



TENNESSEE STATE UNIVERSITY

Department of Civil and Architectural Engineering

Architectural Engineering Program Curriculum

Effective Fall 2020

Fall				Spring			
Freshman Year							
ENGL	1010	Freshman English I	3	ENGL	1020	Freshman English II	3
MATH	1910	Calculus I	4	MATH	1920	Calculus II	4
CHEM	1110	General Chemistry I	3	PHYS	2110	Calculus based Physics I	3
CHEM	1111	General Chemistry I Lab	1	PHYS	2111	Calculus based Physics I Lab	1
ENGR	1020	Freshman Engr Seminar	1	AREN	1111	Architectural Graphics	2
ENGR	1151	Computer Engr Graphics	1	COMM	2200	Speech	3
UNIV	1000	Orientation	1				
			<u>14</u>				<u>16</u>
Sophomore Year							
MATH	2110	Calculus III	4	MATH	3120	Ordinary Differential Equation	3
ENGR	2230	Engr Programming	3	ENGR	2000	Circuits	3
ENGR	2110	Statics	3	ENGR	2001	Circuits Lab	1
PHYS	2120	Calculus based Physics II	3	ENGR	2120	Dynamics	3
PHYS	2121	Calculus based Physics II Lab	1	ENGR	2010	Thermodynamics	3
HIST	2010	American History I	3	ENGR	2130	Mechanics of Materials	3
			<u>17</u>	ENGR	2131	Mechanics of Materials Lab	1
							<u>17</u>
Junior Year							
AREN	2300	Bldg Materials & Construction	3	MEEN	4200	Heating & Air Conditioning	3
AREN	3410	Bldg Structural Analysis	3	AREN	3440	Steel Design	3
CVEN	3100	Fluid Mechanics	3	AREN	3021	Architectural Design II	3
AREN	2011	Architectural Design I	3	AREN		Technical Elective(1)	3
ENGR	3400	Numerical Analysis	3	HIST	2020	American History II	3
AREN	4430	Lighting/Power Systems	3	AREN	2310	Arch. History (Hum. Elect)	3
			<u>18</u>				<u>18</u>
Senior Year							
CVEN	3400	Structural Testing	1				
ENGR	4500	Capstone Design Project I	1	ENGR	4510	Capstone Design Project II	1
ENGR	4900	Prof Development Seminar	1	AREN	4470	Construction Management	3
ENGR	4400	Probability & Statistics	3	ENGR	4201	Engineer in Training Lab	0
AREN	3420	Reinforced Concrete Design	3			English Literature (Hum. Elect)	3
AREN		Technical Elective(1)	3			Social Science Elective	3
		Social Science Elective	3			Humanities Elective	3
			<u>15</u>				<u>13</u>

ALL STUDENTS ARE REQUIRED TO BE WAIVED ENGINEERING ENTRANCE EXAMINATION PRIOR TO ENROLLING IN ENGINEERING UPPER (300-400) LEVEL COURSES
 SOCIAL SCIENCE and HUMANITIES ELECTIVEs MUST BE CHOSEN FROM AN APPROVED LIST COURSES

(1) TECHNICAL ELECTIVEs MUST BE CHOSEN BASED ON THE OPTION (MECHANICAL OR STRUCTURAL) SELECT
 MECHANICAL: AREN 4220: ADVANCED MECHANICAL SYSTEMS AREN 4450: ENERGY CONSERVATION + OTHER
 STRUCTURAL: AREN 4440: FOUNDATION ENGINEERING AREN 3460: WOOD & MASONRY DESIGN + OTHE

NOTE 4: TOTAL REQUIRED CREDIT HOURS FOR DEGREE IS

128