ARCHITECTURAL ENGINEERING MAJOR

Program Tracking Sheet

Effective for students entering in AY 2022-2023

Class Year:

2nd Major:

		Eff	ective to	or studer				
Nan	ne:							
Adv	isor:							
NO.	NOTES: Minimum total academic credit = 15 units							
	Residency Req.: Min. of 8 units must	t be completed	at WPI					
	MANITIES AND ARTS (6/3 unit)	haginning the	Inquiry C	ominar				
All 5 HUA courses must be completed before beginning the Inquiry Seminar or Practicum.								
Depth Component								
	Students must complete at least three thematically-related courses prior to							
the culminating Inquiry Seminar or Practicum in the same thematic area. At								
leas	t one of the three courses should be at th							
	Course	Term	Grade	Units				
1				1/3				
2				1/3				
3	11110000 11110040			1/3				
4	HU 3900 or HU 3910			1/3				
	adth Component	la 11a a marinala	an dan analada la	41				
	dents must take at least one course outsic plete their depth component. To identify b							
	following manner.	neauth, cours	es are gro	upeu III				
	iollowing mailler. irt/art history, drama/theatre, and music (A	R EN/TH MI	1).					
	preign languages (AB, CN, EN, GN, SP);	ιιχ, ∟ι ν / ΙΙΙ, Ινιν	J),					
	terature and writing rhetoric (EN, WR, RH	١٠						
	istory and international studies (HI, HU, II)							
	hilosophy and religion (PY, RE).	1 1 = <i>j</i> ,						
	eption: May take all six courses in a foreign	ın language						
5		,		1/3				
Hur	nanities Elective							
6				1/3				
PH	/SICAL EDUCATION (4 PE classes = 1/3	unit)						
				1/12				
7				1/12				
'				1/12				
				1/12				
	CIAL SCIENCE (2/3 unit) ECON, ENV, GO	OV, PSY, SD,	SOC, SS,					
	S, DEV and ID2050			1				
8				1/3				
9		- //		1/3				
	INTERACTIVE QUALIFYING PROJECT	r (1 unit)		1				
10				1/3				
11				1/3				
12				1/3				
	THEMATICS AND BASIC SCIENCES (4							
	THEMATICS (7/3 unit) Courses with prefix	x: MA	1	1				
13	MA 1021 (Calc 1)			1/3				
14	MA 1022 (Calc 2)			1/3				
15	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			410				
20	PH 1110/1111 (Mechanics)			1/3				
21	PH 1120/1121 (E&M)			1/3				
	EMISTRY (1/3 unit) Course with prefix: Ch	1		410				
22	CH 1010 (Chem 1) or 1020 (Chem 2)	1	1	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)

iiuiu	modification (carried families by Ec coot)		
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	M	ENTS (2/3	units))		_
25	AR 2114 Mod Arch in the American					1/3	
	Era	L					
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	ts)					
34	AREN 2025 Building Electrical Systems					1/	3
35	AREN 2004 Architectural Design II-					1/	3
	Light and Lighting Systems						
BUILDING STRUCTURAL ENGINEERING (5/3 units) (Note 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 I	uni	its)				
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: Thermodynamics can be fulfilled by PH 2101 or other approved equivalent course such as ES 3001.

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.