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Computer Engineering Program Web page http://www.utrgv.edu/cmpe/index.htm

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.

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

Additional Info

Mathematics Prerequisites

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

Ms. Marilyn Garcia Computer Engineering Program Administrative Assistant I cmpe@utrgv.edu

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

Contact Info

UTRio Grande Valley BIUDF BRINF

COMPUTER ENGINEERING (BSCE)

*General Track

Catalog: 2017-18

COLLEGE OF ENGINEERING

AND COMPUTER SCIENCE

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Senior Design II (CMPE 4372 or 4374)	t əsood)
9vitoal Elective	τ
Operating Systems	CMPE 4334
Intro to VLSI (CMPE 4375) or Electrical Eng. I Lab Oriented Prog. In Java (CMPE 3326)	т әѕоочо
Creative Arts (Core)	τ
Senior Design I (CMPE 4371 or 4373)	τ əsooyጋ
Communication Network (CMPE 4390) or Computer Networks (CMPE 4345)	т эгоодЭ
Technical Elective	т әѕоочо
American History (Core)	τ əsooyጋ
Probability and Statistics	7554 TAT2

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II grineering II	CMPE 4303		
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Computer Architecture	CMPE 4335		
Engineering II (CMPE			
4375) or Software	τ əsooy⊃		
Intro to VLSI (CMPE			
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(CMbE 3355) or	τ əsooy⊃		
smateve and Systems			
and Society	PHIL 2326		
Ethics, Technology,			
Embedded Systems	CMPE 3331		
Microcontroller and			
Computer Engineering	CMPE 3403		
Electronics for			
Systems Programming	CMPE 3334		
Differential Equations	1455 HTAM		
System (CMPE 2333)			
or Comp. Org. and			
Systems (CMPE 3437)	τ әѕоочጋ		
Microprocessor			
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SECOND YEAR

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Chemistry for		
Chemistry for	CHEM J307	
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Government and	POLS 2306	
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Electric Circuits I	CMPE 2320	
and Engineers II (Core)	9242 SYH9	
Physics for Scientists		
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Sciences (Core)	T ƏSOOUN	
Social and Behavioral	2 13	
Computer Science II	CMPE 2380	
Computer Engineers		
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Physics for Scientists and Engineers I (Core)	2425 PHYS
Engineering Computer Science I Lab	CMPE 1170
Engineering Computer Science I	СМРЕ 1370
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Learning Framework	τοετ λινη
Integrative and Experiential Learning (Core)	τ əsooyጋ
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Introduction to Computer Engineering	СМРЕ 1101
Calculus I (Core)	E142 HTAM
Communication (Core)	с роозе т

ACADEMIC PLAN

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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 computercontrolled 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.



UTRio Grande Valley

FIRST YEAR

SECOND YEAR

	VEAD	
 IRI)	YEAR	

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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 Register for your s 4371/CMPE 4372 Complete at least Submit your applia apprenticeship, or
ADVICE & SUPPORT	 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 the Kuder Journey. 	 Want to explore different careers? Check out 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 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 indelinternship to com computer enginee Discuss future pla that includes emp Apply for graduati anticipated date. Yensure 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. 	 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! Take an intensive writing course such as ENGL 3342 or become the secretary for your organization. 	 Continue to prese Engaged Scholar S Symposium. Set up an informa (especially an alur work in.
GLOBAL, CAMPUS & 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- 	 Look at study abroad opportunities! Consider 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 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 employer fairs, online, at on agencies, etc. The Before a job interv Career Center or s Hauser Lab.
LIFE AFTER GRADUATION	 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. Will a minor expand your career options? We suggest that you might consider a minor ONLY if you are achieving satisfactory performance in your computer engineering major. Explain to someone how your academic program aligns with your strengths and interests. 	 Check out the Computer 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 an employment o Career Center, and graduation: attend fellowships, etc. Update your infor alumni mixers, evo Center services! Remember to do studentloans.gov.

FOURTH YEAR ND BEYOND

of 3.0 or higher.

after graduation." If this describes you, your Faculty Advisor or Career Center!

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- senior design project: either CMPE or CMPE 4373/CMPE 4374.
- 28 credit hours to graduate.
- ication(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.
- ins with your faculty mentor or advisor bloyment, finances, and other life goals.
- ion one semester prior to your Visit the Academic Advising Center to n track.
- ent research or creative works at the Symposium at the Engaged Scholar
- ational interview with an individual mnus) currently in the field you aspire to
- rs 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
- ed your acceptance for graduate school or offer? If not, network: talk to faculty, the nd get on LinkedIn.
- nplement a strategy for life after nd career fairs, graduate fairs, apply to
- rmation with Alumni Relations. Enjoy vents 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