



To: Office of Academic Affairs

From: Dr. Peter S. Curtis, Chair, Department of EEOB

A handwritten signature in black ink, appearing to read "P. S. Curtis", written over the "From:" line.

Date: 28 March 2011

Re: Semester Program Proposals for Evolution and Ecology and Zoology majors

The Department of EEOB has the following programs that will be converted from quarters to semesters:

- 1) Undergraduate Zoology Major (BS & BA)
- 2) Undergraduate Evolution & Ecology Major (BS)
- 3) Undergraduate Zoology Minor
- 4) Undergraduate Evolution & Ecology Minor
- 5) Evolution, Ecology and Organismal Biology MS
- 6) Evolution, Ecology and Organismal Biology PhD

This proposal addresses the EEOB MS program.

The EEOB Curriculum Committee, with advisory input from the EEOB Graduate Studies Committee and individual faculty, has been working on the semester conversion for the past academic year. Conversion of the MS program from quarters to semesters will simply be a straight conversion of quarter credit hours to semester credit hours. Many existing graduate courses have been enhanced or re-envisioned and an updated list of EEOB graduate courses suitable for the MS program is provided at the end of this document. Changes to these courses or the introduction of new courses does not affect credit hour requirements for the MS program. Given the individualized nature of MS student plans of study in EEOB and the size of the MS program (approximately 20 students), no additional resources are required during the transition to semesters.

## **Rationale for Changes to the Evolution, Ecology, and Organismal Biology Master's graduate program from quarters to semesters**

The Department of EEOB currently offers a Master's (MS) graduate program in Evolution, Ecology, and Organismal Biology. Under semesters, the EEOB Master's program will not be subject to any major modifications other than adjusting quarter credit hours to semester credit hours.

## **EEOB Master's graduate program under semesters**

### **General Information**

The program for the Master's degree leads to mastery of the fundamental principles in the student's area of interest in the general realm of evolution, ecology, and organismal biology. The program is planned by the student and a member of the EEOB Graduate Faculty who acts as her/his research advisor so as to meet the student's individual needs and interests. The student and research advisor select an Advisory Committee that is also involved in suggesting courses and planning the graduate program of the student. Further information on important aspects of the program is provided below.

### **Course requirements: Course Requirements**

The Master's Programs (thesis and non-thesis) include at least 30 graduate semester credit hours, at least 24 of which must be taken at Ohio State University over a period of at least two semesters. EEOB 8894 must be taken during the first Autumn semester in residence and at least once more during any Winter semester, but does not count as graded graduate course work. The thesis Master's must include 16 credit hours of formal graduate level course work excluding EEOB 6193, 8894, and 6999. EEOB 8896 counts as graded coursework. The non-thesis Master's Program must include 30 credit hours of formal graduate level course work, not including 8894 and 6999. Up to 7 credit hours of 6193 can be included in a non-thesis Master's Program.

All incoming graduate students are required to enroll in the Center for Life Sciences Education (CLSE) teaching orientation. This class is offered over 2-3 days prior to Autumn semester and is coordinated with the University Center for the Advancement of Teaching (UCAT). All graduate students are required to enroll in at least one graduate level seminar course each calendar year (not including EEOB 8894). These courses are usually numbered EEOB 8896, but other courses that involve intensive, small-group discussion of the recent primary literature are acceptable. EEOB 8896 courses are limited to 2 semester credit hours per offering, and students may count any number towards the 16 credit hours of graded coursework.

**Research Advisor and Advisory Committee:** The decision to admit a student to the EEOB Graduate Program is based, in part, on the recommendations and support of a temporary advisor. In nearly all cases, this individual will serve as the student's advisor throughout his or her program. Nevertheless, this arrangement should be formalized no later than the end of the student's first semester. The Thesis Committee comprises the advisor and two other members of Graduate Faculty and should be selected by the end of the student's second semester.

### **Research Proposal**

All thesis Master's students must submit a proposal outlining their thesis research. The student's Thesis Committee must approve this proposal. The research proposal serves a number of functions. It ensures that the student has given careful thought to the research project, and helps involve the Thesis Committee with the student's project. Approval of the proposal by the Thesis Committee indicates their belief that the project is likely to succeed. Students in thesis Master's programs should submit a preliminary research proposal to their Thesis Committee by the end of their second semester. The length and content should be decided on in discussion with the Thesis Committee, but would normally include an explanation of the problem being addressed, a literature review, a methods section, preliminary data if available, a discussion of appropriate data analyses, and a description of possible results and their interpretation. A timetable also should be included.

Following review of the proposal, the student's Thesis Committee will either (a) approve the proposal as written, (b) approve the proposal with modifications, or (c) require the student to submit a revised proposal for further Committee review. As students proceed with their research, minor modifications of the research plan may be implemented without full Committee approval. Major changes, however, require full Committee approval. Final approval of the research proposal should be obtained by the end of the fourth semester in residence.

Upon approval of the research proposal, the student must submit an EEOB Department Research Proposal Approval Form, signed by all members of the Committee, to the Graduate Studies Committee Chair. A copy of this form must be given to the Graduate Secretary to be added to the student's file. The Chair of GSC will not sign the application to graduate Form until a Proposal Approval has been completed and signed, even if all research has been completed and the student is otherwise ready for the Final Examination.

### **Time Limit**

The Master's Program normally takes less than three years.

### **Thesis and Non-thesis Plans**

Students are admitted to either a thesis or non-thesis Master's Program. No other MS degrees are available. Students wishing to change the Master's degree they are working towards must inform the GSC.

### **Master's Examination Committee**

It is recommended that at least two of the three members of the Examination Committee be members of the EEOB Graduate Faculty. Note that the requirement of three committee members in EEOB is one more than the minimum set by the Graduate School.

### **Master's Examination**

The thesis Master's Examination may include a written portion and must include an oral portion. The non-thesis Master's Examination may include an oral portion and must include a written portion of at least four hours.

**Annual Review:** Each January, all EEOB graduate students will submit a Graduate Student Annual Report (GSAR) complete with updated curriculum vitae (CV) to the GSC. The purpose

of the GSAR is to allow the student, his or her advisor, and the GSC to review the progress of individual students in the EEOB Graduate Program. This report provides information concerning the student's academic and professional activities relative to program deadlines (e.g., proposal submission), academic performance, teaching, grant applications, publications, presentations and service as well as projections of future sources of support.

**Language Requirements:** Many incoming students need at least two semesters of spoken English classes before they are certified to teach, and many will take the Mock Teaching Test during finals week of their first semester. This means that their eligibility to be a GTA is not determined until the final week of the semester preceding their first teaching assignment. The rules for becoming eligible to be a GTA are listed in various places like the Grad Student Handbook and the OSU Spoken English Program, <http://esl.osu.edu/SEP/Courses.html#>. For incoming students, it is essential that they take the SPEAK test during the two weeks preceding Autumn semester so they can get into the first class they will need, Ed T&L 104. The SPEAK test is administered using taped responses to taped questions. If a student gets 230 out of 300 points, they can skip the Mock Teaching Test and be certified to teach. If they have a score of 190, they may take the Mock Teaching Test at the recommendation of their department. During the first week of Ed T&L 104, all students take a diagnostic test with the staff to determine whether they should be placed in Ed T&L 105. This test can help a student make faster progress if they did not do well enough on the SPEAK test. (This is not mentioned on the SEP website). Many students have to take Ed T&L 105 before they can take the Mock Teaching Test, which must be passed to be a GTA who has contact with students.

## **Academic Requirements**

### **Admission Criteria**

In addition to the Graduate School requirements, the Graduate Program in EEOB requires 27 semester credit hours of biology, 7 semester credit hours of physics, 7 semester credit hours of mathematics including calculus, and 10 semester credit hours of chemistry including organic or biochemistry. Graduate Record Examination scores from the general tests (verbal, quantitative, and written) are required. The Advanced Biology GRE test is not required for admission.

**General Requirements:** Students must maintain a graduate cumulative point-hour ratio (CPHR) of at least a 3.0 (Note that courses for which students do not earn graduate credit are not used in calculating in the graduate CPHR. See Section IV, Graduate School Handbook).

## **Ideal Thesis Master's Timetable**

### **Autumn semester**

- ☐ Enroll in EEOB 8894
- ☐ Begin course work to remove any conditions of acceptance
- ☐ Begin graduate level course work
- ☐ Select research topic
- ☐ Confirm permanent advisor
- ☐ Begin preparation of research proposal

#### Winter semester

- ☐ Continue courses to remove any conditions of acceptance
- ☐ Continue graduate level course work
- ☐ Take second EEOB 8894 (graduate student presentations)
- ☐ Choose and convene meeting with Planning Committee
- ☐ Submit research proposal (signed form to Chair of GSC)

#### Summer semester

- ☐ Continue graduate level course work
- ☐ Begin data collection for thesis research

#### Succeeding semesters

- ☐ Continue research
- ☐ 30 semester credit hours required for graduation, including 16 credit hours as classroom hours

#### Last semester

- ☐ Pick up Master's Degree Procedures/Requirements Checklist from the Graduate School
- ☐ Register for 3 or more credit hours
- ☐ Schedule Final Examination
- ☐ No later than 2<sup>nd</sup> Friday of semester, submit Application to Graduate to the Graduate School
- ☐ At least two weeks prior to defense circulate final thesis draft to Examination Committee members who sign the Thesis Approval Form.
- ☐ Submit final version of thesis to Graduate School

### **Ideal Non-thesis Master's Timetable**

#### Autumn semester

- ☐ Enroll in EEOB 8894
- ☐ Begin course work to remove any conditions of acceptance
- ☐ Begin graduate level course work
- ☐ Find an advisor by the end of autumn semester

#### Winter semester

- ☐ Continue graduate level course work
- ☐ Take EEOB 8894 at least once again

#### Succeeding semesters

- ☐ 30 semester credit hours (excluding 8894 and 6999) required for graduation, not more than 7 credit hours of which can be EEOB 6193.

#### Final semester

- ☐ Pick up Master's Procedures/Requirements Checklist from the Graduate School
- ☐ Register for 3 or more units
- ☐ Schedule Final Examination (four hour written portion is compulsory; oral portion is optional)
- ☐ No later than 2<sup>nd</sup> Friday of semester, submit Application to Graduate to the Graduate School

Student name \_\_\_\_\_ Date \_\_\_\_\_

## M.S. (Thesis) Graduation Requirement Form (Under semesters)

Please bring this completed form to the EEOB Graduate Studies Committee Chair when requesting a signature on the Application to Graduate. A copy of your current Advising Report will be helpful to you as you complete this form.

Requirements:

\_\_\_\_\_ EEOB 8894, autumn semester, year? \_\_\_\_\_

\_\_\_\_\_ EEOB 8894, winter, semester, year? \_\_\_\_\_

\_\_\_\_\_ Graduate seminars (e.g., EEOB 8896) at least one per year. Please list below:

Credit hours	Semester and year	Department and Course number
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	TOTAL	_____

\_\_\_\_\_ 16 semester credit hours of graduate-level\* coursework, excluding EEOB 6193, 8894, 6999. Please list in Table below. Note that these 16 credit hours include credit hours from seminar (listed above), but you need not list those again here.

Credit hours	Semester and year	Department and Course number
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	TOTAL	_____

Please continue list on back, if needed

The total minimum number of graduate semester credit hours required for graduation, including all of those courses and seminars listed above, is 30. We expect that most of these will come from Research credit hours, i.e., EEOB 6999.

## SUMMARY OF CREDIT HOURS

Total credit hours	Type of credit hours
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_____	EEOB 8894
_____	Seminars
_____	Graduate-level coursework (other than seminars)
_____	EEOB 6999
_____	Other (please describe)
_____	<b>TOTAL</b>

Please attach a current advising report.

\*In general, you can receive graduate credit for courses that are numbered 5000 or above in EEOB and 4000 or above in other departments. If it is relevant to your program, you should read "the fine print" included here from the Graduate School Handbook (<http://www.gradsch.ohio-state.edu/Faculty/GSpubs/Handbook.html>):

II.3.1.4 Non-graduate Credit. A student enrolled in the Graduate School does not earn graduate credit for any of the following reasons:

1. The course is numbered at the 3000-level or below
2. The course is numbered at the 4000-level in the student's own academic unit
3. The course is one of the following foreign language courses: French, German, Russian, or Spanish 571, 572, and 573, or Latin 571 and 572
4. The course is designated "U" (undergraduate credit) and/or "P" (professional credit) but not "G" (graduate credit) in the Course Offerings Bulletin.
5. The course is designated "non-graduate credit" (undergraduate "U" option) by the student's adviser at the time the student registers or adds the course.
6. The course is taught by a graduate student enrolled at this university.

A student registered for a non-graduate-credit course must complete the course requirements. A grade is reported by the instructor. The course title, semester credit hours, and grade appear on the student's official permanent record. The semester credit hours are not included in the cumulative or earned graduate semester credit hours, and the credit points are not included in the cumulative points. The Course Enrollment Permission form or change ticket is marked with a "U" to indicate that the course is a non-graduate-credit course.



## **EEOB Graduate Master's program under quarters**

### **Course requirements: Course Requirements**

The Master's Programs (thesis and non-thesis) include at least 45 graduate credit hours, at least 36 of which must be taken at Ohio State University over a period of at least three quarters. EEOB 880 must be taken during the first Autumn quarter in residence and at least once more during any Winter quarter. The thesis Master's must include 24 credit hours of formal graduate level course work excluding EEOB 693, 880, and 999. EEOB 880 counts as graded coursework. The non-thesis Master's Program must include 45 credit hours of formal graduate level course work, not including 880 and 999. Up to 10 credit hours of 693 can be included in a non-thesis Master's Program.

All incoming graduate students are required to enroll in the Center for Life Sciences Education (CLSE) teaching orientation. This class is offered over 2-3 days prior to Autumn quarter and is coordinated with the University Center for the Advancement of Teaching (UCAT). All graduate students are required to enroll in at least one graduate level seminar course each calendar year (not including EEOB 880). These courses are usually numbered EEOB 881, but other courses that involve intensive, small-group discussion of the recent primary literature are acceptable. There is no limit on the number of credit hours that may be earned in any given letter designation of EEOB 881. EEOB 881 counts towards the 24 credit hours of graded coursework inside or outside the unit. Colloquia and special seminars provide an important opportunity for students in the department to be introduced to research programs underway in the department as well as to hear reports from scientists from throughout the U.S. and other parts of the world. Attendance at the weekly departmental colloquia on a regular basis is expected of all graduate students.

**Research Advisor and Advisory Committee:** The decision to admit a student to the EEOB Graduate Program is based, in part, on the recommendations and support of a temporary advisor. In nearly all cases, this individual will serve as the student's advisor throughout his or her program. Nevertheless, this arrangement should be formalized no later than the end of the student's second quarter. The Thesis Committee comprises the advisor and two other members of Graduate Faculty and should be selected by the end of the student's third quarter.

### **Research Proposal**

All thesis Master's students must submit a proposal outlining their thesis research. The student's Thesis Committee must approve this proposal. The research proposal serves a number of functions. It ensures that the student has given careful thought to the research project, and helps involve the Thesis Committee with the student's project. Approval of the proposal by the Thesis Committee indicates their belief that the project is likely to succeed. Students in thesis Master's programs should submit a preliminary research proposal to their Thesis Committee by the end of their third quarter. The length and content should be decided on in discussion with the Thesis Committee, but would normally include an explanation of the problem being addressed, a literature review, a methods section, preliminary data if available, a discussion of appropriate data analyses, and a description of possible results and their interpretation. A timetable also should be included.

Following review of the proposal, the student's Thesis Committee will either (a) approve the proposal as written, (b) approve the proposal with modifications, or (c) require the student to submit a revised proposal for further Committee review. As students proceed with their research, minor modifications of the research plan may be implemented without full Committee approval. Major changes, however, require full Committee approval. Final approval of the research proposal should be obtained by the end of the fifth quarter in residence.

Upon approval of the research proposal, the student must submit an EEOB Department Research Proposal Approval Form, signed by all members of the Committee, to the Graduate Studies Committee Chair. A copy of this form must be given to the Graduate Secretary to be added to the student's file. The Chair of GSC will not sign the application to graduate Form until a Proposal Approval has been completed and signed, even if all research has been completed and the student is otherwise ready for the Final Examination.

### **Time Limit**

The Master's Program normally takes less than three years.

### **Thesis and Non-thesis Plans**

Students are admitted to either a thesis or non-thesis Master's Program. No other MS degrees are available. Students wishing to change the degree they are working towards must inform the GSC.

### **Master's Examination Committee**

It is recommended that at least two of the three members of the Examination Committee be members of the EEOB Graduate Faculty. Note that the requirement of three committee members in EEOB is one more than the minimum set by the Graduate School.

### **Master's Examination**

The thesis Master's Examination may include a written portion and must include an oral portion. The non-thesis Master's Examination may include an oral portion and must include a written portion of at least four hours.

**Annual Review:** Each January, all EEOB graduate students will submit a Graduate Student Annual Report (GSAR) complete with updated curriculum vitae (CV) to the GSC. The purpose of the GSAR is to allow the student, his or her advisor, and the GSC to review the progress of individual students in the EEOB Graduate Program. This report provides information concerning the student's academic and professional activities relative to program deadlines (e.g., proposal submission), academic performance, teaching, grant applications, publications, presentations and service as well as projections of future sources of support.

**Language Requirements:** Many incoming students need at least two quarters of spoken English classes before they are certified to teach, and many will take the Mock Teaching Test during finals week of their second quarter. This means that their eligibility to be a GTA is not determined until the final week of the quarter preceding their first teaching assignment. The rules for becoming eligible to be a GTA are listed in various places like the Grad Student Handbook and the OSU Spoken English Program, <http://esl.osu.edu/SEP/Courses.html#>. For incoming students, it is essential that they take the SPEAK test during the two weeks preceding Autumn quarter so they can get into the first class they will need, Ed T&L 104. The SPEAK test is

administered using taped responses to taped questions. If a student gets 230 out of 300 points, they can skip the Mock Teaching Test and be certified to teach. If they have a score of 190, they may take the Mock Teaching Test at the recommendation of their department. During the first week of Ed T&L 104, all students take a diagnostic test with the staff to determine whether they should be placed in Ed T&L 105. This test can help a student make faster progress if they did not do well enough on the SPEAK test. (This is not mentioned on the SEP website). Many students have to take Ed T&L 105 before they can take the Mock Teaching Test, which must be passed to be a GTA who has contact with students.

## **Academic Requirements**

### **Admission Criteria**

In addition to the Graduate School requirements, the Graduate Program in EEOB requires 40 quarter hours of biology, 10 quarter hours of physics, 10 quarter hours of mathematics including calculus, and 15 quarter hours of chemistry including organic or biochemistry. Graduate Record Examination scores from the general tests (verbal, quantitative, and written) are required. The Advanced Biology GRE test is not required for admission.

**General Requirements:** Students must maintain a graduate cumulative point-hour ratio (CPHR) of at least a 3.0 (Note that courses for which students do not earn graduate credit are not used in calculating in the graduate CPHR. See Section IV, Graduate School Handbook).

### **Ideal Thesis MS Timetable**

#### **First Quarter**

- If Fall Quarter, enroll in EEOB 880
- Begin course work to remove any conditions of acceptance
- Begin graduate level course work
- Select research topic

#### **Second Quarter**

- Confirm permanent advisor
- Continue courses to remove any conditions of acceptance
- Continue graduate level course work
- Take second EEOB 880 (graduate student presentations)
- Begin preparation of research proposal

#### **Third Quarter**

- Choose a research topic
- Choose and meet with Planning Committee
- Submit research proposal (signed form to Chair of GSC)
- Continue graduate level course work

#### **Fourth Quarter**

- Begin data collection for thesis research

#### **Succeeding Quarters**

- Continue research
- 45 credits required for graduation, including 24 classroom hours

#### Last Quarter

- Pick up Master's Degree Procedures/Requirements Checklist from the Graduate School
- Register for 3 or more credit hours
- Schedule Final Examination
- No later than 2<sup>nd</sup> Friday of quarter, submit Application to Graduate to the Graduate School
- At least two weeks prior to defense circulate final thesis draft to Examination Committee members who sign the Thesis Approval Form.
- Submit final version of thesis to Graduate School

### **Ideal Non-thesis MS Timetable**

#### First Quarter

- If Fall Quarter, enroll in EEOB 880
- Begin course work to remove any conditions of acceptance
- Begin graduate level course work

#### Second Quarter

- Find an advisor by the end of second quarter
- Continue graduate level course work
- Take EEOB 880 at least once again

#### Succeeding Quarters

- 45 credit hours (excluding 880 and 999) required for graduation, not more than 10 of which can be 693.

#### Final Quarter

- Pick up Master's Procedures/Requirements Checklist from the Graduate School
- Register for 3 or more credits
- Schedule Final Examination (four hour written portion is compulsory; oral portion is optional)
- No later than 2<sup>nd</sup> Friday of quarter, submit Application to Graduate to the Graduate School

Student name \_\_\_\_\_ Date \_\_\_\_\_

## M.S. (Thesis) Graduation Requirement Form (Under quarters)

Please bring this completed form to the EEOB Graduate Studies Committee Chair when requesting a signature on the Application to Graduate. A copy of your current Advising Report will be helpful to you as you complete this form.

Requirements:

\_\_\_\_\_ EEOB 880, autumn quarter, year? \_\_\_\_\_

\_\_\_\_\_ EEOB 880, winter quarter, year? \_\_\_\_\_

\_\_\_\_\_ Graduate seminars (e.g., EEOB 881) at least one per year. Please list below:

Credit hours	Quarter and year	Department and Course number
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_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	TOTAL	

\_\_\_\_\_ 24 credit hours of graduate-level\* coursework, excluding EEOB 693, 880, 999. Please list in Table below. Note that these 24 credit hours include credit hours from seminar (listed above), but you need not list those again here.

Credit hours	Quarter and year	Department and Course number
--------------	------------------	------------------------------

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	TOTAL	

Please continue list on back, if needed

The total minimum number of graduate credit hours required for graduation, including all of those courses and seminars listed above, is 45. We expect that most of these will come from Research credit hours, i.e., EEOB 999.

## SUMMARY OF CREDIT HOURS

Total credit hours	Type of credit hours
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_____	EEOB 880
_____	Seminars
_____	Graduate-level coursework (other than seminars)
_____	EEOB 999
_____	Other (please describe)
_____	<b>TOTAL</b>

Please attach a current advising report.

\*In general, you can receive graduate credit for courses that are numbered 600 or above in EEOB and 500 or above in other departments. If it is relevant to your program, you should read “the fine print” included here from the Graduate School Handbook (<http://www.gradsch.ohio-state.edu/Faculty/GSpubs/Handbook.html>):

II.3.1.4 Non-graduate Credit. A student enrolled in the Graduate School does not earn graduate credit for any of the following reasons:

1. The course is numbered at the 400-level or below
2. The course is numbered at the 500-level in the student’s own academic unit
3. The course is one of the following foreign language courses: French, German, Russian, or Spanish 571, 572, and 573, or Latin 571 and 572
4. The course is designated “U” (undergraduate credit) and/or “P” (professional credit) but not “G” (graduate credit) in the Course Offerings Bulletin.
5. The course is designated “non-graduate credit” (undergraduate “U” option) by the student’s adviser at the time the student registers or adds the course.
6. The course is taught by a graduate student enrolled at this university.

A student registered for a non-graduate-credit course must complete the course requirements. A grade is reported by the instructor. The course title, credit hours, and grade appear on the student’s official permanent record. The credit hours are not included in the cumulative or earned graduate credit hours, and the credit points are not included in the cumulative points. The Course Enrollment Permission form or change ticket is marked with a “U” to indicate that the course is a non-graduate-credit course.

### Course listing of EEOB graduate courses suitable for the MS program

Semester course number	Course title	Semester credit hours	Quarter equivalent course number	Quarter credit hours	Notes
5189	Field Work	1-12	EEOB 510 EEOB 513 EEOB 622 EEOB 651 EEOB 657	5 3 5 5 5	Replaces EEOB 510, 513, 622, 651 and 657
5310	Advanced Principles of Evolution	3	EEOB 673	5	Replaces EEOB 673 - Evolutionary processes in plant
5320	Creation and Evolution: Differing Worldviews	3	EEOB 710	5	Replaces EEOB 710 - Creation and Evolution: Differing Worldviews
5410	Aquatic Ecosystems - Ocean Ecology	1.5	EEOB 505	5	Modification of EEOB 505 - Marine biology and ecology
5420	Aquatic Ecosystems - Ecology of Inland Waters	1.5	EEOB 647 EEOB 655	5 5	Modification of EEOB 647 (Plankton) and EEOB 655 (Limnology)
5430	Aquatic Ecosystems - Fish Ecology	1.5	EEOB 626 EEOB 621	5 5	Modification of EEOB 626 - Biology of Fishes and EEOB 621 – Ichthyology
5450	Population Ecology	3	EEOB 671	5	Replaces EEOB 671
5460	Physiological Ecology	3	EEOB 654.01 EEOB 674	4 5	Modification of EEOB 654.01 (Ecological Physiology of Animals) and EEOB 674 (Physiological Ecology of Plants)
5470	Community and Ecosystem Ecology	3	EEOB 720 EEOB 700	5 5	Modification of EEOB 720 (Community Ecology and Ecosystems) and the ecological content of EEOB 700 (Biogeography)
5797	Graduate Study at a	1-12	EEOB 697	1-15	Replaces EEOB 697 -

	Foreign Institution				Study at a foreign institution
5910	Focused biological studies at Stone Lab - reptiles and amphibians	3	EEOB 622	5	Replaces EEOB 622 (Herp)
5920	Focused biological studies at Stone Lab - Aquatic and Wetland Plants	3	EEOB 611	5	Replaces EEOB 611 (Aquat Wetland Flora)
5930	Focused biological studies at Stone Lab - Fishes	3	EEOB 621	5	Replaces EEOB 621 (Ichthyology)
5940	Focused biological studies at Stone Lab - Field Zoology	3	EEOB 651	5	Replaces EEOB 651 (Field Zoo)
5950	Workshops on aquatic organism identification at Stone Lab - Algae	0.5	EEOB 692	1-6	Replaces EEOB 692 (Workshop)
5960	Workshops on aquatic organism identification at Stone Lab - Plankton	0.5	EEOB 692	1-6	Replaces EEOB 692 (Workshop)
5970	Workshops on aquatic organism identification at Stone Lab - Larval Fish	0.5	EEOB 692	1-6	Replaces EEOB 692 (Workshop)
6193	Graduate Individual Studies	1-3	EEOB 693	2-10	Replaces EEOB 693 - Individual studies
6194	Graduate Group Studies	1-3	EEOB 694	2-5	Replaces EEOB 694 - Group studies
6210	Ecotoxicology	2-4	ENT 762	3	Replaces ENT 762 - Environmental toxicology and chemistry
6310	Molecular Evolution	3	EEOB 640	5	Replaces EEOB 640 - the genetic basis of evolution
6320	Principles of Systematics	3	EEOB 861	3	Enhancement of EEOB 861 - Principles of systematic
6330	Phylogenetic Methods	3	ENT 626	3	Enhancement of Ent 626 – Cladistic Methods
6340	Biodiversity Informatics	3			New course
6999	Research for Dissertation or Thesis	1-12	EEOB 999	1-18	Replaces EEOB 999



7210	Molecular Methods in Evolution and Ecology	1	EEOB 713	5	Replaces EEOB 713: Molecular ecology
7220	Modeling in Evolutionary Ecology	4	EEOB 714.01 EEOB 714.02	4 2	Replaces EEOB 714.01 and 714.02 - Theoretical Ecology Lecture and Lab
7310	Studies in Taxonomy	1-4	EEOB 672	5	Replaces EEOB 672 - Taxonomy of Vascular Plants
7410	Ecological Methods II	1	EEOB 513 EEOB 622 EEOB651 EEOB 657 EEOB 671	3 5 5 5 5	Replaces EEOB 513, 622, 651, 657, and 671 (field ecology courses on various topics)
8894	EEOB graduate student seminar	1-2	EEOB 880	1-2	Replaces EEOB 880 – Seminar
8896.01	EEOB graduate seminar in EEOB session 1	1-2	EEOB 881	1-3	Replaces EEOB 881 – Seminar
8896.02	EEOB graduate seminar in EEOB session 2	1	EEOB 881	1	Replaces EEOB 881
8896.03	EEOB graduate seminar in EEOB session 3	1	EEOB 881	1	Replaces EEOB 881
8896.04	EEOB graduate seminar in EEOB session 4	1	EEOB 881	1	Replaces EEOB 881
8896.05	EEOB graduate seminar in EEOB session 5	1	EEOB 881	1	Replaces EEOB 881
8896.06	EEOB graduate seminar in EEOB session 6	1	EEOB 881	1	Replaces EEOB 881

### **Transition Policy: EEOB Master's program**

Master's students who begin their degree under quarters will not be penalized in any way during the transition to semesters. Since courses and program decisions are determined by discussions between the student and her/his major advisor, the student's Graduate Advisory Committee, the departmental Graduate Studies Committee, and are specific to the needs of her/his specific area of research, we do not foresee any major difficulties arising during the transition from quarters to semesters. Credit hours earned under quarters will be converted to semester credit hours using a 2/3 conversion factor.