TENNESSEE STATE UNIVERSITY

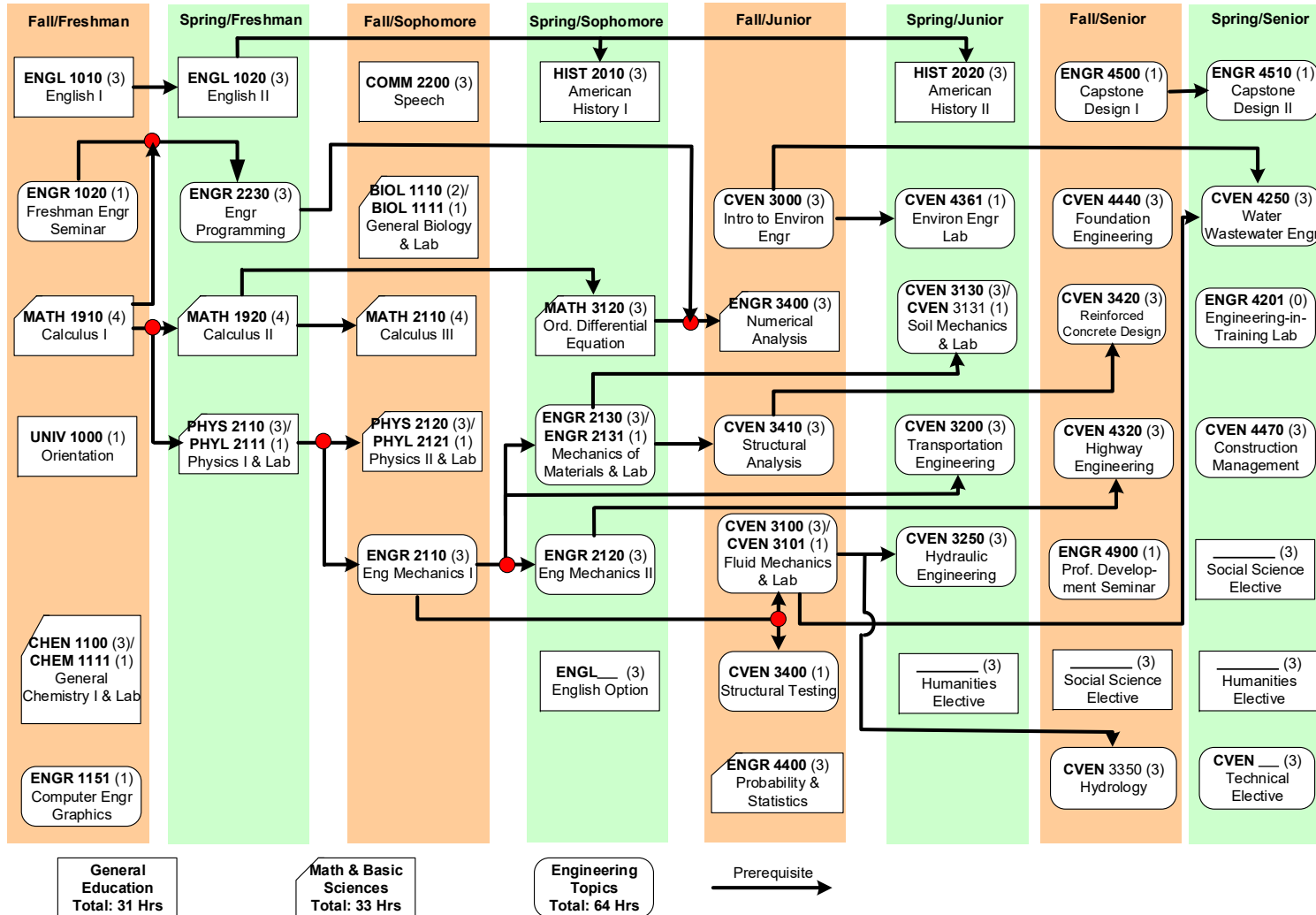## Department of Civil and Architectural Engineering
Civil Engineering Program Course Flowchart
Effective Fall 2020

Fall/Freshman	Spring/Freshman	Fall/Sophomore	Spring/Sophomore	Fall/Junior	Spring/Junior	Fall/Senior	Spring/Senior
ENGL 1010 (3) English I	ENGL 1020 (3) English II	COMM 2200 (3) Speech	HIST 2010 (3) American History I		HIST 2020 (3) American History II	ENGR 4500 (1) Capstone Design I	ENGR 4510 (1) Capstone Design II
ENGR 1020 (1) Freshman Engr Seminar	ENGR 2230 (3) Engr Programming	BIOL 1110 (2)/ BIOL 1111 (1) General Biology & Lab		CVEN 3000 (3) Intro to Environ Engr	CVEN 4361 (1) Environ Engr Lab	CVEN 4440 (3) Foundation Engineering	CVEN 4250 (3) Water Wastewater Engr
MATH 1910 (4) Calculus I	MATH 1920 (4) Calculus II	MATH 2110 (4) Calculus III	MATH 3120 (3) Ord. Differential Equation	ENGR 3400 (3) Numerical Analysis	CVEN 3130 (3)/ CVEN 3131 (1) Soil Mechanics & Lab	CVEN 3420 (3) Reinforced Concrete Design	ENGR 4201 (0) Engineering-in-Training Lab
UNIV 1000 (1) Orientation	PHYS 2110 (3)/ PHYL 2111 (1) Physics I & Lab	PHYS 2120 (3)/ PHYL 2121 (1) Physics II & Lab	ENGR 2130 (3)/ ENGR 2131 (1) Mechanics of Materials & Lab	CVEN 3410 (3) Structural Analysis	CVEN 3200 (3) Transportation Engineering	CVEN 4320 (3) Highway Engineering	CVEN 4470 (3) Construction Management
CHEN 1100 (3)/ CHEM 1111 (1) General Chemistry I & Lab		ENGR 2110 (3) Eng Mechanics I	ENGR 2120 (3) Eng Mechanics II	CVEN 3100 (3)/ CVEN 3101 (1) Fluid Mechanics & Lab	CVEN 3250 (3) Hydraulic Engineering	ENGR 4900 (1) Prof. Development Seminar	_____ (3) Social Science Elective
ENGR 1151 (1) Computer Engr Graphics		ENGL___ (3) English Option	CVEN 3400 (1) Structural Testing	_____ (3) Humanities Elective	_____ (3) Social Science Elective	_____ (3) Humanities Elective
			ENGR 4400 (3) Probability & Statistics		CVEN 3350 (3) Hydrology	CVEN ___ (3) Technical Elective

General Education Total: 31 Hrs	Math & Basic Sciences Total: 33 Hrs	Engineering Topics Total: 64 Hrs	→ Prerequisite

1. All students are required to pass or to be waived the **Engineering Entrance Exam** Prior to Enrolling in Engineering Upper (300-400) level courses.
2. CVEN Technical Elective: CVEN 3440, 4050, 4090, 4110, 4220, 4280, 4290, 4350, 4430, and 4520.
3. Social science and Humanities Electives must be chosen from an Approved list courses.
4. Graduating seniors must take ETS Exit Exam in senior year.
5. Total Required Credit Hours for Degree is 128.