A g e n d a

CALS Curriculum Committee Meeting
Tuesday, February 26, 2013, 12:00 p.m.
250 Agricultural Hall

Members:

___Francisco Pelegri, (2013)
___ Jeri Barak, (2014) ___ __
___ Bill Bland, (2014)
___ Amin Fadl, (2013)
___ Randy Jackson, (2013)
___ Maya Hayslett, (2013)
___ Jack Kloppenburg, (2015)
___ Paul Mitchell, (2013)
___ Masarah Van Eyck, (2015)

CALS Ex Officio:
Sarah Pfatteicher ___

CASI Ex Officio:
___ Liv Sandberg (non-voting)

Student Reps: ___ Tim Pearson
UP&S Office: ___ Susan Gisler
___ Dan Statter

MINUTES

February 12th, 2013 minutes

COURSE PROPOSALS

Course Change Proposals

BioChem. 510: Biochemical Principles of Human and Animal Nutrition
Changing prerequisites.

BioChem. 704: Chemical Biology
Tabled from 01-22-13. Changing crosslisting

Pharm. Sci 890: Highlights at the Chemistry-Biology Interface I
Changing "repeatability." Department requesting committee input.

Pharm. Sci 891: Highlights at the Chemistry-Biology Interface II
Changing "repeatability." Department requesting committee input.

Food Science 603: Senior Seminar
Changing course description

New Course Proposals

Zoology 953: Introduction to Wisconsin Ecology: A graduate seminar
Changing crosslisting. "This course fills a gap in all Wisconsin Ecology member departments."

OTHER BUSINESS

Course Change Proposal

Subject Biochemistry (200) **Status** Under Review by School/College
Proposer Catherine Ryan

Basic Information

Current course number
510

Current course title
Biochemical Principles of Human and Animal Nutrition

Current published course description
Lectures in nutrition for students with a substantial background in biochemistry. Emphasis on biochemical and physiological fundamentals of nutrition. Discussion of protein, fat, carbohydrate, energy, minerals and vitamins and their roles and interrelationships in nutrition and metabolism.

Chief academic officer of this unit
Elizabeth A Craig

Designee of chief academic officer for approval authority
Catherine Ryan

Currently crosslisted with
Nutritional Sciences (694)

What is the primary divisional affiliation of the course?
Biological Sciences

When will this change go into effect?
Fall 2013-2014

Basic Changes

Will the subject change?
No

Current subject
Biochemistry (200)

Proposed subject

Will the course number change?
No

Current course number
510

Proposed course number

Is this an honors course?

Is this an individual instruction course such as directed study, independent study, research or thesis (i.e., a course with no group instruction)?

Will the title change?
No

Current title
Biochemical Principles of Human and Animal Nutrition

Proposed title (max. 100 chars.)

Proposed transcript title (max. 30 chars.)

Will the crosslistings change?
No

Current crosslistings
Nutritional Sciences (694)

Proposed crosslistings

Will the "repeatability" of the course change?
No

Current repeatability

Proposed repeatability

Catalog Changes

Will the credits change?

No

Current minimum credits

3

Current maximum credits

3

Proposed minimum credits

Proposed maximum credits

Will the grading system change?

No

Current grading system

Proposed grading system

Will the published course description change?

No

Current course description

Lectures in nutrition for students with a substantial background in biochemistry. Emphasis on biochemical and physiological fundamentals of nutrition. Discussion of protein, fat, carbohydrate, energy, minerals and vitamins and their roles and interrelationships in nutrition and metabolism.

Proposed course description

Will the prerequisites change?

Yes

Current prerequisites and other requirements

Biochem 501 or 602 or cons inst

Proposed prerequisites and other requirements

Biomolecular Chem 314 or 503, Biochem 501 0r 507, or consent of instructor

Designation Changes

Will the Liberal Arts and Sciences (LAS) designation change?
No

What change is needed?

What is the rationale for seeking LAS credit?

Will the level of the course change for L&S attributes?
No

Current level:
Advanced

Proposed level:

Will the L&S breadth requirement change?
No

Current breadth:
B-Biological Science

Proposed breadth:

Will the General Education Requirement change?
No

Current GER:

Proposed GER

Additional Information

Explain the relationship and importance of the proposed change to existing or future programs (i.e., degrees, majors and certificates)

This eliminates student confusion between Biochem 510 and NutriSci 510

Are any of these programs outside your academic unit?

No

Indicate the subjects that are most closely aligned with the other academic units. The proposal will be sent to the academic units that support those subjects for review.

Specify which requirement(s) this change affects, if any (e.g. satisfies third-level language, meets the major's capstone requirement, fulfills PhD minor requirement)

Do any of these requirements affect programs (degrees, majors, certificates) outside your academic unit?

Indicate the subjects that are most closely aligned with the other academic unit. The proposal will be sent to the academic units that support those subjects for review.

Address the relationship of this change to other UW-Madison courses, including possible duplication of content

N/A

Is there a relationship to courses outside your subject?

No

Indicate the outside affected subject(s). The proposal will be sent to the academic units that support those subjects for review.

Will any courses be discontinued as a result of this change?

No

List course number(s) and complete a course discontinuation proposal for each course

Justification Changes

Explain the need for the change

Biochem 510 is crosslisted with NutriSci 510, and they have had different pre-requisites in writing only -- not in practice -- for years. Also, the former Biochem pre-req of Biochem 602 no longer exists.

Additional comments (optional)

This change brings the written description up to speed with current practice, and has been approved by both the Biochemistry and NutriSci Departments.

Attach a syllabus

Additional attachments (optional)(please read "help" text before uploading an attachment)

Course Change Proposal

Subject Biochemistry (200) **Status** Under Review by School/College
Proposer Catherine Ryan

Basic Information

Current course number
704

Current course title
Chemical Biology

Current published course description
Biochemistry 704: "Chemical Biology" is a 2-credit graduate-level course (30 sessions) on the use of ideas and methods of chemistry to solve problems in molecular and cell biology. The course is organized around the flow of information in biological systems, and emphasizes how chemists can intervene at each step, both to elucidate and control that flow. A major goal is to empower both chemists and biologists by providing chemists with relevant new targets and biologists with useful new tools.

Chief academic officer of this unit
Elizabeth A Craig

Designee of chief academic officer for approval authority
Catherine Ryan

Currently crosslisted with

What is the primary divisional affiliation of the course?
Physical Sciences

When will this change go into effect?
Fall 2013-2014

Basic Changes

Will the subject change?
No

Current subject
Biochemistry (200)

Proposed subject

Will the course number change?
No

Current course number
704

Proposed course number

Is this an honors course?

Is this an individual instruction course such as directed study, independent study, research or thesis (i.e., a course with no group instruction)?

Will the title change?
No

Current title
Chemical Biology

Proposed title (max. 100 chars.)

Proposed transcript title (max. 30 chars.)

Will the crosslistings change?
Yes

Current crosslistings

Proposed crosslistings
Chemistry (224)

Will the "repeatability" of the course change?
No

Current repeatability

Proposed repeatability

Catalog Changes

Will the credits change?

No

Current minimum

Current maximum

Proposed minimum

Proposed maximum

Will the grading system change?

No

Current grading system

Proposed grading system

Will the published course description change?

No

Current course description

Biochemistry 704: "Chemical Biology" is a 2-credit graduate-level course (30 sessions) on the use of ideas and methods of chemistry to solve problems in molecular and cell biology. The course is organized around the flow of information in biological systems, and emphasizes how chemists can intervene at each step, both to elucidate and control that flow. A major goal is to empower both chemists and biologists by providing chemists with relevant new targets and biologists with useful new tools.

Proposed course description

Will the prerequisites change?

No

Current prerequisites and other requirements

Proposed prerequisites and other requirements

Designation Changes

Will the Liberal Arts and Sciences (LAS) designation change?

No

What change is needed?

What is the rationale for seeking LAS credit?

Will the level of the course change for L&S attributes?

No

Current level:

Proposed level:

Will the L&S breadth requirement change?

No

Current breadth:

Proposed breadth:

Will the General Education Requirement change?

No

Current GER:

Proposed GER

Additional Information

Explain the relationship and importance of the proposed change to existing or future programs (i.e., degrees, majors and certificates)

This crosslisting doesn't really change anything; it just acknowledges that this course has become a requirement for chemical biology majors in the Department of Chemistry.

Are any of these programs outside your academic unit?

Yes

Indicate the subjects that are most closely aligned with the other academic units. The proposal will be sent to the academic units that support those subjects for review.

Chemistry (224)

Specify which requirement(s) this change affects, if any (e.g. satisfies third-level language, meets the major's capstone requirement, fulfills PhD minor requirement)

Do any of these requirements affect programs (degrees, majors, certificates) outside your academic unit?

Indicate the subjects that are most closely aligned with the other academic unit. The proposal will be sent to the academic units that support those subjects for review.

Address the relationship of this change to other UW-Madison courses, including possible duplication of content

The content of this course is not changing. The crosslisting is only to make this course more readily available to those in the Chemistry Department who are required to take it.

Is there a relationship to courses outside your subject?

No

Indicate the outside affected subject(s). The proposal will be sent to the academic units that support those subjects for review.

Will any courses be discontinued as a result of this change?

No

List course number(s) and complete a course discontinuation proposal for each course

Justification Changes

Explain the need for the change

"Chemical Biology" has become a required course for chemistry graduate students seeking a Ph.D. degree in the departmental division of "chemical biology." Since this requirement was instituted two years ago, half of the students enrolled in the course have been chemistry graduate students. Accordingly, the course is appropriately cross-listed in the chemistry department.

Additional comments (optional)

This syllabus is from 2012, but it be virtually the same for 2013 excepting for dates.

Attach a syllabus

Additional attachments (optional)(please read "help" text before uploading an attachment)

2012 Biochem 704 Syllabus.pdf

Biochemistry 704: Chemical Biology

• Fall 2012 •

Instructors: Laura Kiessling (kiessling@chem.wisc.edu) 471 Biochemistry Addition
Ron Raines (rtraines@wisc.edu) 371C Biochemistry Addition
Teaching Assistants: Rob Presler (presler@wisc.edu) 373 Biochemistry Addition

Lectures: Tuesday and Thursday at 8:50 AM in 175 Biochemistry Addition

1	9/4	Kiessling	Information Flow in Chemistry and Biology
2	6	Kiessling	Nucleic Acids as Carriers of Biochemical Information
3	11	Raines	Synthesis of Nucleic Acids and Utility of Analogs
4	13	Raines	DNA Recognition by Small Molecules
5	18	Hoskins	DNA Recognition by Proteins
6	20	Raines	RNA Structure and Folding
7	25	Ansari	Recognition Landscapes in Living Systems
8	27	Raines	RNA Aptamers; Ribozymes; Molecular Evolution
9	10/2	Raines	Translation and its Modulation by Small Molecules
10	4	Raines	Chemical Synthesis of Peptides and Proteins
11	9	Raines	Protein Folding: History and Therapeutic Intervention
12	11	Raines	Protein Stability and its Modulation by Small Molecules
13	16	Strieter	Post-Translational Modifications
14	18	Strieter	Chemoselective Reactions for Chemical Biology
15	23	Neff	Using Literature and Databases to Write and Review Proposals
16	25	Raines	Directed Evolution
17	*30	Raines	Bioimaging
18	11/1	Weibel	Secondary Metabolism
19	6	Kiessling	Chemical Glycobiology
20	8	Kiessling	Chemical Genetics
21	13	Kiessling	Signal Transduction and its Modulation by Small Molecules
22	15	Raines	Enzymatic Catalysis—Principles, Concepts, Targets
23	20	Raines	Enzymatic Catalysis—Principles, Concepts, Targets
24	22	THANKSGIVING RECESS	
25	**27	Raines	Enzymatic Catalysis—Principles, Concepts, Targets
26	29	Raines	Enzymatic Catalysis—Principles, Concepts, Targets
27	12/4	Raines	Chemical Biology in Vitro *versus* in Cellulo
28	12/6	ALL	IN-CLASS STUDY SECTION
29	12/11	ALL	IN-CLASS STUDY SECTION
30	12/13	ALL	IN-CLASS STUDY SECTION

***SPECIFIC AIMS DUE** ****RESEARCH PROPOSAL DUE**

Biochemistry 704: Chemical Biology

Course Description

Biochemistry 704: "Chemical Biology" is a 2-credit graduate-level course (30 sessions) on the use of ideas and methods of chemistry to solve problems in molecular and cell biology. The course is organized around the flow of information in biological systems, and emphasizes how chemists can intervene at each step, both to elucidate and control that flow. A major goal is to empower both chemists and biologists by providing chemists with relevant new targets and biologists with useful new tools.

Prerequisites

Successful completion of courses in organic chemistry (*e.g.*, Chemistry 343 *and* 345 at Wisconsin), biochemistry (*e.g.*, Biochemistry 501), physical chemistry (Chemistry 561 or 565) is assumed. You should already be able to answer questions such as

a. Draw the mechanism (using curved arrows to indicate electron flow) for the reaction of acetone and ammonia to form $CH_3–C(=NH)–CH_3$ (an imine or "Schiff base") and water.
b. Write the expression for the rate of product formation ($v = \partial[B]/\partial t$) during the chemical reaction:

$$A \xrightarrow{k_1} B$$

c. Draw the molecular structure of each natural amino acid and nucleobase.

If you are not familiar with the above material (especially, question a), you should not register for this course.

Grades

Grades will be based on in-class participation (10%), problem sets and quizzes (30%), an original research proposal (50%), which will be assessed during in-class "study sections", and reviews of two other research proposals during the in-class study sections (5% + 5%).

Resources

No text is required, but the following website and books could be helpful references.
www.khanacademy.org
Alberts, B. et al. *Molecular Biology of the Cell*. Routledge (2007)
Blackburn, G. M. et al. *Nucleic Acids in Chemistry and Biology*. RSC (2006)
Frey, P. A. & Hegeman, A. D. *Enzymatic Reaction Mechanisms*. Oxford University (2006)
Grossman, R. B. *The Art of Writing Reasonable Organic Reaction Mechanisms*. Springer (2007)
Jencks, W. P. *Catalysis in Chemistry and Enzymology*. Dover (1987)
McMurry J. & Begley, T. *The Organic Chemistry of Biological Pathways*. Roberts & Co. (2005)
Miller, A. & Tanner, J. *Essentials of Chemical Biology*. Wiley (2008)
Stanforth, S. P. *Natural Product Chemistry at a Glance*. Blackwell (2006)
Voet, D. & Voet, J. G. *Biochemistry*. John Wiley & Sons (2004)

Course Website

https://learnuw.wisc.edu

Course Change Proposal

Subject Food Science (390) **Status** Under Review by School/College
Proposer Richard W Hartel

Basic Information

Current course number
603

Current course title
Senior Seminar

Current published course description
Part two of senior capstone requirement. Students will present data gathered and analyzed as part of the senior project. Outside speakers will address hot topics and emerging issues in the field.

Chief academic officer of this unit
Scott A Rankin

Designee of chief academic officer for approval authority
Jenny M Schroeder; Judy A Smith

Currently crosslisted with

What is the primary divisional affiliation of the course?
Biological Sciences

When will this change go into effect?
Summer 2013

Basic Changes

Will the subject change?
No

Current subject
Food Science (390)

Proposed subject

Will the course number change?
No

Current course number
603

Proposed course number

Is this an honors course?

Is this an individual instruction course such as directed study, independent study, research or thesis (i.e., a course with no group instruction)?

Will the title change?
No

Current title
Senior Seminar

Proposed title (max. 100 chars.)

Proposed transcript title (max. 30 chars.)

Will the crosslistings change?
No

Current crosslistings

Proposed crosslistings

Will the "repeatability" of the course change?
No

Current repeatability

Proposed repeatability

Catalog Changes

Will the credits change?

No

Current minimum credits

1

Current maximum credits

1

Proposed minimum credits

Proposed maximum credits

Will the grading system change?

No

Current grading system

Proposed grading system

Will the published course description change?

Yes

Current course description

Part two of senior capstone requirement. Students will present data gathered and analyzed as part of the senior project. Outside speakers will address hot topics and emerging issues in the field.

Proposed course description

Part two of senior capstone requirement. Students will present data gathered and analyzed as part of the senior project.

Will the prerequisites change?

No

Current prerequisites and other requirements

Food Sci 602

Proposed prerequisites and other requirements

Designation Changes

Will the Liberal Arts and Sciences (LAS) designation change?

No

What change is needed?

What is the rationale for seeking LAS credit?

Will the level of the course change for L&S attributes?

No

Current level:

Proposed level:

Will the L&S breadth requirement change?

No

Current breadth:

Proposed breadth:

Will the General Education Requirement change?

No

Current GER:

Communication B

Proposed GER

Additional Information

Explain the relationship and importance of the proposed change to existing or future programs (i.e., degrees, majors and certificates)

None

Are any of these programs outside your academic unit?

No

Indicate the subjects that are most closely aligned with the other academic units. The proposal will be sent to the academic units that support those subjects for review.

Specify which requirement(s) this change affects, if any (e.g. satisfies third-level language, meets the major's capstone requirement, fulfills PhD minor requirement)

Do any of these requirements affect programs (degrees, majors, certificates) outside your academic unit?

Indicate the subjects that are most closely aligned with the other academic unit. The proposal will be sent to the academic units that support those subjects for review.

Address the relationship of this change to other UW-Madison courses, including possible duplication of content

None

Is there a relationship to courses outside your subject?

No

Indicate the outside affected subject(s). The proposal will be sent to the academic units that support those subjects for review.

Will any courses be discontinued as a result of this change?

No

List course number(s) and complete a course discontinuation proposal for each course

Justification Changes

Explain the need for the change

Minor course description change to reflect current contents. No changes that satisfying Comm B requirements.

Additional comments (optional)

Attach a syllabus

Additional attachments (optional)(please read "help" text before uploading an attachment)

Course Change Proposal

Subject Pharmaceutical Sciences (718) **Status** Under Review by Subject Owner
Proposer Kenneth D Niemeyer

Basic Information

Current course number
890

Current course title
Highlights at the Chemistry-Biology Interface I

Current published course description
Principles of key discoveries at the chemistry-biology interface. This course is required of all Chemistry-Biology Interface trainees.

Chief academic officer of this unit
Ronald R Burnette

Designee of chief academic officer for approval authority
Charles T Lauhon; Paul C Marker

Currently crosslisted with

What is the primary divisional affiliation of the course?
Biological Sciences

When will this change go into effect?
Fall 2013-2014

Basic Changes

Will the subject change?
No

Current subject
Pharmaceutical Sciences (718)

Proposed subject

Will the course number change?
No

Current course number
890

Proposed course number

Is this an honors course?

Is this an individual instruction course such as directed study, independent study, research or thesis (i.e., a course with no group instruction)?

Will the title change?
No

Current title
Highlights at the Chemistry-Biology Interface I

Proposed title (max. 100 chars.)

Proposed transcript title (max. 30 chars.)

Will the crosslistings change?
No

Current crosslistings

Proposed crosslistings

Will the "repeatability" of the course change?
Yes

Current repeatability
Not repeatable for credit

Proposed repeatability
Repeatable for credit

Catalog Changes

Will the credits change?
No

Current minimum credits

Current maximum credits

Proposed minimum credits

Proposed maximum credits

Will the grading system change?
No

Current grading system

Proposed grading system

Will the published course description change?
No

Current course description
Principles of key discoveries at the chemistry-biology interface. This course is required of all Chemistry-Biology Interface trainees.

Proposed course description

Will the prerequisites change?
No

Current prerequisites and other requirements

Proposed prerequisites and other requirements

Designation Changes

Will the Liberal Arts and Sciences (LAS) designation change?

No

What change is needed?

What is the rationale for seeking LAS credit?

Will the level of the course change for L&S attributes?

No

Current level:

Proposed level:

Will the L&S breadth requirement change?

No

Current breadth:

Proposed breadth:

Will the General Education Requirement change?

No

Current GER:

Proposed GER

Additional Information

Explain the relationship and importance of the proposed change to existing or future programs (i.e., degrees, majors and certificates)

This change is being made at the request of the faculty directors and administrators of the Chemistry-Biology Interface (CBI) Training Grant. Students who are CBI trainees are typically Department of Chemistry, Department of Biochemistry, or Pharmaceutical Sciences Division graduate students.

Are any of these programs outside your academic unit?

Yes

Indicate the subjects that are most closely aligned with the other academic units. The proposal will be sent to the academic units that support those subjects for review.

Biochemistry (200)
Chemistry (224)

Specify which requirement(s) this change affects, if any (e.g. satisfies third-level language, meets the major's capstone requirement, fulfills PhD minor requirement)

None

Do any of these requirements affect programs (degrees, majors, certificates) outside your academic unit?

No

Indicate the subjects that are most closely aligned with the other academic unit. The proposal will be sent to the academic units that support those subjects for review.

Address the relationship of this change to other UW-Madison courses, including possible duplication of content

This is a graduate seminar course based on original research.

Is there a relationship to courses outside your subject?

No

Indicate the outside affected subject(s). The proposal will be sent to the academic units that support those subjects for review.

Will any courses be discontinued as a result of this change?

No

List course number(s) and complete a course discontinuation proposal for each course

Justification Changes

Explain the need for the change

The purpose of the course is to provide an opportunity for CBI Trainees to exchange ideas and knowledge across disciplinary and departmental lines. Trainees are typically funded for 2-3 years, but remain part of the CBI community through graduation and enroll in 890 (fall) and its counterpart 891 (spring) throughout their graduate careers. Each semester the course consists of trainees discussing aspects of their research. As with most graduate seminar courses, the course should have been set up originally to allow for repeatability.

Additional comments (optional)

It is possible that the Department of Chemistry and/or the Department of Biochemistry will soon be putting forward proposals to cross-list this course with Pharmaceutical Sciences, which would be welcomed.

Attach a syllabus

Additional attachments (optional)(please read "help" text before uploading an attachment)

Course Change Proposal

Subject Pharmaceutical Sciences (718) **Status** Under Review by Subject Owner
Proposer Kenneth D Niemeyer

Basic Information

Current course number
891

Current course title
Highlights at the Chemistry-Biology Interface II

Current published course description
Principles of key discoveries at the chemistry-biology interface. This course is required of all Chemistry-Biology Interface trainees.

Chief academic officer of this unit
Ronald R Burnette

Designee of chief academic officer for approval authority
Charles T Lauhon; Paul C Marker

Currently crosslisted with

What is the primary divisional affiliation of the course?
Biological Sciences

When will this change go into effect?
Spring 2013-2014

Basic Changes

Will the subject change?
No

Current subject
Pharmaceutical Sciences (718)

Proposed subject

Will the course number change?
No

Current course number
891

Proposed course number

Is this an honors course?

Is this an individual instruction course such as directed study, independent study, research or thesis (i.e., a course with no group instruction)?

Will the title change?
No

Current title
Highlights at the Chemistry-Biology Interface II

Proposed title (max. 100 chars.)

Proposed transcript title (max. 30 chars.)

Will the crosslistings change?
No

Current crosslistings

Proposed crosslistings

Will the "repeatability" of the course change?
Yes

Current repeatability
Not repeatable for credit

Proposed repeatability
Repeatable for credit

Catalog Changes

Will the credits change?
No

Current minimum credits

Current maximum credits

Proposed minimum credits

Proposed maximum credits

Will the grading system change?
No

Current grading system

Proposed grading system

Will the published course description change?
No

Current course description
Principles of key discoveries at the chemistry-biology interface. This course is required of all Chemistry-Biology Interface trainees.

Proposed course description

Will the prerequisites change?
No

Current prerequisites and other requirements

Proposed prerequisites and other requirements

Designation Changes

Will the Liberal Arts and Sciences (LAS) designation change?

No

What change is needed?

What is the rationale for seeking LAS credit?

Will the level of the course change for L&S attributes?

No

Current level:

Proposed level:

Will the L&S breadth requirement change?

No

Current breadth:

Proposed breadth:

Will the General Education Requirement change?

No

Current GER:

Proposed GER

Additional Information

Explain the relationship and importance of the proposed change to existing or future programs (i.e., degrees, majors and certificates)

This change is being made at the request of the faculty directors and administrators of the Chemistry-Biology Interface(CBI) Training Grant. Students who are CBI trainees are typically Department of Chemistry, Department of Biochemistry, or Pharmaceutical Sciences Division graduate students.

Are any of these programs outside your academic unit?

Yes

Indicate the subjects that are most closely aligned with the other academic units. The proposal will be sent to the academic units that support those subjects for review.

Biochemistry (200)
Chemistry (224)

Specify which requirement(s) this change affects, if any (e.g. satisfies third-level language, meets the major's capstone requirement, fulfills PhD minor requirement)

None

Do any of these requirements affect programs (degrees, majors, certificates) outside your academic unit?

No

Indicate the subjects that are most closely aligned with the other academic unit. The proposal will be sent to the academic units that support those subjects for review.

Address the relationship of this change to other UW-Madison courses, including possible duplication of content

This is a graduate seminar course based on original research.

Is there a relationship to courses outside your subject?

No

Indicate the outside affected subject(s). The proposal will be sent to the academic units that support those subjects for review.

Will any courses be discontinued as a result of this change?

No

List course number(s) and complete a course discontinuation proposal for each course

Justification Changes

Explain the need for the change

The purpose of the course is provide an opportunity for CBI Trainees to exchange ideas and knowledge across disciplinary and department lines. Trainees are typically funded for 2-3 years, but remain part of the CBI community through graduation and enroll in 891 (spring) and its counterpart 890 (fall) throughout their graduate careers. Each semester the course consists of trainees discussing aspects of their research. As with most graduate seminar courses, the course should have been set up originally to allow for repeatability.

Additional comments (optional)

It is possible that the Department of Chemistry and/or the Department of Biochemistry will soon be putting forward proposal(s) to crosslist this course with Pharmaceutical Sciences, which would be welcomed.

Attach a syllabus

Additional attachments (optional)(please read "help" text before uploading an attachment)

New Course Proposal

Subject Zoology (970) **Status** Under Review by School/College
Proposer Nazan Atilla Gillie

Basic Information

Course Title
Introduction to Wisconsin Ecology: A graduate seminar

Transcript Title (limit 30 characters)
Intr. to WI Ecol.: Grad Sem

Three-digit course number
953

Is this an honors course?
No

Is this an individual instruction course such as directed study, independent study, research or thesis (i.e., a course with no group instruction)?
No

Will this course be crosslisted?
Yes

Note the crosslisted subjects
Forest And Wildlife Ecology (396)
Botany (208)
Envir St - Gaylord Nelson Inst (360)
Entomology (355)
Geography (416)

What is the primary divisional affiliation of this course?
Biological Sciences

Is this a topics course?
No

Can students enroll in this course more than once for credit?
No

If yes, please justify

Typically Offered
Fall

Catalog Information

Minimum credits

1

Maximum credits

2

Grading System

Satisfactory/Unsatisfactory (certain graduate-level courses only)

Course Description (will be published in Course Guide)

This seminar course will introduce new graduate students to the diversity of ecologists across Wisconsin Ecology departments. Course meetings will include discussions of key topics in professional development, one-time research presentations by faculty members, and discussions of assigned papers with senior graduate students.

Does the course have prerequisites or other requirements?

No

List the prerequisites and other requirements for the course

Indicate the component(s) that comprise the course. Check all that apply

Seminar

Administrative Information

Chief Academic Officer

Jeffrey D Hardin

Designee of chief academic officer for approval authority

Nada Wigand; Nazan Atilla Gillie

If there are additional contacts, please list

Peter McIntyre

Will any courses be discontinued as a result of this proposal?

No

List course number(s) and complete a course discontinuation proposal for each course

Beginning Term

Fall 2013-2014

Academic/Program Information

Is this course intended for a new academic program for which UAPC approval has not yet been finalized?

No

Which program?

Explain the relationship and importance of the proposed course to existing programs or future programs. (A program is a certificate, major or degree.)

There is no standing course in any Wisconsin Ecology department that introduces first year graduate students to the program, the human resources of UW-Madison, and to the complexities of professional development for graduate students. Thus, there is no redundancy with existing courses.

Are any of these programs outside your academic unit?

No

Indicate the subjects that are most closely aligned with the other academic units. The proposal will be sent to the academic units that support those subjects for review.

Specify which requirement(s) this course meets, if any (e.g. satisfies third-level language, meets the major's capstone requirement, fulfills PhD minor requirement).

This course would become part of the curriculum for graduate certificate in Ecology planned by Wisconsin Ecology.

Do any of these requirements affect programs (degrees, majors, certificates) outside your academic unit?

No

Indicate the subjects that are most closely aligned with the other academic units. The proposal will be sent to the academic units that support those subjects for review.

Course Content

Describe the course content

The course will meet once or twice per week, depending on the number of credit hours and instructor preference. Students will read one assigned scientific paper per week, and co-lead the discussion once during the course of the semester. Desired outcomes of these meetings include the following: 1) a strong cohort bond among new graduate students across departmental boundaries, 2) awareness of the breadth and depth of ecological research at UW, 3) dialogue between new and senior graduate students, 4) strategic thinking and sense of ownership regarding professional development. The first few meetings will be round-table discussions on basic issues of professional conduct, including time management, developing a positive relationship with your advisor, seeking grants for graduate research, and communicating with broad audiences. The remainder of the course meetings will introduce students to a variety of faculty and approaches to ecological research. The first weekly meeting will follow a 'faculty-on-parade' model; one professor will discuss her/his conceptual interests, scientific approach, and research results, followed by questions from students. Faculty presenters will be selected to represent the full range of subdisciplines, departments, and personal backgrounds within Wisconsin Ecology. The course instructor will act as moderator for these meetings, which will last for 1 hour per week. When offered for a two credits rather than one credit, the weekly course meeting will either be extended to last 2 hours, or a second meeting day will be selected for a second 1-hour meeting. The additional meeting time will generally be devoted to discussion of one published paper written by the faculty presenter from that week. Discussion will be led by the new graduate students, and a senior graduate student from the faculty presenter's lab will help explain the work and offer a personal perspective on the research process from a student viewpoint. Students also will be encouraged to discuss other aspects of graduate life with the senior graduate student. The atmosphere in both weekly meetings will be casual, with priority placed on interaction among new students and with the visiting faculty and senior graduate students. Ecological research will be broadly construed, including evolutionary, conservation, and social science perspectives.

Address the relationship of this course to other UW-Madison courses, including possible duplication of content

This course is explicitly designed for incoming PhD students in Wisconsin Ecology departments. There is no standing course in any of these departments designed to introduce new students to the Wisconsin Ecology program, jumpstart their networking with faculty and senior graduate students, and generate a cohort bond and support structure for new students across departments. While various departments occasionally offer graduate seminars on professional development and allied topics, most such courses are intended for mid-level or finishing graduate students. This class is specifically for first-year students. No existing courses utilize the combination of faculty seminars, literature discussions with senior students, and professional development discussions that will be featured in the proposed course.

Is there a relationship to courses outside your subject?

No

Indicate the outside affected subject(s). The proposal will be sent to those subjects for review.

List the instructor name and title (list multiple if applicable)

Peter McIntyre, primary, one faculty member will teach the course each fall semester, with rotation among 4-5 faculty members representing both L&S and CALS departments.

If the instructor is not a tenured or tenure-track faculty member at UW-Madison, please explain the instructor's qualifications here. Then, go to the "Justifications" tab and upload the instructor's c.v. in the "Additional Attachments" section.

Attach a syllabus. See "help" for an explanation of what must be included in the syllabus.

957.pdf

Justifications

Explain how this course contributes to strengthening your curriculum

This course fills a gap in all Wisconsin Ecology member departments. We have no consistent mechanism for helping our new graduate students get situated at UW-Madison during their first year. This new course will accomplish three objectives for graduate education: a) introducing new graduate students to faculty from across the Wisconsin Ecology program, b) introducing new graduate students to senior graduate students from across the Wisconsin Ecology program, c) providing formal guidance on time management, professional conduct, and funding opportunities to new graduate students, and d) fostering a cohort bond and support network for new students. As such, it will be the cornerstone of the new Ecology certificate program sponsored by Wisconsin Ecology. It will also be notable for covering topics that fall within a wide range of departments; this breadth will help expand the perspective of our new students, and foster awareness of the variety of ecological research in the physical, natural, and social sciences at UW-Madison.

Provide an estimate of the expected enrollment

The course would be offered every fall, with expected enrollment of 15-20 first-year PhD students.

Justify the number of credits, following the federal definition of a credit hour (see help). Include the number of contact hours or, if contact hours are not an accurate measure of credit, provide an explanation of how credits are measured

The class will meet twice a week for 50 minutes or over the course of the semester it will be 1500 minutes for 2 credits.

If this is a variable credit course, provide rationale

Not a variable credit course.

Additional comments (optional)

There is no standing course in any Wisconsin Ecology department that introduces first year graduate students to the program, the human resources of UW-Madison, and to the complexities of professional development for graduate students. Thus, there is no redundancy with existing courses.

Additional attachments (optional) (please read "help" before uploading an attachment)

L&S Designations

Should the course be reviewed for L&S liberal arts and science (LAS) credit?

Yes

What is the rationale for seeking LAS credit?

LAS credit automatically granted because this is an L&S course

Level of the course, for L&S attributes (value required for all L&S courses and courses requesting LAS credit)

Advanced

Should the course be reviewed for L&S breadth requirements?

No

Indicate which:

General Education Designations

Should the course be reviewed for the general education requirement?

No

Which requirements?

DRAFT

Introduction to Wisconsin Ecology: A Graduate Seminar

Zoology 955, "Limnology Seminar"; 1 credit

Pete McIntyre, pmcintyre@wisc.edu, 890-3416

Meetings: Tuesday & Thursday 4:00-5:30 pm, Center for Limnology (Hasler) Room 210

Target audience: This seminar is designed specifically for incoming PhD students who are adjusting to graduate life at UW. Enrollment will be capped at 22 students. If space remains, incoming M.S. students and second-year PhD students will be considered.

This seminar course will introduce new graduate students to the diversity of ecologists across Wisconsin Ecology departments. Desired outcomes of the seminar include the following:

1) a strong cohort bond among new graduate students across departmental boundaries,
2) awareness of the breadth and depth of ecological research at UW,
3) dialogue between new and senior graduate students,
4) strategic thinking and sense of ownership regarding professional development.

We will make the most of two 90-minute meetings per week, with minimal outside work load. The Tuesday meeting will follow the 'faculty-on-parade' model; one professor will discuss her/his conceptual interests, scientific approach, and research results for an hour, followed by 30 minutes of student-led questions. Faculty presenters will be selected to represent the full range of subdisciplines, departments, and personal backgrounds within Wisconsin Ecology. I will act as moderator for all Tuesday meetings.

After reading one paper on the faculty presenter's research, the Thursday meeting will be a discussion with a senior graduate student from that lab. Discussion of the paper will be led by two of the new graduate students, with the senior graduate student helping to explain the work and offering a personal perspective on the research process from a student viewpoint. Students also will be encouraged to discuss other aspects of life as a graduate student. No faculty will be present during the Thursday conversation, encouraging students to talk freely.

The atmosphere in both weekly meetings will be casual, with priority placed on interaction among new students and with the visiting faculty and senior graduate students. Ecological research will be broadly construed, including evolutionary, conservation, and social science perspectives.

Although we are using a Zoology course number, the presenting faculty will represent a wide cross-section of ecological subdisciplines and departments. The intent is for this seminar to become an annual offering, serving as a cornerstone course for ecologically-minded PhD students as they begin their degree program. To that end, we will be seeking designation of this seminar as a new, cross-listed course beginning in Fall 2013.

DRAFT

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Schedule overview:

4 September – Introductions, and discussion of time management (no meeting on 6 Sept)

11 & 13 September – Care and maintenance of your advisor; Communicating to broad audiences

18 &20 September – Faculty presenter & senior graduate student

25 & 27 September – Faculty presenter & senior graduate student

2 & 4 October – Faculty presenter & senior graduate student

9 & 11 October – Faculty presenter & senior graduate student

16 & 18 October – Faculty presenter & senior graduate student

23 & 25 October – Faculty presenter & senior graduate student

30 October & 1 November – Faculty presenter & senior graduate student

6 & 8 November – Faculty presenter & senior graduate student

13 & 15 November – Faculty presenter & senior graduate student

20 November – Grants for graduate student research

27 & 29 November – Faculty presenter & senior graduate student

4 & 6 December – Faculty presenter & senior graduate student

11 & 13 December – Communicating to broad audiences revisited; feedback on this course