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

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

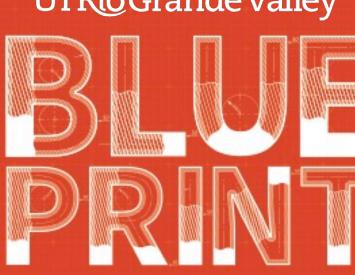
Dr. Mark Yul Chu **Computer Engineering Program** Coordinator Mark.chu@utrgv.edu

Contact Info

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COMPUTER ENGINEERING (BSCE) *Hardware Track Catalog: 2018-19 **COLLEGE OF ENGINEERING**

AND COMPUTER SCIENCE



UTRio Grande Valley

2018-2019 ACADEMIC PLAN

SECOND YEAR

	no de l monipua not vatrimod?			
	CHEM 1311 General Chemistry I			
	Chemistry for Engineers <u>or</u>	CHEW 7300		
)	U.S. & Texas Government & Politics II د ه	POLS 2306	Physics for Scientists & Engineers I	PHYS 2425
	Electric Circuits I Lab	CMPE 2120	Engr. Computer Science I Lab	CMPE 1170
)	Electric Circuits I	CMPE 2320	Engr. Computer Science I	CMPE 1370
	Physics for Scientists & Engineers II	P475 2426	Calculus II	4142 HTAM
	serutourt2 eteO bne smdtiroglA	CMPE 3333	noiteoinummoO	τ
)				
	dɛJ l gninəənign∃ zmətzy2 lɛtigiO	CMPE 2130	Learning Framework	τοετ λινη
)	l gnirəənign∃ zmətzy2 lstigiO	CMPE 2330	anintegrative & Experiential Learning	τ
)	American History	τ	U.S. & Texas Government & Politics I	POLS 2305
	seoneio2 levoiveded bue leioo2	τ	Intro to Computer Engineering	СМРЕ 1101
)	Computer Science II	CMPE 2380	Calculus I	8142 HTAM
)	Math for Electrical & Computer Engr.	0452 HTAM	noiteainummoD	τ

CHEM 1111 General Chemistry I Lab

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Computer Architecture	CMPE 4335
Intro to VLSI	CMPE 4375
smətsy2 bna slangi2	CMPE 3322
Ethics, Technology, and Society	PHIL 2326
Microcontroller & Embedded Systems Lab	CMPE 3331
Electronics for Computer Engineering	CMPE 3403
gnimmergor9 sm9tsv2	CMPE 3334
Differential Equations	1426 HTAM
Microprocessor Systems	CMPE 3437
Software Engineering I	CMPE 3340

Operating Systems CWPE 4334 Electrical Engineering | Lab CMPE 3226 **Creative Arts** T 920043 CMPE CMPE sooy

Technical Elective

CMPE 4374

t esoond

Senior Design I Hardware	CMPE 4373
Communication Network	CMPE 4390
Technical Elective	т эгоочЭ
American History	t əsood)
Probability and Statistics	7554 TAT2

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Additional Info

Any course that is a prerequisite for another

course must be passed with a grade of C or

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

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

1314 College Algebra or MATH 2412

Minimum Grade Rule

Mathematics Prerequisites

higher.

Precalculus.

Senior Design II Hardware

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.

Degree Info

Computer engineering is a discipline that

embodies the science and technology of

design, construction and implementation

Communication	î 9200
NAJY IZ	HIH

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

"Choose 1" Indicates course options. If options are not listed, please review the 2

FIRST YEAR

SECOND YEAR

THIRD YEAR

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 42 credit hours every year in order to graduate in 4 years. Shoot for a GPA of 3.4 or higher. Take MATH 2413 & 2414 in 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 d 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 	 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 plan that includes emp Apply for graduati anticipated date. N ensure you are on
APPLY WHAT YOU LEARN	 Services on campus with free office visits. 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 going 	 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 prese Engaged Scholar S Symposium. Set up an informat (especially an alum work in. Identify employers
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- BSB, IEEE-Edinburg, SHPE, or visit VLink (utrgv.edu/vlink) for options. 	 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! 	 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. 	fairs, online, at on agencies, etc. The Before a job interv Career Center or s Hauser Lab.
LIFE AFTER GRADUATION	 Create a résumé and set up your profile on the Handshake 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 Handshake! Check your UTRGV email for the daily Messenger- locate and attend one student workshop. 	 Update your resume in Handshake 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 of Career Center, and Formulate and im graduation: attend fellowships, etc. Update your infor- alumni mixers, even Center services! Remember to do y studentloans.gov.

UTRio Grande Valley



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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.
- 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 loyment, 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
- tional 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
- d your acceptance for graduate school or ffer? If not, network: talk to faculty, the d get on LinkedIn.
- plement a strategy for life after d 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 \bullet
- Computer vision and \bullet 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