

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

- Information Security Manager • Information Security Manager
- Network Security Engineer • Educator
- Application Security Engineer



Degree: Bachelor of Science
Program: Computer Science (Cyber Security 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 4370 – Data Communications (3 sch) COSC 4375 – Intro to Computer Security (3 sch) Minor or Electives (2 or 3 sch) Minor or Electives (3 sch – Upper Level) Minor or Electives (3 sch – Upper Level) <div>14 HOURS</div>
Semester 7	Semester 8
COSC 4380 – Cryptography (3 sch) COSC 4470 – Applied Network Security (4 sch) NTSC 4311 – History and Philosophy of Science (3 sch) Minor or Electives (3 sch – Upper Level) <div>13 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>

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<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