repeat policy. Students will be required to request permission to repeat an MECE course and will be delayed in enrolling in repeat courses until regular students have had opportunity to register. Should they fail to earn a "C" or better upon repeating the course once, they will have to apply to an appeal committee explaining why they should be allowed a third opportunity. If the appeal is persuasive and they are permitted to take a course a third time but do not complete it with a "C" or better, they will be asked to leave the program.

All course prerequisites must be completed with a grade of C or better.
Continuation in the Mechanical Engineering program requires that students maintain an overall GPA at UTRGV of 2.5 or better. Those falling below 2.5 will be placed on probation for one semester with the chance to raise the GPA. If, after that probationary semester, the GPA is still below 2.5, enrollment in MECE courses will be blocked. In general, students wanting to have good employment options upon graduation need a minimum GPA of 3.0.
Beginning with the spring 2018 semester, the department will enforce a new course

likely delay graduation.
Mechanical Engineering courses leave little opportunity to "catch up" if students start slowly or miss content. Because of the connections between content and the rapid pace of coverage, it is critical that students work hard from the beginning and seek help immediately if they are struggling with any material. The department provides supplemental instruction and recitation sessions in key courses and students should take full advantage of these if they wish to efficiently move through the course sequence.

• The Mechanical Engineering course sequence requires careful attention to prerequisites. The mathematics/Engineering Analysis/Fluids sequence is the longest chain of connected courses and requires seven semesters to complete. Students who miss a course or do not complete a course in the sequence with a "C" or better will likely delay graduation.

Additional Info

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Dr. Robert E. Jones

Dr. Robert A. Freeman Department Chair robert.freeman@utrgv.edu

Contact Info

PRINCIPAL PRINCI

AND COMPUTER SCIENCE

SECOND YEAR

UTRio Grande Valley

	Integrative/Experiential Learning Option (Core)	т эгоонЭ	
	Electrical and Electronic Systems	ELEE 2317	
	Ι εοίμεανρομιστ	WECE 5332	
	Dynamics	WECE 3305	
	gninəənign∃ leoinedoəM	WECE 3420	
	Physics for Scientists and	9742 SYH9	
	Statics	WECE 3307	
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	gninəənign∃ leoinehoəM	WECE 3449	
	American History (Core)	t sood)	
	Numerical Methods for	WECE 5320	

WECE 3360	nətznarT taəH
WECE 3350	Measurement &
t əsood)	Sciences (Core)
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	səninəsM
WECE 3380	Kinematics & Dynamics of
WECE 3304	system Dynamics
MECE 3775	spinedbah biula
MECE 3372	Fluid Mechanics
WECE 335 7	sbilo2 fo soinshoeM

AAAY ORIHT

Professional Ethics

Machine Elements

Technical Elective

Heat Transter Laboratory

Choose 1

WECE †320

Choose 1

WECE 3760

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Creative Arts (Core)	t sood)	
Science (Core)	т эгоонЭ	
Government/Political		
Technical Elective	t ssood)	
Senior Design Project II	WECE d 362	
Science (Core)	т эгоонЭ	
Government/Political		
Technical Elective	сроозе д	
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II гоітвиуротэнТ	WECE 3339	
Senior Design Project I	WECE † 3 9T	

Manufacturing Processes Lab MANE 3164 Manutacturing Processes MANE 3364 Engineering Statistics MANE 2332 American History (Core) τ əsooy⊃ Engineers I **PHYS 2425** Physics for Scientists and deJ sleineteM gnineenigne **WECE 5740** Engineering Materials **WECE 3340** Il sulucieO MATH 2414 (Sommunication (Core) Choose 1 Learning Framework τοέτ γινυ Engineering Graphics MECE 1221 Introduction to **WECE JJ0J** Chemistry I Lab τ əsooy⊃ Chemistry I Choose 1 l sulucia) **MATH 2413** (ore) (Sommunication (Core) T SOOUS

ACADEMIC PLAN

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Degree Info

Mechanical engineering is a broad field with

applications in almost all areas of industry including aviation and aerospace, alternative energy, automotive, automated manufacturing and robotics, chemical, computer, electronics, petroleum, nanotechnology, materials, textiles, and heavy equipment and machinery. The Department of Mechanical Engineering offers a Bachelor of Science in Mechanical Engineering (BSME) 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 indepth 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 experimental

and computing facilities.

BLUEPRINT EXPERI

FIRST YEAR

SECOND YEAR

	UTRGV has a Writing Center and a Learning Center. Make	□ Shoot for a GPA of 3.5.	□ Shoot for a GPA of 3.5.	AN
MILESTONES	 it a point to visit them! Complete your core English classes (section 010) during your first year. Complete 33 credit hours every year in order to graduate 	Statics, Dynamics and Thermodynamics. Continue to take a math or engineering analysis class every semester.	 Complete 34 credit hours. Have you landed an internship or acquired research experience? This is the year to make it happen. 	 "I have a plan for afgreat! If not, visit yo Complete at least 30
WILLESTONES			 Start thinking about your Senior Design project, assembling your team, and choosing the project. You may want to look at various national design competitions sponsored by professional societies such as ASME, SAMPE, SAE, and AIAA. 	Submit your applica apprenticeship, or f
ADVICE & SUPPORT	 Meet with your academic advisor and bring your orientation folder with you to every session! Attend the Freshman Mechanical Engineering convocation in the Fall 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. 	Trouble making your tuition payment? The	 Seek out research opportunities within <u>vour major</u> and join a professional organization such as _ASME, SAE, SWE, or SHPE. Check Degree Works to make sure you are on track for graduation next year. Apply for internships. Discuss this with your advisor, faculty mentor, or Career Center. Visit the Communication Hauser Lab for help with your presentations. 	 Engage in an independent internship to compl 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. 	 Go show off your research, service-learning or creative works at the Engaged Scholar Symposium! Sharpen your writing skills! Use the writing center and produce good lab reports or become the secretary for your organization. 	 Continue to present Engaged Scholar Syn society meetings. 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 SHPE or SWE or ASME or SAE or visit VLink (utrgv.edu/vlink) for options. 	 Look at study abroad opportunities! Consider going to Europe. Check out a cultural campus or community event such as HESTEC or FESTIBA. Join another student organization. Perhaps ASME, SAE 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 fairs, online, at on-construction on the construction of the constructi
LIFE AFTER GRADUATION	places to do some job shadowing. Research shows that students who work on campus	 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. 	 Think about three people you can ask for letters of recommendation (professors, mentors, advisors, supervisors, etc.). Give them at least two weeks' advance notice if you need a letter! Only ask for letters when you actually have an application that requires them. 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 impl graduation: attend of fellowships, etc. Update your inform alumni mixers, even Center services! Remember to do yo studentloans.gov.

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FOURTH YEAR AND BEYOND

- fter graduation." If this describes you, our Faculty Advisor or Career Center!
- 0 credit hours to graduate.
- ation(s) for graduate school, an for fulltime employment.

endent study project or an academic lement your major.

- s with your faculty mentor or advisor oyment, finances, and other life goals.
- on one semester prior to your anticipated lemic Advising Center to ensure you are

t research or creative works at the mposium, HESTEC, ASME, SHPE, or other

- ional 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

your acceptance for graduate school or fer? If not, network: talk to faculty, the get on LinkedIn.

- 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

- Machine design
- Systems design
- Manufacturing and production
- Energy conversion
- Energy resources
- Transportation and
- environmental impact
- Materials and structures
- Industries

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- Automotive
- Aerospace
- Electronics
- $\circ \quad \text{Chemical products} \quad$
- o Petroleum
- Textiles
- o Industrial equipment
- Heating and air conditioning systems
- National Aeronautics and
- Space Administration
- Utility companies
- National laboratories
- Federal government:
 - Department of Energy
 - Department of Defense
 - Federal Aviation
 Administration

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