Washington State University
MAJOR CURRICULAR CHANGE FORM - - COURSE
(Submit original signed form and ten copies to the Registrar's Office, zip 10335. See https://www.ronrt.wsu.edu/ROPub/Apps/HomePage.ASP for this form.)

Required Effective Date: 01/10/2011 (effective date cannot be retroactive)
☐ New course ☐ Temporary course ☐ Drop service course
☐ There is a course fee associated with this course
http://www.schedules.wsu.edu/Schedules/Apps/CourseFees.ASP

☐ Variable credit
☐ Increase credit (former credit ______)
☐ Number (former number ______)
☐ Crosslisting (between WSU departments) (Must have both departmental signatures)
☐ Conjoint listing (400/500)
☐ Request to meet Writing in the Major [M] requirement (Must have All-University Writing Committee Approval)
☐ Request to meet GER in ______ (Must have GenEd Committee Approval) ☐ Fulfills GER lab (L) requirement
☐ Professional course (Pharmacy & Vet Med only) ☐ Graduate credit (professional programs only)
☐ Other (please list request) ______

BIOL 476/576
course prefix course no.

476 level credit - Biol 301 prerequisite

3 3 3 400 level credit - Biol 301 Biol 476
credit lecture hrs lab hrs studio hrs
per week per week per week

Description (20 words or less) Current literature based course on epigenetics & systems biology. Topics include environmental epigenetics, disease etiology & role of epigenetics in evolutionary biology.

Instructor: Michael Skinner Phone number: 335-1524 Email: skinner@wsu.edu
Contact: Justine Rupp Phone number: 335-3553 Email: ruppj@wsu.edu

- Please attach rationale for your request, a detailed course outline/syllabus and explain how this impacts other units in Pullman and other branches (if applicable).
Secure all required signatures and provide 10 copies to the Registrar’s Office.

Chair/date Dean/date General Education Com/date
Chair (if crosslisted/interdisciplinary)* Dean (if crosslisted/interdisciplinary)* Graduate Studies Com/date

All-University Writing Com/date Academic Affairs Com/date Senate/date

*If the proposed change impacts or involves collaboration with other units, use the additional signature lines provided for each impacted unit and college.
Memorandum

Date: September 2, 2010
To: Course Review Committees
From: Michael Skinner
Re: Course Request “Epigenetics and Systems Biology”

This course request is for a conjoint 400/500 level undergraduate/graduate course in the School of Biological Sciences. Currently there is no epigenetic course on campus and no systems biology course on campus in any department or program. Due to the importance of epigenetics to toxicology, development, disease etiology and evolutionary biology, a course in this topic and area is required. It is anticipated that many undergraduate and graduate students in various departments will take this as a campus wide course due to its impact on nearly all life science related departments. Since no course exists for undergraduate or graduate students, and the lectures and literature review would be similar, this course is proposed to be a conjoint 400/500 level course. As outlined in the syllabus, the course requirements for the undergraduate and graduate students are distinct, and course credit can not be obtained for both 400 and 500 level listings by an individual student. Due to this void in the course offerings on campus, this course is proposed.
Graduate School Questions Regarding Conjoint Courses

1. List the number of faculty in the degree granting area

The School of Biological Sciences (SBS) has 31 faculty at the main campus and seven faculty at WSU-V.

2. List the number of graduate courses listed on the books for the degree granting area

SBS teaches 38 courses at the 500 level, and four at the 600-800 level.

3. How many courses are currently listed as conjoint in the degree granting area?

The only conjoint course in SBS is Plant Anatomy (Biol 409/509)

4. How often are these conjoint courses taught?

Biol 409/509 is taught alternate years (even)

5. How many of these courses are designed as graduate courses with few undergraduate enrolled?

We are not aware of the original intent for Plant Anatomy, but current enrollment is four students in Biol 409, and 18 students in Biol 509.

6. Over the past three years, what percentage of courses on Graduate degree programs of study in this degree granting area are conjoint courses.

We do not have this exact information, but it is likely very small because only one course is conjoint, and it is not required by the majority of graduate students in SBS.

7. Why is this particular course integral to the graduate degree granting area?

Please see “Justification” for the course
“Epigenetics and Systems Biology”

Spring 2011 (Odd Years) - Course Syllabus
SBS 400/500 Level Undergraduate/Graduate Course (3 Credit)
Time - Tuesday and Thursday 10:35 am-11:50 am,
Room - TBA
Course Director - Michael Skinner, Abelson Hall 507, 335-1524

Objective – The objective of the course is to learn the concept and critical role of systems to understand molecular, cell, development, physiology and evolutionary aspects of biology with a focus on the role of epigenetics in systems biology.

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1. Attendance
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Graduate Students:
3. Grant proposal (5 page limit) due week of April
4. Student Grant Review session on week of May 3/6

Undergraduate Students:
3. Two exams

Grading and Evaluation -
- Both in class participation (25%) and (graduate students) the proposal (75%) or (undergraduate students) exams (75%) will be factors considered.

References and Textbook -
- Reading literature and references provided one week prior to session
- No required textbook
Graduate Students

Grant Proposal

Outline:
- Title
- Abstract
- Specific Aims
- Background
- Preliminary Results
- Experimental Design and Methods
- References

(5-10 pp. single spaced typed limit)

Key Points:
- Specific aims should be focused and concise and clarify hypothesis
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- Use only critical preliminary results

Additional Information:
- Propose short-range studies to address long-range goals
- Write grant for 3 to 4 year period to complete studies
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- Experimental design needs to address hypothesis

Score/Rating:
Factors involved: Type question addressed, organization of thoughts, preliminary results, feasibility, reasonable completion expectations, focus of aims and proposed studies.

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Review:
 NIH Study Section style review with all students/fellows participating in the review. Primary and secondary reviewers will be selected and all grants will be critiqued.

Note:
Welcome to use opportunity to prepare grants for student orals or fellowship applications.
Conjoint Course Requirements –

1) Undergraduate –
   1) Attendance
   2) Participation in literature and discussion session
   3) 2 exams (Midterm and Final)

2) Graduate –
   1) Attendance
   2) Participation and presentation in literature and discussion session
   3) Grant proposal (5 page limit)
   4) Grant review session participation

3) Same lecture and literature discussion session for both 400 and 500 level students.

4) Students may receive credit in only one component of the conjoint listed course.

Proposed Catalog Entry –

SBS 400 level Epigenetics and Systems Biology 3 (Spring odd Years). Pre req Biol 301. Current literature based course on epigenetics and systems biology with topics in environmental epigenetics, disease etiology, and role epigenetics in evolutionary biology. Credit not granted for both 400 and 500.

SBS 500 level Epigenetics and Systems Biology 3 (Spring odd Years) Current literature based course on epigenetics and systems biology with topics in environmental epigenetics, disease etiology, and role epigenetics in evolutionary biology. Credit not granted for both 400 and 500.
Students with Disabilities

Reasonable accommodations are available for students with a documented disability. If you have a disability and may need accommodations to fully participate in this class, please visit the Disability Resource Center (DRC). All accommodations MUST be approved through the DRC (Washington Building, Room 217). Please stop by or call 509-335-3417 to make an appointment with a disability specialist.

Plagiarism and Cheating

Academic integrity will be strongly enforced in this course. Any student caught cheating on any assignment will be given an F for the course and will be referred to the Office of Student Conduct.

I encourage you to work with classmates on assignments. However, each student must turn in original work. No copying will be accepted. Students who violate WSU’s Policy on Academic Integrity will receive an F as a final grade in this course.

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Spring 2011 (Odd Years) - Course Syllabus
Biol 476/576 Undergraduate/Graduate Course (3 Credit)
Time - Tuesday and Thursday 10:35 am-11:50 am,
Room - TBA
Course Director - Michael Skinner, Abelson Hall 507, 335-1524

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3) Same lecture for both 476 and 576 level students.

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A Commitment to Campus Safety

Washington State University is committed to enhancing the safety of the students, faculty, staff, and visitors to the Pullman campus. As part of this commitment, the university has prepared this Campus Safety Plan, containing a listing of university policies, procedures, statistics and information relating to campus safety, emergency management and the health and welfare of the campus community. Principal administrative responsibility for campus safety and security lies with the Division of Business and Finance. The Division of Student Affairs, Equity and Diversity also has significant responsibilities in this area.

Many university units collaborate to address campus safety issues and needs through their programs. Together, these programs comprise the plan for maintaining a safe campus for all. Links to the web pages for each of these units can be found below.

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Conjoint Course Requirements –

1) Undergraduate –
   1) Attendance (10%)
   2) Participation in literature and discussion session (15%)
   3) 2 exams (Midterm and Final), tested on lecture material (75%)

2) Graduate –
   1) Attendance(10%)
   2) Participation and presentation in literature and discussion session (15%)
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3) Same lecture for both 476 and 576 level students.

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<td>Acceptable</td>
<td>4.0 - 5.0</td>
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Review:
NIH Study Section style review with all students/fellows participating in the review. Primary and secondary reviewers will be selected and all grants will be critiqued.

Note:
Welcome to use opportunity to prepare grants for student orals or fellowship applications.
Students with Disabilities

Reasonable accommodations are available for students with a documented disability. If you have a disability and may need accommodations to fully participate in this class, please visit the Disability Resource Center (DRC). All accommodations MUST be approved through the DRC (Washington Building, Room 217). Please stop by or call 509-335-3417 to make an appointment with a disability specialist.

Plagiarism and Cheating

Academic integrity will be strongly enforced in this course. Any student caught cheating on any assignment will be given an F for the course and will be referred to the Office of Student Conduct.

I encourage you to work with classmates on assignments. However, each student must turn in original work. No copying will be accepted. Students who violate WSU’s Policy on Academic Integrity will receive an F as a final grade in this course.

Academic integrity is the cornerstone of the university. Any student who attempts to gain an unfair advantage over other students by cheating, will fail the course. You must do your own work.

A Commitment to Campus Safety

Washington State University is committed to enhancing the safety of the students, faculty, staff, and visitors to the Pullman campus. As part of this commitment, the university has prepared this Campus Safety Plan, containing a listing of university policies, procedures, statistics and information relating to campus safety, emergency management and the health and welfare of the campus community. Principal administrative responsibility for campus safety and security lies with the Division of Business and Finance. The Division of Student Affairs, Equity and Diversity also has significant responsibilities in this area.

Many university units collaborate to address campus safety issues and needs through their programs. Together, these programs comprise the plan for maintaining a safe campus for all. Links to the web pages for each of these units can be found below.