

	<b>Your Class Schedule</b>	<b>Academic Advising</b>	<b>Enriching Experiences</b>	<b>Lifelong Success</b>
<b>Freshman</b>	<ul style="list-style-type: none"> <li>• Complete core courses recommended for your degree plan</li> <li>• Focus on English, History, Math, and Computer Science courses</li> <li>• Enroll in 16 credit hours Fall and 17 credit hours in Spring semesters</li> <li>• Pass all your prerequisite classes with a C or better</li> </ul>	<ul style="list-style-type: none"> <li>• Participate in New Student Orientation</li> <li>• Meet with your Academic Advising Center Freshman Advisor before registration</li> <li>• Plan the class schedule and register for classes</li> <li>• Register for classes as soon as possible</li> </ul>	<p><b>Prioritize Your Wellness</b></p> <ul style="list-style-type: none"> <li>• Participate in campus recreation</li> <li>• Attend Financial Literacy seminars</li> <li>• Form healthy study habits</li> </ul> <p><b>Build Your Community</b></p> <ul style="list-style-type: none"> <li>• Use FalconLink &amp; attend Club Day</li> <li>• Volunteer</li> <li>• Attend campus events</li> </ul> <p><b>Explore Your World</b></p> <ul style="list-style-type: none"> <li>• Attend an athletics event, musical performance, or visit the art gallery</li> </ul>	<p><b>Build Your Brand</b></p> <ul style="list-style-type: none"> <li>• Draft your resume</li> <li>• Register for the Job Board</li> </ul> <p><b>Craft Your Future</b></p> <ul style="list-style-type: none"> <li>• Explore career options</li> <li>• Have coffee with a faculty member</li> <li>• Be an active participant in Directed Observations</li> </ul>
<b>Sophomore</b>	<ul style="list-style-type: none"> <li>• Complete core courses recommended for your degree plan</li> <li>• Focus on Political Science, Math, Science with lab and Computer Science courses</li> <li>• Enroll in 15 credit hours Fall and 17 credit hours Spring semester</li> <li>• Pass all your prerequisite classes with a C or better.</li> </ul>	<ul style="list-style-type: none"> <li>• Meet with your Academic Advising Center Advisor before registration</li> <li>• Plan class schedule and register for classes</li> <li>• Register for classes as soon as possible</li> </ul>	<p><b>Prioritize Your Wellness</b></p> <ul style="list-style-type: none"> <li>• Enjoy outdoor spaces on campus</li> </ul> <p><b>Build Your Community</b></p> <ul style="list-style-type: none"> <li>• Join an organization</li> <li>• Explore campus leadership (SGA, Orientation Leader, Resident Asst.)</li> <li>• Seek to attend professional meetings and seminars</li> </ul> <p><b>Explore Your World</b></p> <ul style="list-style-type: none"> <li>• Consider study abroad</li> <li>• Attend a lecture series</li> </ul>	<p><b>Build Your Brand</b></p> <ul style="list-style-type: none"> <li>• Update your resume</li> <li>• Join LinkedIn</li> <li>• Consider student employment</li> </ul> <p><b>Craft Your Future</b></p> <ul style="list-style-type: none"> <li>• Participate in mock interviews</li> <li>• Attend an internship/career fair</li> <li>• Be an active participant in clinical practicum courses</li> </ul>
<b>Junior</b>	<ul style="list-style-type: none"> <li>• Focus on Math and Computer Science courses</li> <li>• Enroll in 16 credit hours Fall and 13 credit hours Spring semester</li> <li>• Pass all your computer science classes with C or better</li> </ul>	<ul style="list-style-type: none"> <li>• Meet with your Computer Science Academic Advisor before registration</li> <li>• Plan the class schedule and register for classes</li> <li>• Register for classes as soon as possible</li> <li>• Discuss your graduation plan with the CS Academic Advisor</li> </ul>	<p><b>Prioritize Your Wellness</b></p> <ul style="list-style-type: none"> <li>• Attend a health fair</li> </ul> <p><b>Build Your Community</b></p> <ul style="list-style-type: none"> <li>• Run for organization officer role</li> <li>• Apply to be a Falcon Ambassador</li> <li>• Seek to attend professional meetings and seminars</li> </ul> <p><b>Explore Your World</b></p> <ul style="list-style-type: none"> <li>• Consider study abroad</li> <li>• Participate in service learning</li> </ul>	<p><b>Build Your Brand</b></p> <ul style="list-style-type: none"> <li>• Update your resume</li> <li>• Conduct research with faculty</li> </ul> <p><b>Craft Your Future</b></p> <ul style="list-style-type: none"> <li>• Search for internships or fellowships</li> <li>• Be an active participant in clinical practicum courses</li> </ul>
<b>Senior</b>	<ul style="list-style-type: none"> <li>• Focus on Computer Science and minor courses</li> <li>• Enroll in 14 credit hours Fall and 12 credit hours Spring semester</li> </ul>	<ul style="list-style-type: none"> <li>• Meet with your Computer Science Academic Advisor before registration</li> <li>• Plan the class schedule and register for classes</li> <li>• Apply for graduation and inform the CS faculty advisor to complete the degree check form</li> </ul>	<p><b>Prioritize Your Wellness</b></p> <ul style="list-style-type: none"> <li>• Attend financial literacy seminars</li> </ul> <p><b>Build Your Community</b></p> <ul style="list-style-type: none"> <li>• Attend your ring ceremony</li> <li>• Join Alumni Association upon graduation</li> <li>• Seek to attend professional meetings and seminars</li> </ul> <p><b>Explore Your World</b></p> <ul style="list-style-type: none"> <li>• Ask your clinical preceptor about opportunities to view surgery</li> </ul>	<p><b>Build Your Brand</b></p> <ul style="list-style-type: none"> <li>• Update your resume</li> <li>• Present research</li> </ul> <p><b>Craft Your Future</b></p> <ul style="list-style-type: none"> <li>• Participate in an internship or fellowship</li> <li>• Be an active participant in clinical practicum courses</li> <li>• Apply for jobs</li> </ul>

#### **Skills Learned Upon Graduation**

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

#### **Career Opportunities**

- Software Developer • Java application developer
- Embedded Software developer • Educator
- Front End Developer



**Degree: Bachelor of Science**  
**Program: Computer Science (Software Development Track)**  
**Degree Map | 2020 – 2024**

## 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) <div>16 HOURS</div>	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) <div>17 HOURS</div>
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) <div>15 HOURS</div>	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) <div>17 HOURS</div>
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) <div>16 HOURS</div>	COSC 4415 – Database Systems (4 sch) COSC 4460 – Software Engineering (4 sch) Minor or Electives (2 or 3 sch) Minor or Electives (3 sch – Upper Level) <div>13 HOURS</div>
Semester 7	Semester 8
COSC 4455 – Multimedia & Web Develop. (4 sch) COSC 4485 – Mobile App Development (4 sch) NTSC 4311 – History and Philosophy of Science (3 sch) Minor or Electives (3 sch – Upper Level) <div>14 HOURS</div>	COSC 4395 – Research (3 sch) Minor or Electives (3 sch – Upper Level) Minor or Electives (3 sch – Upper Level) Minor or Electives (3 sch – Upper Level) <div>12 HOURS</div>

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

- 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