Appendix A: Course requirements for the PhD Degree of Evolution, Ecology, and Organismal Biology

Summary of EEOB Evolutionary Biology PhD Track

Intro Course:	BIOL 400 Introduction to graduate studies at UCR
Disciplinary Core Course:	BIOL 216 The Theory of Evolution; or the equivalent
Disciplinary Courses:	At least two from the following courses: BIOL 211 Genes to Ecosystems BIOL 212 Ecological Systems in Space and Time BIOL 213 Behavioral Ecology BIOL 214 Population Genetics BIOL 217 Advanced Population and Community Ecology BIOL 219 Theory of Systematics BIOL 220 Evolutionary Physiology
Current Research Topics Courses:	In each quarter of residence (both classes): BIOL 252 General Colloquium in Biology or another disciplinary colloquium BIOL 265 Advances in Population and Evolutionary Biology / Lunch Bunch
Written Qualifying Exam Due Date:	Papers are due no later than the end of week 8 of the spring quarter of the second year in the Ph.D. program. Resubmissions will be required by the beginning of the winter quarter of the third year.
Written Qualifying Exam Format:	Maximum length of 4500 words excluding tables, figures, and citations; Times Roman 12 point font (or the equivalent in size and clarity), double-spaced, left-justified, with 1" margins all around; no more text than 15 pages double-spaced. Give citations in the text by name and date (not by number).
Written Qualifying Exam Evaluation:	Submitted papers will be circulated to the faculty of the Evolutionary Biology Track for evaluation.
Written Qualifying Exam Results:	1. The student passes the Written Qualifying Exam if the paper shows that the student is ready to proceed in developing the dissertation proposal. Alternatively, if there are serious flaws in the paper, the faculty may decide either to allow one resubmission, or not to allow resubmission. 2. Faculty will provide specific comments (constructive criticisms) for purposes of revising the pre-proposal to become the Research Proposal for the Oral Qualifying Exam
Oral Qualifying Exam:	Typically follows within a few months after successfully completing the written exam and should be completed no later than the end of the ninth quarter of residence (usually Spring quarter of the third year).

Summary of the EEOB Ecology PhD Track

Intro Course:	BIOL 400 Introduction to graduate studies at UCR
Disciplinary Core Course:	BIOL 211 Genes to Ecosystems
Disciplinary Courses:	At least two from the following courses: BIOL 212 Ecological Systems in Space and Time BIOL 213 Behavioral Ecology BIOL 217 Advanced Population and Community Ecology BPSC 246 Advanced Plant Ecology (focus on ecosystem ecology) BPSC 247 Ecological Theory and Modeling BPSC 243 Physiological Ecology ENSC 232 Biogeochemistry SWSC/MCBL 211 Microbial Ecology
Current Research Topics Courses:	In each quarter of residence (both classes): BIOL 252 General Colloquium in Biology or another disciplinary colloquium BIOL 265 Advances in Population and Evolutionary Biology / Lunch Bunch
Written Qualifying Exam Due Date:	Papers are due no later than the end of week 8 of the spring quarter of the second year in the Ph.D. program. Resubmissions will be required by the beginning of the winter quarter of the third year.
Written Qualifying Exam Format:	Maximum length of 4500 words excluding tables, figures, and citations; Times Roman 12 point font (or the equivalent in size and clarity), double-spaced, left-justified, with 1" margins all around; no more text than 15 pages double-spaced. Give citations in the text by name and date (not by number).
Written Qualifying Exam Evaluation:	Submitted papers will be circulated to the faculty of the Ecology Track, with individual faculty members leading discussion of each paper and summarizing the group evaluation in writing for the student.
Written Qualifying Exam Results:	1. The student passes the Written Qualifying Exam if the paper shows that the student "is ready to start research." Alternatively, if there are serious flaws in the paper, the faculty may decide either to allow one resubmission, or not to allow resubmission. 2. Faculty will provide specific comments (constructive criticisms) for purposes of revising the pre-proposal to become the Research Proposal for the Oral Qualifying Exam
Oral Qualifying Exam:	Typically follows within a few months after successfully completing the written exam and should be completed no later than the end of the ninth quarter of residence (usually Spring quarter of the third year).

Summary of the EEOB Physiology and Biophysics PhD Track

Intro Course:	Introduction to graduate studies at UCR (Biol. 400)
Disciplinary Core Course:	Research in Physiology--Biology 297 two units each in the first four quarters of residence for a total of 8 quarters. Example: Fall (year 1) Research proposal (oral) and Research Winter (year 1) Research Spring (year 1) Research Fall (year 2) Oral presentation of results and Written manuscript
Disciplinary Courses:	*Two 200 level physiology courses (see list below).* CMDB 200 Cell Biology or CBNS 200A Fundamentals of Neuroscience: Molecular and cellular mechanisms CMDB 201 Molecular Biology CBNS 200B Fundamentals of Neuroscience: Neural and hormonal systems CMDB 202 Developmental Biology CBNS 200C Fundamentals of Neuroscience: Neural control of behavior BIOL 203 Cellular Physiology and Biophysics BIOL 216 Theory of Evolution BIOL 220 Evolutionary Physiology ENTM 201 Structure and Function of Insects ENTM 243 Advanced Insect Physiology, Biochemistry, and Molecular Biology
Current Research Topics Courses:	BIOL 252 General Colloquium in Biology or another disciplinary colloquium BIOL 265 Advances in Population and Evolutionary Biology / Lunch Bunch
Written Qualifying Exam Due Date:	Papers are due no later than the end of week 8 of the spring quarter of the second year in the Ph.D. program. Resubmissions will be required by the beginning of the winter quarter of the third year.
Written Qualifying Exam Format:	Prepared as an expanded NSF Dissertation Improvement grant proposal; Times Roman 12 point font (or the equivalent in size and clarity), double-spaced, not right-justified, with 1" margins all around; no more than 30 pages double-spaced, including figures and tables, but not including literature cited
Written Qualifying Exam Evaluation:	The Physiology and Biophysics Faculty will evaluate the research plan using two criteria. First, is the proposed research significant, and does the plan clearly explain its relationship to other work in the field? Second, does the proposed work appear to be feasible in general terms, i.e., is there evidence that the questions posed can be addressed effectively?
Written Qualifying Exam Results:	1. The student passes the Written Qualifying Exam if the pre-proposal shows that the student "is ready to start research." Alternatively, if there are serious flaws in the pre-proposal, the faculty may decide either to allow one resubmission, or not to allow resubmission. 2. Faculty will provide specific comments (constructive criticisms) for purposes of revising the pre-proposal to become the Research Proposal for the Oral Qualifying Exam
Oral Qualifying Exam:	Typically follows within a few months after successfully completing the written exam and should be completed no later than the end of the ninth quarter of residence (usually Spring quarter of the third year).