grade of "C" or better in all civil engineering courses.

- courses that are prerequisites for civil engineering courses. Students must receive a
- grade of "C" or better in all

Telephone: 956-665-3038 Email: cive@utrgv.edu

Academic Services Building, Room 1.202

Undergraduate Program Coordinator Thuy.vu@utrgv.edu

Dr. Thuy Vu- Civil Engineering

Dr. Jungseok Ho **Associate Department Chair**

Robert.jones@utrgv.edu

Department Chair

Dr. Robert Jones

Contact Info

Choose 1

CIVE 4346

CINE 4332

CINE 3342

2018-2019 ACADEMIC PLAN

III sulusias Calculus III

"Choose 1" Indicates course options. If options are not listed, please review the 2018-19 General Education Core or the degree plan for this major: www.utrgv.edu/degreeplans.

Choose 1 American History

MATH 3341 Differential Equations

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.

RIRST YEAR

CIVE 3341 Structural Steel Design

Social and Behavioral Sciences

Reinforced Concrete Design

Water Resources Engineering

Geotechnical. Engr. & Applications

Transportation Engineering

Environmental Engineering

Construction Planning & Mgmt.

THIRD YEAR

SECOND YEAR

Communication Choose 1

CHEM 1107 Chemistry for Engineers Lab CIVE 2220 Civil Engineering Measurements Introduction to Civil Engineering

MATH 2414 Calculus II Communication Choose 1 UNIV 1301 Learning Framework Choose 1 American History CHEM 1307 Chemistry for Engineers CIVE 1101 MATH 2413 Calculus I (Core)

FOURTH YEAR

CINE 4349

Additional Info

sequence- Math courses must

Students must complete at

and science coursework in

Students must receive a

least 24 credit hours of math

Follow Mathematics

be taken in order.

order to graduate.

CIVE 43XX Technical Elective II

Basic Science Elective Choose 1 CE Senior Project CINE 4392 Creative Arts Choose 1

Choose 1

Integrative & Experiential Learning

POLS 2305 U.S. & Texas Government & Politics I PHYS 2426 Physics for Scientists and Engineers II

UTRio Grande Valley

CIVIL ENGINEERING (BS)

Catalog: 2018-19

COLLEGE OF ENGINEERING

AND COMPUTER SCIENCE

CIVE 3115 Fluid Mechanics and Hydraulics Lab CIVE 3315 Fluid Mechanics and Hydraulics MECE 3321 Mechanics of Solids MECE 2302 Dynamics

PHYS 2425 Physics for Scientists & Engineers I

MANE 2332 Engineering Statistics

CIVE 2440 Civil Engineering Materials

BLUEPRINT EXPERIENCES

	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR AND BEYOND	
MILESTONES	 □ UTRGV has a Writing Center and a Learning Center which can help you if you are struggling with a particular class, particularly Math. Make it a point to visit them! □ Complete your core English classes (section 010) and MATH 2414 Calculus II during your first year. □ Complete 30 credit hours every year in order to graduate in 4 years. □ Establish a solid GPA of at least 3.0. □ Complete major foundation classes, such as CIVE 1101 and CIVE 2220 in your first year. 	 □ Maintain a GPA of at least 3.0. □ Complete major foundation classes, such as CIVE 2440, CIVE 3315/3115, and MECE 3321. □ Complete MATH sequence courses, such as MATH 2415 and MATH 3341. □ Complete 30 credit hours. □ Apply to the Civil Engineering program. 	 □ Maintain a GPA of at least 3.0. □ Complete 30 credit hours. □ Have you landed an internship or acquired research experience? This is the year to make it happen. 	 □ Maintain a GPA of at least 3.0. □ "I have a plan for after graduation." If this describes you, great! If not, visit your Faculty Advisor or Career Center! □ Register for your Capstone/senior/portfolio project: CIVE 4391 & 4392 CE Senior Design Project I & II. □ Complete at least 30 credit hours to graduate. □ Submit your application(s) for graduate school, an apprenticeship, or for fulltime employment. 	
ADVICE & SUPPORT	 ☐ Meet with your academic advisor and bring your orientation folder with you to every session! ☐ Choose a major with confidence- Visit my.UTRGV.edu and check out MyMajors! ☐ If you are struggling or have questions about a class, make sure to visit the instructor during office hours; they can 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. 	 □ Want to explore different careers? Check out MyMajors! □ Come ready with course suggestions and questions when you visit your academic 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 American Society of Civil Engineers. ☐ 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. 	 Engage in an independent study project or an academic internship to complement your major, such as Texas Department of Transportation. Discuss future plans with your faculty mentor or advisor that includes employment, finances, and other life goals. Apply for graduation one semester prior to your anticipated date. Visit the Academic Advising Center to ensure you are on track. 	•
APPLY WHAT YOU LEARN	 □ Cold or flu getting you down? We have Student Health Services on campus with free office visits. □ Look for a service-learning course! For guidance, visit Engaged Scholarship & Learning Office. □ Participate in a campus-sponsored community service project. □ Ask a student in class to study with you. 	☐ To find undergraduate research opportunities, visit the Engaged Scholarship & Learning Office. ☐ Consider attending the LeaderShape Institute or attend the Engaged Scholar Symposium.	☐ Go show off your research, service-learning or creative works at the Engaged Scholar Symposium! ☐ Sharpen your writing skills! Take an intensive writing course such as ENGL 3342 or become the secretary for your organization.	 □ Continue to present research or creative works at the Engaged Scholar Symposium. □ Set up an informational interview with an individual (especially an alumnus) currently in the field you aspire to work in. 	•
GLOBAL, CAMPUS & COMMUNITY ENGAGEMENT	 □ Set up your profile on the Engagement Zone through My.UTRGV.edu. □ Attend a diversity based campus or community event (e.g. MLK Day of Service). □ Attend a departmental program such as Engineering Convocation. □ Join a student organization! Consider looking into ESAC or visit VLink (utrgv.edu/vlink) for options. 	 □ Look at study abroad opportunities! Consider going to Peru! □ 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 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 of interest and seek them out at job fairs, online, at on-campus information sessions, staffing agencies, etc. The Career Center can help. Before a job interview, schedule a mock interview with the Career Center or speech coaching with the Communication Hauser Lab. 	•
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. 	Update your resume in Handshake and have it reviewed. □ Visit the Career Center site to find a job fair to attend. At the event, approach a recruiter and discuss internships. □ Will a minor expand your career options? We do 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? Visiting the program admissions webpage. Most do not accept late applicants! 	 ☐ Have you received your acceptance for graduate school or an employment offer? If not, network: talk to faculty, the Career Center, and get on LinkedIn. ☐ Formulate and implement a strategy for life after graduation: attend career fairs, graduate fairs, apply to fellowships, etc. ☐ Update your information with Alumni Relations. Enjoy alumni mixers, events and continued access to Career Center services! ☐ Remember to do your exit loan counseling on studentloans.gov. 	<u>v</u>

CAREERS

- Structural
- **Urban Planning**
- Construction
- Environmental
- Water Resources
- Transportation
- Geotechnical
- Construction industry
- Utility companies
- Oil companies
- Telecommunications businesses
- Manufacturing companies
- Railroads
- Airports
- Road construction companies
- Engineering and architectural companies
- **Consulting companies**
- City, state, and federal government:
 - Department of Transportation
 - Army Corps of Engineers
 - Federal Aviation
 Administration
 - Department of Energy

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