

1. General Information

1a. Submitted by the College of: AGRICULTURE, FOOD AND ENVIRONMENT

Date Submitted: 10/13/2014

1b. Department/Division: Entomology

1c. Contact Person

Name: Charles Fox

Email: cfox@uky.edu

Phone: 859-257-7474

Responsible Faculty ID (if different from Contact)

Name:

Email:

Phone:

1d. Requested Effective Date: Semester following approval

1e. Should this course be a UK Core Course? No

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SENATE COUNCIL

2. Designation and Description of Proposed Course

2a. Will this course also be offered through Distance Learning?: No

2b. Prefix and Number: ENT 670

2c. Full Title: Scientific publishing: Process and ethics

2d. Transcript Title: Scientific publishing: Process and ethics

2e. Cross-listing:

2f. Meeting Patterns

DISCUSSION: 4

2g. Grading System: Letter (A, B, C, etc.)

2h. Number of credit hours: 2

2i. Is this course repeatable for additional credit? No

If Yes: Maximum number of credit hours:

If Yes: Will this course allow multiple registrations during the same semester?

2j. Course Description for Bulletin: An introduction to scientific publishing, including types of scientific journals, choosing where to publish, the structure of scientific papers, the peer review process, data management and archiving, post-publication promotion of research, metrics of scientific impact such as impact factors and altmetrics, and publication ethics.

2k. Prerequisites, if any:

2l. Supplementary Teaching Component:

3. Will this course taught off campus? No

If YES, enter the off campus address:

4. Frequency of Course Offering: Spring,

Will the course be offered every year?: No

If No, explain: Tentatively the course will be offered alternate years, though this could be changed to every year if enrollment supports more frequent offerings:

5. Are facilities and personnel necessary for the proposed new course available?: Yes

If No, explain:

6. What enrollment (per section per semester) may reasonably be expected?: 20

7. Anticipated Student Demand

Will this course serve students primarily within the degree program?: No

Will it be of interest to a significant number of students outside the degree pgm?: Yes

If Yes, explain: I expect the course to be of interest to a wide diversity of graduate students in biological science programs in Ag, A&S and Medicine.

8. Check the category most applicable to this course: Not Yet Found in Many (or Any) Other Universities ,

If No, explain:

9. Course Relationship to Program(s).

a. Is this course part of a proposed new program?: No

If YES, name the proposed new program:

b. Will this course be a new requirement for ANY program?: No

If YES, list affected programs:

10. Information to be Placed on Syllabus.

a. Is the course 400G or 500?: No

b. The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if applicable, from 10.a above) are attached: Yes

Distance Learning Form

Instructor Name:

Instructor Email:

Internet/Web-based: No

Interactive Video: No

Hybrid: No

1. How does this course provide for timely and appropriate interaction between students and faculty and among students? Does the course syllabus conform to University Senate Syllabus Guidelines, specifically the Distance Learning Considerations?

2. How do you ensure that the experience for a DL student is comparable to that of a classroom-based student's experience? Aspects to explore: textbooks, course goals, assessment of student learning outcomes, etc.

3. How is the integrity of student work ensured? Please speak to aspects such as password-protected course portals, proctors for exams at interactive video sites; academic offense policy; etc.

4. Will offering this course via DL result in at least 25% or at least 50% (based on total credit hours required for completion) of a degree program being offered via any form of DL, as defined above?

If yes, which percentage, and which program(s)?

5. How are students taking the course via DL assured of equivalent access to student services, similar to that of a student taking the class in a traditional classroom setting?

6. How do course requirements ensure that students make appropriate use of learning resources?

7. Please explain specifically how access is provided to laboratories, facilities, and equipment appropriate to the course or program.

8. How are students informed of procedures for resolving technical complaints? Does the syllabus list the entities available to offer technical help with the delivery and/or receipt of the course, such as the Information Technology Customer Service Center (<http://www.uky.edu/UKIT/>)?

9. Will the course be delivered via services available through the Distance Learning Program (DLP) and the Academic Technology Group (ATL)? NO

If no, explain how student enrolled in DL courses are able to use the technology employed, as well as how students will be provided with assistance in using said technology.

10. Does the syllabus contain all the required components? NO

11. I, the instructor of record, have read and understood all of the university-level statements regarding DL.

Instructor Name:

SIGNATURE|JOBRY2|John J Obryck|ENT 670 NEW Dept Review|20140926

SIGNATURE|LGRABAU|Larry J Grabau|ENT 670 NEW College Review|20141013

SIGNATURE|ZNNIKO0|Roshan N Nikou|ENT 670 NEW Graduate Council Review|20141024

Courses	Request Tracking
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New Course Form

https://myuk.uky.edu/sap/bc/soap/rfc?services=

[Open in full window to print or save](#)

Generate R

Attachments:

Upload File

	ID	Attachment
Delete	3760	ENT 670 New course letter.pdf
Delete	3762	ENT 670 Entomology Faculty Approval.pdf
Delete	3866	ENT 670 Syllabus.pdf

Select saved project to retrieve...

(*denotes required fields)

1. General Information

- a. * Submitted by the College of: Submission Date:
- b. * Department/Division:
- c.
 - * Contact Person Name: Email: Phone:
 - * Responsible Faculty ID (if different from Contact): Email: Phone:
- d. * Requested Effective Date: Semester following approval OR Specific Term/Year¹
- e.
 - Should this course be a UK Core Course? Yes No
 - If YES, check the areas that apply:
 - Inquiry - Arts & Creativity Composition & Communications - II
 - Inquiry - Humanities Quantitative Foundations
 - Inquiry - Nat/Math/Phys Sci Statistical Inferential Reasoning
 - Inquiry - Social Sciences U.S. Citizenship, Community, Diversity
 - Composition & Communications - I Global Dynamics

2. Designation and Description of Proposed Course.

- a. * Will this course also be offered through Distance Learning? Yes⁴ No
- b. * Prefix and Number:
- c. * Full Title:
- d. Transcript Title (if full title is more than 40 characters):
- e. To be Cross-Listed² with (Prefix and Number):
- f. * Courses must be described by at least one of the meeting patterns below. Include number of actual contact hours³ for each meeting pattern type.

<input type="text"/> Lecture	<input type="text"/> Laboratory ¹	<input type="text"/> Recitation	<input type="text" value="4"/> Discussion
<input type="text"/> Indep. Study	<input type="text"/> Clinical	<input type="text"/> Colloquium	<input type="text"/> Practicum
<input type="text"/> Research	<input type="text"/> Residency	<input type="text"/> Seminar	<input type="text"/> Studio
<input type="text"/> Other	If Other, Please explain: <input type="text"/>		
- g. * Identify a grading system:
 - Letter (A, B, C, etc.)
 - Pass/Fail
 - Medicine Numeric Grade (Non-medical students will receive a letter grade)
 - Graduate School Grade Scale
- h. * Number of credits:
- i. * Is this course repeatable for additional credit? Yes No
 - If YES: Maximum number of credit hours:
 - If YES: Will this course allow multiple registrations during the same semester? Yes No

j. * Course Description for Bulletin:

An introduction to scientific publishing, including types of scientific journals, choosing where to publish, the structure of scientific papers, the peer review process, data management and archiving, post-publication promotion of research, metrics of scientific impact such as impact factors and altmetrics, and publication ethics

k. Prerequisites, if any:

l. Supplementary teaching component, if any: Community-Based Experience Service Learning Both

3. * Will this course be taught off campus? Yes No

If YES, enter the off campus address:

4. Frequency of Course Offering.

a. * Course will be offered (check all that apply): Fall Spring Summer Winter

b. * Will the course be offered every year? Yes No

If No, explain: Tentatively the course will be offered alternate years, though this could be changed to

5. * Are facilities and personnel necessary for the proposed new course available? Yes No

If No, explain:

6. * What enrollment (per section per semester) may reasonably be expected? 20

7. Anticipated Student Demand.

a. * Will this course serve students primarily within the degree program? Yes No

b. * Will it be of interest to a significant number of students outside the degree pgm? Yes No

If YES, explain:

I expect the course to be of interest to a wide diversity of graduate students in biological science programs in Ag, A&S and Medicine.

8. * Check the category most applicable to this course:

Traditional – Offered in Corresponding Departments at Universities Elsewhere

Relatively New – Now Being Widely Established

Not Yet Found in Many (or Any) Other Universities

9. Course Relationship to Program(s).

a. * Is this course part of a proposed new program? Yes No

If YES, name the proposed new program:

b. * Will this course be a new requirement¹ for ANY program? Yes No

If YES², list affected programs:

10. Information to be Placed on Syllabus.

a. * Is the course 400G or 500? Yes No

If YES, the *differentiation for undergraduate and graduate students must be included* in the information required in 10.b. You must include: (i) ident additional assignments by the graduate students; and/or (ii) establishment of different grading criteria in the course for graduate students. (See SR

b. * The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if appl 10.a above) are attached.

¹ Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.
² The chair of the cross-listing department must sign off on the Signature Routing Log



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Thank you for considering this new proposal for a new course, ENT 670, titled "Scientific publishing: Process and ethics." This course has been reviewed and approved by the ENT faculty and department chair.

This new course grew out of a workshop I taught in China about two years ago. I am Editor-in-Chief of an international ecology journal (*Functional Ecology*; I have been an editor of this journal for more than 10 years). As part of this role, I was recruited by the British Ecological Society (who own *Functional Ecology*) to offer a workshop and present a series of seminars in China on publishing in international journals. Using the workshop as a foundation, I developed a 1-credit graduate seminar (ENT 770) on this topic, which I offered here at UK in Fall 2013. The seminar was very well attended (well enrolled but also heavily audited by students and post-docs), mostly by Entomology students and post-docs but also by quite a few students outside my department, especially those from Biology, but also a few from the medical center and even one from Public Health. The course was well received by our students, and my teaching evaluations were good (value of course = 4.0, quality of instruction = 3.8).

At the encouragement of students, I propose to expand that seminar course and turn it into a regular offering, ENT 670, to be offered in alternate years (the frequency will depend on enrollment; it could be offered annually if enrollment supports this). This course is primarily intended to serve graduate students in the biological sciences (my area of expertise). In addition to enrolled students, I will strongly encourage senior students (those writing up their first papers for publication) to audit the course.

To help the committee review the content of the course, I have included my materials used in my graduate seminar, ENT 770. The proposed course will differ from the seminar in the following ways:

- I gave too many supplementary readings and did too much of the "discovery" work myself in the ENT 770. Much more of this will be given to students in the course by assigning specific topics to individual students and requiring them to summarize the topic and lead parts of the discussions.
- Assignments were all optional in the ENT 770. Many of these (or variants of the ones we did in ENT 770) will be made mandatory and part of the grade.
- Rather than meeting for a single 1.5 hour period per week, we will meet twice per week. This is to allow more extensive discussion on issues and more time for doing practical assignments. Frankly, the ENT 770 (1 credit) version of the course was too rushed.
- There will be an additional couple meetings at the end of the semester to cover topics identified during the semester (e.g., student suggestions) as interesting.

Because of these additions to the course, and because assignments will be made mandatory, the proposed course is for 2-credits.

The proposed course was reviewed first by the Department of Entomology curriculum committee, then by our full department, and approved unanimously in each case.

Sincerely,

A handwritten signature in cursive script, appearing to read "Charles W. Fox". The signature is written in dark ink and is positioned below the word "Sincerely,".

Dr. Charles Fox
Professor and Director of Graduate Studies

Subject: Entomology Faculty Approval of ENT 670

From: "Obrycki, John" <John.Obrycki@uky.edu>

Date: 9/26/2014 8:38 AM

To: "Fox, Charles W" <cfox@email.uky.edu>, "Grabau, Larry" <larry.grabau@uky.edu>

The Entomology faculty reviewed and unanimously approved ENT 670 "Scientific Publishing: Process and Ethics" at our September 15, 2014 meeting.

John J. Obrycki

Professor and Chair

Department of Entomology

University of Kentucky

Lexington, KY 40546 USA

PH: 859-257-7450

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E-mail: john.obrycki@uky.edu

Scientific publishing: Process and ethics
ENT 670

Lecture: TR, 2 hours each day
Instructor: Dr. Charles Fox (cfox@uky.edu)
Office: Ag Science Center North Room S-307B
Office Hours: MWF 11-12 (in S-307B) or by appointment
Telephone: 859-257-7474 (Office)

Course description: An introduction to scientific publishing, including types of scientific journals, choosing where to publish, the structure of scientific papers, the peer review process, data management and archiving, post-publication promotion of research, metrics of scientific impact such as impact factors and altmetrics, and publication ethics.

Credits: 2

Prerequisite: Graduate student in a science discipline

Structure of course: 4 hours discussion/activities per week

Readings: The readings will be circulated by email (as links to online documents) to the class email list. Readings will include papers from the scientific literature, editorials, and a variety of blog posts. Students are expected to read the *required* readings before class, and are encouraged to read the recommended readings.

Learning outcomes:

- Students will be able to distinguish types of scientific publications and metrics of scientific impact, and be able choose an appropriate outlet for their scientific publications.
- Students will appreciate the process of scientific publication and peer review, and be able to critically evaluate the issues facing modern publishing, including different models of peer review and different publication models (e.g., open access versus subscription journals).
- Students will appreciate the issues surrounding data management and accessibility, be able to access publicly-archived datasets, and be able to choose an appropriate data depository for their own datasets.
- Students will critically evaluate the major ethical issues relating to scientific publication, and be able to critically and objectively evaluate cases of potential scientific and publication misconduct.

Grading:

Class participation:	100 points	<u>Grades (% of available points</u>	
Supplemental readings:	100 points	<u>excluding extra credit)</u>	
Assignments:	100 points	> 90%	- A
		80-89.9%	- B
Total:	300 points	70-79.9%	- C
		Below 70%	- E

Attendance and participation: Attendance and participation in class is required. Class sessions will be primarily discussion, with students expected to have read the assigned material before class and participate in discussions. Missing class, coming to class unprepared, or failing to

contribute to our discussion will reduce your discussion grade by up to 10 points per class period.

Supplemental readings: Students will be assigned topics for which they are responsible for reading supplemental materials (in addition to the assigned readings) and integrating these supplemental materials into the class discussion. The instructor will provide guidance on which materials to read for each topic, but students are also expected to take initiative to find additional materials that contribute to the topic of discussion. The number of times each student is responsible for supplemental materials depends on enrollment in the class, but is expected to ~once every four class periods throughout the semester.

Assignments: Students will be assigned a variety of short projects, typically one per week. Projects vary (see course outline), and include things such as obtaining citation reports from JCR or Google Scholar, critiquing a manuscript title, abstract and introduction, investigating journal or granting agency data management/archiving requirements, and many others.

Missed classes: If the absence is due to a university-approved reason for an absence (acceptable reasons for excused absences: (a) serious illness, (b) illness or death of family member, (c) University-related trips, (d) major religious holidays, or (e) other circumstances found to fit “reasonable cause for nonattendance” by the professor), credit for class attendance will be given only if the student pre-arranges the absence or provides a valid written excuse is within one week of the missed class (as per university regulations which are posted at http://www.uky.edu/Ombud/ForStudents_ExcusedAbsences.php). An unexcused absence from class will result in a zero for that particular class/assignment.

Cheating: Academic integrity policies have been provided to every student by the university and are available on the internet (<http://www.uky.edu/Ombud/acadoffenses/index.htm>). Per university policy, students shall not plagiarize, cheat, or falsify or misuse academic records. Students are expected to adhere to University policy on cheating and plagiarism in all courses. Students are encouraged to study together, but must take their own exams prepare/give their own presentations. Students caught cheating will automatically fail the class and will be referred to the Academic Ombud and their College Dean.

Accommodations due to disability: If you have a documented disability that requires academic accommodations, please see me as soon as possible during scheduled office hours. To receive accommodations in this course, you must provide a Letter of Accommodation from the Disability Resource Center (Room 2, Alumni Gym, 257-2754, email address: jkarnes@email.uky.edu) for coordination of campus disability services available to students with disabilities.

	Topic	Readings (<i>Draft</i>)	Assignments
1	Introduction/organizational meeting		
2	A. Choosing a journal (types of scientific outlets/journals, journal metrics, open access vs subscription models) B. Guest: Dan Potter - disseminating work in trade journals	Ch 12 of Cargill and O'Connor (2009); Thompson 2007; Pendlebury 2009	- Journal metrics - Produce journal citation reports (JCR), Google scholar or other metrics for two fields - Open access versus subscription model
3	Writing a paper for broad interest journals (Titles, Abstracts, Introductions and Discussion sections)	Rosenheim & Cole 2008; Chaps 8-11 of Cargill and O'Connor (2009); Buckingham 2008	- Identify examples of good/bad titles and abstracts - Write a title and Introduction outline for your own research project
4	The peer review process	BES Guide to peer review; Bornmann 2011; Instructions to editors for <i>Functional Ecology</i>	- Guidelines for authors for journals in your research area
5	A. Panel of editors: Peer review B. Writing a manuscript review; Responding to manuscript reviews	BES Guide to peer review; Waser et al. 1992	- Reviewing a manuscript - Responding to reviewer comments
6	Promoting research (Press releases, lay summaries, videos, social media)	Bik & Goldstein 2013; Osterrieder 2013	- Science blogs
7	Post-publication manuscript review; manuscript impact; bibliometrics, altmetrics Guest: Sean Burns, bibliometrics	Taylor 2013	- Altmetrics and citation data on papers
8	Data management	New BES publication (not yet available) on data management	TBA
9	Data archiving (including data ownership, intellectual property rights)	Borgman 2012; Whitlock 2011; Hampton et al. 2013	- Journal data archiving policies - Grant agency data management requirements - Identify online repositories for archiving your thesis data, pros and cons of each - Access data from at least one archive
10	Misconduct in science (Definitions, cultural perspectives on ethics; types of misconduct,	Honor in Science	

	reasons for misconduct, consequences of misconduct, image manipulation, selective data presentation/analysis)		
11	Publication ethics (Authorship, attribution/citation, plagiarism, duplicate/redundant publication, conflicts of interest)	NIH Office of Research Integrity guide to ethical writing; Higley and Stanley-Samuelson 1996; Feeser & Simon 2008;	- COPE - Copyright statements, Creative Commons licenses
12	Ethics case studies		- Identify/discuss examples of retracted papers and/or other ethics sanctions
13	Student choice topics ¹		
14	Student choice topics ¹		
15	Student choice topics ¹		

¹The final three weeks are open for us to cover topics of particular interest to the students, or to return to topics that warrant more discussion.