Almost all MANE classes are offered just once a year, so it is important to take the courses in the order you are advised by the Manufacturing Engineering undergraduate faculty advisor, or else, you may lose a year.

- The most critical courses are the calculus, physics and chemistry courses, MANE2413, MATH2414, PHYS2425, CHEM2307 and CHEM1107. If you don’t take these courses early, you will run out of courses to take because of the prerequisites.
- The second most critical courses are the basic engineering, computer science and math courses, MANE2232, MECE2240, MECE2140, MANE2003 and MATH1341.
- The third most critical courses are the junior level engineering classes, MANE3337, MECE3321, MANE3351, and MANE1364.
- You must take CHEM2307 and CHEM1107. Chemistry for Engineers and Lab, or you must take the combination CHEM1201, CHEM1202, CHEM1302, CHEM3102 (General Chemistry I and II with Labs).
- Technical electives are upper division MANE courses, typically MANE4333 that may be taken in your junior and senior years.
- You may register for MANE1101 research/project/internship classes in three separate to get credit for one technical elective.
- The senior design courses MANE4361 and MANE4362 must be taken in fall-spring sequence.
- It is preferred that the Ethics class PHIL2326 after be taken after the other core courses because performance in this course is better when the student has a higher level of maturity.

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The Manufacturing Engineering Department will provide a quality engineering education to prepare students for the practice of engineering. A strong laboratory component in the curriculum, with opportunities for industrial internships and research experiences will provide engineering skills that enhance the understanding of the applications of engineering sciences and the realization of the importance of lifelong learning. A strong emphasis on verbal and written communications will be stressed.
**FIRST YEAR**

- Shoot for a GPA of > 3.0.
- Complete major foundation classes, such as MATH 2314, Calculus II, and MANE 2332 Engineering Statistics.
- Complete 30 credit hours.
- Complete 30 credit hours in order to graduate in 4 years.
- Visit the Career Center and attend one student workshop.
- Check your UTRGV email for the daily Messenger!
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**SECOND YEAR**

- Complete 30 credit hours.
- Have you landed an internship or acquired research experience? This is the year to make it happen.
- Complete 30 credit hours.
- Seek out research opportunities within your major.
- Seek to be an officer in a professional organization such as SME, SAE, SHPE or MAES.
- Visit the Communication Hauser Lab for help with your speeches.
- Attend the Engaged Scholar Symposium.
- Go show off your research, service or creative works at the Engaged Scholar Symposium!

**THIRD YEAR**

- Shoot for a GPA of > 3.0.
- Have you landed an internship or acquired research experience? This is the year to make it happen.
- Complete 30 credit hours.
- 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, by taking MANE 4101.

**FOURTH YEAR AND BEYOND**

- 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:
  - MANE 4202/4203/4204/4205
- Complete at least 30 credit hours to graduate.
- Submit your application(s) for graduate school, an apprenticeship, or for full-time employment.
- Consider taking MANE 4101 to get credit for a 2-hour technical elective.
- 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.

**ADVICE & SUPPORT**

- Meet with your academic advisor and bring your Career Center application.
- 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.
- Ask a student in class to study with you.
- Participate in a campus-sponsored community service project.
- Look for a service learning course for guidance, visit the Engaged Scholarship & Learning Office.
- 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.
- Apply for undergraduate research opportunities! Consider going to Germany or China.
- Check out a cultural campus or community event such as HESTEC or FESTIBA.
- Join another student organization. Perhaps SME (Mini Baja or Aero Design) or visit VLink for options.
- Check out a campus event that offers free lunch and a chance to network with others.
- Sharpen your writing skills!
- 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 résumé in Career Connection and make it available.
- Visit the Career Center site to find a job fair to attend. At the end of the year, 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? Visit 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 counselling on studentloans.gov.

**MILESTONES**

- Meet with your academic advisor and bring your Career Center application.
- Choose a major with confidence. Visit my.utrgv.edu and check out the Kuder Journey.
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- Consider attending the Leadership Institute or attend the Engaged Scholar Symposium.
- Ask your undergraduate advisor about research and project opportunities.
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