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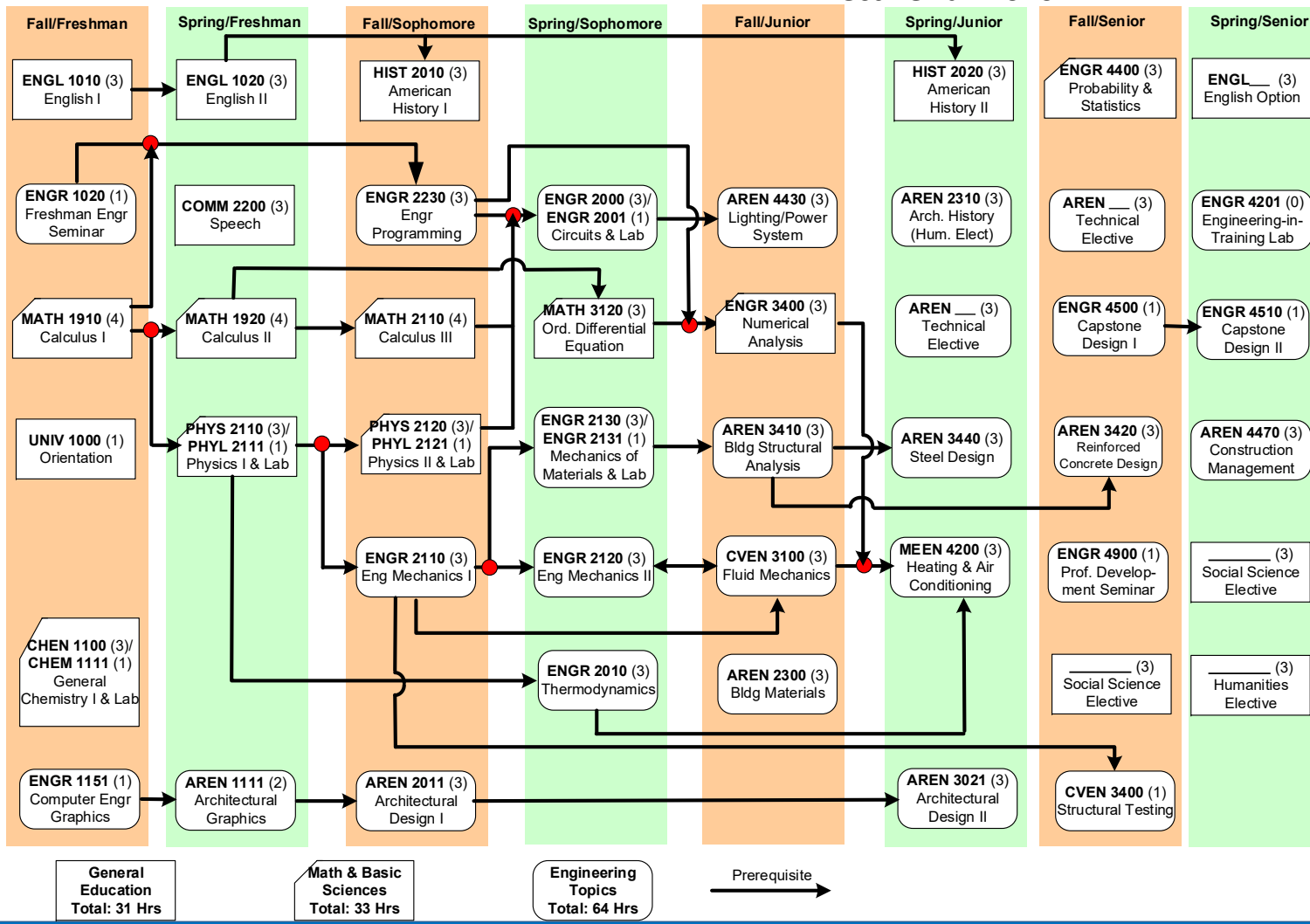## Architectural Engineering Program Course Flowchart
Effective Fall 2020

TENNESSEE STATE UNIVERSITY

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	HIST 2010 (3) American History I		AREN 4430 (3) Lighting/Power System	HIST 2020 (3) American History II	ENGR 4400 (3) Probability & Statistics	ENGL___ (3) English Option
ENGR 1020 (1) Freshman Engr Seminar	COMM 2200 (3) Speech	ENGR 2230 (3) Engr Programming	ENGR 2000 (3)/ ENGR 2001 (1) Circuits & Lab		AREN 2310 (3) Arch. History (Hum. Elect)	AREN ___ (3) Technical Elective	ENGR 4201 (0) Engineering-in-Training Lab
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	AREN ___ (3) Technical Elective	ENGR 4500 (1) Capstone Design I	ENGR 4510 (1) Capstone Design II
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	AREN 3410 (3) Bldg Structural Analysis	AREN 3440 (3) Steel Design	AREN 3420 (3) Reinforced Concrete Design	AREN 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) Fluid Mechanics	MEEN 4200 (3) Heating & Air Conditioning	ENGR 4900 (1) Prof. Development Seminar	_____ (3) Social Science Elective
			ENGR 2010 (3) Thermodynamics	AREN 2300 (3) Bldg Materials		_____ (3) Social Science Elective	_____ (3) Humanities Elective
ENGR 1151 (1) Computer Engr Graphics	AREN 1111 (2) Architectural Graphics	AREN 2011 (3) Architectural Design I			AREN 3021 (3) Architectural Design II	CVEN 3400 (1) Structural Testing	

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. AREN Technical Electives (**Structural Option**): AREN 4440 (3) Foundation Engineering; AREN 3460 (3) Wood & Masonry Design.
3. AREN Technical Electives (**Mechanical Option**): AREN 4420 (3) Advanced Mechanical Systems; AREN 4450 (3) Energy Conservation.
4. Social science and Humanities Electives must be chosen from an Approved list courses.
5. Graduating seniors must take ETS Exit Exam in senior year.
6. Total Required Credit Hours for Degree is 128.