INTEROFFICE MEMORANDUM

TO: COLLEGE OF ENGINEERING ACADEMIC COUNCIL, UNDERGRADUATE CURRICULUM COMMITTEE
FROM: PAAVO SEPRI
SUBJECT: REVISIONS TO AEROSPACE ENGINEERING CURRICULUM
DATE: 3/9/2006
CC:

New Courses:

Two new courses are proposed to replace existing courses. The primary purpose is to change the names of the existing course “Fluid Mechanics 2” to “Compressible Flows.” Details follow:

1) MAE 3162, “Compressible Flows.” This course will replace the existing course MAE 3062, Fluid Mechanics 2. The purpose is to change the name of the course. The syllabus and course content are unchanged [hence, no copy of the syllabus is included here], and only minor editorial changes are made to the catalog description.
   Justification: The current course title does not accurately describe the content of the course, and is inconsistent with common nomenclature in use by other universities. This presents some difficulties to graduates with respect to evaluation of their transcripts. The new course name also better conveys the aerospace content of the course and may enhance the appearance of the aerospace content of the AE curriculum.

2) MAE 3161, “Fluid Mechanics.” This course will replace the existing course MAE 3061, Fluid Mechanics 1. The purpose is to change the name of the course. The syllabus and course content are unchanged [hence, no copy of the syllabus is included here.] In the newly-created course the prerequisite of PHY 202, Physics 2, is removed because the content of PHY 202 is not relevant to the course (this is also true for MAE 3061).
   Justification: Due to the name change to Fluid Mechanics 2, it no longer makes sense to have a course title “Fluid Mechanics 1.”

Curriculum changes:

The following changes are proposed to the undergraduate Aerospace Engineering curriculum:

1) Reverse the sequence of propulsion courses taken during the senior year. MAE 4262, Rockets and Mission Analysis will be moved to the Fall semester of the senior year, and MAE 4261 will be moved to the Spring semester of the senior year.
   Justification: These courses are offered once per year. Due to the large number of Aerospace Engineering senior design projects involving rocket technology in recent years, it is felt that moving the rocket course to the Fall semester will better prepare students for senior design projects, and lead to better results. [Note that this requires a change in the prerequisite for MAE 4262, as noted below.]

COLLEGE OF ENGINEERING

MAR 14 2006
2) MAE 3061, Fluid Mechanics 1, and MAE 3062, Fluid Mechanics 2 will be replaced in the curriculum by the newly-created courses Fluid Mechanics and Compressible Flows, respectively. 
Justification: See creation of new courses, above.

The following change is proposed to the undergraduate Mechanical Engineering curriculum:

1) MAE 3061, Fluid Mechanics 1 will be replaced in the curriculum by the newly-created courses MAE 3161, Fluid Mechanics.
Justification: See creation of new courses, above.

Prerequisite Changes:

Changes to prerequisites to the following courses are required:

1) MAE 4262, Rockets and Mission Analysis: Replace prerequisite of MAE 4261 with MAE 3162 (or older MAE 3062). Justification: This change is needed to accommodate Aerospace Engineering curriculum change 1 listed above. The content of MAE 4262 does not need to be changed to accommodate this change. It should be noted that in many AE programs, students commonly take either a rockets course or an air-breathing engines course, not both. Associated textbooks therefore do not depend on prerequisite course material, nor in practice has MAE 4262 depended on MAE 4261 as prerequisite material. This change will also allow more flexibility for out-of-sequence students to graduate in a Fall semester.

2) MAE 4291, Aerospace Engineering Design 1:
   a. Delete the co-requisite requirement for MAE 4261
   b. Delete the following prerequisites and corequisites: MAE 4281

Justification: point 2a is required to accommodate Aerospace Engineering curriculum change 1. Point 2b is intended to reduce overkill, and enhance flexibility of scheduling for students.

3) Prerequisites to the following courses must also be changed to reflect the replacement of MAE 3061 and MAE 3062: MAE 3241, MAE 4171, MAE 4175, MAE 4242, MAE 4261.

PS/def
This course is available for student registration only after the approval process has been completed.

<table>
<thead>
<tr>
<th>Subject</th>
<th>MAE</th>
<th>Course No.</th>
<th>3161</th>
<th>Credit Hours</th>
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<th>Term to be added to the file</th>
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<td>Lab Hours</td>
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</table>

**Department:** Mechanical & Aerospace Engineering  
**Schedule Type:** Lecture  
(e.g., Computer Sciences)  
(e.g., Lecture, Lab or Special Project)

**College/School**  
- College of Aeronautics-23  
- College of Psychology and Liberal Arts-25  
- College of Science-26  
- College of Engineering-01  
- University College/SEGS-90

**Computer Title** (limited to 25 spaces, including blanks)  
Fluid Mechanics

**Catalog Title:** Fluid Mechanics

**Catalog Description of Course** (limited to 350 characters, including spaces)  
Introduces fluid variables; fluid statics; flow kinematics; equations of mass, momentum and energy conservation in both integral and differential formulations; similarity and dimensional analysis; the stress tensor; inviscid and viscous flows; flow in pipes, laminar and turbulent flows.

In addition, you may attach a course syllabus and/or more detailed description.

**Restrictions**  
- Prerequisite: MAE 2082  
  (course number)
- Corequisite: MAE 3191  
  (course number)
- Prerequisite: MTH 2201  
  (course number)

**Grades to be issued**  
- A, B, C, D, F  
- S, U  
- P, F  
- Other

**Additional Restrictions**  
(e.g., major, class level, department head approval)

If this course replaces a course currently offered in BANNER, please indicate old course information

<table>
<thead>
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<th>Subject Alpha Prefix (e.g., CSE)</th>
<th>MAE</th>
<th>Course No. (e.g., 1201)</th>
<th>3061</th>
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**APPROVALS**

Upon completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval below and forward to Catalog Coordinator.

<table>
<thead>
<tr>
<th>Originator</th>
<th>3/14/06</th>
<th>Chair, Graduate Council</th>
<th></th>
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<tr>
<td>Date</td>
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<td>Date</td>
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<tr>
<td>Chair, Undergraduate Curriculum Committee</td>
<td>4/12/06</td>
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**CATALOG COORDINATOR**

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RG-154-865
**Florida Institute of Technology**

**ADDING A NEW COURSE TO THE CURRICULUM**

This course is available for student registration only after the approval process has been completed.

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<th>Subject</th>
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<td>University College/SEGS</td>
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<tr>
<th>Computer Title (restricted to 25 spaces, including blanks)</th>
<th>Compressible Flow</th>
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<tr>
<th>Catalog Title</th>
<th>Compressible Flow</th>
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</table>

| Catalog Description of Course (limited to 350 characters, including spaces) | Studies high-speed compressible flow. Extends boundary-layer theory to the compressible case. Also includes normal and oblique shocks; compressible flow in ducts and nozzles; Mach waves; Prandtl-Meyer expansions; method of characteristics; unsteady 1-D flows; and conical flow. |

In addition, you may attach a course syllabus and/or more detailed description.

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<th>Restrictions</th>
<th>Prerequisite MAE 3161</th>
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If this course replaces a course currently offered in BANNER, please indicate old course information.

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**APPROVALS**

Upon completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval below and forward to Catalog Coordinator.

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<td>Chair, Graduate Council</td>
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**CATALOG COORDINATOR**

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150 West University Boulevard, Melbourne, FL 32901-4915 | Phone: 321-266-7100 | Fax: 321-266-7647
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: Engineering  Department: Mechanical & Aerospace Engineering

Degree level: Bachelor  Program title: Aerospace Engineering

To be initiated with catalog year 2006 / 2007  Change requested for  [ ] major program  [ ] minor program

Brief description of requested changes (attach a more detailed description and any supporting documentation)

1) Reverse sequence of propulsion courses taken in the senior year: MAE 4262 will be moved to Fall of Senior Year, and MAE 4261 to Spring of Senior Year

2) Replace MAE 3061 and MAE 3062 with newly-created replacement courses MAE 3161 and MAE 3162, respectively.

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.

Originator:  3/14/06  Date: Chair, Graduate Council:  Date: 

Department Head/ Major Program Chair:  Date:  OR

Department Head/ Minor Program Chair:  Date:  Dean or Associate Dean:  Date:  Chair, Undergraduate Curriculum Committee:  Date: 

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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: Engineering  Department: Mechanical & Aerospace Engineering

Degree level: Bachelor  Program title: Mechanical Engineering

To be initiated with catalog year 2006 / 2007  Change requested for: [ ] major program  [ ] minor program

Brief description of requested changes (attach a more detailed description and any supporting documentation):

Replace MAE 3061 with newly-created replacement course MAE 3161.

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.

David 3/14/06
Originiator  Date  Chair, Graduate Council  Date

Paavo Lapin 3/14/06
Department Head/ Major Program Chair  Date  OR

Department Head/ Minor Program Chair  Date

Dean or Associate Dean 4/12/06  Date  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/School: Engineering  Department: Mechanical & Aerospace Engg

Request is for a change in course MAE 4262, Rockets and Mission Analysis. To be initiated with catalog year 2006-07.

Is request for a change in credits for course listed above? □ yes □ no
If yes, current credits ___________ Requested credit ___________

Is request to change restrictions for courses listed above? □ yes □ no
If yes, please check all that apply:

[Options listed for changes in MAE 4261 and/or MAE 3162 credits and restrictions]

(During transition from MAE 3062 to MAE 3162, prerequisite should allow either MAE 3062 or MAE 3162 to satisfy the prerequisite requirement.)

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.

Originate: [Signature] 3/14/06
Date
Department Head/Program Chair
4/7/06
Date
Dean or Associate Dean
Chair, Graduate Council
4/12/06
Date
OR
Chair, Undergraduate Curriculum Committee

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College/School: Engineering  Department: Mechanical & Aerospace Eng’g

Request is for a change in course MAE 4291, Aerospace Engineering Des. 1 To be initiated with catalog year 2005x/07

Is request for a change in credits for course listed above? □ yes □ no

If yes, current credits __________________ Requested credit __________________

Is request to change restrictions for courses listed above? □ yes □ no

If yes, please check all that apply:

 □ Add □ Remove □ Prerequisite □ co-requisite
 □ Add □ Remove □ Prerequisite □ co-requisite
 □ Add □ Remove □ Prerequisite □ co-requisite
 □ Add □ Remove □ other restrictions (please list)

Acceptance

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.

Originator: __________________ Date: 3/14/06

Chair, Graduate Council: __________________ Date: __________________

Paperwork: __________________ Date: 3/14/06

Dean or Associate Dean: __________________ Date: 4-12-06

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/School: Engineering  Department: Mechanical & Aerospace Eng'g

Request is for a change in course MAE 3241, Aerodynamics and Flight Mech  To be initiated with catalog year 2005/2006

Is request for a change in credits for course listed above?  □ yes  □ no

If yes, current credits: ____________________________  Requested credit: ____________________________

Is request to change restrictions for courses listed above?  □ yes  □ no

If yes, please check all that apply:

☐ Add  ☑ Remove  ☑ Prerequisite  ☐ co-requisite  MAE 3051  and/or

☐ Add  ☐ Remove  ☐ Prerequisite  ☐ co-requisite  MAE 3052  and/or

☐ Add  ☐ Remove  ☐ Prerequisite  ☐ co-requisite  requested credit  and/or

☐ Add  ☐ Remove  ☐ other restrictions (please list)

Add prerequisite MAE 3162

(During transition from MAE 3051 to MAE 3161, and MAE 3062 to MAE 3162, both sets of courses should be permitted to satisfy the requirement.)

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.

Chair, Graduate Council: ____________________________  Date: 3/4/06

Chair, Undergraduate Curriculum Committee: ____________________________  Date: 4/12/06

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SCARRES  Operator initial  Date

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Changing Restrictions/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/School: Engineering
Department: Mechanical & Aerospace Eng'

Request is for a change in course: MAE 4171, Principles of Heat Transfer

To be initiated with catalog year: 06-07

Is request for a change in credits for course listed above? □ yes □ no
If yes, current credit: __________________________ Requested credit: __________________________

Is request to change restrictions for courses listed above? □ yes □ no

If yes, please check all that apply:

□ Add □ Remove □ Prerequisite □ co-requisite □ MAE □ 3061 and/or

□ Add □ Remove □ Prerequisite □ co-requisite □ Subject □ Course Number □ 3161 and/or

□ Add □ Remove □ Prerequisite □ co-requisite □ Subject □ Course Number □ and/or

□ Add □ Remove □ other restrictions (please list)

(During transition from MAE 3061 to MAE 3161, both courses should be permitted to satisfy the requirement.)

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.

[Signatures and dates]

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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/School: Engineering
Department: Mechanical & Aerospace Eng'g

Request is for a change in course: MAE 4175, Heating, Ventilation and... To be initiated with course year 2007.

Is request for a change in credits for course listed above? [ ] yes [ ] no

If yes, current credit: ____________________________ Requested credit: ____________________________

Is request to change restrictions for courses listed above? [ ] yes [ ] no

If yes, please check all that apply:

[ ] Add [ ] Remove [ ] Prerequisite [ ] co-requisite
[ ] Add [ ] Remove [ ] Prerequisite [ ] co-requisite
[ ] Add [ ] Remove [ ] Prerequisite [ ] co-requisite
[ ] Add [ ] Remove [ ] other restrictions (please list)

(During transition from MAE 3061 to MAE 3161, both courses should be permitted to satisfy the requirement.)

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.

Originator: ____________________________ Date: 3/14/06
Chair, Graduate Council: ____________________________ Date: ____________________________

Departmental/Program Chair: ____________________________ Date: ____________________________
Chair, Undergraduate Curriculum Committee: ____________________________ Date: ____________________________

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SCACRSE: ___________ SACDET: ___________ SCAPREQ: ___________ SCABASE: ___________

SCARRES: ____________________________ Operator initial: ____________________________ Date: ____________________________

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RG-29-304
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/School: Engineering
Department: Mechanical & Aerospace Eng'g

Request is for a change in course: MAE 4242, Aircraft Stability and Cont. To be initiated with catalog year 2005-07

Is request for a change in credits for course listed above? ☐ yes ☐ no

If yes, current credits: Requested credit: __________

Is request to change restrictions for courses listed above? ☐ yes ☐ no

If yes, please check all that apply:
☐ Add ☐ Remove ☐ Pre-requisite ☐ co-requisite
☐ Add ☐ Remove ☐ Pre-requisite ☐ co-requisite
☐ Add ☐ Remove ☐ Pre-requisite ☐ co-requisite
☐ Add ☐ Remove ☐ other restrictions (please list)

(During transition from MAE 3061a to MAE 3161, both courses should be permitted to satisfy the requirement.)

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.

Chair, Graduate Council Date
Chair, Undergraduate Curriculum Committee Date

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SCARES Operator Initial 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/School: Engineering
Department: Mechanical & Aerospace Eng'g

Request is for a change in course MAE 4261, Air-Breathing Engines
To be initiated with catalog year 2006/07

Is request for a change in credits for course listed above? □ yes □ no

If yes, current credits ______________________ Requested credit ______________________

Is request to change restrictions for courses listed above? □ yes □ no

If yes, please check all that apply:

☐ Add  ☐ Remove  ☐ Prerequisite  ☐ co-requisite  ☐ MAE 3062 and/or MAE 3162
☐ Add  ☐ Remove  ☐ Prerequisite  ☐ co-requisite  ☐ MAE 3062 and/or MAE 3162
☐ Add  ☐ Remove  ☐ Prerequisite  ☐ co-requisite  ☐ MAE 3062 and/or MAE 3162
☐ Add  ☐ Remove  ☐ other restrictions (please list)

(During transition from MAE 3062 to MAE 3162, both courses should be permitted to satisfy the requirement.)

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.

Originator: [Signature] 3/14/06
Department Chair/Dean: [Signature] 3/14/06
Dean of Associate Dean: [Signature] 4/22/06
Chair, Graduate Council: [Signature] Date
Chair, Undergraduate Curriculum Committee: [Signature] Date

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SCACRSE  SCADETL  SCAPREQ  SCABASE
SCARRES  Operator initial: __________________ Date: __________

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