KENT STATE UNIVERSITY CERTIFICATION OF CURRICULUM PROPOSAL

		Freparation Dat	e 5-0ct-17	Curriculum Bulletin				
		Effective Date	Fall 2018	Approved by EPC				
Department	Biological Scienc	A E						
College	AS - Arts and Scie							
Degree			by					
Program Name	PHD - Doctor of Philosophy Biological Sciences-Ecology Program Banner Code ECOL							
Concentration(s)		Concentration(s) Banner Code(s)						
Proposal	Revise program	dadon(s) Danner	Code(s)					
, ropoda,	Revide program							
Description of propo	osal:							
We propose to cha Sciences- Ecology	ange the name of the and Evolutionary E	e Biological Sci Biology.	ences-Ecolog	y program to Biological				
This name change better reflects the direction of the field.								
Does proposed revi	sion change program	's total credit hou	rs? 🗆 Yes	⊠ No				
	nours: 60/90			0/90				
Describe impact on staffing consideratio No impact.	other programs, polic ns; need; audience; p	ies or procedure prerequisites; tea	s (e.g., duplica cher educatior	tion issues; enrollment and nicensure):				
	er departments, prog		es affected by t	his proposal):				
)			The special region of the second records from the periods on the latter supposing up.				
Ken	4,	REQUIRED END	ORSEMENTS	10,511				
Department Chair / S	chool Director							
				1 1				
Campus Dean (for R	egional Campuses pr	oposals)						
Mary an	n Haley			10120117 10,31,17				
College Deah (or des	ignee)			1				
Dean of Graduate Stu	rdy (onosals)		10,31,17				
_ turn or ordered off	and the Alactara bi	oposais)						
Senior Vice President	for Acadomic Affaire	and Drawast /	doniems = 1					
Comor vice i legidelli	To Academic Analis	and Provost (or	uesignee)					

Proposal Summary Name Change and Curricular Updates to the Biological Sciences-Ecology Program [PhD ECOL]

Description of Action, Including Intended Effect

Since the initial establishment of our PhD program in Biological Sciences-Ecology the fields of biology have changed as has the research focus of our Department. In order to have highly qualified graduate applicants, which is directly connected to our ability to sustain high levels of research productivity, as measured by grants and peer-reviewed publications- we propose a degree title update to Biological Sciences-Ecology and Evolutionary Biology. The proposed title is consistent with our current and future research focus areas and will be more likely to appeal to the high quality students we are seeking.

Proposed Title Changes

 PhD in Biological Sciences- Ecology changed to Biological Sciences- Ecology and Evolutionary Biology.

Proposed Curricular Changes

We will now require all Biological Sciences-Ecology students to take 6/70103 Biological Statistics and 6/70184 Responsible Conduct in Research in Teaching.

Impact on Other Programs, Course Offerings, Students, Faculty, Staff (e.g., duplication issues)

There will be no impact on other programs, course offerings, students, faculty, or staff.

Fiscal, Enrollment, Facilities and Staffing Considerations

There are no issues here.

Evidence of Need and Sustainability if Establishing

N/A

Provisions for Phase-Out if Inactivating

N/A

Timetable and Actions Required: a chronology of actions required to approve the proposal with an anticipated implementation date for each action

Departmental Approval	Spring 2017
A&S CCC Approval	Fall 2017
EPC Approval	Fall 2017
Effective Date	Fall 2018



BIOLOGICAL SCIENCES - ECOLOGY Biology - PH.D.

College of Arts and Sciences

Department of Biological Sciences 256 Cunningham Hall Kent Campus 330-672-3613

kentbiology@kent.edu www.kent.edu/biology

Description

and Evolutionary Biology The Ph.D. degree in Biological Sciences—Ecology provides opportunities to study in areas such as animal behavior, entomology, limnology, microbial ecology, ornithology, systems ecology, systematic and evolutionary biology, environmental physiology, vertebrate ecology and population and community ecology. Although courses of study are tailored to students' interests and needs. the program for all students normally includes training in population, community, ecosystems and evolutionary ecology and statistical theory. Because of the interdisciplinary nature of ecology, students are encouraged to take courses in geology, mathematics, chemistry and other disciplines.

FULLY OFFERED AT

Kent Campus

Admission Requirements

Official transcript(s)

GRE scores

of 4

Goal statement

Three letters of recommendation

A list of up five potential faculty advisors

Baccalaureate and a strong background in biology and related subjects such as chemistry and mathematics

English Language Proficiency Requirements for International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 587 TOEFL score (94 on the Internet-based version), minimum 82 MELAB score, minimum 7.0 IELTS score or minimum 65 PTE Academic score. For more information on international admission, visit the Office of Global Education's admission website. Effective spring 2018.

Deficiencies at the time of admission shall be rectified during the first year of graduate study. Before admission can be completed, a prospective student must be accepted by a faculty member in the ecology program who will serve as the advisor.

For more information about graduate admissions, please visit the **Graduate Studies** website.

Program Learning Outcomes

Graduates of this program will be able to:

- 1 Understand advanced biological concepts beyond the scope of the typical undergraduate degree, and increase the depth of their knowledge through coursework and hands-on experiences.
- 2 Apply scientific principles and appreciate work outside of their particular field.
- **3** Effectively communicate about science with colleagues as well as those outside of the student's area of expertise.
- **4** Develop the necessary laboratory skills that will allow testing of hypotheses.

Program Requirements

MAJOR REQUIREMENTS

[AS-PHD-ECOL]

Major Requirements		
BSCI 70184 RESPONSIBLE CONDUCT IN RESEARCH AND TEACH	HING-BIOLOGICAL	02
SCIENCES 1 \		
ECOLOGICAL AND EVOLUTIONARY GENETICS	BSCI 60103	2
EVOLUTIONARY BIOLOGY 50372	70103	2
BSCI 70372 COMMUNITIES AND ECOSYSTEMS	Biological Statistics (3) ² 2
BSCI 70373 POPULATION AND COMMUNITY ECOLOGY		2
BSCI 70391 SEMINAR IN ECOLOGY 23		13
BSCI 80199 DISSERTATION 134		30
Additional Requirements 2,3 appropriate	•	20-52- 4
Departmental Seminar Presented by Student 45		
Minimum Total Credit Hours for Post-Baccalaureate Student	:s	90
Minimum Total Credit Hours for Post-Master's Students		60
	Ē.	

Students who will serve as teaching assistants are required to take BSCI 70184 their first semester (or the following fall semester for those starting their studies in spring semester).

✓ Students are required to enroll in <u>BSCI 70391</u> every semester until they have passed their Candidacy exam.

Each doctoral candidate, upon admission to candidacy, must register for BSCI 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter BSCI 80299, each semester, including summer, until all requirements for the degree have been met. It is expected that candidates will present the results of their research in a defense open to students and faculty, at which the dissertation will be presented an defended before the dissertation committee, with not more than one negative vote, in order to be recommended to the

20 hours of formal graded course work is re Course substitutions for a different graduate-level statistics of 4 class can be made if deemed appropriate by the advisor guidance committee. 3:20 PM

Department of Biological Sciences and the College of Arts and Sciences for degree conferral.



Students are required to present at least one departmental seminar about their research.

CANDIDACY

Students are admitted to doctoral candidacy following successful completion of both written and oral candidacy examinations. These exams are based on prior coursework and coursework taken in this graduate program as determined by the students' academic Guidance Committee, which must consist of at least three eligible faculty members. The advisor(s) and a majority of members of the Guidance Committee must be members of the appropriate graduate program. This committee is responsible for determining the students' academic curriculum and for administering the candidacy exams.



John R. Kasich, Governor John Carey, Chancellor

CHANGE REQUEST: NAME MODIFICATION

Date of submission: October 5, 2017

Name of institution: Kent State University

Previously approved title: Biological Sciences- Ecology-PhD

Proposed new title: Biological Sciences- Ecology and Evolutionary Biology- PhD

Proposed implementation date of the request: Fall 2018

Date that the request received final approval from the appropriate institutional committee:

[DATE] (Kent State University Board of Trustees)

Primary institutional contact for the request

Name:

Melody J. Tankersley, PhD

Title:

Senior Associate Provost and Dean of Graduate Studies

Phone:

330-672-8613

E-mail:

mtankers@kent.edu

Educator Preparation Programs:

Leads to licensure:

No [change to Yes if true]

Leads to endorsement:

No

Explain the rationale for name change.

Since the initial establishment of our PhD program in Biological Sciences-Ecology the fields of biology have changed as has the research focus of our Department. In order to have highly qualified graduate applicants, which is directly connected to our ability to sustain high levels of research productivity, as measured by grants and peer-reviewed publications- we propose a degree title update for Ecology. The proposed title and curricular changes are consistent with our current and future research focus areas and will be more likely to appeal to the high quality students we are seeking.

Describe how the name change will affect students in the current program.

The name change is still inclusive of the students we currently have in the program and thus will have no impact on current students in the program. Current students will be able to complete their program requirements as the courses will continue to be offered.

Describe any faculty, administrative or support service changes occurring along with the name change.

BSC1

No support changes are required

Provide evidence that the appropriate accreditation agencies been informed of the proposed change (if applicable). n/a

Describe how the effectiveness of the new curriculum will be monitored over time.

The effectiveness of our new curriculum will be evaluated by the quality of our applicant pool as well as the successful completion of our degree program. The first can be evaluated by average GPAs, GRE scores, and percentage of applicants with Master's degrees. The second can be evaluated by the time to degree completion.

Submit a comparison of the currently authorized curriculum and the proposed curriculum.

Previously Authorized Curriculum	Credit Hours	Proposed Curriculum	Credit Hours
Ecological and Evolutionary Genetics, BSCI 5/70370	2	Ecological and Evolutionary Genetics, BSCI 5/70370	2
Evolutionary Biology, BSCI 5/70371	2	Evolutionary Biology, BSCI 5/70371	2
Communities and Ecosystems, BSCI 5/70372	2	Communities and Ecosystems, BSCI 5/70372	2
Population and Community Ecology, BSCI 5/70373	2	Population and Community Ecology, BSCI 5/70373	2
Responsible Conduct in Research and Teaching, BSCI 6/70184	0-2	Responsible Conduct in Research and Teaching, BSCI 6/70184	2
Seminar each semester until candidacy	1	Seminar in Ecology each semester until candidacy, BSCI 6/70391	3-6
		Biological Statistics, BSCI 6/70103	3
Additional Requirements	20-52	Additional electives as appropriate**	41-44
Dissertation I, BSCI 80199	30	Dissertation I, BSCI 80199	30

^{*60} hours post masters or 90 hours past baccalaureate degrees.

Kent State University verifies that the information in this request is truthful and accurate.

Respectfully,

Todd A. Diacon, PhD Senior Vice President for Academic Affairs and Provost



^{**20} hours of formal graded coursework is required