



	YOUR CLASS SCHEDULE	ACADEMIC ADVISING	ENRICHING EXPERIENCES	LIFELONG SUCCESS
FRESHMAN	<ul style="list-style-type: none"> Register to take classes in this order: UNIV 1301, Foundations of Engineering; MATH 1411; PHYS 2420; then Computer Science and core curriculum. 	<ul style="list-style-type: none"> Meet your PREE Advisor and attend the Intro Compliance session during orientation. Declare your Computer Science major once you register for MATH 1411 (Calculus I) or higher. Consult the Computer Science Advising Sheet. 	<ul style="list-style-type: none"> Explore student organizations at Gold Rush. Experience a new culture with a student exchange program. Network with peers and organize a study group at the ASCE office. Cultivate leadership and teamwork skills at TCM Day. 	<ul style="list-style-type: none"> Discover ACES tutoring resources. Explore career opportunities at the Career Expo and the Engineering & Science Expo.
SOPHOMORE	<ul style="list-style-type: none"> Take CS 2302 and CS 2401; CE 2326, Economics for Engineers and Scientists; and PHYS 2421, if not already completed. Examine the critical path flow chart. 	<ul style="list-style-type: none"> Meet with your PREE Advisor before registration. Discuss your degree plan with your PREE Advisor. Ask your PREE advisor about the Rising Junior Exam. 	<ul style="list-style-type: none"> Join The Association of Computing Machinery. Explore professional engagement opportunities with SWE and MAES/SHPE. Discover community involvement opportunities in your field with the Center for Civic Engagement. Strive for high grades to be eligible for induction into Upsilon Pi Epsilon, the Computer Science Honor Society. 	<ul style="list-style-type: none"> Visit the Career Center Satellite to develop a resume and investigate employment opportunities. Cultivate healthy lifestyle habits by visiting the Student Recreation Center.
JUNIOR	<ul style="list-style-type: none"> Focus on your upper division Computer Science classes. Examine the critical path flow chart. 	<ul style="list-style-type: none"> Meet with your Computer Science advisor before registration. Discuss your degree plan with your advisor. Ask about internship opportunities and about preparing for the Fundamentals of Engineering Exam (FE). Consult the CE Advising Sheet. 	<ul style="list-style-type: none"> Explore unique faculty-led travel opportunities with Engineering Global Programs. Participate in a technical competition such as Steel Bridge, Concrete Canoe, or Mini Baja. Cultivate global awareness at events sponsored by the Office of International Programs. 	<ul style="list-style-type: none"> Ask a Peer Career Advisor about internship opportunities. Revisit the Career Expo and the Engineering & Science Expo. Explore graduate programs in Engineering.
SENIOR	<ul style="list-style-type: none"> Complete your major requirements and any remaining electives. 	<ul style="list-style-type: none"> Meet with your Computer Science advisor before registration. Review your graduation audit with the Graduation Coordinator. 	<ul style="list-style-type: none"> Cultivate a leadership role with your student organization. Expand your community engagement efforts by joining the Ninjaneer Service Learning Program. Explore research opportunities with COURI. 	<ul style="list-style-type: none"> Take the Fundamentals of Engineering (FE) Exam. Visit the Career Center Satellite. Apply for graduate school or explore career opportunities.

UPDATED 06/29/2018

EDGE ADVANTAGES:

- Leadership
- Problem-solving
- Communication
- Entrepreneurship
- Social Responsibility
- Confidence
- Global Awareness
- Teamwork
- Critical Thinking

CAREER POSSIBILITIES:

- Software Developer
- Database Administrator
- Hardware Engineer
- Systems Manager
- Network Administrator
- Web Developer
- Security Analyst
- Computer Programmer
- Software Engineer
- IT Architect



Bachelor of Science in
COMPUTER SCIENCE
MAJOR MAP CHECKLIST | 2019-2020



Last Name _____

First Name _____ M.I. _____

Expires: 08/01/2024

UTEP ID _____

NOTE: Overall GPA ≥ 2.0 AND In-Major GPA ≥ 2.0 REQUIRED for graduation

A Core Curriculum (45 SCH) (minimum of "C" grade required)		Semester Completed	Final Grade	SCH	Sub #
1 Communication (6 credit hours required)					
RWS 1301*	Rhetoric and Composition I				
RWS 1302*	Rhetoric and Composition II				
2 Mathematics (4)					
MATH 1411*	Calculus I				
3 Life and Physical Sciences (8) **** Select and circle one					
BIOL 1305* + 1107*, CHEM 1305* + 1105*, GEOL 1313* + 1103*, PHYS 2420*					
BIOL 1306* + 1108*, CHEM 1306* + 1106*					
GEOL 1314* + 1104*, PHYS 2421*					
4 Language, Philosophy, and Culture (3) Select and circle one					
ENGL 2311*, 2312*, 2313*, 2314*, 2318*, FREN 2322*, HIST 2301*, 2302*, PHIL 1301*, 2306*, RS 1301*, SPAN 2340*, WS 2300*, 2350*					
5 Creative Arts (3) Select and circle one					
ART 1300*, ARTH 1305*, 1306*, DANC 1304*, FILM 1390*, MUSL 1321*, 1324*, 1327*, THEA 1313*					
6 American History (6)					
HIST 1301*	History of the U.S. to 1865				
HIST 1302*	History of the U.S. since 1865				
7 Government/Political Science (6) -- all 6 SCH must be completed at the same institution					
POLS 2310*	Introduction to Politics				
POLS 2311*	American Govt. & Politics				
8 Social and Behavioral Sciences (3) Select and circle one					
ANTH 1301*, 1302*, 1310*, 2320*, COMM 2350*, 2372*, ECON 2303*, 2304*, EDPC 1301*, EDU 1342*, ENGL 2320*, GEOG 1310*, LING 2320*, PSYC 1301*, SOC 1301*, 1310*, CE 2326*					
9 Component Area Option (6) Take UNIV 1301 and choose one of the second option:					
UNIV 1301*	Foundations of Engineering				
CS 1310* ^a , BUSN 1301*, COMM 1301*, 1302*, CS 1320*, SCI 1301*					

B Foundational Math & Science (15 SCH)		Semester Completed	Final Grade	SCH	Sub #
MATH 1312*	Calculus II				
MATH 2300*	Discrete Mathematics				
MATH 3323*	Matrix Algebra				
MATH 4329	Numerical Analysis				
STAT 3320	Probab & Stat for Comp Sci				

SUBSTITUTIONS**				
#	Course on degree plan to substitute	Institution where course was taken	Name of Course as it appears on UTEP Transcript	Course as it appears on UTEP Transcript
1				
2				
3				
4				

C Major: Required Lower Division Courses (15 SCH)		Semester Completed	Final Grade	SCH	Sub #
CS 1301*	Introduction to Computer Science				
CS 1101*	Introduction to Computer Science Lab				
CS 2401*	Elementary Data Structures and Algorithms				
CS 2302*	Data Structures				
EE 2369*	Digital Systems Design I				
EE 2169*	Digital Systems Design I Lab				
D Major: Required Upper Division Courses (23 SCH)		Completed	Grade	SCH	Sub #
CS 3195	Junior Professional Orientation				
CS 3331*	Advanced Object-Oriented Programming				
CS 3350	Automata, Computability, and Formal Languages				
CS 3360	Design and Implementation of Prog. Languages				
CS 3432 ^b	Computer Architecture I: Basic Comp. Org. & Design				
CS 4310*	Software Engineering: Requirements Engineering				
CS 4311	Software Engineering: Design and Implementation				
CS 4375	Theory of Operating Systems				
E Technical Electives (15 SCH)***		Completed	Grade	SCH	Sub #
F Lab Science Elective (4 SCH)****		Completed	Grade	SCH	Sub #
Circle the one you chose:					
ASTR 1307+1107, BIOL 1305+1107, CHEM 1305+1105, GEOL 1313+1103, PHYS 2420, 2421					
G Free Elective (3 SCH) -- any college-level courses offered by the colleges of Liberal Arts, Business, Science, or Engineering		Completed	Grade	SCH	Sub #

- NOTES:**
a -- If no previous computer experience.
b -- EE 4379 allowed to count as equivalent.

- * C or better required
** Official substitution form available at <http://engineering.utep.edu/plaza/Academic Forms/index.html>
*** CS 3320, CS 3370, or any CS 4000 level course. No more than six credit hours of CS 4390, CS 4371, CS 4373, and/or CS 4392 (in any combination) can count for technical electives.
**** Students must complete either PHYS 2420 or PHYS 2421 (in the Quantitative Science Sequence or the Lab Science Elective). A C or better is not required to satisfy the Lab Science Elective.
Credit for a course may not be applied to both the Quantitative Science Sequence and the Lab Science Elective requirements.

BSCS Total Hours 120

APPROVALS:	
ADVISOR _____	DATE _____
CHAIR _____	DATE _____

Rev. 06-26-2017