

# *Application for Ph.D. Preliminary Examination*

Program (check):     BIOL                     MEES                     MOCB                     NACS

1. Name: \_\_\_\_\_
2. Address \_\_\_\_\_
3. Home Phone \_\_\_\_\_
4. Office Phone \_\_\_\_\_
5. Lab Phone \_\_\_\_\_
6. Title of Research Proposal: \_\_\_\_\_  
\_\_\_\_\_
7. Date, Time & Room  
for Prelim Exam: \_\_\_\_\_
8. Committee Requirements:

Major Advisor + 2 [MEES] or 3 [BIOL, MOCB, NACS] Program graduate faculty + at least 1 or 2 or more qualified scientist (Total  $\geq$  5). One committee member must be from outside both the Program and Department.

9. Nominations for Prelim Committee:

Name	Campus Address

Date Prelim Committee was approved: \_\_\_\_\_

Date Applicant notified of approval: \_\_\_\_\_

Approval of Graduate Director: \_\_\_\_\_

**SIGNATURE**

*PH.D. REQUIREMENTS FOR ALL PROGRAMS IN THE DEPT. OF BIOLOGICAL SCIENCES*

**MOLECULAR AND CELL BIOLOGY COURSE REQUIREMENTS**

<b>Biochemistry</b> CHEM 437 Comprehensive Biochem. I CHEM 638 Comprehensive Biochem. II	<b>Cell Biology</b> BIOL 620 Adv. Cell or BIOL625 Immunology Or BIOL 645 Signal Transduction	<b>Prok. Mol. Biol.</b> BIOL 611 Bacterial Physiology or BIOL 634 Microbial Molecular Genetics	<b>Euk. Mol. Biol.</b> BIOL 614 Eukaryotic Gen. & Mol. Biology or BIOL 626 Approaches to Mol. Biol or BIOL 656 Plant	<b>Electives (2)</b> • Two 600 level courses to a total of 8, which must include at least one 3 credit seminar. • 12 credits BIOL 899
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Beginning with the second year, students must enroll for a minimum of 1 credit of research each semester. Students must participate in at least one journal club every semester for the period of graduate study, though they must officially enroll for only 1 credit per year.

**\*new proposal: All students in all programs will take the 700 level 3 credit seminar their first semester.**

**BIOLOGICAL SCIENCES COURSE REQUIREMENTS**

- Eighteen credits of coursework must be taken at above the 600 level and must include at least one 3 credit seminar. No more than 6 of those credits can be at the 700 level.
- Twelve credits of research (Biol 899)

Beginning with the second year, students must enroll for a minimum of 1 credit of research each semester. Students must participate in at least one journal club every semester for the period of graduate study, though they must officially enroll for only 1 credit per year.

**NEUROSCIENCES AND COGNITIVE SCIENCES REQUIREMENTS**

<b>Neurosciences Concentration</b>	<b>Cognitive Computational Concentration</b>
<ol style="list-style-type: none"> <li>1. Introductory Neuroscience and Cognitive Science course required of all students.</li> <li>2. Two semester core neuroscience and cognitive sequence.</li> <li>3. Demonstrate a wide knowledge of neurosciences.</li> <li>4. Demonstrate the necessary competence to perform their proposed thesis work, including demonstrating knowledge of the background, skills and techniques required for the proposed research.</li> <li>5. 12 credits of 899-level research.</li> </ol>	<ol style="list-style-type: none"> <li>1. Introductory Neuroscience and Cognitive Science Courses required of all students.</li> <li>2. Two semester core neuroscience and cognitive sequence.</li> <li>3. Demonstrate mastery of two of the three areas of the concentration.</li> <li>4. Demonstrate the necessary competence to perform their proposed thesis work, including demonstrating knowledge of the background, skills and techniques required for the proposed research.</li> <li>5. 12 credits of 899-level research.</li> </ol>

**MARINE ESTUARINE AND ENVIRONMENTAL SCIENCES REQUIREMENT**

1. Total of 36 credits.
2. 12 credits research (MEES 899).
3. 24 credits coursework including
  - a. 12 credits at 400, 600, or 700 levels.
  - b. 12 credits at 600 level including courses specified by AOS (area of specialization).
  - c. 1 graduate course outside AOS.
  - d. One course or seminar in Environmental Management
  - e. One Statistics Course (600 level)
  - f. Graduate seminars – minimum one credit per year (cap at 4)

\*Note: For Ph.D. students with a fulfilled M.S. degree, up to 16 credits of appropriate courses can be used to meet Ph.D. requirements (waiver) as recommended by their Research Advisory Committee.

