

# Bachelor of Science – Computer Science Degree Plan (checklist)

2019

Catalog: 2018-19  
Expires: 08/01/2025

Last Name \_\_\_\_\_

First Name \_\_\_\_\_ M.I. \_\_\_\_\_

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 #
<b>1 Communication (6 credit hours required)</b>					
RWS 1301*	Rhetoric and Composition I				
RWS 1302*	Rhetoric and Composition II				
<b>2 Mathematics (4)</b>					
MATH 1411*	Calculus I				
<b>3 Life and Physical Sciences (8) ****</b> 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*					
<b>4 Language, Philosophy, and Culture (3)</b> 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*					
<b>5 Creative Arts (3)</b> Select and circle one					
ART 1300*, ARTH 1305*, 1306*, DANC 1304*, FILM 1390*, MUSL 1321*, 1324*, 1327*, THEA 1313*					
<b>6 American History (6)</b>					
HIST 1301*	History of the U.S. to 1865				
HIST 1302*	History of the U.S. since 1865				
<b>7 Government/Political Science (6) -- all 6 SCH must be completed at the same institution</b>					
POLS 2310*	Introduction to Politics				
POLS 2311*	American Govt. & Politics				
<b>8 Social and Behavioral Sciences (3)</b> 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*					
<b>9 Component Area Option (6)</b> Take UNIV 1301 and choose one of the second option:					
UNIV 1301*	Foundations of Engineering				
CS 1310* <sup>a</sup> , 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 <sup>b</sup>	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/AcademicForms/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.

<b>BSCS Total Hours</b>	<b>120</b>
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APPROVALS:	
ADVISOR	DATE
CHAIR	DATE