## MECHANICAL ENGINEERING MAJOR Program Tracking Sheet Based on AY 2016-17 Degree Requirements and Course Offerings

Name:				Class Year:					
Advisor:				2 <sup>nd</sup> Major:					
Advisor:				Z <sup>riu</sup> IVIč	ajor:				
NOTES: Minimum total academic credit = 15 units				23				1/3	
Residency Req.: Min. of 8 units must be completed at WPI HUMANITIES AND ARTS REQUIREMENT (2 units)				СТІ	IDENT CELECTED COL	IDCEC (4/2!4)			
All 5 HUA courses must be completed before		e Inquiry S	eminar		JDENT SELECTED COL m the general category o		or Dacic Scion	100	
or Practicum.				24	in the general category o	i Mathematics and/t	JI Dasic Scien	1/3	
Depth Component				25				1/3	
Students must complete at least three thematically-related courses prior to				26				1/3	
the culminating Inquiry Seminar or Practicum in the same thematic area. At				27				1/3	
least one of the three courses should be at the	_	or above.							
Course	Term	Grade	Units	ENG	GINEERING SCIENCE A	AND DESIGN REQU	JIREMENT (6	<u>units)</u>	
1			1/3		(Notes 1,2)				
2			1/3		CHANICAL SYSTEMS (				
3			1/3	28				1/3	
4 HU 3900 or HU 3910			1/3	29				1/3	
Breadth Component	or Education to Byttamine of						1/3		
Students must take at least one course outside the grouping in which they complete their depth component. To identify breadth, courses are grouped in (Note 3)									
the following manner.					(Note 3) 31 ES 3001 Intro to Thermodynamics 1/3				
i. art/art history, drama/theatre, and music (AR, EN/TH, MU);			31	ES 3001 Intro to Thermodynamics ES 3004 Fluid Mechanics			1/3		
ii. foreign languages (AB, CN, EN, GN, SP);					33 ES 3003 Heat Transfer			1/3	
iii. literature and writing rhetoric (EN, WR, RH);					OTHER COURSES (3/3 unit)				
iv. history and international studies (HI, HU, I	NTL);				te 4)	.)			
v. philosophy and religion (PY, RE).				34	ES 2001 Intro to Mater	rial Science		1/3	
Exception: May take all six courses in a forei	gn language	1		35	ECE 2010 Intro to ECE			1/3	
5			1/3	36	ME 3901 Engineering			1/3	
Humanities Elective	1	1	1/0	MA	JOR QUALIFYING PRO		•		
PHYSICAL EDUCATION (4 PE classes = 1/	2 upit)		1/3	37				1/3	
PHYSICAL EDUCATION (4 PE classes = 1/	3 uriii)		1/12	38				1/3	
			1/12	39				1/3	
7			1/12		ELECTIVES (6/3 unit)				
At least one unit must be chosen in ME courses at the 4000-level o							evel or higher,		
SOCIAL SCIENCE (2/3 unit) ECON, ENV, G	OV, PSY, SD	, SOC, SS			PE 520, 521, 553.			1/2	
and ID2050	, , ,	, ,	,	40				1/3	
8			1/3	42				1/3	
9			1/3	43				1/3	
THE INTERACTIVE QUALIFYING PROJEC	T (1 unit)			44				1/3	
10			1/3	45				1/3	
11			1/3		l		ı	1	
12			1/3	OTI	HER ACTIVITIES				
FREE ELECTIVES (1 unit)				Acti		Course Number		orograms must	
13			1/3		ear Algebra			ctivity in each	
14			1/3		tistics			ory. (See "Other	
15			1/3		chanical System Design			the Mechanical	
MATHEMATICS AND DACIO COIENCE DECLUDENTENT /4					ermal System Design			Program Chart	
MATHEMATICS AND BASIC SCIENCE REQUIREMENT (4 units) MATHEMATICS (5/3 units)					Rodinzation			in Undergraduate Catalog for applicable courses.)	
Must include Differential & Integral Calculus and Ordinary Differential					ostone Design		roi applicabl	ic courses.)	
Equations	ana Oramaty	PIIICIEIIIIAI			. 4 4	1			
16 MA 1021 Calculus I			1/3		e 1 cont.: Courses used				
47 144 4000 0 1 1 11	+		1/0	cou	nted". They can be used	to simultaneously s	atisfy the mec	nanical	

1/3

1/3

1/3

1/3

1/3

1/3

17 MA 1022 Calculus II

18 MA 1023 Calculus III

19 MA 1024 Calculus IV

SCIENCE (3/3 unit)

21

22

20 MA 2051 Ordinary Differential Equations

One Chemistry and two Physics, OR one Physics and two Chemistry

Note 2: Elective courses from other engineering disciplines can also be selected at the 2000, 3000 or 4000 levels. Note 3: ES 3001 can be replaced by CH 3510 or PH Thermodynamics. If CH or PH is used to cover thermodynamics, this course counts as a science;

engineering, mathematics and basic science, and free elective requirements.

another engineering elective is then required.

Note 4: ECE 2010 or any ECE course other than ECE 1799.