UT Permian Basin™

Bachelor of Science in Computer Science
- **Software Development Track**
COLLEGE OF Arts and Sciences
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 14 credit hours Fall and 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	***Prioritize Your Wellness*** • Participate in campus recreation • Attend Financial Literacy seminars • Form healthy study habits ***Build Your Community*** • Use FalconLink & attend Club Day • Volunteer at regional science fair • 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 • Practice problem solving approaches • Explore & utilize Computer Science research labs • Have coffee with a faculty member
Sophomore	• Complete core courses recommended for your degree plan • Focus on Political Science, Math, Science with lab and Computer Science courses • Enroll in 18 credit hours Fall and 16 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 (ex: ACM club) • Explore campus leadership (SGA, Orientation Leader, Resident Asst.) ***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 • Work on a project development team • Attend an internship/career fair • Research local part-time job • opportunities in area of interest
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 • Register for classes as soon as possible	***Prioritize Your Wellness*** • Attend a health fair ***Build Your Community*** • Run for organization officer role • Apply to be a Falcon Ambassador ***Explore Your World*** • Consider study abroad • Participate in service learning	***Build Your Brand*** • Update your resume • Conduct research with faculty • Study advanced topics of software development in computer science and work on software development related projects ***Craft Your Future*** • Research local internships o& part-time job opportunities in area of software development
Senior	• Focus on Computer Science and minor courses • Enroll in 15 credit hours Fall and 12 credit hours Spring semester	• Meet with your Computer Science Academic Advisor before registration • Apply for graduation	***Prioritize Your Wellness*** • Attend financial literacy seminars ***Build Your Community*** • Attend your ring ceremony • Join Alumni Association upon graduation ***Explore Your World*** • Consider study abroad (summer prior to senior year)	***Build Your Brand*** • Update your resume & project portfolio • Present research • Strengthen your ability to work on real life projects • Apply what you have learned to develop advanced projects ***Craft Your Future*** • Participate in an internship or fellowship • Apply for jobs

UTPB students will graduate with these skills:

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

Career opportunities:

- Software developer
- Java application developer
- Embedded Software developer
- Front End developer

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Bachelor of Science in Computer Science REQUIREMENTS (Software Development Track)

Semester 1
ENGL 1301
HIST 1301
COSC 1430
MATH 2412
1101 UNIV

15 hours

Semester 2
ENGL 1302
HIST 1302
COSC 2430
MATH 2413

14 hours

Semester 3
PLSC 2305
COSC 2420
MATH 2414
Science with Lab (4 credits)
Creative Arts (3 credits)

18 hours

Semester 4
PLSC 2306
COSC 3310
COSC 3315
Science with Lab (4 credits)
COMM 1315

16 hours

Semester 5
MATH 3301
COSC 3312
COSC 3420
ENGL 2300 Level Literature Survey English
Social and Behavior Science (3 credits)

16 hours

Semester 6
MATH 3305
COSC 4415 Database Systems
COSC 4455 Multimedia and Web Development
Minor or Electives

14 hours

Semester 7
COSC 4460 Software Engineering
COSC 4485 Mobile Application Development
COSC 4311 NTSC (Capstone)
Minor or Electives
14 hours

Semester 8
COSC 4395 Computer Science (Research)
Minor or Electives
Minor or Electives
Minor or Electives
13 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**
- **Complete the department requirements**
- **Complete the minor requirements**