TO: UNDERGRADUATE CURRICULUM COMMITTEE
FROM: MARK ARCHAMBAULT
THROUGH: HAMID HEFAZI; EDWARD KALAJIAN
SUBJECT: PRE/COREQUISITE CHANGES ON MAE COURSES
DATE: AUGUST 23, 2013

It is proposed to make the following changes to the listed Mechanical and Aerospace Engineering courses for the reasons provided:

• MAE 3064: Remove MAE 3061 as a prerequisite
  MAE 3061 was replaced by MAE 3161 in May 2006 and is no longer offered.

• MAE 3161: Remove MAE 3191, MAE 2082, and MTH 2201 as prerequisites. Add MAE 2082 and MTH 2201 as corequisites and MTH 2001 as prerequisite.
  The purpose of these changes is to make it easier for students to take MAE 3161 on time. Since MAE 3161 is a prerequisite to a number of upper-division AE courses, failure to take it in a timely manner frequently results in delayed graduation. Removal of MAE 3191 as a prerequisite is justified since MAE 3161’s topics can be taught without resort to the material in MAE 3191. Changing MAE 2082 and MTH 2201 from prerequisites to corequisites permits students who placed into Precalculus (and for whatever reason, have not caught up) to still take MAE 3161 on time. The material in MTH 2001 is required, and was already in the prerequisite stream via MAE 3191. Since MAE 3191 is being removed, MTH 2001 is now an explicit prerequisite. Note that MAE 2082, MTH 2001, and MTH 2201 are still scheduled before MAE 3161 in the ME and AE programs. The department will work with the Registration Center to ensure that students who have already taken the “corequisite” courses will still be able to properly register online.

• MAE 3241: Remove MAE 3061 and MAE 3062 as prerequisites
  MAE 3061 and MAE 3062 were replaced by MAE 3161 and MAE 3162, respectively, in May 2006 and are no longer offered.

• MAE 3260: Remove MAE 3061 as a prerequisite
  MAE 3061 was replaced by MAE 3161 in May 2006 and is no longer offered.

• MAE 3162: Add MAE 3191 as a prerequisite
  The current prerequisite for MAE 3162 is MAE 3161. MAE 3191 is being removed as a prerequisite from MAE 3161, but its material is required for MAE 3162 and follow-on courses.

• MAE 4242: Remove MAE 3161 and MAE 4014 as prerequisites. Add MAE 3241 as a prerequisite.
  A new instructor has taken over this course, and according to his expertise and how he plans to teach the course, MAE 3241 would serve as a better prerequisite than MAE 3161 (which is encompassed by MAE 3241). MAE 4014 is no longer needed since MAE 4242 does not substantially cover electronic controls, but focuses more on aerodynamic control.

• MAE 4261: Remove MAE 3062 as a prerequisite.
  MAE 3062 was replaced by MAE 3162 in May 2006 and is no longer offered.

• MAE 4262: Remove MAE 3062 as a prerequisite.
  MAE 3062 was replaced by MAE 3162 in May 2006 and is no longer offered.
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CHANGING RESTRICTIONS
OR CREDITS IN A COURSE

The addition or removal of any restriction or change in credit hours in a course requires that this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: Engineering
DEPARTMENT: Mechanical & Aerospace

REQUEST IS FOR CHANGE IN COURSE M A E 3 0 6 4 Fluid Mechanics Laboratory

Prefix Number Course Title

TO BE INCLUDED IN 20 1 4 / 20 1 5 CATALOG AND EFFECTIVE IN THE BANNER SYSTEM FOR Spring 2014 TERM

Effective term must be a future term for which registration has not begun. Catalog year will be the next printed edition. Earlier terms/years will not be processed.

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☐ Yes ☑ No If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☑ Yes ☐ No If yes, please check all that apply:

☐ Add ☐ Remove ☐ Prerequisite ☑ Corequisite M A E 3 0 6 1 Prefix Number

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite Prefix Number

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite Prefix Number

☐ Add ☐ Remove ☐ Other Restrictions* ☐ Yes ☐ No If yes, please list below:

*Other restrictions may include changing the grades applied to the course (AC, BC), majors or class levels restricted from registration, or other restrictions.

APPROVALS: Once appropriate department approvals are completed, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for signatures below and forward to Catalog Director.

1) Signatures
Date
Chair, Graduate Council

2) Date
Chair, Undergraduate Curriculum Committee

3) Date

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COLLEGE: Engineering

DEPARTMENT: Mechanical & Aerospace

REQUEST IS FOR CHANGE IN COURSE

Prefix Number

Fluid Mechanics

TO BE INCLUDED IN 2014 / 2015 CATALOG AND EFFECTIVE IN THE BANNER SYSTEM FOR Spring 2014 TERM

Effective term must be a future term for which registration has not begun. Catalog year will be the next printed edition. Earlier terms/years will not be processed.

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☐ Yes ☒ No If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☐ Yes ☒ No If yes, please check all that apply:

☐ Add ☒ Remove ☒ Prerequisite ☐ Corequisite

Prefix Number

M A E 3 1 9 1 and or

☐ Add ☒ Remove ☒ Prerequisite ☐ Corequisite

Prefix Number

M A E 2 0 8 2 and or

☐ Add ☒ Remove ☒ Prerequisite ☐ Corequisite

Prefix Number

M T H 2 2 0 1 and or

☒ Add ☒ Remove ☒ Other Restrictions* ☒ Yes ☐ No If yes, please list below:

*Other restrictions may include changing the grades applied to the course (W, S, U, A-F, CEU), majors or class levels restricted from registration, or other restrictions.

Add Prerequisite MTH 2001 AND

Add Corequisite MTH 2201 AND

Add Corequisite MAE 2082

APPROVALS: Once appropriate department approvals are completed, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for signatures below and forward to Catalog Director.

1) Originator Date

Chair, Graduate Council Date

2) Department Head/Program Chair Date

OR

Chair, Undergraduate Curriculum Committee Date

3) Dean or Associate Dean Date

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ROR-MF311
The addition or removal of any restriction or change in credit hours in a course requires that this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: Engineering

DEPARTMENT: Mechanical & Aerospace Engineering

REQUEST IS FOR CHANGE IN COURSE: M A E 3 2 4 1

Aerodynamics and Flight Mechanics

Prefix

Number

Course Title

TO BE INCLUDED IN 20 1 4 / 20 1 5 CATALOG AND EFFECTIVE IN THE BANNER SYSTEM FOR Spring 2014 TERM

Effective term must be a future term for which registration has not begun. Catalog year will be the next published edition. Earlier terms/years will not be processed.

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? □ Yes ☒ No If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☒ Yes □ No If yes, please check all that apply:

☐ Add ☒ Remove ☒ Prerequisite ☐ Corequisite M A E 3 0 6 1 ☐ and ☐ or

☐ Add ☒ Remove ☐ Prerequisite ☒ Corequisite M A E 3 0 6 2 ☐ and ☐ or

☐ Add ☒ Remove ☐ Prerequisite ☒ Corequisite ☐ and ☐ or

☐ Add ☒ Remove ☐ Other Restrictions* ☐ Yes ☐ No If yes, please list below:

*Other restrictions may include changing the grades applied to the course (HF, SC), A-F, CR/PU, majors or class levels restricted from registration, or other restrictions.

APPROVALS: Once appropriate department approvals are completed, submit this form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for signatures below and forward to Catalog Director.

1) Original

Date: 8/23/13

Chair, Graduate Council

Date

2) Department Head/Program Chair

Date: 8/23/13

OR

3) Dean of Associate Dean

Date: 8/23/13

Chair, Undergraduate Curriculum Committee

Date

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The addition or removal of any restriction or change in credit hours in a course requires that this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: Engineering

DEPARTMENT: Mechanical & Aerospace Engineering

REQUEST IS FOR CHANGE IN COURSE

Prefix: 3 2 6 0

Number: Experimental Aerodynamics

COURSE TITLE

TO BE INCLUDED IN 2014 CATALOG AND EFFECTIVE IN THE BANNER SYSTEM FOR SPRING 2014 TERM

Effective term must be a future term for which registration has not begun. Catalog year will be the next printed edition. Earlier terms/years will not be processed.

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? □ Yes X No

If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? X Yes □ No

If yes, please check all that apply:

□ Add □ Remove  X Prerequisite □ Corequisite

Prefix: 3 0 6 1

Number: □ and □ or

□ Add □ Remove □ Prerequisite □ Corequisite

Prefix: □ and □ or

□ Add □ Remove □ Prerequisite □ Corequisite

Prefix: □ and □ or

□ Add □ Remove □ Other Restrictions* □ Yes □ No

If yes, please list below:

*Other restrictions may include changing the grades applied to the course (PF, SF, A-F, CEU), majors or class levels restricted from registration, or other restrictions.

APPROVALS: Once appropriate department approvals are completed, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for signatures below and forward to Catalog Director.

1) Mark A. McManus

Date: 8/31/13

Chair, Graduate Council

Date:

2) Department Head/Program Chair

Date: 8/28/13

OR

3) Dean or Associate Dean

Date: 9/23/13

Chair, Undergraduate Curriculum Committee

Date:

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CHANGING RESTRICTIONS
OR CREDITS IN A COURSE

The addition or removal of any restriction or change in credit hours in a course requires that this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: Engineering

DEPARTMENT: Mechanical & Aerospace Engineering

REQUEST IS FOR CHANGE IN COURSE: MASE 3162

Compressible Flow

Prefix: MASE

Number: 3162

Course Title: Compressible Flow

TO BE INCLUDED IN 2014/2015 CATALOG AND EFFECTIVE IN THE BANNER SYSTEM FOR Spring 2014 TERM

Effective term must be a future term for which registration has not begun. Catalog year will be the next printed edition. Earlier terms/years will not be processed.

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? □ Yes □ No

If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? □ Yes □ No

If yes, please check all that apply:

[ ] Add □ Remove [ ] Prerequisite □ Corequisite Prefix: MASE

Number: 3191

□ and □ or

□ Add □ Remove □ Prerequisite □ Corequisite Prefix: MASE

Number: 3191

□ and □ or

□ Add □ Remove □ Prerequisite □ Corequisite Prefix: MASE

Number: 3191

□ and □ or

□ Add □ Remove □ Other Restrictions* □ Yes □ No

If yes, please list below:

[ ] Other restrictions may include changing the grades applied to the course (PY, SA, A-F, CEU), majors or class levels restricted from registration, or other restrictions.

APPROVALS: Once appropriate department approvals are completed, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for signatures below and forward to Catalog Director.

1) Originator

Date

Chair, Graduate Council

Date

2) Department Head/Program Chair

Date

OR

3) Dean or Associate Dean

Date

Chair, Undergraduate Curriculum Committee

Date

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RSR-MP-TH
The addition or removal of any restriction or change in credit hours in a course requires that this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: Engineering
DEPARTMENT: Mechanical & Aerospace Engineering

REQUEST IS FOR CHANGE IN COURSE: M A E 4 2 4 2 Aircraft Stability and Control

TO BE INCLUDED IN 20_14 / 20_15 CATALOG AND EFFECTIVE IN THE BANNER SYSTEM FOR Spring 2014 TERM

Effective term must be a future term for which registration has not begun. Catalog year will be the next printed edition. Earlier terms/years will not be processed.

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☐ Yes ☒ No If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☐ Yes ☒ No If yes, please check all that apply:

☐ Add ☒ Remove ☒ Prerequisite ☐ Corequisite M A E 3 1 6 1 and ☐ or

☐ Add ☐ Remove ☒ Prerequisite ☐ Corequisite M A E 4 0 1 4 and ☐ or

☒ Add ☒ Remove ☒ Prerequisite ☐ Corequisite M A E 3 2 4 1 and ☐ or

☐ Add ☐ Remove ☐ Other Restrictions* ☐ Yes ☒ No If yes, please list below:

*Other restrictions may include changing the grades applied to the course (P/F, S/A, A-E, CR/D), majors or class levels restricted from registration, or other restrictions.

APPROVALS: Once appropriate department approvals are completed, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for signatures below and forward to Catalog Director.

1) [Signature]
Date 8/23/13
Chair, Graduate Council
Date

2) [Signature]
Date 8/23/13
Chair, Undergraduate Curriculum Committee
Date

3) [Signature]
Date
Chair, Academic Dean

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The addition or removal of any restriction or change in credit hours in a course requires that this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: Engineering
DEPARTMENT: Mechanical & Aerospace Engineering

REQUEST IS FOR CHANGE IN COURSE: M A E 4 2 6 1 Air-Breathing Engines

Prefix Number

TO BE INCLUDED IN 20_14_15 CATALOG AND EFFECTIVE IN THE BANNER SYSTEM FOR Spring 2014 TERM
Effective term must be a future term for which registration has not begun. Catalog year will be the next printed edition. Earlier terms/years will not be processed.

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? Yes No
If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? Yes No
If yes, please check all that apply:

☐ Add ☐ Remove ☒ Prerequisite ☐ Corequisite M A E 3 0 6 2 ☐ and ☐ or

Prefix Number

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite ☐ and ☐ or

Prefix Number

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite ☐ and ☐ or

Prefix Number

☐ Add ☐ Remove ☐ Other Restrictions* Yes No If yes, please list below:
*Other restrictions may include changing the grades applied to the course (B/F, S/A), A-F, C/EU), majors or class levels restricted from registration, or other restrictions.

APPROVALS: Once appropriate department approvals are completed, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for signatures below and forward to Catalog Director.

1) [Signature]
[Date: 8/23/31]

Chair, Graduate Council Date

2) [Signature]
[Date: 8/23/45]

OR

3) [Signature]
[Date: 8/27/3]

Chair, Undergraduate Curriculum Committee Date

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The addition or removal of any restriction or change in credit hours in a course requires that this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: Engineering
DEPARTMENT: Mechanical & Aerospace Engineering

REQUEST IS FOR CHANGE IN COURSE: M A E 4 2 6 2
Prefix: Number: Rockets & Mission Analysis: Course Title

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IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☐ Yes ☑ No If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☑ Yes ☐ No If yes, please check all that apply:
☐ Add ☑ Remove ☐ Prerequisite ☐ Corequisite M A E 3 0 6 2 ☐ and ☐ or

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite ☐ and ☐ or

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite ☐ and ☐ or

☐ Add ☐ Remove ☐ Other Restrictions* ☐ Yes ☐ No If yes, please list below:
*Other restrictions may include changing the grades applied to the course (P/F, S/A, A-F, CEU), majors or class levels restricted from registration, or other restrictions.

APPROVALS: Once appropriate department approvals are completed, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for signatures below and forward to Catalog Director.

1) [Signature] 8/23/13
Original Date Chair, Graduate Council Date

2) [Signature] 8/4/13
Department Head/Program Chair Date OR

3) [Signature] 8/27/13
Dean or Associate Dean Date Chair, Undergraduate Curriculum Committee Date

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