The University Of Toledo

Existing Graduate Course Modification Form

* denotes required fields

Contact Person*: Hermann von Grafenstein  Phone: 530-1920 (xxx - xxxx)  Email: hermann.grafenstein@utoledo.edu

Present
Supply all information asked for in this column. (Supply core, research intensive and transfer module info if applicable)

College*: [College Pharmacy, Pharm Sciences ▼
Dept/Academic Unit*: [Medicinal and Biological Chemistry ▼
Course Alpha/Numeric*: MBC - 8300

Course Title: Biomedicinal Chemistry Laboratory I
Credit hours: Fixed: 4 or Variable: to

CrossListings:

Prerequisite(s)(if longer than 50 characters, please place it in Catalog Description):

Corequisite(s)(if longer than 50 characters, please place it in Catalog Description):

Proposed
Fill in appropriate blanks only where entry differs from first column.

College: [College Pharmacy, Pharm Sciences ▼
Dept/Academic Unit: [Medicinal and Biological Chemistry ▼
Course Alpha/Numeric: MBC - 8300

Course Title: Biomedicinal Chemistry Laboratory I
Credit Hours: Fixed: 1 or Variable: to

CrossListings:

Prerequisite(s)(if longer than 50 characters, please place it in Catalog Description):

Corequisite(s)(if longer than 50 characters, please place it in Catalog Description):
Catalog Description (only if changed) 75 words max:

Has course content changed?

- Yes
- No

If course content is changed, give a brief topical outline of the revised course below (less than 200 words)

Proposed effective term*: 201640 (e.g., 201140 for 2011 Fall)

<table>
<thead>
<tr>
<th>File Type</th>
<th>View File</th>
</tr>
</thead>
<tbody>
<tr>
<td>Syllabus</td>
<td>View</td>
</tr>
</tbody>
</table>

List any course or courses to be deleted.

Comments/Notes:
Change of credit hours: Credit hours are reduced from 4 credit hours to 1 credit hour.

Explanation:

a. This course is a laboratory rotation to introduce the student to a potential lab for dissertation research.
b. The students have a large course load this semester and do not have time to devote so many hours to research. They do not yet have sufficient research background to be productive.
c. The new credit hour will be more appropriate to the time that can be devoted to this course, 3 hours of laboratory work per week.

The proposed curriculum change, including the change to MBC6300/8300 had been drafted at an MBC Graduate Affairs Committee meeting on November 3, 2015 and was discussed at length at MBC departmental meetings on November 12, 2015 and January 21, 2016. The changes were approved by the College Curriculum Committee on March 3, 2016.

Rationale:
The proposed change of MBC 8300 Biomedicinal Chemistry Lab I is part of an overall revision of the Medicinal Chemistry Doctoral Program that was necessary to reduce the time to graduation and the number of credits required for graduation as demanded by the State of Ohio.

Approval:
Department Curriculum Authority: James T Slama, Ph.D., Professor Date 2016/03/09
Department Chairperson: Katherine A Wall Date 2016/04/05
College Curriculum Authority or Chair: Frederick E. Williams Date 2016/12/09
College Dean: Laurie S. Mauro Date 2016/12/29
Graduate Council: Constance Schall (GC 1.24.2017) Date 2017/01/26
Dean of Graduate Studies: Amanda Bryant-Friedrich Date 2017/01/31
Office of the Provost: marcia king-blandford Date 2017/01/31
Effective Date: 2017/05/17
Subsidy Taxonomy: 
Program Code: 
Instructional Level: 

Registrar's Office Use Only

Processed in Banner on: 2016/09/01
Processed in Banner by: Tasha Woodson
Banner Subject Code: MBC
Banner Course Number: 8300
Banner Term Code: 201710
Banner Course Title: Biomedicinal Chemistry Laboratory I
Biomedicinal Chemistry Laboratory I
The University of Toledo
Medicinal and Biological Chemistry, College of Pharmacy and Pharmaceutical Sciences
MBC 6300/8300, sections 001-008, 010-011, 043

Instructor: Drs. Bryant-Friedrich, Erhardt, von Grafenstein, Peseckis, Shah, Slama, Tillekeratne, Wall, McInerney, Schiefer, and Sari

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Steven.Peseckis@utoledo.edu
Zahoor.Shah@utoledo.edu
James.Slama@utoledo.edu
Viranga.Tillekeratne@utoledo.edu
Katherine.Wall@utoledo.edu
Marcia.McInerney@utoledo.edu
Isaac.Schiefer@utoledo.edu
Youssef.Sari@utoledo.edu

Office Hours: Students can meet at any time when the instructor is available. Meetings may be scheduled by e-mail between the student and the instructor.

Office Location and Phone:
Dr. Amanda Bryant-Friedrich, WO 2217 419-530-1940
Dr. Paul Erhardt, WO 2206B 419-530-2167
Dr. Hermann von Grafenstein, BO 2833 419-530-1981
Dr. Steven Peseckis, MK 2000D 419-530-6039
Dr. Zahoor Shah, HEB 294A 419-383-1587
Dr. James Slama, HEB 274E 419-383-1925
Dr. Viranga Tillekeratne, WO 2203 419-530-1983
Dr. Katherine Wall, HEB 284A 419-383-1943
Dr. Marcia McInerney, HEB 145F 419-383-1905
Dr. Isaac Schiefer, HEB 284C 419-383-1935
Dr. Youssef Sari, HEB 282G 419-383-1507

Term: Fall, Spring, and Summer 2014-15

Class Location: Instructor’s lab

Lab Location: Instructor’s labs Wolfe Center, Health Science Campus or Wolfe Hall, Main Campus

Lab Day/Time: NA

Credit Hours: 1
COURSE/CATALOG DESCRIPTION
Experimental research problems in biomedicinal chemistry.

COURSE OVERVIEW
This is an individualized research course/project planned by the faculty member in each of the sections. It requires the student to work with the instructor for 3h/week for each registered credit. It is designed to be an introductory research rotation prior to assignment of each new graduate student to a research mentor.

STUDENT LEARNING OUTCOMES
1. Interpret and critically evaluate the literature in the respective discipline and identify gaps in current knowledge.
2. Design, implement, and analyze the results of, an independent research project in the respective discipline.
3. Effectively communicate and defend research findings orally and in writing
4. Describe and comply with standards of ethical conduct of research
5. Effectively work in a team of colleagues within the discipline

PREREQUISITES AND COREQUISITES
MBC 6190/8190 for level graduate with a minimum grade of D- and MBC 6550/8550 for level graduate with a minimum grade of D-.

REQUIRED TEXTS AND ANCILLARY MATERIALS
Reviewing scientific literature based on the problem to be researched using Pubmed and other online search engines.

TECHNOLOGY REQUIREMENTS
None

UNIVERSITY POLICIES
The University is an equal opportunity educational institution. Please read The University’s Policy Statement on Nondiscrimination on the Basis of Disability Americans with Disability Act Compliance.

Academic Accommodations
The University of Toledo is committed to providing equal access to education for all students. If you have a documented disability or you believe you have a disability and would like information regarding academic accommodations/adjustments in this course please contact the Student Disability Services Office.

ACADEMIC POLICIES
Follow general program policies.

COURSE EXPECTATIONS
See MBC Graduate Student Manual.
GRADING
No exams are required during the semester. A final grade is used, with a certain % assigned by individual faculty, taking into consideration the student’s performance in the lab and the outcome/results on the project. Letter grades (A-F) will be used, according to the following grading scale:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Numerical Average (%)</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90-100</td>
<td>4</td>
</tr>
<tr>
<td>A'</td>
<td>88.5-89.9</td>
<td>3.67</td>
</tr>
<tr>
<td>B'</td>
<td>86.5-88.4</td>
<td>3.33</td>
</tr>
<tr>
<td>B</td>
<td>80-86.4</td>
<td>3</td>
</tr>
<tr>
<td>B'</td>
<td>78.5-79.9</td>
<td>2.67</td>
</tr>
<tr>
<td>C'</td>
<td>76.5-78.4</td>
<td>2.33</td>
</tr>
<tr>
<td>C</td>
<td>70-76.4</td>
<td>2</td>
</tr>
<tr>
<td>C'</td>
<td>68.5-69.9</td>
<td>1.67</td>
</tr>
<tr>
<td>D'</td>
<td>66.5-68.4</td>
<td>1.33</td>
</tr>
<tr>
<td>D</td>
<td>60-66.4</td>
<td>1</td>
</tr>
<tr>
<td>D'</td>
<td>58.5-59.9</td>
<td>0.67</td>
</tr>
<tr>
<td>F</td>
<td>&lt;58.5</td>
<td>0</td>
</tr>
</tbody>
</table>

COURSE SCHEDULE
No fixed schedule. The day/time is planned and agreed upon by the student and the instructor.