

The addition or removal of any graduation requirement in a major or minor requires that this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE of Engineering DEPARTMENT Mechanical & Aerospace Engineering

DEGREE LEVEL BS PROGRAM TITLE Mechanical Engineering

TO BE INITIATED WITH CATALOG YEAR 2008 / 2009 CHANGE REQUESTED FOR  major program  minor program

BRIEF DESCRIPTION OF REQUESTED CHANGES *Attach a more detailed description and any supporting documentation*

CHANGE:  
 The change involves switching the order in which MAE 3024 and 3090 appear in the ME undergraduate curriculum. MAE 3024 will move to the SPRING and 3090 to FALL of the student's junior year.

JUSTIFICATION:  
 No prerequisites are affected. Topics such as advanced stress analysis, material failure and fatigue (MAE 3090) should be covered before entering starting computer-aided design and engineering (MAE 3024).

APPROVALS: On completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee, for approval below and forward to the Office of the Registrar

[Signature] 9/22/06  
 Originator Date Chair, Graduate Council Date

Paavo Sepri 10/3/06 OR  
 Department Head / Major Program Chair Date

\_\_\_\_\_  
 Department Head / Minor Program Chair Date Chair, Undergraduate Curriculum Committee Date

\_\_\_\_\_  
 Dean or Associate Dean Date

REGISTRAR'S USE ONLY

Operator Init \_\_\_\_\_ Date \_\_\_\_\_ Changes Made for Catalog Year \_\_\_\_\_  
 Catalog Director Date

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**UNDERGRADUATE CURRICULUM FOR MECHANICAL ENGINEERING**

MAJOR CODE: 7131

CATALOG YEAR: 2006-2007

STUDENT NAME \_\_\_\_\_

STUDENT NUMBER \_\_\_\_\_

ADVISOR SIGNATURE \_\_\_\_\_

DEPARTMENT HEAD SIGNATURE \_\_\_\_\_

#	COURSE	CR	GRADE
A	ASC 1000 UNIVERSITY EXPERIENCE	1	
B	CHM 1100 INTRODUCTION TO CHEMISTRY	3	
C	COM 0110 BASIC WRITING SKILLS	3	
D	MTH 1000 PRECALCULUS	3	
E	MTH 1801 TRIGONOMETRY REVIEW	1	
T	TEST		

#	PRE-REQ	COURSE	CO-REQ	CR	GRADE	COMMENTS
<b>FRESHMAN YEAR - FALL SEMESTER</b>						
1		CHM 1101 GENERAL CHEMISTRY 1		4		
2	C or T	COM 1101 COMPOSITION & RHETORIC		3		
3		MAE 1024 INTRO TO MECHANICAL ENG		3		
4	D or T	MTH 1001 CALCULUS 1		4		
5		SOCIAL SCIENCE ELECTIVE		3		
<b>FRESHMAN YEAR - SPRING SEMESTER</b>						
6	2	COM 1102 WRITING ABOUT LITERATURE		3		
7		CSE 150X INTRO TO SOFTWARE DEV		3		
8	4	MTH 1002 CALCULUS 2		4		
9	4	PHY 1001 PHYSICS 1	8	4		
10		PHY 2091 PHYSICS LABORATORY 1	9	1		

TOTAL: 32

<b>SOPHOMORE YEAR - FALL SEMESTER</b>						
11	1,8,9	CHE 3260 MATERIALS SCIENCE & ENG		3		
12	10	CHE 3265 MATERIALS LABORATORY	11	1		
13	6	COM 2223 SCI & TECH COMMUNICATION		3		
14	9	MAE 2081 APPLIED MECHANICS: STATICS	15	3		
15	8	MTH 2001 CALCULUS 3		4		
16	9	PHY 2002 PHYSICS 2		4		
<b>SOPHOMORE YEAR - SPRING SEMESTER</b>						
17		MAE 2024 SOLID MOD & 3-D MECH DESIGN	19	3		
18	14	MAE 2082 APPLIED MECHANICS: DYNAMICS		3		
19	14	MAE 3083 MECHANICS OF MATERIALS		3		
20	1	MAE 3191 ENGINEERING THERMODYNAMICS 1	15,16	3		
21	8	MTH 2201 DIF EQUATIONS/LINEAR ALGEBRA		4		
22	10	PHY 2092 PHYSICS LABORATORY 2	16	1		

TOTAL: 35

#	PRE-REQ	COURSE	CO-REQ	CR	GRADE	COMMENTS
<b>JUNIOR YEAR – FALL SEMESTER</b>						
23	6	HUM 2051 CIVILIZATION 1		3		
24	11,17,18	MAE 3024 COMPUTER-AIDED ENGINEERING		3		
25	16,18,20,21	MAE 3061 FLUID MECHANICS 1		3		
26	16,18,20,21,22	MAE 3064 FLUID MECHANICS LABORATORY		1		
27	20	MAE 3192 ENG THERMODYNAMICS 2		3		
28	15,21	MTH 3201 BOUNDARY VALUE PROBLEMS		3		
<b>JUNIOR YEAR – SPRING SEMESTER</b>						
29	6	HUM 2052 CIVILIZATION 2		3		
30	11,12,19	MAE 3090 DESIGN OF MACHINE ELEMENTS		3		
31	18,21	MAE 3091 THEORY OF MACHINES		3		
32	25,28	MAE 4171 PRINCIPLES OF HEAT TRANSFER		3		
33	13, JR STANDING	MAE 4190 DSGN METHODOLOGIES & PRACTICE		1		
34		RESTRICTED ELECTIVE *		3		

TOTAL: 32

<b>SENIOR YEAR – FALL SEMESTER</b>						
35	15,16	ECE 4991 ELECTRIC CIRCUITS		3		
36	18,19,28	MAE 4024 MECHANICAL VIBRATIONS		3		
37	32	MAE 4071 THERMAL SYSTEMS DESIGN		3		
38	32	MAE 4074 HEAT TRANSFER LABORATORY		1		
39	33, SR STANDING	MAE 4193 MECHANICAL ENG DESIGN 1		3		
40		TECHNICAL ELECTIVE *		3		
<b>SENIOR YEAR – SPRING SEMESTER</b>						
41	21,35	MAE 4014 CONTROL SYSTEMS		3		
42	25,27,32	MAE 4175 HEATING, VENTILATION & A/C		3		
43	39	MAE 4194 MECHANICAL ENG DESIGN 2		4		
44		HUMANITIES ELECTIVE		3		
45		FREE ELECTIVE		3		

TOTAL: 32

GRAND TOTAL: 131 CREDIT HOURS

\* Refer to the listing available from the Mechanical & Aerospace Engineering Department.

EXTRA COURSES: