FACULTY COMMITTEE ON GRADUATE EDUCATION, CONTINUING EDUCATION
AND SPECIAL PROGRAMS

CHANGE/DELETE GRADUATE PROGRAM PROPOSAL FORM

Contact Name: Craig Plante   Email: plantec@cofc.edu   Phone: 953-9187

Department and School Name: Biology, SSM   Name and Acronym of Graduate Program: Marine Biology, GPMB MBI

Date (Semester/Year) changed/deleted program will take effect: Fall, 2016

I. CATEGORY OF REVIEW (Check all that apply)

X Change Request (attach details):
  X Add existing course or courses to requirements or electives
  □ Add new course(s) to requirements or electives (complete and attach COURSE FORM for each)
  □ Delete courses from requirements or electives
  □ Add new emphasis (check one): □ concentration □ track   Total # of hours:
  (note: any emphasis involving more than 18 credit hours will also require CHE approval)
  □ Terminate Program (check one): □ Degree □ Certificate □ Emphasis (concentration/track)
  (if checked, skip section II, IV, V, and VII below)

Are students currently enrolled in the program? □ Yes □ No
If yes, what semester will students complete the program?

If the program termination includes deleting courses from the inventory, a COURSE FORM must be included with this form for each course deletion.

□ Interdisciplinary (attach evidence of acknowledgement from relevant departments)

II. DESCRIPTION OF CHANGES: If a changed program—please explain changes below; if a new emphasis—please provide the details below.

As per SACSCOC requirements, specific courses satisfying elective course requirements will be added to catalog. Under ADDITIONAL COURSE REQUIREMENTS, catalog currently reads:

"7-8 hours of elective graduate courses. At least one course must be organism-level"

Proposed wording change and list:

7-10 hours of elective courses from list below. At least one course must be organismal (denoted by *).
(A separate proposal would change the BIOL 700 Thesis credits to (1-4); pending)
(A separate proposal would add the italicized phrase, allowing students to opt out of redundant core courses; pending)
(A separate proposal would re-number several cross-listed elective courses; pending)

III. RATIONALE or JUSTIFICATION

For changes or termination, please provide a detailed justification. For a new emphasis, briefly address the goals/objectives for the new emphasis, provide evidence of student interest (i.e., has the program offered special topics courses in this area? has the program interviewed student focus groups as part of an internal assessment? etc.), and explain how the emphasis supports the liberal arts tradition and the mission of the institution.

This addition to the catalog simply makes explicit all those courses that could satisfy the GPMB’s elective course requirements. This added list was mandated by SACSCOC compliance policies.

IV. CURRICULUM

Provide the COMPLETE curriculum for the changed program and/or new emphasis distinguishing between required and elective courses. Note pre-requisite courses where appropriate. Note any sequencing of courses or requirements in the program, listed exactly as it should appear in the catalog.

Complete a minimum of 30 Credit Hours as follows:
BIOL 600 Physiology and Cell Biology of Marine Organisms (4)
BIOL 601 Ecology of Marine Organisms (4)
BIOL 610 Physical Oceanography (4)
BIOL 611 Biometry (4)
BIOL 620 Graduate Core Seminar (1)
BIOL 621 Graduate Core Seminar (1)
BIOL 650 Seminar in Marine Biology (1)

*Core course requirements may be waived if their content overlaps with prior undergraduate coursework. Petition for such waivers should be presented to the GPMB Director.

7-9 hours of elective courses from list below. At least one course must be organismal (denoted by *)
BIOL 502*, BIOL 503, BIOL 506, BIOL 510, BIOL 514, BIOL 523, BIOL 544, BIOL 545, BIOL 549, BIOL 618, BIOL 627*, BIOL 630*, BIOL 632*, BIOL 635*, BIOL 641, BIOL 643, BIOL 644, BIOL 646,
BIOL 649, BIOL 690, EVSS 649, EVSS 669

BIOL 700  Thesis (1-4)

(A separate proposal would change the BIOL 700 Thesis credits to (1-4); pending)
(A separate proposal would add the italicized phrase, allowing students to opt out of redundant core courses; pending)
(A separate proposal would re-number several cross-listed elective courses; pending)

Attach the completed COURSE FORM and a sample syllabus for each new course.

Is a syllabus for each new course attached? □ Yes  X No

No new courses

V. STUDENT LEARNING OUTCOMES and ASSESSMENT

<table>
<thead>
<tr>
<th>Program-Level Student Learning Outcomes</th>
<th>Assessment Method and Performance Expected</th>
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<td>What will students know and be able to do when they complete the program/emphasis? Attach Curriculum Map.</td>
<td>How will each outcome be measured? Who will be assessed, when, and how often? How well should students be able to do on the assessment?</td>
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1. Students demonstrate ability to clearly and effectively communicate scientific results. New knowledge acquired through the scientific process has little meaning without effective communication to other scientists, resource managers and other decision-makers, and the public.

1. Measure 2.1: Students present their proposed research and their early research results in the form of a scientific poster at our annual GPMB student research colloquium. All students should present at least one poster while in the program, normally at the start of their second year. The Colloquium is an annual event, occurring each Fall. At least 90% of students should average a “good” (=4 on 1-6 scale) or better score over all areas of assessment. A panel of judges, mostly derived from GPMB regular or adjunct faculty, will score the poster presentations.

Measure 2.2: Students present their ongoing research in the form of an oral presentation at our annual GPMB student research colloquium. All students should present at least one talk while in the program, normally at the start of their third year. The Colloquium is an annual event, occurring each Fall. At least 90% of students should average a “good” (=4 on 1-6 scale) or better score over all areas of assessment. A panel of judges, mostly derived from GPMB regular or adjunct faculty, will score the oral presentations.
2. All students must conduct a marine biology research project, and orally defend their work and submit a written thesis. Both steps must be approved by their thesis committee. Publication in the peer-reviewed literature is one measure of the quality of the thesis research. Students in the program should conduct important and novel research, striving to contribute to the foundation of knowledge through publication in peer-reviewed journals.

2. Measure 3.1: Submission of thesis proposal. All (100%) students must submit an approved thesis proposal by the end of their third academic semester in the program. Proposal is first approved by their thesis committee. Program Director must also approve using thesis proposal rubric. Proposal must score at least a 2 in all areas (minimum overall score of 16) for approval.

Measure 3.2: Publication of thesis research. Seventy-five percent (75%) of program graduates should publish their thesis findings in peer-reviewed journals within three years of graduation.

3.

4.

Additional Outcomes or Comments:
Elective courses help prepare students for their thesis research, which are disseminated and assessed through presentations (e.g., at our Student Research Colloquium) and publication in thesis and peer-reviewed journals. The above SLOs are unchanged by these proposed changes (i.e., catalog additions).

VI. IMPACT ON EXISTING PROGRAMS and COURSES Please briefly document the impact of this changed/deleted program or new emphasis on other programs and courses: if changing/deleting a program—list all programs that will be impacted (and how); if adding a new emphasis—explain any overlap with existing programs or courses in the same or different departments.

None

Is this changed/deleted program used by others? □ Yes  X No
If yes, please provide a letter of support in each case.

VII. COSTS ASSOCIATED WITH THE ACTION REQUESTED List all of the new costs or cost savings, (including new faculty/staff requests, library or equipment, etc.) associated with the action requested.

None
VIII. APPROVAL and SIGNATURES

Signature of Program Director:  

Date: 2-19-16

Signature of Department Chair:  

Date: 2/23/16

Signature of School Dean:  

Date: 2/23/16

Signature of the Provost:  

Date: 3/18/16

Return form to the Graduate School Office for Further Processing

Signature of Chair of the Faculty Committee on Graduate Education, Continuing Education & Special Programs:  

Date: 3/25/16

Signature of Chair of the Graduate Council:  

Date: 3/28/16

Signature of Faculty Senate Secretary:  

Date: 

Date Approved by Faculty Senate: 

September 2011
Contact Name: Craig Plante  Email: plantec@cofc.edu  Phone: 953-9187

Department Name: Biology  Graduate Program name: Marine Biology

Course Prefix, Number, and Title: Biol. 700 (Research and Thesis)

I. CATEGORY OF REVIEW (Check all that apply)

<table>
<thead>
<tr>
<th>NEW COURSE</th>
<th>CHANGE COURSE</th>
<th>DELETE COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>*(Complete all sections below that apply including those indicated)------</td>
</tr>
<tr>
<td>☐ New Course (attach syllabus*)</td>
<td>☐ Change Number (IV, VII, VIII, IX)</td>
<td>☐ Delete Course (IV, VII, IX)</td>
</tr>
<tr>
<td></td>
<td>☐ Change Title (IV, VII, VIII, IX)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>☐ Change Credits/Contact hours (II, IV, VII, IX)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>☐ Prerequisite Change (IV, VII, VIII, IX)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>☑ Edit Description (III, IV, VII, VIII, IX)</td>
<td></td>
</tr>
</tbody>
</table>

☐ Approve for Cross-listing (attach Graduate Permission to Cross-list Form)

Date (Semester/Year) the course will first be offered, course changes or deletion will go into effect: Fall 2016

NEW COURSE:

*ATTACH THE SYLLABUS FOR A NEW GRADUATE COURSE to include:

- Course cescription and objectives
- Method of teaching (e.g., lecture, seminar, on-line, hybrid)
- Required and optional texts and materials
- Graduate School Grading Scale
- Assignments, student learning outcomes and assessment components
- Policies to include attendance, Honor Code, American Disabilities Act statement
- Tentative course schedule with specific topics
List prerequisites and / or other restrictions below

Will this course be added to the Degree Requirements?

a) ☐ Yes  ☐ No
b) If yes, explain

II. NUMBER OF CREDITS and CONTACT HOURS per week

A. Contact Hours

B. Credit Hours

Is this course repeatable? ☐ yes  ☐ no  If so, how many credit hours may the student earn in this course?

III. CATALOG DESCRIPTION  Limit to 50 words EXACTLY as you want it to appear in the catalog; include prerequisites, co-requisites, and other restrictions. If changing course description, please include both old and new course descriptions.

Adding “Repeatable: Up to 4 credit hours.” New catalog description should read:

BIOL 700 Research and Thesis (1-4)
Individual thesis research in marine biology. No more than four semester hours of the thesis may be counted toward fulfilling the minimum degree requirements.
Repeatable: Up to 4 credit hours.
IV. RATIONALE / JUSTIFICATION: If course change – please indicate the course change details. If course change or deletion—please provide reasons for change(s) to or deletion of a course. If a new course—briefly address the goals/objectives for the course and the relationship to the strategic plan.

The wording addition proposed here just makes explicit that the course can be re-taken for credit and makes obvious that only 4 such credits can be used to meet degree requirements.

This has been the practice, but Academic Affairs has recommended making this more explicit in the catalog to satisfy SACSCOC requirements. Those 1-4 credits could be taken in as few as one semester or in as many as 4 separate semesters. Students in our program must be enrolled in at least one credit hour during academic semesters and at least one credit hour during the semester they graduate (academic or summer). The ability to take BIOL 700 as a one-credit course, repeatable up to 4 hours, allows students to use this course to meet this continuous enrollment requirement.

V. STUDENT LEARNING OUTCOMES and ASSESSMENT

<table>
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<th>Student Learning Outcomes</th>
<th>Assessment Method and Performance Expected</th>
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</tr>
</tbody>
</table>

1.

2.

3.

4.

How does this course align with the student learning outcomes articulated for the major, program, or general education? What program-level outcome or outcomes does it support? Is the content or skill introduced, reinforced, or demonstrated in this course?
VII. IMPACT ON EXISTING PROGRAMS and COURSES: Please briefly document the impact and expected changes of this new/changed/deleted course on other departments, programs and courses; if deleting a course—list all departments and programs that include the course; if adding/changing a course—explain any overlap with existing courses in the same or different departments; if adding or deleting a course that will be part of a joint program identify the partner institution.

None. The course currently can be taken for variable credits and is repeatable. The wording addition proposed here just makes explicit that the course can be re-taken for credit and makes obvious that only 4 such credits can be used to meet degree requirements.

This has been the practice, but Academic Affairs has recommended making this more explicit in the catalog to satisfy SACSCOC requirements.

VIII. COSTS ASSOCIATED WITH THE ACTION REQUESTED: List all of the new costs or cost savings, (including new faculty/staff requests, library or equipment, etc.) associated with the action requested. New courses requiring additional resources will need special justification.

None
IX. APPROVAL AND SIGNATURES

Signature of Program Director: 

__________________________ Date: 2-19-16

Signature of Department Chair:  

__________________________ Date: 2/28/16

Signature of Additional Chair*:  

________________________________ Date: 

Signature of Schools' Dean:  

________________________________ Date: 

Signature of Additional Schools' Dean*:  

__________________________ Date: 2/3/16

Signature of the Provost: 

__________________________ Date: 3/18/16

Signature of Budget Director/Business Affairs Office:  

________________________________ Date: 

*For interdisciplinary courses

Return form to the Graduate School Office for Further Processing

Signature of Chair of the Faculty Committee on Graduate Education, Continuing Education & Special Programs:  

__________________________ Date: 3/25/16

Signature of Chair of the Graduate Council:  

__________________________ Date: 3/25/16

Signature of Faculty Senate Secretary:  

________________________________ Date: 

Date Approved by Faculty Senate:  

________________________________

September 2011
CHANGE/DELETE GRADUATE PROGRAM PROPOSAL FORM

Contact Name: Craig Plante     Email: plantec@cofc.edu     Phone: 953-9187
Department and School Name: Biology, SSM     Name and Acronym of Graduate Program: Marine Biology, GPMB
Date (Semester/Year) changed/deleted program will take effect: Fall, 2016

I. CATEGORY OF REVIEW (Check all that apply)

☑ Change Request (attach details):
  ☐ Add existing course or courses to requirements or electives
  ☐ Add new course(s) to requirements or electives (complete and attach COURSE FORM for each)
  ☑ Delete courses from requirements or electives
  ☐ Add new emphasis (check one): ☐ concentration ☐ track ☐ Total # of hours:
  (note: any emphasis involving more than 18 credit hours will also require CHE approval)

☐ Terminate Program (check one): ☐ Degree ☐ Certificate ☐ Emphasis (concentration/track)
  (if checked, skip section II, IV, V, and VII below)
  Are students currently enrolled in the program? ☐ Yes ☐ No
  If yes, what semester will students complete the program?
  If the program termination includes deleting courses from the inventory, a COURSE FORM must be included with this form for each course deletion.

☐ Interdisciplinary (attach evidence of acknowledgement from relevant departments)

II. DESCRIPTION OF CHANGES: If a changed program—please explain changes below; if a new emphasis—please provide the details below.

Add phrase beneath core course list to allow students to opt out of core course(s) if they have already covered the material in prior coursework (e.g., as an undergraduate). This is not a change in practice, but its explicit addition to the catalog is required for SACSCOC compliance. The phrase to be added is italicized below:

Complete a minimum of 30 Credit Hours as follows:
BIOL 600 Physiology and Cell Biology of Marine Organisms (4)
BIOL 601 Ecology of Marine Organisms (4)
BIOL 610 Physical Oceanography (4)
BIOL 611 Biometry (4)
III. RATIONALE or JUSTIFICATION

For changes or termination, please provide a detailed justification. For a new emphasis, briefly address the goals/objectives for the new emphasis, provide evidence of student interest (i.e., has the program offered special topics courses in this area? has the program interviewed student focus groups as part of an internal assessment? etc.), and explain how the emphasis supports the liberal arts tradition and the mission of the institution.

This addition to the catalog simply makes explicit the current practice of allowing first-year students to opt out of redundant coursework (and replace with elective courses). The core is designed to provide students with foundational knowledge in marine biology and related sciences. However, sometimes students have already covered material similar to that in a core course as an undergraduate or in some other setting. To avoid redundancy, students can opt out (if approved by Program Director and/or Marine Biology Council) and replace with an elective course relevant to their thesis research.

IV. CURRICULUM

Provide the COMPLETE curriculum for the changed program and/or new emphasis distinguishing between required and elective courses. Note pre-requisite courses where appropriate. Note any sequencing of courses or requirements in the program, listed exactly as it should appear in the catalog.

Complete a minimum of 30 Credit Hours as follows:

<table>
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<tr>
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<tr>
<td>BIOL 600</td>
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<td>(4)</td>
</tr>
<tr>
<td>BIOL 601</td>
<td>Ecology of Marine Organisms</td>
<td>(4)</td>
</tr>
<tr>
<td>BIOL 610</td>
<td>Physical Oceanography</td>
<td>(4)</td>
</tr>
<tr>
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<td>Biometry</td>
<td>(4)</td>
</tr>
<tr>
<td>BIOL 620</td>
<td>Graduate Core Seminar</td>
<td>(1)</td>
</tr>
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<td>(1)</td>
</tr>
<tr>
<td>BIOL 650</td>
<td>Seminar in Marine Biology</td>
<td>(1)</td>
</tr>
</tbody>
</table>

*Core course requirements may be waived if their content overlaps with prior undergraduate coursework. Petition for such waivers should be presented to the GPMB Director.*

7-8 hours of elective courses from list below. At least one course must be organismal (denoted by *)

BIOL 502*, BIOL 503, BIOL 504, BIOL 506, BIOL 514, BIOL 523, BIOL 544, BIOL 545, BIOL 549, BIOL 618, BIOL 627*, BIOL 630*, BIOL 632*, BIOL 635*, BIOL 641, BIOL 643, BIOL 644, BIOL 646, BIOL 649, BIOL 690, EVSS 649, EVSS 669

BIOL 700  Thesis (4)

Attach the completed COURSE FORM and a sample syllabus for each new course.
V. STUDENT LEARNING OUTCOMES and ASSESSMENT

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<th>Program-Level Student Learning Outcomes</th>
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<td>What will students know and be able to do when they complete the program/emphasis? Attach Curriculum Map.</td>
<td>How will each outcome be measured? Who will be assessed, when, and how often? How well should students be able to do on the assessment?</td>
</tr>
<tr>
<td>1. Acquire foundational knowledge in marine biology and related sciences. Program students obtain foundational knowledge of 1) the biology of marine organisms (across all levels of biological organization and taxonomic diversity), 2) the ocean environment, and 3) the practice of science.</td>
<td>1. Measure 1.1: Knowledge base will be tested on core course final exams. All students will be assessed on final exams in four core courses (Marine Ecology, Physical Oceanography, Biometry, Physiology &amp; Cell Biology of Marine Organisms). Target is set at baseline, which will initially be computed from composite and individual core course final exam scores. Measure 1.2: Knowledge base is tested through an oral comprehensive exam. All students are tested by their thesis committee and exam chair within 30 days of completing the core curriculum. At least 90% of students should average &quot;good&quot; (=3 on 1-5 scale) or better over all subject areas.</td>
</tr>
</tbody>
</table>

2.  

3.  

4.  

Additional Outcomes or Comments:

Core courses are the main device to provide the foundational knowledge in marine biology and marine science. The above SLO is unchanged by the proposed change (i.e., catalog addition).

VI. IMPACT ON EXISTING PROGRAMS and COURSES Please briefly document the impact of this changed/deleted program or new emphasis on other programs and courses; if changing/deleting a program—list all programs that will be impacted (and how); if adding a new emphasis—explain any overlap with existing programs or courses in the same or different departments.

None
Is this changed/deleted program used by others?  ☐ Yes   ☒ No
If yes, please provide a letter of support in each case.

VII. COSTS ASSOCIATED WITH THE ACTION REQUESTED List all of the new costs or cost savings, (including new faculty/staff requests, library or equipment, etc.) associated with the action requested.

None
VIII. APPROVAL and SIGNATURES

Signature of Program Director:

Date: 2-19-16

Signature of Department Chair:

Date: 2/23/16

Signature of School Dean:

Date: 2/3/16

Signature of the Provost:

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Date Approved by Faculty Senate:
FACULTY COMMITTEE ON GRADUATE EDUCATION, CONTINUING EDUCATION
AND SPECIAL PROGRAMS

CHANGE/DELETE GRADUATE PROGRAM PROPOSAL FORM

Contact Name: Craig Plante     Email: plantec@cofc.edu     Phone: 953-9187

Department and School Name: Biology     Name and Acronym of Graduate Program: Marine Biology (GPMB)

Date (Semester/Year) changed/deleted program will take effect: Fall 2016

I. CATEGORY OF REVIEW (Check all that apply)

☒ Change Request (attach details): Renumber course to conform to new course
☐ Add existing course or courses to requirements or electives
☐ Add new course(s) to requirements or electives (complete and attach COURSE FORM for each)
☐ Delete courses from requirements or electives
☐ Add new emphasis (check one):  ☐ concentration  ☐ track  Total # of hours:
(note: any emphasis involving more than 18 credit hours will also require CHE approval)

☐ Terminate Program (check one):  ☐ Degree  ☐ Certificate  ☐ Emphasis (concentration/track)
(if checked, skip section II, IV, V, and VII below)

Are students currently enrolled in the program?  ☐ Yes  ☐ No
If yes, what semester will students complete the program?

If the program termination includes deleting courses from the inventory, a COURSE FORM must be included
with this form for each course deletion.

☐ Interdisciplinary (attach evidence of acknowledgement from relevant departments)

II. DESCRIPTION OF CHANGES: if a changed program—please explain changes below; if a new
emphasis—please provide the details below.

Several biology graduate courses that are cross-listed with undergraduate courses are renumbered to conform
with the new College of Charleston course numbering policy (i.e., cross-listed graduate course should be 5XX). Specifically,
BIOL 614 Environmental Immunology renumbered to BIOL 514
BIOL 619 Biology of Coral Reefs renumbered to BIOL 549
BIOL 623 Genomics renumbered to BIOL 523
BIOL 628 Plant Ecology renumbered to BIOL 544
BIOL 629 Conservation Biology renumbered to BIOL 506
BIOL 640 Applied & Environmental Microbiology renumbered to BIOL 504
BIOL 645 Systematic Biology renumbered to BIOL 545

September 2011

Page 1
III. RATIONALE or JUSTIFICATION

For changes or termination, please provide a detailed justification. For a new emphasis, briefly address the goals/objectives for the new emphasis, provide evidence of student interest (i.e., has the program offered special topics courses in this area? has the program interviewed student focus groups as part of an internal assessment? etc.), and explain how the emphasis supports the liberal arts tradition and the mission of the institution.

The Biology Department and Graduate Program in Marine Biology (GPMB) have several courses currently at the 600 level that are cross listed with BIOL 4XX courses. Some GPMB courses are also cross-listed with the Masters of Science in Environmental Studies (MES) program and therefore have been offered in the past with both EVSS 6XX and BIOL 6XX labels. These courses serve both upper-level undergraduate students in BIOL, as well as graduate students in the GPMB and MES programs. Most of these courses are relatively small, i.e., typically near the lower enrollment limits. Thus, without cross-listing, these courses could not be offered (or would require additional faculty and inefficient use of resources). In short, cross-listing these courses allows a greater variety of course offerings to both undergraduate and graduate students. As required, syllabi for these cross-listed courses show that the student learning outcomes and course expectations are distinct.

The renumbering (to 5XX) proposed here is simply to conform to the College’s new graduate course numbering policies.

IV. CURRICULUM

Provide the COMPLETE curriculum for the changed program and/or new emphasis distinguishing between required and elective courses. Note pre-requisite courses where appropriate. Note any sequencing of courses or requirements in the program, listed exactly as it should appear in the catalog.

Complete a minimum of 30 Credit Hours as follows:
BIOL 600  Physiology and Cell Biology of Marine Organisms (4)
BIOL 601  Ecology of Marine Organisms (4)
BIOL 610  Physical Oceanography (4)
BIOL 611  Biometry (4)
BIOL 620  Graduate Core Seminar (1)
BIOL 621  Graduate Core Seminar (1)
BIOL 650  Seminar in Marine Biology (1)

*Core course requirements may be waived if their content overlaps with prior undergraduate coursework. Petition for such waivers should be presented to the GPMB Director.

7-8 hours of elective courses from list below. At least one course must be organismal (denoted by *)
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BIOL 700  Thesis (4)

Attach the completed COURSE FORM and a sample syllabus for each new course.
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1. Students demonstrate ability to clearly and effectively communicate scientific results. New knowledge acquired through the scientific process has little meaning without effective communication to other scientists, resource managers and other decision-makers, and the public.

   1. Measure 2.1: Students present their proposed research and their early research results in the form of a scientific poster at our annual GPMB student research colloquium. All students should present at least one each poster while in the program, normally at the start of their second year. The Colloquium is an annual event, occurring each Fall. At least 90% of students should average a "good" (= 4 on 1-6 scale) or better score over all areas of assessment. A panel of judges, mostly derived from GPMB regular or adjunct faculty, will score the poster presentations.

   Measure 2.2: Students present their ongoing research in the form of an oral presentation at our annual GPMB student research colloquium. All students should present at least one talk while in the program, normally at the start of their third year. The Colloquium is an annual event, occurring each Fall. At least 90% of students should average a "good" (= 4 on 1-6 scale) or better score over all areas of assessment. A panel of judges, mostly derived from GPMB regular or adjunct faculty, will score the oral presentations.

2. All students must conduct a marine biology research project, and orally defend their work and submit a written thesis. Both steps must be approved by their thesis committee. Publication in the peer-reviewed literature is one measure of the quality of the thesis research. Students in the program should conduct important and novel research, striving to contribute to the foundation of knowledge through publication in peer-reviewed journals.

   2. Measure 3.1: Submission of thesis proposal. All (100%) students must submit an approved thesis proposal by the end of their third academic semester in the program. Proposal is first approved by their thesis committee. Program Director must also approve using thesis proposal rubric. Proposal must score at least a 2 in all areas (minimum overall score of 16) for approval.

   Measure 3.2: Publication of thesis research. Seventy-five percent (75%) of program graduates should publish their thesis research findings in peer-reviewed journals within three years of graduation.

3.

4.

Additional Outcomes or Comments:
Elective courses help prepare students for their thesis research, which are disseminated and assessed through presentations (e.g., at our Student Research Colloquium) and publication in thesis and peer-reviewed journals. The above SLOs are unchanged by these proposed changes (i.e., course renumbering).

VI. IMPACT ON EXISTING PROGRAMS and COURSES Please briefly document the impact of this changed/deleted program or new emphasis on other programs and courses; if changing/deleting a program—list all programs that will be impacted (and how); if adding a new emphasis—explain any overlap with existing programs or courses in the same or different departments.

Effect will be minor, just different course numbers.

Is this changed/deleted program used by others? ☐ Yes ☑ No
If yes, please provide a letter of support in each case.

VII. COSTS ASSOCIATED WITH THE ACTION REQUESTED List all of the new costs or cost savings, (including new faculty/staff requests, library or equipment, etc.) associated with the action requested.

None
VIII. APPROVAL and SIGNATURES

Signature of Program Director:  

Date: 2/19/16

Signature of Department Chair:  

Date: 2/23/16

Signature of School Dean:  

Date: 2/1/16

Signature of the Provost:  

Date: 3/10/16

Return form to the Graduate School Office for Further Processing

Signature of Chair of the Faculty Committee on Graduate Education, Continuing Education & Special Programs:  

Date: 3/25/16

Signature of Chair of the Graduate Council:  

Date: 3/28/14

Signature of Faculty Senate Secretary:  

Date:

Date Approved by Faculty Senate:  

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