



Bachelor of Science in Computer Science
- Cyber Security Track

College of Arts and Sciences

Degree Map | 2020-2021

	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 14 credit hours Fall and 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 	<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 at regional science fair 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 Practice problem solving approaches Explore & utilize Computer Science research labs Have coffee with a faculty member
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 18 credit hours Fall and 16 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 (ex: ACM club) Explore campus leadership (SGA, Orientation Leader, Resident Asst.) <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 Work on a project development team Attend an internship/career fair Research local part-time job opportunities in area of interest
Junior	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Meet with your Computer Science Academic Advisor before registration Register for classes as soon as possible 	<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 <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 Study advanced topics of cyber security in computer science and work on cyber security related computer projects <p>Craft Your Future</p> <ul style="list-style-type: none"> Research local internships o& part-time job opportunities in area of cyber security
Senior	<ul style="list-style-type: none"> Focus on Computer Science and minor courses Enroll in 15 credit hours Fall and 12 credit hours Spring semester 	<ul style="list-style-type: none"> Meet with your Computer Science Academic Advisor before registration Apply for graduation 	<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 <p>Explore Your World</p> <ul style="list-style-type: none"> Consider study abroad (summer prior to senior year) 	<p>Build Your Brand</p> <ul style="list-style-type: none"> 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 <p>Craft Your Future</p> <ul style="list-style-type: none"> 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:

- Information Security Manager
- Cybersecurity Engineer
- Network Security Engineer
- Application Security Engineer



Bachelor of Science in Computer Science REQUIREMENTS (Cyber Security Track)

Semester 1

ENGL 1301
HIST 1301
COSC 1430
MATH 2412
UNIV 1101

15 hours

Semester 2

ENGL 1302
HIST 1302
COSC 2430
MATH 2413

14 hours

Semester 3

PLSC 2305
COSC 2420
MATH 2414 Math
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 Elective
Social and Behavior Science (3 credits)

16 hours

Semester 6

MATH 3305
COSC 4370
COSC 4375
Minor or Electives
Minor or Electives

15 hours

Semester 7

COSC 4380
COSC 4470
COSC 4311 (Capstone)
Minor or Electives

13 hours

Semester 8

COSC 4395 (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