C2CI 5380

Choose 1

Choose 1

Choose 1

**UNIV 1301** 

**C2CI 1170** 

C2CI 1320

C2CI 1101

Choose 1

II sulusis A144 | Calculus II

I sulusia Calculus I

completed with a grade 'C' or better. **Dr. Andres Figueroa** andres.figueroa@utrgv.edu Calculus I is a pre-requisite for many major courses. Always schedule Math **Departmental Office Location: ENGR. 3.295** first until you through Calculus I. Phone Number: 956-665-2320 Email: csci@utrgv.edu Website: http://www.utrgv.edu/csci/

**Undergraduate Program** 

emmett.tomai@utrgv.edu

**Director/Coordinator** 

**Department Chair Dr. Emmett Tomai** 

Computer Science II

Sciences (Core)

Life and Physical

American History (Core)

Communication (Core)

Engineering Computer

Engineering Computer

Communication (Core)

Computer Science

introduction to

Learning Framework

Science I Laboratory

# UTRio Grande Valley

**COMPUTER SCIENCE (BSCS)** 

**COLLEGE OF ENGINEERING AND** 

and the sample of the same

Catalog: 2017-18

**COMPUTER SCIENCE** 

Computer Science is the study of the structure, function and application of computers and is central to the rapidly expanding use of information technology. Computers have traditionally been used in business, engineering and scientific applications, and now applications are found in almost all human activities from art to zoology. Computer science is both an applied and theoretical discipline, supported by the principles of science, engineering, and mathematics that has a direct and

profound impact on the quality of life

and society at large.

Contact Info

C2CI 4390

SECOND YEAR

## **REAR TEAR**

Choose 1	Elective - Any Level
Choose 1	Sciences (Core)
Choocal	Social and Behavioral
Choose 1	American History (Core)
Choose 1	Advanced Elective
CSCI X3XX	CSCI Advanced Technical
Choose 1	Creative Arts
T 2000H2	Probability
1 9sood2	Support Courses -
Choose 1	Elective - Any Level
CSCI X3XX	CSCI Advanced Technical
	Computability
C2CI 4372	pue 'səßenßue <sub>7</sub>
	Automata, Formal
	Architecture
Choose 1	Systems and Computer
, 030043	Metworking, Operating

CS Electives - Databases,

**RABY HTRUOR** 

**Additional Info** 

Total credit hours for graduation are

advanced hours are 48. All Computer

except the Technical Electives must be

Science courses in the degree plan

125 (2018-2019 Catalog). Total

Senior Project

## **AA3Y GRIHT**

Advanced Elective

Algorithms and Data

Ethics, Technology and

Programming Languages

Organization of

Systems and Computer

Networking, Operating

CS Electives - Databases,

Software Engineering I

Technical Communication

C2CI 3339

Choose 1

C2CI 3340

ENGL 3342

Choose 1

**C2CI 3333** 

PHIL 2326

POLS 2386 (H) Politics or (H)

B182 Linear Algebra

POLS 2385 (H) & Politics or (H)

POLS 2306 or Texas Government &

Architecture

POLS 2305 or U.S. Federal Government

Structures

Society

# COMM 1315 Public Speaking

Smətsy2 latigiQ	CI C 2130
Digital Systems	EFEE 5330
Object Oriented Programming, Java or Visual Basic or Object Oriented Programming in C#	3327 or 3328
Basic Science (Support Course)	Choose 1
Mathematical Foundations of	C2CI 33T0
Systems Programming	C2CI 3334
noitezinega Organization and Assembly Language	CSCI 2333
Programming in Unix/ Linux Environment	CZCI 5344
Life and Physical Sciences	Choose 1

EFFE 5330

Engineering I Lab

Degree Info

Science

# BLUEPRINT EXPERIENCES

	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR AND BEYOND	
MILESTONES	<ul> <li>□ UTRGV has a Writing Center and a Learning Center. Make it a point to visit them!</li> <li>□ Complete your core English classes (section 010) during your first year.</li> <li>□ Complete 30 credit hours every year in order to graduate in 4 years.</li> <li>□ Shoot for a GPA of 3.5.</li> <li>□ Take MATH 2413 in your first year.</li> </ul>	:	☐ Shoot for a GPA of 3.5. ☐ Complete 30 credit hours. ☐ Have you landed an internship or acquired research experience? This is the year to make it happen.	Shoot for a GPA of 3.5.  "I have a plan for after graduation." If this describes you, great! If not, visit your Faculty Advisor or Career Center!  Register for your Capstone/senior/portfolio project: CSCI 4390  Complete at least 30 credit hours to graduate.  Submit your application(s) for graduate school, an apprenticeship, or for fulltime employment.	•
ADVICE & SUPPORT	<ul> <li>☐ Meet with your academic advisor and bring your orientation folder with you to every session!</li> <li>☐ Choose a major with confidence- Visit my.UTRGV.edu and check out the Kuder Journey.</li> <li>☐ Visit a faculty member during their office hours and ask a question about class.</li> <li>☐ Classes fill up fast. When registration opens, be sure to register on the first day for your group.</li> <li>☐ Cold or flu getting you down? We have Student Health Services on campus with free office visits.</li> </ul>	<ul> <li>□ Want to explore different careers? Check out Kuder Journey!</li> <li>□ Come ready with course suggestions and questions when you visit your academic advisor.</li> <li>□ Visit the Communication Hauser Lab for help with your speeches.</li> <li>□ Trouble making your tuition payment? The Financial Aid Office can help. Payment plans and emergency loans are also available</li> </ul>	<ul> <li>□ Seek out research opportunities within your major and join a professional organization such as ACM or IEEE.</li> <li>□ Check DegreeWorks to make sure you are on track for graduation next year.</li> <li>□ Apply for internship and/or job shadowing opportunities. Discuss this with your advisor, faculty mentor, or Career Center.</li> </ul>	<ul> <li>Engage in an independent study project or an academic internship to complement your major. Independent study follows from involvement with faculty research in and out of class. If you secure an internship, you can receive Technical Elective credit under CSCI 3300.</li> <li>Discuss future plans with your faculty mentor or advisor that includes employment, finances, and other life goals.</li> <li>Apply for graduation one semester prior to your anticipated date. Visit the Academic Advising Center to ensure you are on track.</li> </ul>	•
APPLY WHAT YOU LEARN	<ul> <li>□ Look for a service-learning course! For guidance, visit Engaged Scholarship &amp; Learning Office.</li> <li>□ Participate in a campus-sponsored community service project.</li> <li>□ Ask a student in class to study with you.</li> </ul>	☐ To find undergraduate research opportunities, visit the Engaged Scholarship & Learning Office and speak to your Professors about how to get involved.  ☐ 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 present research or creative works at the Engaged Scholar Symposium or at Computer Science Student Research Day (CSSRD).  ☐ Set up an informational interview with an individual (especially an alumnus) currently in the field you aspire to work in.	•
GLOBAL, CAMPUS & COMMUNITY ENGAGEMENT	•	<ul> <li>□ Check out a cultural campus or community event such as HESTEC or FESTIBA.</li> <li>□ Join another student organization. Perhaps Hack&amp;&amp;Make or visit VLink for options.</li> <li>□ Check out a campus event that offers free lunchbring a friend!</li> </ul>	☐ 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 interest and seek them out at job 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	<ul> <li>□ Create a résumé and set up your profile on the Career Connection icon: (My.UTRGV.edu).</li> <li>□ Got summer plans? Visit Career Center and ask about places to do some job shadowing.</li> <li>□ 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!</li> <li>□ Check your UTRGV email for the daily Messenger- locate and attend one student workshop.</li> </ul>	□ 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? You may be interested in applying Computer Science to Math, Biology, Economics, Education or any number of other domains.	<ul> <li>□ Check out the department website for postings on career/graduate school.</li> <li>□ Think about three people you can ask for letters of recommendation (professors, mentors, advisors, supervisors, etc.). Give them at least two weeks' advance notice!</li> <li>□ When is the deadline for your graduate school application? Visiting the program admissions webpage. Most do not accept late applicants!</li> </ul>	□ 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 de your exit loan counseling on	•

Explain to someone how your academic program

aligns with your strengths and interests.

### **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

Remember to do your exit loan counseling on

studentloans.gov.

• Bioinformatics

For additional info, visit the Career Center website and check out "What Can I Do With This Major?"

www.utrgv.edu/careercenter