A.S. in Engineering (Civil Engineering Track)

to

B.S. in Civil Engineering

This four-year plan provides a model for on-time completion of the B.S. in Civil Engineering at UTRGV by starting at South Texas College.

Year	First Semester		Second Semester	
FRESHMAN	**STC Requirement**	**UTRGV Equivalent**	**STC Requirement**	**UTRGV Equivalent**
	ENGR 1201 (Major Requirement)	EECE 1101 (Major Requirement)*	ENGL 1302 (Communications Core)	ENGL 1302 (Communications Core)
	Creative Arts Core	Creative Arts Core	HIST 1301 or HIST 2327 (American History Core)	HIST 1301 or HIST 2327 (American History Core)
	ENGL 1301 (Communication Core)	ENGL 1301 (Communications Core)	PHYS 2425 (Life & Physical Science Core)	PHYS 2425 (Life & Physical Science Core, Required at UTRGV)
	MATH 2413 (Mathematics Core)	MATH 2413 (Mathematics Core, Required at UTRGV))	MATH 2414 (Major Requirement)	MATH 2414 (Major Requirement)
	CHEM 1409 (Major Requirement)	CHEM 1309 and 1109 (Major Requirement)		
	Third Semester			
	STC Requirement		**UTRGV Equivalent**	
	HIST 1302 or HIST 2328 (American History Core)		HIST 1302 or HIST 2328 (American History Core)	
Year	**Fourth Semester**		**Fifth Semester**	
SOPHOMORE	**STC Requirement**	**UTRGV Equivalent**	**STC Requirement**	**UTRGV Equivalent**
	ENGR 2301 (Major Requirement)	MECE 2301 (Major Requirement)	GOVT 2306 (Political Science Core)	POLS 2306 (Political Science Core)
	PHYS 2426 (Life & Physical Science Core)	PHYS 2426 (Life & Physical Science Core)	ENGR 2302 (Major Requirement)	MECE 2302 (Major Requirement)
	GOVT 2305 (Political Science Core)	POLS 2305 (Political Science Core)	GEOL 1403 (Major Requirement)	GEOL 1403 (Major Requirement)
	MATH 2415 (Major Requirement)	MATH 2415 (Major Requirement)	MATH 2420 or ENGR 2405 **Recommended:** MATH 2420 (Core Component Area Option)	MATH 2000 (Major Requirement)* **[MATH 2420 fulfills the requirement for MATH 3341, no advanced credit hours apply.]** **[ENGR 2405 is not required at UTRGV]**

**Substitutions will be needed to apply STC credit to UTRGV program requirement.*

Year	Fall Semester	Spring Semester
JUNIOR	CIVE 2220 Civil Engineering Measurements	MANE 3337 Engineering Economics
	MECE 2350 Numerical Methods for Engineers	CIVE 3324 Structural Analysis I
	MANE 3332 Engineering Statistics	CIVE 3331 Environmental Engineering
	CIVE 3440 Civil Engineering Materials	CIVE 3475 Geotechnical Engineering and Applications
	CIVE 3321 Mechanics of Materials	CIVE 3315 Fluid Mechanics and Hydraulics
	Social & Behavioral Science (Core) 080	CIVE 3115 Fluid Mechanics and Hydraulics Lab
Year	**Fall Semester**	**Spring Semester**
SENIOR	CIVE 3341 Structural Steel Design	CIVE 4347 Foundation Design
	CIVE 3345 Transportation Engineering	Advanced Prescribed Elective
	CIVE 4335 Water Resources Engineering	Advanced Prescribed Elective
	CIVE 4346 Reinforced Concrete Design	CIVE 4391 Civil Engineering Senior Fundamentals
	CIVE 4349 Construction Planning and Management	CIVE 4392 Civil Engineering Senior Project
	PHIL 2326 Ethics, Technology, and Society (Core) 040 (Major specific core curriculum requirement)	

This degree requires 129 hours and a minimum of 42 advanced (3000 and 4000) credit hours.