Agenda Item #14-51
Effective: Fall 2015

Eastern Illinois University

New/Revised Course Proposal Format

(Approved by CAA on 4/3/14 and CGS on 2/17/15, Effective Fall 2015)

Banner/Catalog Information (Coversheet)

1. **__x__New Course or _____Revision of Existing Course**
2. **Course prefix and number:** _____BCT 5980_____
3. **Short title:** _____Internship in Biotechnology_____
4. **Long title:** _____ Internship in Biotechnology _____
5. **Hours per week:** ___ Class _9__ Lab _3__ Credit
6. **Terms:** _x__ Fall __x_ Spring _x__ Summer _x__ On demand
7. **Initial term**: _x__ Fall ___ Spring ___ Summer Year: _2015_____
8. **Catalog course description:** Internship experience in a laboratory setting approved by the program coordinator. To be taken credit/no credit for a maximum of six semester hours applicable to the degree.
9. **Course attributes:**

   General education component: _____

   ___ Cultural diversity ___ Honors ___ Writing centered ___ Writing intensive ___Writing active
10. **Instructional delivery**
    Type of Course:

    ___ Lecture ___ Lab ___ Lecture/lab combined ___ Independent study/research

    _x_ Internship ___ Performance ___ Practicum/clinical ___ Other, specify: _____

    Mode(s) of Delivery:

    _x__ Face to Face ___ Online ___ Study Abroad

    ___ Hybrid, specify approximate amount of on-line and face-to-face instruction_____

    Course(s) to be deleted from the catalog once this course is approved. ____n/a_____
11. **Equivalent course(s):** _____n/a_____

    a. Are students allowed to take equivalent course(s) for credit? ___ Yes ___ No

12. Prerequisite(s): Student must have completed BCT 5000 (Techniques in Biotechnology) with a C or better and acceptance to a sponsored internship and permission of the Program Coordinator.

a. Can prerequisite be taken concurrently? ___ Yes _x__ No

b. Minimum grade required for the prerequisite course(s)? ___

c. Use Banner coding to enforce prerequisite course(s)? ___ Yes _x__ No

d. Who may waive prerequisite(s)?

___ No one ___ Chair ___ Instructor ___ Advisor _x__ Other (Program Coordinator)

13. Co-requisite(s): _____n/a_____

14. Enrollment restrictions

a. Degrees, colleges, majors, levels, classes which <u>may</u> take the course: Admission to the Master's in Biochemistry and Biotechnology program or by permission of the Program Coordinator**.**

15. Degrees, colleges, majors, levels, classes which may <u>not</u> take the course: Students that are not enrolled in the Master's in Biochemistry and Biotechnology program or by permission of the Program Coordinator.

16. Repeat status: ___ May not be repeated _x__ May be repeated once with credit

17. Enter the limit, if any, on hours which may be applied to a major or minor: _6__

18. Grading methods: ___ Standard _x__ CR/NC __ Audit ___ ABC/NC

19. Special grading provisions:

___ Grade for course will <u>not</u> count in a student's grade point average.

___ Grade for course will <u>not</u> count in hours toward graduation.

___ Grade for course will be removed from GPA if student already has credit for or is registered in: _____

___ Credit hours for course will be removed from student's hours toward graduation if student already has credit for or is registered in: _____

20. Additional costs to students:
Supplemental Materials or Software_____

Course Fee _x__No ___Yes, Explain if yes_____

21. Community college transfer:

___ A community college course may be judged equivalent.

___ A community college may not be judged equivalent.

Note: Upper division credit (3000+) will not be granted for a community college course, even if the content is judged to be equivalent.

Rationale, Justifications, and Assurances (Part I)

1. ___Course is required for the major(s) of _____

   ___Course is required for the minor(s) of _____

   ___Course is required for the certificate program(s) of _____

   _x__ Course is used as an elective

2. This course has been developed to serve the needs of the new Master's in Biochemistry and Biotechnology being proposed by the Departments of Biological Sciences and Chemistry with support from the MBA program. This course will prepare students for employment in the Biochemistry and Biotechnology industry and/or related fields.
3. **Justifications for (answer N/A if not applicable)**

   Similarity to other courses: **n/a**

   Prerequisites: This is an advanced techniques class that will build on techniques learned in BCT 5000.

   Co-requisites: **n/a**

   Enrollment restrictions: **n/a**

   Writing active, intensive, centered: **n/a**

4. **General education assurances (answer N/A if not applicable)**

   General education component: **n/a**

   Curriculum: **n/a**

   Instruction: **n/a**

   Assessment: **n/a**

5. **Online/Hybrid delivery justification & assurances (answer N/A if not applicable)**

   Online or hybrid delivery justification: **n/a**

   Instruction: **n/a**

   Integrity: **n/a**

   Interaction: **n/a**

Model Syllabus (Part II)

Please include the following information:

1. Course number and title – BCT 5980 Internship in Biotechnology
2. Catalog description - Internship experience in a laboratory setting approved by the program coordinator. To be taken credit/no credit for a maximum of six semester hours applicable to the degree.

3. Learning objectives.

Through an internship experience, students will:

A. Demonstrate proficiency in advanced laboratory techniques valued in the biotechnology industries.
*Meets graduate learning goals: a. Depth of content knowledge.

B. Analyze data and document results in a variety of ways (*e.g.* publications, patents, reports).
*Meets graduate learning goals: a. Depth of content knowledge, b. Effective critical thinking and problem solving, c. Effective oral and written communication.

C. Demonstrate how to make data-driven decisions using current primary research literature in order to design experimental approaches to an identified endpoint.
*Meets graduate learning goals: a. Depth of content knowledge, b. Effective critical thinking and problem solving, c. Effective oral and written communication, d. Advanced scholarship through research and creative activity.

D. Demonstrate proficiency in communicating scientific results through written research reports and publications and oral presentations.
*Meets graduate learning goals: b. Effective critical thinking and problem solving, c. Effective oral and written communication.

E. Engage in professional oral communication and interaction.
*Meets graduate learning goals: c. Effective oral and written communication.

4. Course materials. - No texts are issued for this course

5. Weekly outline of content.

This course is designed to be a final laboratory experience for the Masters in Biochemistry and Biotechnology. It is designed to meet the individual interests of the students, while also being sensitive to the ability of the Program Coordinator to place students in internships. As such, the course outline has been designed as an internship course. Since the course is designated as arr-arr-3, the students will be expected to be in the internship facility 135 hours over the term.

6. Assignments and evaluation, including weights for final course grade.

Final ratings will be based upon consultation with the internship host. The student will have had to successfully complete all four criteria as outlined under II.3.

7. Grading scale.

The Internship supervisor(s) will be asked to give a Satisfactory (Pass) or Unsatisfactory (Fail) as well as the option to give comments as an explanation.

8. Correlation of learning objectives to assignments and evaluation.

The Internship supervisor(s) will be given the Learning Objectives and be asked to evaluate student performance as satisfactory or unsatisfactory. For correlation of course specific learning goals to graduate school learning goals please see II.3.

Date approved by the Department of Biological Sciences: May 9, 2014

Date approved by the Department of Chemistry: November 22, 2014

Date approved by the college curriculum committee: December 12, 2014

Date approved by the Honors Council *(if this is an honors course):*

Date approved by CAA: **CGS:**