ARCHITECTURAL ENGINEERING MAJOR – Focus on the Mechanical Area Program Tracking Sheet Based on AY 2018-19 Degree Requirements and Course Offerings

Class Year:

2nd Major:

25

Nan	ne:			
Adv	isor:			
7.00				
NOTE	ES: Minimum total academic credit = 15 ui	nite		
	Residency Req.: Min. of 8 units must b	e completed	at WPI	
	ANITIES AND ARTS REQUIREMENT (2 HUA courses must be completed before b		nauiry Sa	minar
	ncticum.	egiiiiiig iile i	ilquily 3e	IIIIIIai
	oth Component	الممالية بمامامها		rlar ta
	dents must complete at least three themat culminating Inquiry Seminar or Practicum			
	t one of the three courses should be at th	<u>e 2000-level c</u>	r above.	
1	Course	Term	Grade	Units 1/3
2				1/3
3				1/3
4	HU 3900 or HU 3910			1/3
	adth Component	املامالمالمالمالمالمالمالمالمالمالمالمال	ما ما ما بدرا بد	thau
	dents must take at least one course outsic plete their depth component. To identify b			
	following manner.	orcadin, cours	es di e gi	ларса пт
	rt/art history, drama/theatre, and music (A	AR, EN/TH, MI	J) ;	
	preign languages (AB, CN, EN, GN, SP);	١.		
	terature and writing rhetoric (EN, WR, RH istory and international studies (HI, HU, II			
	hilosophy and religion (PY, RE).	•••		
	eption: May take all six courses in a foreig	n language	1	1
5	 nanities Elective			1/3
6	namilies Elective			1/3
	SICAL EDUCATION (4 PE classes = 1/3 t	ınit)	I	170
				1/12
7				1/12
				1/12 1/12
SOCI	l AL SCIENCE (2/3 unit) ECON, ENV, GO'	V PSY SD S	OC SS	
	02050	.,. 0., 05, 0		
8				1/3
9	NITED A CTIVE OUT I LEVING DDO LECT	/1!t\		1/3
10	NTERACTIVE QUALIFYING PROJECT	(Turiil)		1/3
11				1/3
12				1/3
FREE	ELECTIVES (1 unit)			
13				1/3
14				1/3
MATI	HEMATICS AND BASIC SCIENCES (4 u	nits)		
MA 11	HEMATICS (7/3 unit) Courses with prefix: MA 1021 (Calc 1)	MA		1/3
16	MA 1022 (Calc 1)			1/3
17	MA 1023 (Calc 3)			1/3
18	MA 1024 (Calc 4)			1/3
19	MA 2051 (Diff Eqs)			1/3
20	MA 2071 (Lin Alg)			1/3
21 PHYS	MA 2621 (Probability for Applications) SICS (2/3 unit) Courses with prefix: PH			1/3
E 113	DLI 1110/1111 (Machanica)	1	1	1/0

23 PH 1120/1121 (E&M)

CHEMISTRY (1/3 unit) Course with prefix: CH				
24	CH 1010 (Chem 1) or 1020 (Chem 2)			1/3
MATH AND BASIC SCIENCE ELECTIVES (2/3 unit)				

1/3

1/3

26

ARCHITECTURAL ENGINEERING COMPLEMENTS (1 unit)

27	AREN 2002 Architectural Design I	1/3
28	AR 2114 Mod Arch in the American Era	1/3
29	AREN 3002 Architectural Design II	1/3

ENGINEERING SCIENCE AND DESIGN REQUIREMENT (13/3 units) (Notes 2, 3)

GENERAL ARCHITECTUAL ENGINEERING (2/3 units) 30 AREN 2023 Intro to Arch Eng 1/3 **Systems** 31 | AREN 3024 Building Physics 1/3 CONSTRUCTION/CONSTRUCTION MANAGEMENT (2/3 units) 32 CE 3020 or CE 3022 1/3 33 CE 3025 Project Evaluation 1/3 **BUILDING MECHANICAL SYSTEMS (2/3 units)** AREN 3003 Principles of HVAC 1/3 Design 35 FP 3080 or AREN 3026 1/3 **BUILDING STRUCTURAL ENGINEERING (3/3 units)**

Select three of the following: CE 2000, 2001, 2002, 3041				
36			1/3	
37			1/3	
38				
BUILDING ELECTRICAL SYSTEMS (2/3 units)				
39	AREN 2025 Building Electrical		1/3	
	Systems		1/3	
40	AREN 3005 Lighting Systems		1/3	
DESIGN FOCUS ON THE MECHANICAL AREA (2/3 units)				

 Select two of the following: AREN 3006, AREN 3025, ES 3005, FP 3070

 41
 1/3

 42
 1/3

MAJOR QUALIFYING PROJECT (1 unit) (Note 4)

(11010-1)				
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: Must include 1/3 unit in Experimentation (fulfilled by AREN 3003, AREN 3025, ME 3901, CE 3026 or approved equivalent).

Note 3: Courses in Engineering Science and Design Chart above can be replaced by other approved equivalents.

Note 4: Must include the Capstone Design Activity.

1/3