



**Bachelor of Science  
2018-2019 Sample 4-Year Plan**

**Taylor's University**

**Major: Computer Science  
Total Degree Requirements: 120 credits**

Students are not limited to this plan; it is meant to be used as a guide for planning purposes in consultation with your advisor. The sample schedule is one possible path to completing your degree within four years. For official program requirements, please refer to the [Undergraduate Catalog](#).

**First Year**

**Fall**

Prefix + Number	Course Title	Prerequisites/Comments	College	Course	Credits
CSC 101L	Introduction to Computer Science Lab		SDSU	F	1
CSC 150	Computer Science I	p. MATH 102 or higher	Taylor's	CSCI 102	3
ENGL 101	Composition I (SGR #1)	p. Placement	Taylor's	ENGL 101	3
GE 101	Introduction to Eng and Tech. Professions		Taylor's	ENGR 196	1
MATH 123	Calculus I (SGR #5)	p. Placement	Taylor's	MATH 171	4
SGR #4	Arts & Humanities/Diversity (SGR #4)	See Notes	Taylor's		3
<b>Total Credit Hours</b>					15

**Spring**

Prefix + Number	Course Title	Prerequisites/Comments	College	Course	Credits
CSC 250	Computer Science II	p. CSC 150 (>= C)	Taylor's	CSCI 116	3
ENGL 277	Technical Writing in Engineering	p. ENGL 101, GE 101	Taylor's	ENGL 102	3
INFO 102	Social & Ethical Aspects of Informatics (SGR #3)		SDSU	S	3
MATH 125	Calculus II	p. MATH 123	Taylor's	MATH 172	4
SPCM 101	Fundamentals of Speech (SGR #2)		Taylor's	SPCH 105	3
<b>Total Credit Hours</b>					16

**Second Year**

**Fall**

Prefix + Number	Course Title	Prerequisites/Comments	College	Course	Credits
CSC 244	Digital Logic	p. CSC 150 (>=C)	SDSU	F	3
CSC 244L	Digital Logic Lab	p. CSC 150 (>=C)	SDSU	F	1
CSC 300	Data Structures	p. CSC 250 (>= C)	SDSU		3
CSC 314	Assembly Language	p. CSC 250 (>= C)	SDSU	F	3
MATH 250	Math for Computer Science	p. MATH 123	SDSU		3
SGR #6	Natural Science Sequence (SGR #6)	CHEM 112, PHYS 111 OR PHYS 211	Taylor's	CHEM 105 or PHYS 211 w/lab	4
<b>Total Credit Hours</b>					17

**Spring**

Prefix + Number	Course Title	Prerequisites/Comments	College	Course	Credits
CSC 303	Ethical and Security Issues in Computer Science		SDSU	S	3
CSC 317	Computer Org and Arch	p. CSC 314 (requires grade >= C)	Taylor's	CSCI 223	3
CSC 346	Object Oriented Programming	p. CSC 300 (requires grade >= C)	Taylor's	CSCI 221	3
MATH 316	Discrete Math	p. MATH 250	Taylor's	Math 208	3
SGR #6	Natural Science Sequence (SGR #6)	CHEM 114, PHYS 113 OR PHYS 213	Taylor's	CHEM 106 or PHYS 212 w/lab	4
<b>Total Credit Hours</b>					16

**Third Year**

**Fall**

Prefix + Number	Course Title	Prerequisites/Comments	College	Course	Credits
CSC 354	Systems Programming	p. CSC 300, CSC 314, (>= C)	SDSU	F	3
Natural Science	Choose one of the following:	BIOL 151	Taylor's	BIOL 160 w/lab	4

**Information Subject to Change. This is not a contract.**

p. = Course Prerequisite  
Semester: F = Fall, S = Spring, SU = Summer



Prefix + Number	Course Title	Prerequisites/Comments	College	Course	Credits
SE 305	Found. Of Software Engineering	p. CSC 300, ( >= C)	SDSU	F	3
SGR #3	Social Sciences/Diversity (SGR #3)	See Notes	Taylor		3
STAT 281	Statistical Methods I	p. MATH 102 or higher	Taylor	STAT 230	3
<b>Total Credit Hours</b>					16

**Spring**

Prefix + Number	Course Title	Prerequisites/Comments	College	Course	Credits
CSC 461	Programming Language	p. CSC 300, ( >= C)	SDSU	S	3
CSC 484	Database Management	p. CSC 300, ( >= C)	SDSU	S	3
MATH 374	Scientific Computation I	p. CSC 150, MATH 125, CO-MATH 215	SDSU		3
SE 306	Software Project Management & Testing	p. SE 305, ( >= C)	SDSU	S	3
<b>Total Credit Hours</b>					12

**Fourth Year**

**Fall**

Prefix + Number	Course Title	Prerequisites/Comments	College	Course	Credits
CSC 445	Intro to Theory of Computation	p. CSC 250 ( >= C), MATH 250, MATH 316	SDSU	F	3
CSC 456	Operating Systems	p. CSC 300, CSC 314, ( >= C)	SDSU	F	3
CSC 464	Senior Design I	p. SE 306, ( >= C)	SDSU	F	2
CSC ELEC	CSC ELECTIVE OPTION	FROM CSC ELECTIVES, (requires grade >= C)	SDSU		3
CSC ELEC	CSC ELECTIVE OPTION	FROM CSC ELECTIVES, (requires grade >= C)	SDSU		3
<b>Total Credit Hours</b>					14

**Spring**

Prefix + Number	Course Title	Prerequisites/Comments	College	Course	Credits
CSC 446	Compiler Construction	p. CSC 300, CSC 445, ( >= C)	SDSU	S	3
CSC 465	Senior Design II	p. CSC 464 ( >= C)	SDSU	S	2
CSC ELEC	CSC ELECTIVE OPTION	FROM CSC ELECTIVES, (requires grade >= C)	SDSU		3
CSC ELEC	CSC ELECTIVE OPTION	FROM CSC ELECTIVES, (requires grade >= C)	SDSU		3
SGR #4	Arts & Humanities/Diversity (SGR #4)	See Notes	Taylor		3
<b>Total Credit Hours</b>					14

**Comments/Notes**

Students from all academic majors can pursue graduation with Fishback Honors College distinction. View the [Honors program requirements](#).

A grade of “C” or above is required in all Computer Science and Software Engineering courses.

Taylor – 57      SDSU Credits – 63

**System General Requirement #6      Natural Sciences**

Student must take a two course natural science sequence with a laboratory, plus one additional science. Choose from:

- a. CHEM 105 with lab and CHEM 106 with lab, or
- b. PHYS 211 with lab and PHYS 212 with lab

Additionally, student will also need to take BIOL 160 with Lab



General Education Requirements for the System General Education Requirement 3 & 4:

**System General Requirement #3      Social Sciences/Diversity      Six Credits Required**

Choose two classes (six credits) from the classes below and the classes must be from different departments. Choose any two Taylors classes from the list below:

- ECON 202 (Microeconomics) or ECON 203 (Macroeconomics)
- HIST 105 (US History to 1877) or HIST 106 (US History since 1877)
- POLS 101 (American Government)
- PSYC 101 (General Psychology)
- SOC 101 (Sociology I) or SOC 102 (Sociology II)

**System General Requirement #4      Arts & Humanity/Diversity      Six Credits Required**

Choose two classes (six credits) from the classes below and the classes must be from different departments (unless two French or Spanish classes are taken). Choose any two Taylors classes from the list below:

- ENGL 202 (Literary Appreciation)
- ENGL 201 (Introduction to World Poetry) Or ENGL 200 (Introduction to American Literature)
- UCM00703U2 (French for Communication and Culture 1)
- UCM00803U2 (French for Communication and Culture 2)
- HIST 101 (World Civilizations I (to 1500)) or HIST 102 (World Civilizations (from 1500))
- COMM 101 (Introduction to Communication) or FILM 101 (Introduction to Film Studies)
- MUSC 103 (Introduction to Music)
- PHIL 101 (Introduction to Philosophy) or PHIL 203 (Introduction to Logic) or UCU60303U2 (Introduction to Philosophy)
- WREL 105 (World Religion)
- UCM00103U2 (Spanish for Communication and Culture 1)
- UCM00203U2 (Spanish for Communication and Culture 2)
- UCM60203U2 (Introduction to Acting) or THTR 101 (Foundation of Acting I)