### Additional Info
- Watch Mathematics sequence: Math courses must be taken in order.
- Students must complete at least 24 credit hours of math and science coursework in order to graduate.
- Students must receive a grade of "C" or better in all courses that are prerequisites for civil engineering courses.
- Students must receive a grade of "C" or better in all civil engineering courses.

### Contact Info
- **Dr. Andrew Ernest**  
  Department Chair  
  [Andrew.ernest@utrgv.edu](mailto:Andrew.ernest@utrgv.edu)
- **Dr. Jungseok Ho**  
  Assistant Department Chair  
  [Jungseok.ho@utrgv.edu](mailto:Jungseok.ho@utrgv.edu)
- **Dr. Thuy Vu**  
  Civil Engineering Undergraduate Program Coordinator  
  [Thuy.vu@utrgv.edu](mailto:Thuy.vu@utrgv.edu)

**Academic Services Building, Room 1.202**  
**Telephone:** 956-665-3038  
**Email:** civ@utrgv.edu

### 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.

### Academic Plan

#### First Year
- **Fall Semester**
  - MATH 2413: Calculus I (Core)
  - CIVE 1101: Introduction to Civil Engineering
  - CHEM 1307: Chemistry for Engineers
  - CHEM 1107: Chemistry for Engineers Lab

- **Spring Semester**
  - MATH 2414: Calculus II
  - PHYS 2425: Physics for Scientists and Engineers I (Core)
  - MANE 2332: Engineering Mathematics
  - CIVE 2440: Civil Engineering

#### Second Year
- **Fall Semester**
  - MATH 2415: Calculus III
  - MECE 2301: Statics
  - MECE 2350: Numerical Methods for Engineers
  - PHYS 2426: Physics for Scientists and Engineers II (Core)

- **Spring Semester**
  - MATH 3341: Differential Equations
  - CIVE 3315: Fluid Mechanics and Hydraulics
  - CIVE 3115: Fluid Mechanics and Hydraulics Lab
  - CIVE 3324: Structural Analysis
  - CIVE 3331: Environmental Engineering
  - CIVE 3337: Construction Management

#### Third Year
- **Fall Semester**
  - MATH 4315: Calculus IV
  - CIVE 4344: Advanced Structural Design
  - GEOL 4311: Geologic Fundamentals
  - CIVE 4345: Transportation

- **Spring Semester**
  - MECE 4335: Water Resources Engineering
  - CIVE 4349: Construction Planning & Management
  - CIVE 43XX: Technical Elective I
  - CIVE 4391: Foundation Design

#### Fourth Year
- **Fall Semester**
  - CIVE 4347: Construction Planning & Management
  - CIVE 43XX: Technical Elective II
  - CIVE 4392: CE Senior Project
  - CIVE 4337: Engineering Economics

- **Spring Semester**
  - CIVE 4346: Reinforced Concrete Design
  - PHIL 2326: Ethics, Technology, and Society (Core)
  - POLS 2305: U.S. & Texas Government and Politics
  - PHIL 2327: Social & Behavioral Sciences

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#### Catalog: 2017-18
**COLLEGE OF ENGINEERING AND COMPUTER SCIENCE**
BLUETPRINT EXPERIENCES

MILESTONES

FIRST YEAR
- Make it a point to visit them!
- Complete your core English classes (section O10) 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 2414 in your first year.
- Choose a major with confidence- Visit my.UTRGV.edu and check out the Major Explorer.
- Visit a faculty member during their office hours and ask a question about class.
- Classes fill up fast. When registration opens, be sure to register on the first day for your.
- 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.
- Visit UTRGV has a Writing Center and Learning Center.

SECOND YEAR
- Complete major foundation classes, such as CIVE 110L, CIVE 2440, and CIVE 3315/3315L.
- Complete 30 credit hours.
- Apply to the Civil Engineering program.
- Write out your different careers? Check out Major Explorer!
- Come ready with course suggestions and questions when you visit your academic advisor.
- Visit the Communication Haurer 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.
- To find undergraduate research opportunities, visit the Engaged Scholarship & Learning Office.
- Consider attending the LeacherShape Institute or attend the Engaged Scholar Symposium.
- Complete 30 credit hours.

THIRD YEAR
- Have you landed an internship or acquired research experience? This is the year to make it happen.
- Complete major foundation classes, such as MATH 2414.
- Consider attending the LeacherShape Institute or attend the Engaged Scholar Symposium.
- 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.
- 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.

FOURTH YEAR
- "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 4991 & 4992 CE Senior Design Project & II.
- Complete at least 30 credit hours to graduate.
- Submit your application(s) for graduate school, an apprenticeship, or for fulltime employment.
- 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.
- 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.
- Consider seeking out a campus life/community committee or seek them out at job fairs, online, 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 Haurer Lab.
- Complete at least 30 credit hours to graduate.

ADVICE & SUPPORT

APPLY WHAT YOU LEARN
- Shoot for a GPA of 3.0.
- Complete major foundation classes, such as CIVE 110L, CIVE 2440, and CIVE 3315/3315L.
- Complete 30 credit hours.
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- Complete your core English classes (section O10) during your first year.
- Complete 30 credit hours every year in order to graduate in 4 years.
- Shoot for a GPA of 3.0.
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GLOBAL, CAMPUS & COMMUNITY ENGAGEMENT
- Complete major foundation classes, such as MATH 2414.
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- Complete major foundation classes, such as MATH 2090.
- Visit UTRGV has a Writing Center and Learning Center.

LIFE AFTER GRADUATION
- Complete major foundation classes, such as MATH 2414.
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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