### Degree Info

Electrical engineering is a broad field with applications in almost all areas of industry including computer systems, control systems, telecommunications, semiconductors, electronics, and electric power. The Department of Electrical Engineering offers a Bachelor of Science in Electrical Engineering (BSEE) degree that is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). This degree provides a broad, solid education in engineering fundamentals as well as the opportunity for in-depth study in specialized topics. Students completing the program will have rigorous foundation for engineering practice in industry as well as for graduate studies in engineering and other disciplines. The program has well-equipped, accessible laboratories and extensive computing facilities.

### Contact Info

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### Additional Info

1. **Minimum Grade Rule**  
Any course that is a prerequisite or co-requisite for another course must be passed with a grade of C or higher.

2. **Mathematics Prerequisites**  
The first math course in the plan is MATH 2413 Calculus I. Depending on your incoming test scores and high school preparation, the math department may require you to start with an earlier course, for example MATH 1314 College Algebra or MATH 2412 Precalculus.

3. **Computer Science Prerequisite**  
CSCI 1380 Computer Science I has a prerequisite of College Algebra or qualification for a higher level math class. If you qualify for Precalculus or Calculus I you can take CSCI 1380.

4. **Prereqs for Senior Design**  
To enroll in Senior Design I, students should have finished ELEE 3230 and ELEE 3485, and should have finished or be enrolled in at least 9 credits of 4000-level ELEE coursework.

### UTRio Grande Valley 2019-2020 Academic Plan

<table>
<thead>
<tr>
<th>Fourth Year</th>
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<th>Second Year</th>
<th>First Year</th>
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<tbody>
<tr>
<td>American History</td>
<td>Mechanical Engineering</td>
<td>Electrical Engineering</td>
<td>Computer Science</td>
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<tr>
<td>MATH 2413</td>
<td>CSCI 1380</td>
<td>ELEE 3230</td>
<td>CHEM 2415</td>
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<td>MATH 2414</td>
<td>MATH 2412</td>
<td>ELEE 3301</td>
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<td>MATH 2415</td>
<td>ELEE 3435</td>
<td>ELEE 3302</td>
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<tr>
<td>MATH 2416</td>
<td>ELEE 3321</td>
<td>ELEE 3415</td>
<td>MATH 3421</td>
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Courses in red are part of the General Education Core Curriculum (GEC)
**FIRST YEAR**
- Complete major foundation classes, such as ELEE 1101, ELEE 2310, ELEE 2305, MATH 2436, ELEE 2319, and PHYS 2426.
- Complete 30 credit hours.
- Apply to the Electrical Engineering program, and find and consult with your electrical academic advisor every semester.

**SECOND YEAR**
- Complete 30 credit hours.
- Have you landed an internship or acquired research experience? This is the year to make it happen.
- Complete at least 30 credit hours to graduate.

**THIRD YEAR**
- Complete 30 credit hours.
- Go check out the Electrical Engineering department website for postings on career/graduate school.
- “I have a plan after graduation.” If this describes you, great! If not, visit your Faculty Advisor or Career Center!

**FOURTH YEAR & BEYOND**
- Aim for a GPA of 3.0 or higher.
- Apply for graduation one semester prior to your anticipated date. Visit the Academic Advising Center to ensure you are on track.
- Complete at least 30 credit hours to graduate.

**ADVICE & SUPPORT**
- Ask a student in class to study with you.
- Participate in a campus-sponsored community service project.

**MILESTONES**
- Take MATH 2413 & 2414 in your first year.
- Complete 30 credit hours every year in order to graduate in 4 years.
- Aim for a GPA of 3.4 or higher.

**CAREERS**
- Automatic controls
- Robotics
- Bioelectronics
- Digital systems
- Electromagnetics
- Analog electronics
- Power and energy systems
- Communications and signal processing

**GLOBAL, CAMPUS & COMMUNITY ENGAGEMENT**
- Visit the Engaged Scholarship & Learning Office.

**APPLY WHAT YOU LEARN**
- Ask a student in class to study with you.
- Participate in a campus-sponsord community service project.

**LIFE AFTER GRADUATION**
- Update your resume in Handshake.
- Register for your senior design courses: ELEE 4361/ELEE 4362.
- Check out the Electrical Engineering department website for postings on career/graduate school.
- Formulate and implement a strategy for life after graduation: attend career fairs, graduate fairs, apply to fellowships, etc.

**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 major foundation classes, such as ELEE 1101, ELEE 2310, ELEE 2305, MATH 2436, ELEE 2319, and PHYS 2426.
- Complete 30 credit hours.
- Apply to the Electrical Engineering program, and find and consult with your electrical academic advisor every semester.

**ADVISE & SUPPORT**
- Check the Career Center website and 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 Hausser Lab.