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.

The senior design courses MANE4361 and MANE4362 must be taken in

Technical electives are upper division MANE courses, typically MANE4333 that may be taken in you junior and senior years. You may register for MANE3101 research/project/internship classes in

three separate to get credit for one technical elective.

- Lab, OR you must take the combination CHEM1301, CHEM1101, CHEM1302, CHEM1102 (General Chemistry I and II with Labs).
- The third most critical courses are the junior level engineering classes MANE3337, MECE3321, MANE3351, and MANE3364. You must take CHEM1307 and CHEM1107 Chemistry for Engineers and
- The second most critical courses are the basic engineering, computer science and math courses, MANE2332, MECE2340, MECE2140. MANE2403 and MATH3341.
- Engineering undergraduate faculty advisor, or else, you may lose a year. The most critical courses are the calculus, physics and chemistry courses, MATH2413, MATH2414, PHYS2425, CHEM1307 and CHEM1107. If you do not take these courses early, you will run out of courses to take because of the prerequisites.

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

Additional Info

THIRD YEAR

	Senior Design II	2964 JNAM	ive Arts (Core)	itearD
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Physics for Scientists	
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SECOND YEAR

Elizabeth Rodriguez Administrative Associate (Edinburg) Academic Support and **Facilities Building** Room: 1.316 Telephone: 956-665-2606 elizabeth.rodriguez@utrgv.edu

Dr. Rajiv Nambiar Interim Chair and Professor rajiv.nambiar@utrgv.edu

Contact Info

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MANE 4365

MANE 3302

MANE X3XX

WECE 3357

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WANE 3164

MANE 3364

ELEE 2317

MATH 3341

WANE 2403

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MANFUFACTURING **ENGINEERING (BSMFGE)** Catalog: 2017-18 **COLLEGE OF ENGINEERING AND COMPUTER SCIENCE**

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Computer Science I	C2CI 7380	
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Communication (Core)	τ	

ACADEMIC PLAN

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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.

BLUEPRINT EXPERI

FIRST YEAR

SECOND YEAR

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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. 	 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. 	 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 > "I have a plan for af great! If not, visit yo Register for your Ca MANE4361. Complete at least 30
	 Take MATH2413 Calculus I, or the highest math prerequisite course you can get into, in your first year. Meet with your academic advisor and bring your 	Want to explore different careers? Check out	Seek out research opportunities within your major.	apprenticeship, or f
ADVICE & SUPPORT	 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. 	 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 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 MANE3101. 	 hour technical elect Discuss future plans that includes emplo Apply for graduation date. Visit the Acade 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 Engaged Scholar Syn Conference. Set up an informatio (especially an alumn 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. 	 Look at study abroad 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 SAE (Mini Baja or Aero Design) or visit VLink for options. Check out a campus event that offers free lunch- 	 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 fairs, online, at on-construction agencies, etc. The C Before a job intervise Career Center or spont 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 y an employment offe Career Center, and g Formulate and impligraduation: attend of fellowships, etc. Update your inform alumni mixers, even Center services! Remember to do yo studentloans.gov.

UTRio Grande Valley



OURTH YEAR AND BEYOND of > 3.0.

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- 0 credit hours to graduate.
- ation(s) for graduate school, an for fulltime employment.
- ANE3101 three times to get credit for a 3 tive.
- s with your faculty mentor or advisor oyment, finances, and other life goals.
- n one semester prior to your anticipated lemic Advising Center to ensure you are
- t research or creative works at the mposium or at ASEE Gulf Southwest
- onal interview with an individual nus) currently in the field you aspire to
- of interest and seek them out at job campus information sessions, staffing Career Center can help.
- ew, schedule a mock interview with the beech coaching with the Communication
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- lement a strategy for life after career fairs, graduate fairs, apply to
- nation with Alumni Relations. Enjoy nts and continued access to Career
- our exit loan counseling on

CAREERS

- Project, program, or operations
- management
- Manufacturing systems
- Supply chain management and logistics
- Productivity, methods and process engineering
- Quality
- measurement and
- improvement
- Human factors
- Strategic planning
- Management of
- changeFinancial
- engineering
- Engineering
- management
- Six sigma
- Lean

For additional info, visit the Career Center website and check out "What Can I Do With This Major?" www.utrgv.edu/careercenter