Academic Program Approval

This form is a routing document for the approval of new and revised academic programs. Proposing department should complete this form. For more information, call the Faculty Senate Office at 831-2921.

Submitted by: Charles E. Epifanio, Associate Dean  phone number 302-645-4263

Department: College of Marine and Earth Studies  email address epi@udel.edu

Date: April 28, 2009

Action: Change course requirements

MS in Marine Studies with emphasis in POSE: (1) allow choice of MAST 693 or MAST 800 and (2) allow choice of MAST 811 or MEEG 864

PhD in Marine Studies with emphasis in POSE: (1) add MAST 811 and (2) add a graduate-level course in mathematical modeling (to be chosen with written approval of POSE Director)

Effective term 09F

Current degree MS and PhD

Proposed change leads to the degree of: MS and PhD

Proposed name: N/A

Revising or Deleting:

Undergraduate major / Concentration: N/A

Undergraduate minor: N/A

Graduate Program Policy statement change: See Action section above for detail

Graduate Program of Study: N/A

Graduate minor / concentration: N/A

Note: all graduate studies proposals must include an electronic copy of the Graduate Program Policy Document, highlighting the changes made to the original policy document.

List new courses required for the new or revised curriculum. How do they support the overall program objectives of the major/minor/concentrations)?

(Be aware that approval of the curriculum is dependent upon these courses successfully passing through the Course Challenge list. If there are no new courses enter “None”)

None

Explain, when appropriate, how this new/revised curriculum supports the 10 goals of undergraduate education: http://www.ugs.udel.edu/gened/

N/A

Identify other units affected by the proposed changes:

(Attach permission from the affected units. If no other unit is affected, enter “None”)
Describe the rationale for the proposed program change(s):
(Explain your reasons for creating, revising, or deleting the curriculum or program.)

The change in the MS curriculum provides more choice for students specializing in different areas of POSE. These curricular changes reflect changes in the composition of the faculty in POSE and changes in the field itself.

The change in the PhD curriculum also provides more choice for students specializing in different areas of POSE. The imposition of a new requirement for a graduate-level course in mathematical modeling reflects the increasing importance of modeling in POSE. In order to satisfy this requirement, the modeling course must be approved by the POSE Director.) Appropriate courses exist in other units of the University.

Program Requirements:
(Show the new or revised curriculum as it should appear in the Course Catalog. If this is a revision, be sure to indicate the changes being made to the current curriculum and include a side-by-side comparison of the credit distribution before and after the proposed change.)

Master's Degree Requirements

1. General Requirements:
Minimum of 24 graduate course credits (not to include thesis/ research credits).

2. Required Courses:
MEEG 690, Intermediate Engineering Mathematics (3).
MAST 693, Wave in the Marine Environment (3) or MAST 800, Dynamical Physical Oceanography (3).
MAST 691, Ocean Fluid Dynamics (3).
MAST 882, POSE Seminar (1).
MAST 811, Time Series Analysis (3) or MEEG 864, Engineering Analysis II (3).

One course outside of the student's home program (minimum of 3 credits). This may include one of the specially designed introductory courses or a more advanced course. Students may not test out of thesis classes.

Introductory courses outside of this program include:
MAST 627, Marine Biology (3)
MAST 670, U.S. Ocean and Coastal Policy (3)
NOTE: MAST 601, Introduction to Oceanography will not meet this requirement. Physical oceanography courses will not meet this requirement.

Minimum of 24 graduate course credits (including required courses listed above).
Thesis/research, 6 credits (does not count toward minimum of 24 course credits).
Additional graduate-level course work as determined by advisory committee.

3. Other Requirements:
Advisory committee selection and thesis proposal (to be completed by the end of the student's second semester). Committee approves proposal.
Defense of thesis.

Ph.D. Degree Requirements

1. Required Courses:
MEEG 690, Intermediate Engineering Mathematics(3)*
MAST 693, Waves in the Marine Environment (3)*
MAST 691, Ocean Fluid Dynamics (3)*
MAST 882, POSE Seminar (1)
MEEG 864, Engineering Analysis II (3)
MAST 800, Dynamical Physical Oceanography (3)
MAST 811, Time Series Analysis (3)

One modeling course to be determined by the student in consultation with his/her advisor or advisory committee (minimum of 3 credits).

One course outside of the student's home program (minimum of 3 credits). This may include one of the specially designed introductory courses or a more advanced course. Students may not test out of these classes.*

Introductory courses outside of this program include:
MAST 627, Marine Biology (3)
MAST 670, U.S. Ocean and Coastal Policy (3)
NOTE: MAST 601, Introduction to Oceanography will not meet this requirement. Physical oceanography courses will not meet this requirement.

Dissertation: 9 credits.
Additional graduate-level course work as determined by dissertation advisory committee.

2. Other Requirements:
Advisory committee selection and dissertation proposal (to be completed by the end of the student's third semester).
Committee approves proposal.
Ph.D. qualifying examination.
Defense of dissertation.

ROUTING AND AUTHORIZATION:  (Please do not remove supporting documentation.)
Department Chairperson __________________________________________ Date ____________________
Dean of College _______________________________________________ Date ____________________
Chairperson, College Curriculum Committee __________________________ Date ____________________
Chairperson, Senate Com. on UG or GR Studies _________________________ Date ____________________
Chairperson, Senate Coordinating Com. _______________________________ Date ____________________
Secretary, Faculty Senate _________________________________________ Date ____________________
Date of Senate Resolution _________________________________________ Date to be Effective __________
Registrar ______________________________________________________ Date ____________________
Program Code _________________________________________________ Date ____________________
Vice Provost for Academic Affairs & International Programs ______________ Date ____________________
Provost ______________________________________________________ Date ____________________
Board of Trustee Notification ______________________________________ Date ____________________

Revised 02/09/2009 /khs