## ARCHITECTURAL ENGINEERING MAJOR – Focus on the Mechanical Area Program Tracking Sheet Based on AY 2014-15 Degree Requirements and Course Offerings

Name:				Class Year:
Advisor:				2 <sup>nd</sup> Major:
NOTES: Minimum total acaden	nic credit = 15 1/3 units			CHEMIST
	n. of 8 units must be comp	leted at WP	I	25 CH
HUMANITIES AND ARTS REC	QUIREMENT (2 units)			MATH AN
Depth Component				Including
Students must complete at leas				26
the culminating Inquiry Semina least one of the three courses s			ea. At	27
Course	Term	Grade	Units	
1	101111	Oludo	1/3	ARCHITE
2			1/3	AROTHIE
3			1/3	28 AR
4 HU 3900 or HU 3910			1/3	29 ARE
Breadth Component	1		•	30 ARE
Students must take at least one				<u> </u>
complete their depth componer	nt. To identify breadth, cou	rses are gro	ouped in	
the following manner.				<u>ENGINEE</u>
i. art/art history, drama/theatre		MU);		(Notes 2,
ii. foreign languages (SP, GN,				
iii. literature and writing rhetoric iv. history and international stud				GENERA
v. philosophy and religion (PY,				31 ARI
Exception: May take all six cou				32 ES
5	1909 III a foreigh language		1/3	CONSTR 33 CE
Humanities Elective	I	I	.,,,	34 CE
6			1/3	BUILDIN
PHYSICAL EDUCATION (4 PE	E classes = 1/3 unit)	<b>I</b>		35 ARI
,			1/12	36 ARI
7			1/12	BUILDIN
1			1/12	Select thr
			1/12	37
SOCIAL SCIENCE (2/3 unit) E	CON, ENV, GOV, PSY, SI	D, SOC, SS	, STS	38
and ID2050				39
8			1/3	BUILDIN
9			1/3	40 ARI
THE INTERACTIVE QUALIFY	ING PROJECT (1 unit)			41 ARI
10			1/3	DESIGN
11			1/3	Select two
12			1/3	42
FREE ELECTIVES (1 unit)				43
13			1/3	MAJOR (
14			1/3	(Note 4)
15			1/3	44
MATUEMATION AND DACIO	2015NO50 (4!t-)			45 46
MATHEMATICS AND BASIC S	OCIENCES (4 UNITS)			40
MATHEMATICS (7/3 unit) Cou	rses with prefix: MA			Note 1: C
16 MA 1021 (Calc 1)			1/3	Elective,
17 MA 1022 (Calc 2)			1/3	other app
18 MA 1023 (Calc 3)			1/3	outor app

18 | MA 1023 (Calc 3)

19 MA 1024 (Calc 4)

20 MA 2051 (Diff Eqs)

21 MA 2611 (Applied Stats I)

23 PH 1110/1111 (Mechanics)

24 PH 1120/1121 (E&M)

22 MA 2621 (Probability for Applications)

PHYSICS (2/3 unit) Courses with prefix: PH

CHE	MISTRY	(1/3 unit)	Course with prefix: CH			
25	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)

morading 1/0 drift in morniodynamico (recto 1)				
26				1/3
27				1/3

## ARCHITECTURAL ENGINEERING COMPLEMENTS (1 unit)

28	AR 2114 Mod Arch in the American Era	1/3
29	AREN 3001 Arch Graphics and Design	1/3
30	AREN 3002 Architectural Design	1/3

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

GENERAL ARCHITECTUAL ENGINEERING (2/3 units)

GEN	IERAL ARCHITECTUAL ENGINEERING (2	./3 um(s)		
31	AREN 2023 Intro to Arch Eng Systems		1/3	
32	ES 3004 Fluids Mechanics		1/3	
CON	ISTRUCTION/CONSTRUCTION MANAGE	<b>MENT</b> (2/3 un	its)	
33	CE 3020 or CE 3022		1/3	
34	CE 3025 Project Evaluation		1/3	
BUII	LDING MECHANICAL SYSTEMS (2/3 units	)		
35	AREN 3003 Principles of HVAC Design		1/3	
36	AREN 3024 or AREN 3026		1/3	
	LDING STRUCTURAL ENGINEERING (3/3			
Sele	ct three of the following: CE 2000, 2001, 200	02, 3041		
37			1/3	
38			1/3	
39				
BUI	LDING ELECTRICAL SYSTEMS (2/3 units)			
40	AREN 2025 Building Electrical Systems		1/3	
41	AREN 3005 Lighting Systems		1/3	
	DESIGN FOCUS ON THE MECHANICAL AREA (2/3 units)			
Sele	ct two of the following: AREN 3006, AREN 3	3025, ES 3005	, FPE 3070	
42			1/3	
43			1/3	
MA	IOR QUALIFYING PROJECT (1 unit)			
(Not	e 4)			
44			1/3	
45			1/3	
46			1/3	

Note 2: Must include 1/3 unit in Experimentation (fulfilled by AREN 3003, 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

1/3

1/3

1/3

1/3

1/3

1/3

Note 1: Can be satisfied with CH 3510 as a Mathematics and Basic Science
Elective, or ES 3001, Introduction to Thermodynamics as a Free Elective, or
other approved equivalent course.