http://www.utrgv.edu/cmpe/index.htm

Computer Engineering Program Web page

for example MATH 1314 College Algebra or MATH 2412 Precalculus.

require you to start with an earlier course,

Fax: (956) 665-3527

Office: (956) 665-7375 Email: cmpe@utrgv.edu

Edinburg

*Software Track Catalog: 2018-19 **COLLEGE OF ENGINEERING AND COMPUTER SCIENCE**

COMPUTER ENGINEERING (BSCE)

UTRio Grande Valley

Degree Info

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-

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.

Additional Info

Any course that is a prerequisite for

another course must be passed with a

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

Minimum Grade Rule

grade of C or higher.

Mathematics Prerequisites

FOURTH YEAR

FIRST YEAR

Computer Architecture

Object Oriented Programming in Java

Database Design & Implementation

Electronics for Computer Engineering

Computer Org. & Assembly Language

Ethics, Technology, and Society

Computer Science II mbuter Engr.

Social and Behavioral Sciences Choose 1 **CMPE 2380**

American History

Digital Systems Engineering I **CWPE 2330** Choose 1

CHEW 1300

POLS 2306

CWPE 2120

CWPE 2320

PHYS 2426

CWPE 3333

CMPE 2130

Integrative & Experiential Learning

Calculus II

Engr. Computer Science I Lab Engr. Computer Science I

Physics for Scientists & Engineers I **PHYS 2425**

THIRD YEAR

Systems Programming

Differential Equations

Software Engineering I

Flectrical & Cor	l 101 for I	9452 HTAM	
YEAK	UND	PEC	

Calculus I	H 2413
Communication	I 980
	22.11

Communication Learning Framework U.S. & Texas Government & Politics I Intro to Computer Engineering HTAM Сиоог

CMPE 1170 CMPE 1370 A142 HTAM Choose 1 **UNIV 1301** Choose 1 POLS 2305 **CMPE 1101**

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

Creative Arts Choose 1 Senior Design I Software **CMPE 4371** Computer Networks **CWPE 4345** Technical Elective

Operating Systems Software Engineering II

Senior Design II Software Technical Elective Choose 1 **CWPE 4334 CWPE 3341**

Microcontroller & Embedded Systems Lab Choose 1

CMPE 4372

Dr. Mark Yul Chu

Computer Engineering Program

Coordinator

Mark.chu@utrgv.edu

Ms. Leticia Ocanas

Computer Engineering Program

Administrative Associate

cmpe@utrgv.edu

leticia.ocanas@utrgv.edu

Engineering Building, EENGR 3.245 -

Contact Info

CWPE 4303

CWbE 4332

CWPE 3326

CWPE 4333

PHIL 2326

CWPE 3331

CWPE 3403

CWPE 3334

1488 HTAM

CWPE 2333

CMPE 3340

Chemistry for Engineers Lab or CHEM 1311 General Chemistry I

CHEW 1109

Electric Circuits I Lab

Electric Circuits I

CHEM 1111 General Chemistry I Lab

Physics for Scientists & Engineers II

Algorithms and Data Structures

Digital Systems Engineering I Lab

BLUEPRINT EXPERIENCES

	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR AND BEYOND
MILESTONES	it a point to visit them! Complete your core English classes (section 010) during your first year.	1 1101 CMDE 1270 CMDE 1170 MATH 2246 CMDE	 □ 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 3.0 or higher. □ "I have a plan for after graduation." If this describes you, great! If not, visit your Faculty Advisor or Career Center! □ Register for your senior design project: either CMPE 4371/CMPE 4372 or CMPE 4373/CMPE 4374. □ Complete at least 28 credit hours to graduate. □ Submit your application(s) for graduate school, an apprenticeship, or for fulltime employment.
ADVICE & SUPPORT	computer engineering advisor and bring your orientation folder with you to every session! Choose a major with confidence- Visit my.UTRGV.edu	MyMajors! Come ready with course suggestions and questions when you visit your academic advisor. Visit the Communication Hauser Lab for help with your speeches.	 □ 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 independent study project or an academic internship to complement your major, such as NASA, computer engineering REU program, etc. Discuss future plans with your faculty mentor or advisor that includes employment, finances, and other life goals. Apply for graduation one semester prior to your anticipated date. Visit the Academic Advising Center to ensure you are 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. □ 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 present research or creative works at the Engaged Scholar Symposium at the Engaged Scholar Symposium. □ Set up an informational interview with an individual (especially an alumnus) currently in the field you aspire to work in. □ Identify employers of interest and seek them out at job
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- 	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!	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-campus information sessions, staffing agencies, etc. The Career Center can help. Before a job interview, schedule a mock interview with the Career Center or speech coaching with the Communication Hauser Lab.
LIFE AFTER GRADUATION	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	 □ 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 your acceptance for graduate school or an employment offer? If not, network: talk to faculty, the Career Center, and get on LinkedIn. ☐ Formulate and implement a strategy for life after graduation: attend career fairs, graduate fairs, apply to fellowships, etc. ☐ Update your information with Alumni Relations. Enjoy alumni mixers, events and continued access to Career Center services! ☐ Remember to do your exit loan counseling on studentloans.gov.

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