- er graduation." If this describes you, ur Faculty Advisor or Career Center!
- stone/senior/portfolio project: CIVE or Design Project I & II.
- credit hours to graduate.
- ion(s) for graduate school, an fulltime employment.
- ident study project or an academic ment your major, such as Texas portation.
- with your faculty mentor or advisor that t, finances, and other life goals.
- one semester prior to your anticipated mic Advising Center to ensure you are
- research or creative works at the posium.
- nal interview with an individual
- us) currently in the field you aspire to
- interest and seek them out at job fairs, information sessions, staffing agencies, er can help.
- w, schedule a mock interview with the ech coaching with the Communication
- ur acceptance for graduate school or an not, network: talk to faculty, the Career kedIn.
- nent a strategy for life after graduation: aduate fairs, apply to fellowships, etc.
- ion with Alumni Relations. Enjoy alumni tinued access to Career Center services!
- exit loan counseling on studentloans.gov.

CAREERS

- Structural
- **Urban Planning**
- Construction •
- Environmental
- Water Resources ٠
- Transportation •
- Geotechnical
- **Construction industry**
- **Utility companies** •
- **Oil companies** ٠
- Water/Waste water treatment plant
- Manufacturing companies
- Railroads
- Airports
- **Road construction** ٠
- Engineering, surveying ٠ & architecture offices and consultants.
- City, state, and federal government:
 - Departments of Transportation (TxDOT & others)
 - Army Corps of Engineers
 - International **Boundary and**
 - Water Commission Environmental
 - **Protection Agency**
 - City Engineering & **Planning offices**

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