

Choose 1	Communication (Core)
MATH 1314	College Algebra (Core)
ENG 1101	Introduction to
ENG 1310	Engineering Technology
ENG 1310	Design Graphics I
Choose 1	American History (Core)
UNIV 1301	Learning Framework
Choose 1	Communication (Core)
MATH 2414	Precalculus
ENG 1320	Design Graphics II
EMGT 1321	Basic Architectural CAD
CHEM 1311	General Chemistry I
CHEM 1111	General Chemistry I Lab (Core)

FIRST YEAR

CSCI 1380	Computer Science I (Core)
Choose 1	American History (Core)
PHYS 1401	General Physics I (Core)
ENG 2307	Engineering Materials I
MATH 2413	Calculus I
ENG 2350	Residential Architectural CAD
ENG 2310	Introduction to Manufacturing
MATH 1342	Elementary Statistical Methods
ENG 3350	Commercial Architectural CAD
ENG 2321	Basic Electronics

SECOND YEAR

ENG 3310	Fundamentals of Product Design
ENG 3311	Statics and Strength of Materials
ENG 3312	Renewable Energy Technology
Choose 1	Government/Political Science (Core)
Choose 1	Language, Philosophy & Culture (Core)
ENG 3320	Computer Integrated Manufacturing
ENG 3321	Solar Energy Systems
ENG 3330	Green Building Design I
ENG 3333	Quality Control
Choose 1	Integrative/Experiential Learning Option (Core)
ENG 4322	Machine Design

THIRD YEAR

ENG X3XX	Advanced Elective
ENG 4311	Wind Energy Systems
ENG 4312	Production Planning and Control
ENG 4210	Senior Project I
Choose 1	Government/Political Science (Core)
Choose 1	Creative Arts (Core)
ENG X3XX	Advanced Elective
ENG X2XX	Advanced Elective
ENG 4220	Senior Project II
Choose 1	Social and Behavioral Sciences (Core)

FOURTH YEAR

Additional Info

All Engineering Technology classes are offered only once a year, so it is important to take the courses in the order you are advised.

After talking to your advisor, it is important that you meet with Dr. Edinbarough the program coordinator, as he can clarify any questions you may have about the program.

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UTRio Grande Valley

BLUE PRINT

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

Degree Info

Engineering Technology is the profession in which knowledge of mathematics and natural science, gained by higher education, experience, and practice, is devoted primarily to the implementation and extension of existing technology for the benefit of humanity. Engineering Technology education focuses primarily on the applied aspects of science and that portion of the technological spectrum closest to product improvement, industrial practices, and engineering operational functions.

# BLUEPRINT EXPERIENCES

## FIRST YEAR

## SECOND YEAR

## THIRD YEAR

## FOURTH YEAR AND BEYOND

### 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 MATH1314 College Algebra and MATH2412 Pre-Calculus in your first year.

- Shoot for a GPA of > 3.0
- Complete major foundation classes, such as MATH2313 Calculus I.
- Complete 30 credit hours.

- 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 > 3.0.
- "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 Design project: ENGT4210.
- 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 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 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 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.
- Seek to be an officer in a professional organization such as SME, SAE, SHPE or MAES.
- 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 study project or an academic internship to complement your major.

- 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

- 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.
- Ask your undergraduate advisor about research and project opportunities.

- Go show off your research, service-learning or creative works at the Engaged Scholar Symposium!
- Sharpen your writing skills!
- Become the secretary for your organization.

- Continue to present research or creative works at the Engaged Scholar Symposium or at ASEE Gulf Southwest Conference.
- 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).
- Join a student organization! Consider looking into Society of Manufacturing Engineers (SME) or visit VLink (utrgv.edu/vlink) for options.

- Check out a cultural campus or community event such as HESTEC or Charro Days.
- Join another student organization. Perhaps SHPE 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 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 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.
- Explain to someone how your academic program aligns with your strengths and interests.

- Check out the Manufacturing and Industrial 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!

- 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.

## CAREERS

- Research and development
- Design
- Production
- Operations
- Management
- Teaching
- Consulting
- Sales and marketing
- Law
- Manufacturing
- Healthcare

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)