ARCHITECTURAL ENGINEERING MAJOR – Focus on the Mechanical Area Program Tracking Sheet Based on AY 2016-17 Degree Requirements and Course Offerings

Name:	Class Year:	
Advisor:	2 nd Major:	
NOTES: Minimum total academic credit = 15 1/3 units	23 PH 1120/1121 (E&M)	1/3
Residency Req.: Min. of 8 units must be completed at WPI	CHEMISTRY (1/3 unit) Course with prefix: CH	

1/3

HUMANITIES AND ARTS REQUIREMENT (2 units)

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 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			1/3

Breadth Component

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Students must take at least one course outside the grouping in which they 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

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5			1/3	
Hun	nanities Elective			
6			1/3	
PHYS	SICAL EDUCATION (4 PE classes = 1/3 u	unit)		
			1/12	

7		1/12
		1/12
		1/12
		1/12

SOCIAL SCIENCE (2/3 unit) ECON, ENV, GOV, PSY, SD, SOC, SS, STS and ID2050

9				1/3	
THE INTERACTIVE QUALIFYING PROJECT (1 unit)					
10				1/3	
11				1/3	
12				1/3	
FREE	ELECTIVES (1 unit)				

13		1/3
14		1/3

MATHEMATICS AND BASIC SCIENCES (4 units)

MATHEMATICS (7/3 unit) Courses with prefix: MA				
15	MA 1021 (Calc 1)		1/3	
16	MA 1022 (Calc 2)		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	MA 2621 (Probability for Applications)		1/3	
PHYSICS (2/3 unit) Courses with prefix: PH				
22	PH 1110/1111 (Mechanics)		1/3	

23	PH 1120/1121 (E&M)		1/3
CHEN	/IISTRY (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)

Including 1/3 unit in Thermodynamics (Note 1)

IIICIGG	ing 175 drift in Thermodynamics (Note 1)		
25			1/3
26			1/3

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	1/3

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

GENERAL ARCHITECTUAL ENGINEERING (2/3 units)

GENE	RAL ARCHITECTUAL ENGINEERING (2/3 units)		
30	AREN 2023 Intro to Arch Eng			1/3
	Systems			1/3
31	AREN 3024 Building Physics			1/3
CONS	STRUCTION/CONSTRUCTION MANAGE	MENT (2/3 u	nits)	
32	CE 3020 or CE 3022			1/3
33	CE 3025 Project Evaluation			1/3
BUILE	DING MECHANICAL SYSTEMS (2/3 units	s)		
34	AREN 3003 Principles of HVAC			1/3
	Design			1/3
35	FP 3080 or AREN 3026			1/3
BUILI	DING STRUCTURAL ENGINEERING (3/3	3 units)		
Select	t three of the following: CE 2000, 2001, 20	02, 3041		
36				1/3
37				1/3
38				
BUILI	DING ELECTRICAL SYSTEMS (2/3 units))		
39	AREN 2025 Building Electrical			1/3
	Systems			1/3
40	AREN 3005 Lighting Systems			1/3
	GN FOCUS ON THE MECHANICAL ARE	` ,		
Select	t two of the following: AREN 3006, AREN	3025, ES 300)5, FPE 30	070
41				1/3
42				1/3

45 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

1/3

1/3

MAJOR QUALIFYING PROJECT (1 unit)

(Note 4) 43

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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.