



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

**Taylor's University**

**Major: Civil Engineering  
Total Degree Requirements: 130 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
CEE 106	Elementary Surveying	p. MATH 115 or MATH 120	SDSU		3
CEE 106L	Elementary Surveying Lab	CEE 106 Co-requisite	SDSU		1
CHEM 112	General Chemistry I	MATH 102 Co-requisite	Taylor's	CHEM 105	3
CHEM 112L	General Chemistry I lab	CHEM 112 Co-requisite	Taylor's	CHEM 105 lab	1
ENGL 101	Composition I (SGR #1)	p. Placement	Taylor's	ENGL 101	3
GE 101	Introduction to Engineering and Technical Professions		Taylor's	ENGR 196	1
MATH 123	Calculus I (SGR #5)	p. Math 115 or Placement, earn C or better	Taylor's	MATH 171	4
<b>Total Credit Hours</b>					16

**Spring**

Prefix + Number	Course Title	Prerequisites/Comments	College	Course	Credits
CEE 101	Introduction to Civil Engineering	Majors only	SDSU		1
CHEM 114	General Chemistry II	p. CHEM 112	Taylor's	CHEM 106	3
ENGL 201***	Composition II (SGR #1)	p. ENGL 101	Taylor's	ENGL 102	3
MATH 125	Calculus II	p. MATH 123, earn C or better	Taylor's	MATH 172	4
SGR #3	Social Science/Diversity (SGR #3)	See Notes	Taylor's		3
SPCM 101	Fundamentals of Speech (SGR #2)		Taylor's	SPCH 105	3
<b>Total Credit Hours</b>					17

**Second Year**

**Fall**

Prefix + Number	Course Title	Prerequisites/Comments	College	Course	Credits
CEE 282	Civil Engineering Computer Aided Design	p. CEE 101 and CEE 106L	SDSU		3
EM 214	Statics	p. MATH 123	Taylor's	MECH 270	3
MATH 225	Calculus III	p. MATH 125	Taylor's	MATH 271	4
PHYS 221/L	University Physics I and Lab (SGR #6)	p. MATH 123	Taylor's	PHYS 211 & lab	4
SGR #4	Arts & Humanities/Diversity (SGR #4)	See Notes	Taylor's		3
<b>Total Credit Hours</b>					17

**Spring**

Prefix + Number	Course Title	Prerequisites/Comments	College	Course	Credits
CEE 216	Civil Engineering Materials	p. CHEM 112, Spring Only	SDSU		2
CEE 216L	Civil Engineering Materials Lab	CEE 216 Co-requisite	SDSU		1
CEE 225	Principles of Environmental Science and Engineering	p. CHEM 106 or 114	SDSU		3
EM 215	Dynamics	p. EM 214	Taylor's	MECH 274	3
MATH 321	Differential Equations	p. MATH 125	Taylor's	MATH 353	3
PHYS 213/L	University Physics II and Lab (SGR #6)	p. PHYS 211/L	Taylor's	PHYS 212 & lab	4
<b>Total Credit Hours</b>					16



**Third Year**

**Fall**

Prefix + Number	Course Title	Prerequisites/Comments	College	Course	Credits
CEE 311	Structural Materials Lab	p. CEE 216 and 216L, EM 321 Co-requisite, Fall only	SDSU		1
EM 331	Fluid Mechanics	p. EM 215, Fall only	SDSU		3
CEE 331	Fluid Mechanics Lab	EM 331 Co-requisite, Fall only	SDSU		1
CEE 340/L	Engineering Geology and Lab	p. CEE 216 and 216L, Fall only	SDSU		3
EM 321	Mechanics of Materials	p. EM 214	SDSU		3
SGR #3	Social Science/Diversity (SGR #3)	See Notes	Taylor		3
SGR #4	Arts & Humanities/Diversity (SGR #4)	See Notes	Taylor		3
<b>Total Credit Hours</b>					17

**Spring**

Prefix + Number	Course Title	Prerequisites/Comments	College	Course	Credits
CEE 323	Water Supply and Wastewater Engineering	p. CEE 225, Spring only	SDSU		3
CEE 346/L	Geotechnical Engineering and Lab	p. EM 321, CEE 340/L, Spring only	SDSU		4
CEE 353	Structural Theory	p. EM 321, Spring only	SDSU		3
CEE 363	Highway and Traffic Engineering	p. CEE 106, Spring only	SDSU		3
CEE 432	Hydraulic Engineering	p. EM 331, Spring only	SDSU		3
<b>Total Credit Hours</b>					16

**Fourth Year**

**Fall**

Prefix + Number	Course Title	Prerequisites/Comments	College	Course	Credits
CEE 456	Concrete Theory and Design	p. CEE 353, Fall only	SDSU		3
CEE 464	Capstone Design I	Senior Standing, Fall only	SDSU		1
CEE 482	Engineering Administration	Senior Standing, Fall only	SDSU		3
CEE 488	Professional Seminar	Senior Standing, Fall only	SDSU		1
STAT 381	Intro to Probability and Statistics	p. MATH 125	Taylor	STAT 261	3
CEE	Technical Elective	See advisor for approved list	SDSU		3
CEE	Technical Elective	See advisor for approved list	SDSU		3
<b>Total Credit Hours</b>					17

**Spring**

Prefix + Number	Course Title	Prerequisites/Comments	College	Course	Credits
CEE 455	Steel Design	p. CEE 353, Spring only	SDSU		3
CEE 465	Capstone Design II	p. CEE 464, Spring only	SDSU		2
CEE	Technical Elective	See advisor for approved list	SDSU		3
CEE	Technical Elective	See advisor for approved list	SDSU		3
CEE	Technical Elective	See advisor for approved list	SDSU		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](#).

\*\*\*ENGL 277 Technical Writing in Engineering may be taken instead but should be scheduled in the 3<sup>rd</sup> or 4<sup>th</sup> year.

- Students must earn a combined average “C” or better in all CEE courses
- Students must earn a combined average “C” or better in all EM courses
- Students must earn a combined average “C” or better in all MATH courses and a “C” or better in MATH 123 and MATH 125
- Students must take the Fundamentals of Engineering examination prior to graduation

Taylor CREDITS – 61      SDSU CREDITS – 69



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)