


ME - 702 - Computational Fluid Dynamics

v 2 Graduate Course Change 2019-20

I. Course Information

Read before you begin

TURN ON help text before starting this proposal by clicking  in the top right corner of the heading. You will need to turn on help text again after any actions that refresh the page including after saving proposals, importing information, or running impact reports.

IMPORT curriculum data from the Catalog by clicking  in the top left corner.

Do not make any changes to any information until the proposal has been launched in Step

4. Changes will only be tracked after proposal is launched. FILL IN ONLY fields required marked with an * after importing data. You will not be able to launch the proposal without completing required fields.

LAUNCH proposal by clicking  in the top left corner.

After launching the proposal, make all changes and fill in all additional fields.

Finish the launch of your proposal by clicking the icon  located in the Proposal Toolbox on left side at top. Make your decision, comment is optional, and click on "Make decision".

You can check the status of the proposal by clicking  in Proposal Toolbox to verify that the proposal has gone to the next step.

College/ Department*

Prefix*

Number* 702

Long Course Name* Computational Fluid Dynamics

Short Course Name* Comp Fluid Dynamics

Tips

avoid the use of the words *student*, *course*, and *covers*
 incomplete sentences are ok
 avoid repeating the course title
 (50 words max)

Catalog Description* Application of numerical methods to solve highly nonlinear equations of motion and energy associated with fluid dynamics. Among other methods, finite difference and finite element methods discussed along with use of commercial software packages.

Summary of Proposed Changes* Prefix
 Course #
 Name
 Description
 Credits/Grading
 PreReqs/CoReqs

Instructional Mode


Other

Effective Term and Year*

Fall 2019

Justification for Course Change:*

We want to add ME 700 or ME 600 as a prerequisite to ME 702. Students who have not taken either of these courses do very poorly in ME 702.

Run an Impact Report by clicking  in the top left corner and answer below according to the results. Copy and paste the results below:

Degree and/or certificate program(s) impacted by this change (Results of Impact Report)*

Impact Report for ME 702

Source: 2019-2020 Working Graduate Catalog

Programs	Doctor of Philosophy - Mechanical Engineering
	Master of Science - Materials and Nuclear Engineering
	Master of Science in Aerospace Engineering
	Master of Science in Engineering - Mechanical Engineering

Substantive changes will necessitate a Program Change form be submitted.

Detail the changes to the program catalog entry required due to this change.*

Current Prerequisites: Graduate Standing or Instructor Consent

New Prerequisites: ME 600 or ME 700

Will this course be listed as the 'same as' another course?*

Yes No

It yes, list the course

II. Course Change Information

Please review all sections below and make necessary changes after you launch the proposal.

Credit change

Fixed/Variable Credits Fixed Variable

If fixed, enter number of credits. If variable, enter minimum and maximum credits (E.g., 1-3)

Number of Credits 3

Course is Repeatable Yes No

If yes, the maximum number of credits that may be earned is

Grading Change

Grading System Letter Grade
 S/U
 S/F

Thesis/Dissertation

Does this course have any non-credit components? Yes No

- If yes, indicate component(s)
- Clinical
 - Discussion
 - Field Studies
 - Independent Study
 - Internship
 - Laboratory
 - Lecture
 - Practicum
 - Research
 - Seminar
 - Supervision
 - Thesis Research

Requisite Change

(if any) - Graduate standing is the default prerequisite for all graduate-level courses.

Prerequisites ME 600 or ME 700

Corequisites

- Instructional Modes**
- In Person Supplemental Web
 - Field Study
 - Hybrid
 - Independent Study
 - In Person
 - Television
 - Web-based
 - Web-based w/ on/off campus meeting

III. Evaluation of Library Resources

Indicate library resources that will be needed as a result of changes to this course (if applicable)

Will this course change require changes to library resources? Yes No

Core Journals

Core Books

Electronic Resources

This section is completed by the librarian

Level of support the Library can provide

Library Comments

IV. Department Vote Information

Date faculty voted on proposal	March 1, 2019
Result of vote (Number of yes/no/abstention votes)	14-yes, 0-no, 0-abstain
Manner of vote (online, in-person, etc.)	in person

V. Unit Vote Information

Date faculty voted on proposal	March 1, 2019
Result of vote (Number of yes/no/abstention votes)	14-yes, 0-no, 0-abstain
Manner of vote (online, in-person, etc.)	in person

VII. Implementation and Processing

PS Processing Notes	
PS Processing Date	Initials
Aalog Processing Notes	
Aalog Processing Date	Initials