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.

Computer Engineering Program Web

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

Additional Info

Senior Design II (CMPE 4372 or 4374)

CMPE 3326 Obj. Oriented Prog. In Java

CMPE 3226 Electrical Eng. I Lab or

Senior Design I (CMPE 4371 or 4373)

CMPE 4390 Communication Network or

CMPE 4345 Computer Networks

CMPE 4375 Intro to VLSI or

Technical Elective

Operating Systems

STIA 9VIJ691J

Technical Elective

American History

Probability and Statistics

ЯАЗҮ НТЯ ООЗ

t esoond

t esood)

T 920040

T 92004J

Choose 1

t esood)

Choose 1

T asoou

7554 TAT2

CMPE 4334

Engineering Building, EENGR 3.245 -Edinburg Office: (956) 665-7375 Fax: (956) 665-3527 Email: cmpe@utrgv.edu

Ms. Leticia Ocanas **Computer Engineering Program Administrative Associate** cmpe@utrgv.edu leticia.ocanas@utrgv.edu

Dr. Mark Yul Chu **Computer Engineering Program** Coordinator Mark.chu@utrgv.edu

Contact Info

II gnineenigna zmetzyż listigia

CMPE 4375 Intro to VLSI or

Systems Programming

Differential Equations

Software Engineering I

THIRD YEAR

Obj. Oriented Prog. In Java (CMPE 3326)

Software Engineering II (CMPE 3341) or

Microcontroller & Embedded Systems Lab

CMPE 2333 Comp. Org. & Assembly Lang.

CMPE 3437 Microprocessor Systems or

Electrical Eng. I Lab (CMPE 3226) or

CMPE 4333 Database Design & Impl.

Electronics for Computer Engineering

CMPE 3322 Signals and Systems or

Lthics, Technology, and Society

Computer Architecture

COMPUTER ENGINEERING (BSCE) *General Track Catalog: 2018-19 **COLLEGE OF ENGINEERING AND COMPUTER SCIENCE**

UTRio Grande Valley

2018-2019 ACADEMIC PLAN

CWbE \$303

4332

3337

3403

3334

1334J

3340

SECOND YEAR

	CHEM 1111 General Chemistry I Lab	CMPE 4339
СНЕМ 1109	Chemistry for Engineers Lab <u>or</u>	
	CHEM 1311 General Chemistry I	
CHEM 1306	Chemistry for Engineers <u>or</u>	
POLS 2306	U.S. & Texas Government & Politics II	t sood)
CMPE 2120	Electric Circuits I Lab	
CMPE 2320	Electric Circuits I	t sood)
P42 2426	Physics for Scientists & Engineers II	bHIC 2326
CMPE 3333	Algorithms and Data Structures	CMPE 3332
CMPE 2130	Abi I Baineenign∃ دmetsy2 latigiD	CMPE 3403
CMPE 2330	l grineering zmetering l	CWbE 333v
τ	American History	MATH 334
τ	social and Behavioral Sciences	
CMPE 2380	Computer Science II	t ssood)
0452 HTAM	Abth for Electrical & Computer Engr.	CWbE 334(

"Choose 1" Indicates course options. If options are not listed, please review the 2018-19 General Education Core or the degree plan for this major: www.utrgv.edu/degreeplans.

controlled equipment. The body of knowledge for computer engineering includes algorithms, computer architecture and organization, computer systems engineering, circuits and signals, database systems, digital logic, digital signal processing, electronics, embedded systems, computer networks, operating systems, programming, software engineering and discrete structures.

Computer engineering is a discipline that embodies the science and technology of design, construction and implementation

of software and hardware components of modern computing hardware and

software systems and computer-

Degree Info

FIRST YEAR

CIV	Engr. Computer Science I Lab	CMPE 1170
NЭ	Engr. Computer Science I	CMPE 1370
Hd	ll sulusib)	4142 HTAM
SN	Communication	t sood)
CIV	Learning Framework	τοετ λινη
CΝ	anintegrative & Experiential Learning	t sood)
чэ	U.S. & Texas Government & Politics I	POLS 2305
чэ	Intro to Computer Engineering	СМРЕ 1101
CIV	l sulusið	MATH 2413
7M	noiteoinummoO	τ

Physics for Scientists & Engineers I POI PHYS 2425

Courses in red are part of the General Education Core Curriculum (GEC).

FIRST YEAR

SECOND YEAR

THIRD YEAR

MILESTONES	 it a point to visit them! Complete your core English classes (section 010) during your first year. 	 Shoot for a GPA of 3.2 or higher. Complete major foundation classes, such as CMPE 1101, CMPE 1370, CMPE 1170, MATH 2346, CMPE 2330, and PHYS 2426. Complete 41 credit hours. Apply to the Computer Engineering program, and find and consult with your computer engineering academic advisor every semester. 	 Shoot for a GPA of 3.0 or higher. Complete 15 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 a great! If not, visit y Register for your s 4371/CMPE 4372 c Complete at least Submit your applic apprenticeship, or
ADVICE & SUPPORT	 Meet with your university academic advisor and computer engineering advisor and bring your orientation folder with you to every session! Choose a major with confidence- Visit my.UTRGV.edu and check out MyMajors. 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 MyMajors! 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 Computer Engineering and join a professional organization such as IEEE professional societies. Check out your options at ieee.org 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 indep internship to comp computer enginee Discuss future plar that includes empl Apply for graduation anticipated date. V ensure you are on
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. Set up your profile on the Engagement Zone through 	 To find undergraduate research opportunities, visit the Engaged Scholarship & Learning Office. Consider attending the LeaderShape Institute or attend the Engaged Scholar Symposium. Look at study abroad opportunities! Consider 	 Go show off your research, service-learning or creative works at the Engaged Scholar Symposium! Sharpen your writing skills! Take an intensive writing course such as ENGL 3342 or become the secretary for your organization. Consider serving on a campus life/community 	 Continue to preser Engaged Scholar S Symposium. Set up an informat (especially an alun work in. Identify employers
& COMMUNITY ENGAGEMENT	 My.UTRGV.edu. Attend a diversity based campus or community event (e.g. MLK Day of Service). Attend a departmental program such as fall convocation or IEEE student society. Join a student organization! Consider looking into IEEE- BSB, IEEE-Edinburg, SHPE, or visit VLink (utrgv.edu/vlink) for options. Create a résumé and set up your profile on the Handshake icon: (My.UTRGV.edu). Got summer plans? Visit Career Center and ask about 	 going to Europe or Asia! Check out a cultural campus or community event such as HESTEC or FESTIBA. Join another student organization, such as IEEE-EKN, SHPE, Student Government, or visit VLink for options. Check out a campus event that offers free lunchbring a friend! Update your resume in Handshake and have it reviewed. Visit the Career Center site to find a job fair to 	 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. Check out the Computer Engineering department website for postings on career/graduate school. Think about three people you can ask for letters of 	fairs, online, at on- agencies, etc. The Before a job interv Career Center or s Hauser Lab.
LIFE AFTER GRADUATION	 Coordinate plans: Visit curves center and distributive 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 Handshake! Check your UTRGV email for the daily Messenger- locate and attend one student workshop. 	attend. At the event, approach a recruiter and discuss internships.Will a minor expand your career options? We	 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! 	 Formulate and imp graduation: attend fellowships, etc. Update your informalumni mixers, eve Center services! Remember to do y studentloans.gov.

UTRio Grande Valley



FOURTH YEAR AND BEYOND

f 3.0 or higher.

- after graduation." If this describes you, your Faculty Advisor or Career Center!
- senior design project: either CMPE or CMPE 4373/CMPE 4374.
- 28 credit hours to graduate.
- cation(s) for graduate school, an r for fulltime employment.
- pendent study project or an academic plement your major, such as NASA, ering REU program, etc.
- ns with your faculty mentor or advisor loyment, finances, and other life goals.
- ion one semester prior to your Visit the Academic Advising Center to n track.
- nt research or creative works at the Symposium at the Engaged Scholar
- tional interview with an individual mnus) currently in the field you aspire to
- s of interest and seek them out at job n-campus information sessions, staffing Career Center can help.
- view, schedule a mock interview with the speech coaching with the Communication
- I your acceptance for graduate school or ffer? If not, network: talk to faculty, the d get on LinkedIn.
- plement a strategy for life after career fairs, graduate fairs, apply to
- mation with Alumni Relations. Enjoy ents and continued access to Career
- your exit loan counseling on

CAREERS

- Information protection
- Communications and wireless networks
- Computational science
- Operating systems
- Computer networks •
- Computer systems •
- Embedded systems •
- Computer vision and • robotics
- Circuit design
- Signal, image, and • speech processing
- VLSI
- Bioinformatics

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