Memo (prepared by Dr. Bo Yang, 1/5/2009):

The ME faculty of MAE Department has reevaluated the ME curriculum and decided to change the prerequisites and/or corequisites of five existing courses. Their filled “Changing Restrictions or Credits in a Course” forms are attached. The reasons are briefly given below (which are also typed in the forms).

**MAE 2024 Solids Modeling and 3-D Mechanical Design**
MAE 1024 (Intro to Mechanical Engineering) is added as prerequisite since it covers some of the technical drafting that is to be continued in MAE 2024.
Corequisite MAE 3083 (Mechanics of Materials) is removed since the stress analysis covered in it is not needed for MAE 2024.

**MAE 3024 Computer-Aided Engineering**
Prerequisite MAE 2082 (Applied Mechanics: Dynamics) is removed since the particle and rigid-body dynamics covered in it is not needed for MAE 3024.
MAE 3083 (Mechanics of Materials) is added as prerequisite since the stress analysis covered in it is the base to the discussion of “engineering aided by computers” in MAE 3024.
In addition, MTH 3201 (Boundary Value Problems) is added as prerequisite since the knowledge in boundary value problem formulation covered in MTH 3201 is essential to the understanding of the modeling and simulation to be taught in MAE 3024.

**MAE 3191 Engineering Thermodynamics**
Corequisite MTH 2001 (Calculus 3) is changed to be prerequisite, simply because it is offered one-semester before MAE 3191.
Corequisite PHY 2002 (Physics 2) is replaced by prerequisite PHY 1001 (Physics 1) since PHY 1001 sufficiently covers the basic physics needed in MAE 3191.

**MAE 4175 Heating, Ventilation and A/C**
Prerequisite MAE 3161 (Fluid Mechanics) is removed because it is irrelevant.

**MAE 4190 Design Methodologies and Practice**
Junior Standing is added as prerequisite/restriction in order to ensure the students to have established sufficient background before taking this preparatory class for senior design.

\[\text{Signature}\]

\[1/5/09\]
Florida Institute of Technology

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 and Aerospace Engineering

REQUEST IS FOR A CHANGE IN COURSE: MAE

Alpha Prefix: 2024

Course Number

TO BE INITIATED WITH CATALOG YEAR 2009 / 2010

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 COURSES LISTED ABOVE? Yes No

If yes, please check all that apply:

☐ Add ☐ Remove ☒ Prerequisite ☐ Corequisite

☐ Add ☐ Remove ☐ Prerequisite ☒ Corequisite

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite

☐ Add ☐ Remove ☐ Other restrictions (e.g., Senior Standing, Instructor Approval) Yes No

If yes, please list below:

MAE 1024 (Intro to Mechanical Engineering) is added as prerequisite since it covers some of the technical drafting that is to be continued in MAE 2024. Corequisite MAE 3083 (Mechanics of Materials) is removed since the analytical stress analysis covered in it is not needed for MAE 2024.

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 Director.

Original: Yervis Date: 1/5/09

Chair, Graduate Council: N/A Date: 

Department Head/Program Chair: Pain Date: 1/5/09

OR

Dean or Associate Dean: 1/15/09 Date: 

Chair, Undergraduate Curriculum Committee: Date: 

CATALOG DIRECTOR'S USE ONLY

SCACRSE SCADETL SCAPREQ SCABASE SCARRDES

Operator Init Date

DISTRIBUTION:
Original—Registrar
Copy—Academic Unit

Florida Institute of Technology • Office of the Registrar
150 West University Boulevard, Melbourne, FL 32901-6975 • (321) 674-8114 • Fax (321) 674-7827

RG-274-5095
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 and Aerospace Engineering

REQUEST IS FOR A CHANGE IN COURSE  MAE  3024  TO BE INITIATED WITH CATALOG YEAR 20.09 / 20.10

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 COURSES LISTED ABOVE?  ☐ Yes  ☒ No  If yes, please check all that apply:

☒ Add ☐ Remove ☒ Prerequisite ☐ Corequisite  MAE________ Subject________ Course Number________

☒ Add ☐ Remove ☒ Prerequisite ☐ Corequisite  MTH________ Subject________ Course Number________

☐ Add ☒ Remove ☒ Prerequisite ☐ Corequisite  MAE________ Subject________ Course Number________

☐ Add ☐ Remove ☒ Other restrictions (e.g., Senior Standing, Instructor Approval)  ☐ Yes  ☐ No  If yes, please list below.

Prerequisite MAE 2082 (Applied Mechanics: Dynamics) is removed since the particle and rigid-body dynamics covered in it is not needed for MAE 3024. MAE 3083 (Mechanics of Materials) is added as prerequisite since the stress analysis covered in it is the base to the discussion of "engineering aided by computers" in MAE 3024. In addition, MTH 3201 (Boundary Value Problems) is added as prerequisite since the knowledge in boundary value problem formulation covered in MTH 3201 is essential to the understanding of the modeling and simulation to be taught in MAE 3024.

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 Director.

Origintarto:  1/5/09  Chair, Graduate Council  1/5/09  N/A

Department Head/Program Chair  1/5/09  OR  Dean of Associate Dean  1-15-09

Chair, Undergraduate Curriculum Committee

CATALOG DIRECTOR'S USE ONLY

SCARSE ________ SCADETL ________ SCAPREQ ________ SCABASE ________ SCARRIES ________

Operator Init. ________ Date ________

DISTRIBUTION:
Original—Registrar
Copy—Academic Unit
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 and Aerospace Engineering

REQUEST IS FOR A CHANGE IN COURSE  MAE  4175  TO BE INITIATED WITH CATALOG YEAR 2009/2010

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 COURSES LISTED ABOVE? Yes ☒ No ☐ If yes, please check all that apply:
☐ Add  ☐ Remove  ☑ Prerequisite  ☐ Corequisite
☐ Add  ☐ Remove  ☐ Prerequisite  ☐ Corequisite
☐ Add  ☐ Remove  ☐ Prerequisite  ☐ Corequisite
☐ Add  ☐ Remove  ☐ Other restrictions (e.g., Senior Standing, Instructor Approval) Yes ☐ No ☐

Prerequisite MAE 3161 (Fluid Mechanics) is removed because it is irrelevant.

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 Director.

Orig: [Signature] 1/5/09

Chair, Graduate Council: [Signature] 1/5/09

DEPARTMENT HEAD/Program Chair: [Signature] 1/5/09

Dean or Associate Dean: [Signature] 1/5/09

CUT HERE

Florida Institute of Technology • Office of the Registrar
150 West University Boulevard, Melbourne, FL 32901-6975 • (321) 674-8114 • Fax (321) 674-7827
RG-274-5061

CATALOG DIRECTOR'S USE ONLY

SCACRESE  SCADTL  SCAPREQ  SCABASE  SCARRES

Operator Init  Date
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 and Aerospace Engineering

REQUEST IS FOR A CHANGE IN COURSE: MAE 4190

TO BE INITIATED WITH CATALOG YEAR: 2009/2010

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 COURSES LISTED ABOVE? □ Yes □ No

If yes, please check all that apply:

- □ Add □ Remove □ Prerequisite □ Corequisite

- □ Add □ Remove □ Prerequisite □ Corequisite

- □ Add □ Remove □ Prerequisite □ Corequisite

- □ Add □ Remove □ Other restrictions (e.g., Senior Standing, Instructor Approval) □ Yes □ No

Junior Standing

Junior Standing is added as prerequisite/restriction in order to ensure the students to have established sufficient background before taking this preparatory class for senior design.

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 Director.

Originator: [Signature] Date: 5/19/09

Chair, Graduate Council: [Signature] Date: N/A

Department Head/Program Chair: [Signature] Date: 11/19/09

Chair, Undergraduate Curriculum Committee: [Signature] Date: 1-15-09

CATALOG DIRECTOR'S USE ONLY

SCACRSE ____________ SCADETL ____________ SCAPREQ ____________ SCABASE ____________ SCARRIES ____________

Operator Init ____________ Date ____________

DISTRIBUTION:

Original—Registrar
Copy—Academic Unit

Florida Institute of Technology • Office of the Registrar
150 West University Boulevard, Melbourne, FL 32901-6975 • (321) 674-8114 • Fax (321) 674-7827