

APPROVED

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# The University Of Toledo

## New Graduate Course Proposal

JAN 16 2013

COLLEGE OF GRADUATE STUDIES

\* denotes required fields

1. College\*:

Department\*:

2. Contact Person\*:  Phone:  (xxx-xxxx) Email:

3. Alpha/Numeric Code (Subject area - number)\*:  -

4. Proposed title\*:

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

5. Is the course cross-listed with another academic unit?

Yes  No

Approval of other academic unit (signature and title)

Is the course offered at more than one level?

Yes  No

If yes, an undergraduate course proposal form must also be submitted. If the undergraduate course is new, complete the New Undergraduate Course Proposal; if the undergraduate course is existing, submit an Undergraduate Course Modification Proposal.

6. Credit hours\*: Fixed:  or Variable:   
to

7. Delivery Mode:	Primary*	Secondary	Tertiary
a. Activity Type *	<input type="text" value="Regular Lab"/>	<input type="text" value="Lecture"/>	<input type="text" value="Seminar"/>
b. Minimum Credit Hours *	<input type="text" value="2"/>	<input type="text" value="2"/>	<input type="text" value="2"/>
Maximum Credit Hours *	<input type="text" value="6"/>	<input type="text" value="6"/>	<input type="text" value="6"/>
c. Weekly Contact	<input type="text" value="6"/>	<input type="text" value="6"/>	<input type="text" value="6"/>

Hours \*

8.

Terms offered:  Fall  Spring  Summer

Years offered:  Every Year  Alternate Years

9. Are students permitted to register for more than one section during a term?  No  Yes

May the courses be repeated for credit?  No  Yes Maximum Hours

10. Grading System\*:  Normal Grading (A-F, PS/NC, PR, I)  Passing Grade/No Credit (A-C, NC)  Credit/No Credit  Grade Only (A-F, PR, I)  Audit Only  No Grade

11. Prerequisites (must be taken before): i.e. C or higher in (BIOE 4500 or BIOE 5500) and C or higher in MATH 4200

PIN (Permisson From Instructor)  PDP (Permission From Department)

Co-requisites (must be taken together):

12. Catalog Description\* (75 words Maximum)

The course is intended for laboratory rotations to familiarize students with research topics in various clinical/basic science laboratories. A primary focus is to allow students to shadow, learn, experience and perform specific laboratory techniques.

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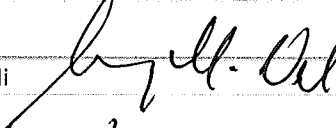

13. Attach a syllabus and an electronic copy of a complete outline of the major topics covered. Click [here](#) for template.



File Type	View File
Syllabus	<a href="#">View</a>



**Course Approval:**



Department Curriculum Authority:   Date  


Department Chairperson:   Date  

College Curriculum Authority or Chair:   Date  


College Dean:   Date  

Graduate Council:   Date  

Dean of Graduate Studies:   Date  

Office of the Provost :  Date  

**Administrative Use Only**

Effective Date:   (YYYY/MM/DD)

CIP Code:

Subsidy Taxonomy:

Program Code:

Instructional Level:

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**The following requirements will be differentiated for courses that are co-listed for Masters (5000 or 6000) and Ph.D. (7000 or 8000) levels:**

Masters students will need to complete successfully all course requirements as indicated in the syllabus. They should be able to achieve and demonstrate comprehensive understanding of course topics through class discussion, assignments, quizzes and exams.

To complete the course requirements, Ph.D. students will need to demonstrate an extended expertise in the course topics. They also should demonstrate independent scholarly activity and creativity to the class instructor. The ability of the Ph.D. level students to synthesize scientific data/information, develop original ideas/hypotheses and Formulate independent research studies/proposals will be evaluated through additional assignments and readings, or by demonstrating leadership roles in class discussion or other collaborative settings."

**PHCL 6300/8300**  
**Research Experience in Experimental Therapeutics**  
**Course Syllabus**

**Instructor(s):** Drs. Salah Ahmed, Miles Hacker, Ezdihar Hassoun, Ming Liu, William Messer, Surya Nauli, Ana Oyarce, Youssef Sari, Caren Steinmiller, Frederick William.  
**Office/Office Hours:** HEB / to be announced  
**Phone:** 419-383-1910  
**Contact Email:** surya.nauli@utoledo.edu

**Class Time and Location:** To be announced

**Primary Communication Method:** Research, Lecture, Discussion and/or Presentation

**Course Description:** The course is intended for laboratory rotations to familiarize students with research topics in various clinical/basic science laboratories. A primary focus is to allow students to shadow, learn, experience and perform specific laboratory techniques.

**Course Objectives:**

- 1) Students will be able to identify a primary research topic for their dissertation project.
- 2) Students will shadow, learn, experience and perform various laboratory techniques.
- 3) Students will be able to develop and design experiments pertinent to their research interests.
- 4) Students will be able to explore literatures on the laboratory techniques and scientific knowledge of their research topics.
- 5) Students will be able to apply the basic principles of pharmacology and toxicology to their dissertation research projects.

**Credit Hour:** 2-6

**Required/Recommended Texts:** none

**Course Policies:**

**General-** Students are expected to attend classes, although attendance is not routinely taken. In the event of absence from class, students will be responsible for completing all assignments.

**Research paper-** may be assigned by the individual instructors.

**Research presentation-** may be required by the individual instructors.

**Exams-** not applicable

**Academic Dishonesty Statement-** Cheating on laboratory tasks or other forms of academic dishonesty will not be tolerated. Students guilty of cheating or plagiarism will be prosecuted according to College and University policies.



**Students with Disabilities** - The University of Toledo abides by the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973. If you have a disability and are in need of academic accommodations but have not yet registered with the Office of Accessibility (Rocket Hall 1820; 419.530.4981; [officeofaccessibility@utoledo.edu](mailto:officeofaccessibility@utoledo.edu)) please contact the office as soon as possible to initiate the process. Students with disabilities receiving accommodations through OA are encouraged to discuss these with course instructors, after class or during office hours, so that we may be better informed on how to assist you during the semester.

**Course Grade:** Final course grades will be determined based on the attendance, professionalism, quality of the laboratory performance, ability to conduct and learn laboratory techniques, and ability to work as a team and to communicate clearly.

**Grading Scale:** Pass/Fail grading will be used.

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