UT PERMIAN BASIN™

Degree: Bachelor of Science
Program: Computer Science (Game and Simulation Track)
Degree Map | 2020 - 2024

	Your Class Schedule	Academic Advising	Enriching Experiences	Lifelong Success
Freshman	• Complete core courses recommended for your degree plan • Focus on English, History, Math, and Computer Science courses • Enroll in 16 credit hours Fall and 17 credit hours in Spring semesters • Pass all your prerequisite classes with a C or better	• Participate in New Student Orientation • Meet with your Academic Advising Center Freshman Advisor before registration • Plan the class schedule and register for classes • Register for classes as soon as possible	***Prioritize Your Wellness*** • Participate in campus recreation • Attend Financial Literacy seminars • Form healthy study habits ***Build Your Community*** • Use FalconLink & attend Club Day • Volunteer • Attend campus events ***Explore Your World*** • Attend an athletics event, musical performance, or visit the art gallery	***Build Your Brand*** • Draft your resume • Register for the Job Board ***Craft Your Future*** • Explore career options • Have coffee with a faculty member • Be an active participate in Directed Observations
Sophomore	• Complete core courses recommended for your degree plan • Focus on Political Science, Math, Science with lab and Computer Science courses • Enroll in 15 credit hours Fall and 17 credit hours Spring semester • Pass all your prerequisite classes with a C or better.	• Meet with your Academic Advising Center Advisor before registration • Plan class schedule and register for classes • Register for classes as soon as possible	***Prioritize Your Wellness*** • Enjoy outdoor spaces on campus ***Build Your Community*** • Join an organization • Explore campus leadership (SGA, Orientation Leader, Resident Asst.) • Seek to attend professional meetings and seminars ***Explore Your World*** • Consider study abroad • Attend a lecture series	***Build Your Brand*** • Update your resume • Join LinkedIn • Consider student employment ***Craft Your Future*** • Participate in mock interviews • Attend an internship/career fair • Be an active participant in clinical practicum courses
Junior	• Focus on Math and Computer Science courses • Enroll in 16 credit hours Fall and 15 credit hours Spring semester • Pass all your computer science classes with C or better	• Meet with your Computer Science Academic Advisor before registration • Plan the class schedule and register for classes • Register for classes as soon as possible • Discuss your graduation plan with the CS Academic Advisor	***Prioritize Your Wellness*** • Attend a health fair ***Build Your Community*** • Run for organization officer role • Apply to be a Falcon Ambassador • Seek to attend professional meetings and seminars ***Explore Your World*** • Consider study abroad • Participate in service learning	***Build Your Brand*** • Update your resume • Conduct research with faculty ***Craft Your Future*** • Search for internships or fellowships • Be an active participant in clinical practicum courses
Senior	• Focus on Computer Science and minor courses • Enroll in 12 credit hours Fall and 12 credit hours Spring semester	• Meet with your Computer Science Academic Advisor before registration • Plan the class schedule and register for classes • Apply for graduation and inform the CS faculty advisor to complete the degree check form	***Prioritize Your Wellness*** • Attend financial literacy seminars ***Build Your Community*** • Attend your ring ceremony • Join Alumni Association upon graduation • Seek to attend professional meetings and seminars ***Explore Your World*** • Ask your clinical preceptor about opportunities to view surgery	***Build Your Brand*** • Update your resume • Present research ***Craft Your Future*** • Participate in an internship or fellowship • Be an active participant in clinical practicum courses • Apply for jobs

Skills Learned Upon Graduation

• **Leadership** • **Problem-solving** • **Communication**
• **Critical Thinking** • **Collaboration** • **Confidence**
• **Global Awareness** • **Teamwork** • **Volunteering**

Career Opportunities

• **Mobile Game Developer** • **Game & Animation Designer**
• **Game Programmer** • **Game Test Analyst**
• **Games and Simulation Expert** • **Educator**

College of Engineering and Science | Dean's Office – ST 1226 | 432-552-2220 |
https://www.utpb.edu/academics/programs/computer-science/bs-computer-science

Education Requirements

Semester 1	Semester 2
ENGL 1301 – Composition I (3 sch) HIST 1301 – History of the US to 1877 (3 sch) MATH 2412 – Precalculus (4 sch) Creative Arts (3 credits) UNIV 1301 – Honors Freshman Seminar I (3 sch) 16 HOURS	ENGL 1302 – Composition II (3 sch) HIST 1302 – History of the US since 1877 (3 sch) MATH 2413 – Calculus I (4 sch) Social and Behavior Science (3 sch) COSC 1430 – Intro to Comp. Sci I (4 sch) 17 HOURS
Semester 3	Semester 4
PLSC 2305 – American National politics (3 sch) COSC 2430 – Intro to Comp. Sci II (4 sch) MATH 2414 – Calculus II (4 sch) Science with Lab (3+1 sch) 15 HOURS	PLSC 2306 – State and Local politics (3 sch) COSC 2420 – C programming (4 sch) COSC 3312 – Discrete Mathematics (3 sch) Science with Lab (3+1 sch) COMM 1315 – Intro to public speaking (3 sch) 17 HOURS
Semester 5	Semester 6
MATH 3301 – Introduction to Probability I (3 sch) COSC 3310 – Computer Organization (3 sch) COSC 3315 – Info. Systems and Security (3 sch) COSC 3420 – Data Structures (4 sch) MATH 3305 – Math Reasoning (3 sch) 16 HOURS	ARTS 2348 – Digital Arts (3 sch) ARTS 2358 – Graphic Art: Typography (3 sch) COSC 4361 – Game Design and Production (3 sch) Minor or Electives (3 sch – Upper Level) Minor or Electives (3 sch – Upper Level) 15 HOURS
Semester 7	Semester 8
ARTS 3358 – Digital Illustration (3sch) COSC 4362 – Augmented and Virtual Reality (3 sch) NTSC 4311 – History and Philosophy of Science (3 sch) Minor or Electives (3 sch – Upper Level) 12 HOURS	COSC 4395 – Research (3 sch) COSC 4490 – Introduction to Game Development (4 sch) Minor or Electives (2 or 3 sch – Upper Level) Minor or Electives (3 sch – Upper Level) 12 HOURS

- **Complete a total of at least 120 credit hours**
- **Complete the general education requirements**
- **Complete 48 hours at the junior/senior level, of which 30 must be at UTPB**
- **Obtain at least a C grade in ALL MAJOR courses**
- **Complete the department requirements**
- **Complete the minor requirements**