

**CURRICULUM SUMMARY FOR THE BACHELOR OF SCIENCE IN  
CIVIL ENGINEERING**

**TOTAL CREDITS REQUIRED:126**

CORE CURRICULUM (STANDARD)*		MAJOR (CIVIL ENGINEERING)	OTHER REQUIREMENTS	MINOR REQUIREMENTS
TSU COURSES	TCCNS EQUIVALENT			
43 credits		61 credits	22 credits	0 credits
<u>Communication:</u>		ENGT 111 (1)	CHEM 111 (1)	
ENG 131 (3)	ENGL 1301	CIVE 141 (3)	ENGR 333 (1)	
ENG 132 (3)	ENGL 1302	CIVE 141L (1)	MATH 242 (4)	
<u>Mathematics:</u>		CIVE 223 (3)	MATH 243 (4)	
MATH 241 (4)	MATH 2413	CIVE 224 (3)	MATH 251 (3)	
<u>Life and physical sciences:</u>		CIVE 224L (1)	MATH 345 (3)	
CHEM 131 (3)	CHEM 131	CIVE 231 (3)	PHYS 217 (1)	
PHYS 251 (3)	PHYS 2325	CIVE 232 (3)	PHYS 218 (1)	
<u>Language, philosophy, and culture:</u>		CIVE 233 (3)	PHYS 252 (3)	
ENG 2xx (3) **		CIVE 301 (3)	FS 102 (1)	
<u>Creative arts:</u>		CIVE 301L (1)		
MUSI 239 (3)	HUMA 1315	CIVE 332 (3)		
<u>American history:</u>		CIVE 333 (3)		
HIST 231 (3)	HIST 1301	CIVE 334 (3)		
HIST 232 (3)	HIST 1302	CIVE 336 (3)		
<u>Government/political science:</u>		CIVE 338 (3)		
POLS 235 (3)	GOVT 2305	CIVE 339 (3)		
POLS 236 (3)	GOVT 2306	CIVE 340 (3)		
<u>Social and behavioral sciences:</u>		CIVE 430 (6)***		
ECON 231 (3)	ECON 2301	CIVE 434 (3)		
<u>Institutional Options:</u>		Technical Elective (3)^		
SC 135 or SC 136 (3)	SPCH 1321 or SPCH 1315	Technical Elective (3)^		
CS 116 (3)	COSC 1336 or 1436			

\*Students should be advised by a major advisor prior to registering for any credit, particularly any core curriculum credit as listed.

\*\* ENG 230, ENG 231, ENG 235, or ENG 244 (TCCN: ENGL 2332, ENGL 2333, ENGL 2326, or ENGL 2326)

\*\*\*Non co-op track will allow students to satisfy internship requirement with completion of 6 credit hours in CIVE 400 Problems in Civil Engineering

^ Technical Electives may be selected from CIVE 335 (3), CIVE 435 (3), ENGR 433(3), CIVE 490 (3), & ENGR 480 (3)

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First Year	FIRST SEMESTER		SECOND SEMESTER	
	ENG 131 Freshman English I	3	ENG 132 Freshman English II	3
	MATH 241 Calculus & Analytic Geometry I	4	MATH 242 Calculus & Analytic Geometry II	4
	CHEM 131 General Chemistry I	3	MUSI 239 Fine Arts in Daily Living	3
	CHEM 111 General Chemistry I Lab	1	CS 116 Intro to Computer and their Appl.	3
	CIVE 141 Civil Engineering Materials	3	CIVE 223 Hydrology and Water Resources	3
	CIVE 141L Civil Engr. Materials Lab	1	ENGT 111 Intro. to Project Management	1
	FS 102 Freshman Seminar	1		
	<b>16 Hrs</b>		<b>17 Hrs</b>	

Second Year	THIRD SEMESTER		FOURTH SEMESTER	
	ENG 2xx Upper Level English	3	MATH 251 Differential Equations	3
	MATH 243 Calculus & Analytic Geometry III	4	MATH 345 Applied Math and Statistics	3
	CIVE 231 Plane Surveying	3	CIVE 224 Geotechnical Engineering	3
	CIVE 232 Statics	3	CIVE 224L Geotechnical Engineering Lab	1
	PHYS 251 University Physics I	3	CIVE 233 Dynamics	3
	PHYS 217 University Physics I Lab	1	PHYS 252 University Physics II	3
			PHYS 218 University Physics II Lab	1
	<b>17 Hrs</b>		<b>17 Hrs</b>	

Third Year	FIFTH SEMESTER		SIXTH SEMESTER	
	CIVE 301 Environmental Engineering	3	CIVE 333 Hydraulics Engineering	3
	CIVE 301L Environmental Engineering Lab	1	CIVE 338 Structural Analysis	3
	CIVE 332 Applied Fluid Mechanics	3	CIVE 434 Water and Wastewater Engineering	3
	CIVE 334 Transportation Engineering	3	ENGR 333 Engineering Ethics	1
	CIVE 336 Strength of Materials	3	HIST 231 Social & Political History of U.S. I	3
	POLS 235 American Political System I	3	POLS 236 American Political System II	3
	<b>16 Hrs</b>		<b>16 Hrs</b>	

Fourth Year	SEVENTH SEMESTER		EIGHTH SEMESTER	
	CIVE 339 Reinforced Concrete Design	3	CIVE 430 Engr Practicum *	6
	CIVE 340 Structural Steel Design	3	**Technical Elective 3xx or 4xx	3
	ECON 231 Principles of Economics I	3		
	HIST 232 Social & Political History of U.S. II	3		
	SC 135 Business and Prof. Communication	3		
	***Technical Elective 3xx or 4xx	3		
	<b>18 Hrs</b>		<b>9 Hrs</b>	

NOTE: Students should be advised by a major advisor prior to registering for any credit, particularly any core curriculum credit as listed.

\*Non co-op track will allow students to satisfy internship requirement with completion of 6 credit hours in CIVE 400 Problems in Civil Engineering

\*\*The Technical Elective should be selected from one of the following three-credit courses:

- CIVE 335 Geometric Design of Highways
- CIVE 435 Civil Engr. Construction Methods
- CIVE 490 Introduction to Bridge Engineering
- ENGR 433 Alternative Energy
- ENGR 480 Construction Management