

Department of Civil and Architectural Engineering

Architectural Engineering Program Curricullum

Effective Spring 2021

Fall			Spring			
Freshman Year						
ENGL	1010 Freshman English I	3	ENGL		Freshman English II	3
MATH	1910 Calculus I	4	MATH	1920	Calculus II	4
CHEM	1110 General Chemistry I	3	PHYS		Calculus based Physics I	3
CHEM	1111 General Chemistry I Lab	1	PHYS		Calculus based Physics I Lab	1
ENGR	1020 Freshman Engineering Seminar	1	AREN	1111	Architectural Graphics	2
ENGR	1151 Computer Engr Graphics	1	COMM	2200	Speech	3
UNIV	1000 Orientation	1				
		14				16
Sophomore Year						
MATH	2110 Calculus III	4	MATH	3120	Ordinary Differential Equation	3
ENGR	2230 Engineering Programming	3	ENGR	2000	Circuits	3
ENGR	2110 Engineering Mechanics I	3	ENGR	2001	Circuits Lab	1
PHYS	2120 Calculus based Physics II	3	ENGR	2120	Engineering Mechanics II	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
			ENGR	2131	Mechanics of Materials Lab	1
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Junior	Year					
AREN	2300 Bldg Materials & Construction	3	MEEN	4200	Heating & Air Conditioning	3
AREN	3410 Bldg Structural Analysis	3	AREN		Steel Design	3
CVEN	3100 Fluid Mechanics	3	AREN		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 <u>Lighting/Power Systems</u>	3	AREN		Arch. History (Hum. Elect)	3
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Senior Year						
CVEN	3400 <u>Structural Testing</u>	1				
	4500 Capstone Design Project I	1	ENGR	4540	Canatana Dasign Project II	1
ENGR	4900 Prof Development Seminar	1	AREN		Capstone Design Project II Construction Management	
	<u>-</u>					3
ENGR	4400 Probability & Statistics	3	ENGR	4201	Engineer in Training Lab	0
AREN	3420 Reinforced Concrete Design	3	ENGL		English Literature (Hum. Elect)	3
AREN	Technical Elective(1)	3			Social Science Elective	3
	Social Science Elective	3			Humanities Elective	3
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ALL STUDENTS ARE REQUIRED TO PASS OR 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)SELECTED: MECHANICAL: AREN 4220: ADVANCED MECHANICAL SYSTEMS AREN 4450: ENERGY CONSERVATION + OTHERS STRUCTURAL: AREN 4440: FOUNDATION ENGINEERING AREN 3460: WOOD & MASONRY DESIGN + OTHERS

ITALIC AND UNDERLINE COURSE ONLY BE OFFERED ONCE PER YEAR IN SPECIFIED FALL OR SPRING SEMESTER