Academics | Physical Ocean Science & Engineering

Degree Requirements

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).
MAST 691, Ocean Fluid Dynamics (3).
MAST 882, POSE Seminar (1).

One of the following courses:
MEEG 864, Engineering Analysis II (3).
MAST 800, Dynamical Physical Oceanography (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)

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.**