

Choose 1	CIVIL 2413	Calculus I (Core)
CIVIL 1101	CIVIL 1101	Introduction to Civil Engineering
CIVIL 2220	CIVIL 2220	Civil Engineering Measurements
CHEM 1307	CHEM 1307	Chemistry for Engineers
CHEM 1107	CHEM 1107	Chemistry for Engineers Lab
Choose 1	Choose 1	American History (Core)
UNIV 1301	UNIV 1301	Learning Framework (Core)
Choose 1	Choose 1	Communication
MATH 2414	MATH 2414	Calculus II
PHYS 2425	PHYS 2425	Physics for Scientists and Engineers I (Core)
MANE 2332	MANE 2332	Engineering
CIVIL 2440	CIVIL 2440	Civil Engineering

**FIRST YEAR**

MATH 2415	MATH 2415	Calculus III
MECE 2301	MECE 2301	Statics
MECE 2350	MECE 2350	Numerical Methods for Engineers
PHYS 2426	PHYS 2426	Scientists and Engineers for Physics (Core)
POLS 2305	POLS 2305	U.S. & Texas Government and American History (Core)
Choose 1	Choose 1	(Core)
MECE 2302	MECE 2302	Dynamics
MATH 3341	MATH 3341	Differential Equations
CIVIL 3315	CIVIL 3315	Fluid Mechanics and Hydraulics
CIVIL 3115	CIVIL 3115	Fluid Mechanics and Hydraulics Lab

**SECOND YEAR**

MANE 3337	MANE 3337	Engineering Economics
CIVIL 3324	CIVIL 3324	Structural Analysis
CIVIL 3331	CIVIL 3331	Environmental Engineering
CIVIL 3475	CIVIL 3475	Geotechnical Engineering and Design
CIVIL 3341	CIVIL 3341	Structural Steel Design
CIVIL 3345	CIVIL 3345	Transportation Engineering
CIVIL 4335	CIVIL 4335	Water Resources Engineering
CIVIL 4346	CIVIL 4346	Reinforced Concrete Design
Choose 1	Choose 1	Social and Behavioral Sciences

**THIRD YEAR**

CIVIL 4349	CIVIL 4349	Construction Planning & Management
CIVIL 43XX	CIVIL 43XX	Technical Elective I
CIVIL 4347	CIVIL 4347	Foundation Design
CIVIL 4391	CIVIL 4391	CE Senior Fundamentals
PHIL 2326	PHIL 2326	Ethics, Technology, and Society (Core)
POLS 2306	POLS 2306	U.S. & Texas Government and Society (Core)
CIVIL 43XX	CIVIL 43XX	Technical Elective II
Choose 1	Choose 1	Creative Arts (Core)
CIVIL 4392	CIVIL 4392	CE Senior Project
Choose 1	Choose 1	Basic Science Elective
Choose 1	Choose 1	Integrative & Experiential

**FOURTH YEAR**

**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.

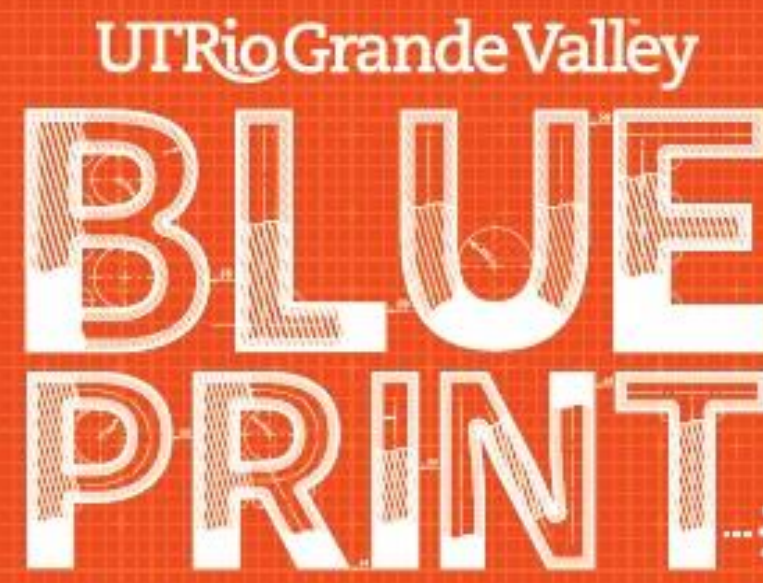
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**CIVIL ENGINEERING (BS)**  
**Catalog: 2017-18**  
**COLLEGE OF ENGINEERING AND COMPUTER SCIENCE**

**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.

# BLUEPRINT EXPERIENCES

## FIRST YEAR

## SECOND YEAR

## THIRD YEAR

## FOURTH YEAR AND BEYOND

## CAREERS

### 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 2414 in your first year.

### 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 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 group.
- Cold or flu getting you down? We have Student Health Services on campus with free office visits.

### 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.

### 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.

### 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.

- Shoot for a GPA of 3.0.
- Complete major foundation classes, such as CIVE 1101, CIVE 2440, and CIVE 3315/3115.
- Complete 30 credit hours.
- Apply to the Civil Engineering program.

- Want to explore different careers? Check out Major Explorer!
- 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

- To find undergraduate research opportunities, visit the Engaged Scholarship & Learning Office.
- Consider attending the LeaderShape Institute or attend the Engaged Scholar Symposium.

- 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 lunch- bring a friend!

- 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 do not have a recommendation for a minor.
- Explain to someone how your academic program aligns with your strengths and interests.

- 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.

- 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.

- 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.

- Check out the Civil Engineering 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!

- Shoot for a GPA of 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.

- 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.

- 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.

- 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.

- 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.

- 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](http://www.utrgv.edu/careercenter)