ARCHITECTURAL ENGINEERING MAJOR

Program Tracking Sheet

Effective for students entering in AY 2022-2023

Class Year:

2nd Major:

		ET	rective to	or stude		
Nan	ne:					
Adv	isor:					
HUN All 5	FES: Minimum total academic credit = 15 Residency Req.: Min. of 8 units mus MANITIES AND ARTS (6/3 unit) HUA courses must be completed before tracticum.	t be complete		eminar		
Dep Stud	th Component dents must complete at least three thema culminating Inquiry Seminar or Practicum					
	least one of the three courses should be at the 2000-level or above.					
	Course	Term	Grade	Units		
1				1/3		
2				1/3		
3				1/3		
4	HU 3900 or HU 3910 adth Component			1/3		
complete their depth component. To identify breadth, courses are grouped in the following manner. i. art/art history, drama/theatre, and music (AR, EN/TH, MU); ii. foreign languages (AB, CN, EN, GN, SP); iii. literature and writing rhetoric (EN, WR, RH); iv. history and international studies (HI, HU, INTL); v. philosophy and religion (PY, RE). Exception: May take all six courses in a foreign language						
5	l nanities Elective			1/3		
6	liainties Liective			1/3		
	/SICAL EDUCATION (4 PE classes = 1/3	3 unit)	1	1/0		
	(11 = 3.00000			1/12		
7				1/12		
7				1/12		
				1/12		
SOC	CIAL SCIENCE (2/3 unit) ECON, ENV, G	OV, PSY, SD,	SOC, SS,			
	DEV and ID2050			1		
8				1/3		
9	INTERACTIVE CHALLEVING RECUES	T (4 :0)		1/3		
	INTERACTIVE QUALIFYING PROJEC	i (1 unit)		1.10		
10				1/3		
11				1/3		
12	FUENATIOS AND DASIS SOIENOES (A	!4-1		1/3		
	THEMATICS AND BASIC SCIENCES (4 THEMATICS (7/3 unit) Courses with prefi					
13	MA 1021 (Calc 1)	X. IVIA		1/3		
14	MA 1021 (Calc 1) MA 1022 (Calc 2)			1/3		
15	MA 1022 (Calc 2) MA 1023 (Calc 3)			1/3		
16	MA 1024 (Calc 4)			1/3		
17	MA 2051 (Diff Eqs)			1/3		
18	MA 2071 (Lin Alg)			1/3		
19	MA 2611 (Applied Statistics)			1/3		
	/SICS (2/3 unit) Courses with prefix: PH		<u> </u>	1/0		
20	PH 1110/1111 (Mechanics)			1/3		
21	PH 1120/1121 (E&M)			1/3		
	EMISTRY (1/3 unit) Course with prefix: C	 H		.,,		
22	CH 1010 (Chem 1) or 1020 (Chem 2)			1/3		

Must include 1/3 unit in Thermodynamics (Note 1). Must include 1/3 unit in fluid mechanics (can be fulfilled by ES 3004)

	modification (dan so familied s) Le ded if		
23			1/3
24			1/3

ARCHITECTURAL ENGINEERING SCIENCE AND DESIGN (7 units) (Note 2, 3, 4)

ARCHITECTURAL ENGINEERING COMPLEMENTS (2/3 units)

ARC	CHITECTURAL ENGINEERING COMPLE	IVI	EN 15 (2/3	uni	ts)	
25	AR 2114 Mod Arch in the American					1/3
	Era					
26	AREN 2023 Intro to AREN Systems					1/3
CONSTRUCTION/CONSTRUCTION MANAGEMENT (2/3 units)						
27	CE 3025 or OIE 2850					1/3
28	CE 3022 or CE 3020					1/3
BUI	LDING MECHANICAL SYSTEMS (5/3 un	its)			
29	AREN 3024 Building Physics					1/3
30	AREN 3003 Principles of HVAC design					1/3
	for buildings					
31	AREN 3006 Advanced HVAC Design					1/3
32	AREN 3020 Architectural Design IV-					1/3
	Building Energy Simulation					
33	AREN 3022 Architectural Design V-					1/3
	Building Envelope Design					
BUI	LDING ELECTRICAL SYSTEMS (2/3 unit	s)				
34	AREN 2025 Building Electrical Systems					1/3
35	AREN 2004 Architectural Design II-					1/3
	Light and Lighting Systems					
BUI	LDING STRUCTURAL ENGINEERING (5	/3	units) (Not	e 2	()	
36	CE 2000 Analytical Mechanics I					1/3
37	CE 2001 Analytical Mechanics II					1/3
38	CE 2002 Introduction to Analysis and					1/3
	Design					
39						1/3
40						1/3
GEN	NERAL ARCHITECTURAL DESIGN (2/3	un	its)			<u></u>
41	AREN 2002 Architectural Design I					1/3
42	AREN 3002 Architectural Design III					1/3
MAJOR QUALIFYING PROJECT (1 unit) (Note 3)						
43	, , ,					1/3
44						1/3
45						1/3

Note 1: Can be satisfied with PH 2101 as a Mathematics and Basic Science Elective, or ES 3001, Introduction to Thermodynamics as a Free Elective, or other approved equivalent course.

Note 2: The additional two structural engineering courses should be two design level structural engineering courses (such as CE 3006, 3008, 3010, or 3044)

Note 3: Must include the Capstone Design activity through the MQP that achieves design proficiency in either the structural or mechanical area.

Note 4: Must include 1/3 unit in Experimentation (fulfilled by AREN 3003, AREN 3020, ME 3901, CE 3026 or approved equivalent).

Note 5: GPS courses can only be used to fulfill the HUA, SSPS, or the Free Elective Requirements.