MECHANICAL ENGINEERING MAJOR

					racking Sheet s entering AY 2020-2021	
Nan	ne:				Class Year:	
Adv	sor:				2 nd Major:	
HUI	<u>TES</u> : Minimum total academic credit = 15 Residency Req.: Min. of 8 units must MANITIES AND ARTS (2 units) HUA courses must be completed before	st be complete		Seminar	SCIENCE (3/3 unit) One Chemistry and two Physics, OR one Physics 22 23	3 (
Dep Stud	racticum. th Component lents must complete at least three thema culminating Inquiry Seminar or Practicum				STUDENT SELECTED COURSES (2/3 unit) From the general category of Mathematics and/o	r
	t one of the three courses should be at the Course			Units	26 ENGINEERING SCIENCE AND DESIGN (6 1/3)	_
1				1/3	MECHANICAL SYSTEMS (4/3 unit)	
2				1/3	27 ES 2501 Intro to Static Systems	
3				1/3	28 ES 2502 Stress Analysis	
4	HU 3900 or HU 3910			1/3	29 ES 2503 Intro to Dynamic Systems	
	adth Component				30 ME 4320/4322/4810	
	lents must take at least one course outside				THERMAL SYSTEMS (4/3 unit)	
	plete their depth component. To identify	oreadth, cours	ses are gr	ouped in	31 ES 3001 Intro to Thermodynamics	
	following manner. rt/art history, drama/theatre, and music (A	ND ENI/TH M	11\.		32 ES 3004 Fluid Mechanics	
	preign languages (AB, CN, EN, GN, SP);	AK, ⊑IN/ I □, IVI	U),		33 ES 3003 Heat Transfer	
	rerature and writing rhetoric (EN, WR, RF	I)·			34 ME 4422/ME 4429	
	istory and international studies (HI, HU, I				OTHER COURSES (4/3 unit)	
	hilosophy and religion (PY, RE).	1 1 = <i>j</i> ,			35 ES 2001 Intro to Material Science	
	eption: May take all six courses in a foreign	an language			36 ECE 2010 Intro to ECE	
5	,			1/3	37 ME 3901 Engineering Experimentation	
_	nanities Elective	1	1		38 Programming (ME 2312/ ME 4512/ BME	
6				1/3	1004/ CS 1101 or CS 1004	_
_	SICAL EDUCATION (4 DE classes = 1/		-		MAJOR QUALIFYING PROJECT (3/3 unit)	

1/12

Ö			1/3
PHY	SICAL EDUCATION (4 PE classes = 1/3	unit)	
			1/12
7			1/12
l ′			1/12

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

8			1/3			
9			1/3			
THE INTERACTIVE QUALIFYING PROJECT (1 unit)						
10			1/3			
11			1/3			
12			1/3			
FRE	FREE ELECTIVES (1 unit)					

13				1/3		
14				1/3		
15				1/3		

MATHEMATICS AND BASIC SCIENCE (3 2/3 units)

MATHEMATICS (6/3 units)

Must include Differential & Integral Calculus and Ordinary Differential Equations

	quations				
16	MA 1021 Calculus I		1/3		
17	MA 1022 Calculus II		1/3		
18	MA 1023 Calculus III		1/3		
19	MA 1024 Calculus IV		1/3		
20	MA 2051 Ordinary Differential Equations		1/3		
21	MA 2071 Linear Algebra				

and two Chemistry

22		1/3
23		1/3
24		1/3

Basic Science

	The state of the s						
25			1/3				
26			1/3				

its)

27	ES 2501 Intro to Static Systems			1/3	
28	ES 2502 Stress Analysis			1/3	
29	ES 2503 Intro to Dynamic Systems			1/3	
30	ME 4320/4322/4810				

IND	THERMAL STSTEMS (4/3 unit)					
31	ES 3001 Intro to Thermodynamics			1/3		
32	ES 3004 Fluid Mechanics			1/3		
33	ES 3003 Heat Transfer			1/3		
34	ME 4422/ME 4429					

35	ES 2001 Intro to Material Science		1/3
36	ECE 2010 Intro to ECE		1/3
37	ME 3901 Engineering Experimentation		1/3
38	Programming (ME 2312/ ME 4512/ BME		1/3
	1004/ CS 1101 or CS 1004		

39		1/3
40		1/3
41		1/3

ELECTIVES (4/3 unit)

Note 1: Elective courses from engineering disciplines may be selected at the 2000 or higher level. They may also include ES and ME courses at the 1000 level.

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42			1/3
43			1/3
44			1/3
45			1/3

Note 2: ES 3001 can be replaced by CH 3510 or PH 2101. If CH or PH is used to cover thermodynamics, this course counts as a science; another engineering elective is then required.

Note 3: ECE 2010 or any ECE course other than ECE 1799.