ARCHITECTURAL ENGINEERING MAJOR

Program Tracking Sheet

entering in AY 2020-2021

Class Year:

2nd Major:

		Effe	ctive for	students			
Nam	ne:						
Advi	isor:						
NO	ΓES: Minimum total academic credit = 15	unite					
NO	Residency Req.: Min. of 8 units mus		d at WPI				
	MANITIES AND ARTS (6/3 unit)						
	HUA courses must be completed before	beginning the	Inquiry S	eminar			
	racticum.						
	Ith Component Idents must complete at least three themat	tically related	cources or	ior to			
	he culminating Inquiry Seminar or Practicum in the same thematic area. At east one of the three courses should be at the 2000-level or above.						
	Course	Term	Grade	Units			
1				1/3			
2				1/3			
3	1111 0000 1111 0040			1/3			
4	HU 3900 or HU 3910			1/3			
	adth Component dents must take at least one course outsion	to the groupin	a in which	thou			
	iplete their depth component. To identify the						
	following manner.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	oo aro gro	apoa III			
	rt/art history, drama/theatre, and music (A	R, EN/TH, M	U);				
ii. fo	oreign languages (AB, CN, EN, GN, SP);		•				
	terature and writing rhetoric (EN, WR, RH						
	istory and international studies (HI, HU, II	NTL);					
	hilosophy and religion (PY, RE).						
5	eption: May take all six courses in a foreig	n language		1/3			
	nanities Elective		<u> </u>	1/3			
6	Turning Elective			1/3			
PHY	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			1/2			
8 9				1/3			
	I INTERACTIVE QUALIFYING PROJECT	T (1 unit)		1/3			
10	INTERACTIVE GOALII TING I ROULO	1 (1 41111)		1/3			
11				1/3			
12				1/3			
	THEMATICS AND BASIC SCIENCES (4	units)		.,,			
	THEMATICS (7/3 unit) Courses with prefix						
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 DUV	MA 2611 (Applied Statistics)			1/3			
20	/SICS (2/3 unit) Courses with prefix: PH PH 1110/1111 (Mechanics)			1/2			
21	PH 1120/1121 (E&M)			1/3			
	EMISTRY (1/3 unit) Course with prefix: Ch	<u> </u>		1/3			
~: · ·	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)

	IIuiu	modification (carried families by Ec coot)		
I	23			1/3
ſ	24			1/3

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

ARCHITECTURAL ENGINEERING COMPLEMENTS (2/3 units)

AK	HITECTURAL ENGINEERING COMPLE	IVI	EN 13 (2/3	un	is)		
25	AR 2114 Mod Arch in the American					1/3	
	Era						
26	AREN 2023 Intro to AREN Systems					1/3]
COI	NSTRUCTION/CONSTRUCTION MANAG	Ε	MENT (2/3	un	its)		
27	CE 3025 or OIE 2850					1/	-
28	CE 3022 or CE 3020					1/	3
BUI	LDING MECHANICAL SYSTEMS (5/3 un	its)				
29	AREN 3024 Building Physics					1/3	3
30	AREN 3003 Principles of HVAC design					1/3	3
	for buildings						
31	AREN 3006 Advanced HVAC Design					1/3	3
32	AREN 3020 Architectural Design IV-					1/3	3
	Building Energy Simulation						
33	AREN 3022 Architectural Design V-					1/3	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)			•	-
41	AREN 2002 Architectural Design I					1/3	3
42	AREN 3002 Architectural Design III					1/3	3
MAJOR QUALIFYING PROJECT (1 unit) (Note 3)							
43	, /,		,			1/3	3
44						1/3	3
45						1/3	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 3025, 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.