IBMS 6098-6BMM Biochemical Mechanisms in Medicine (BMM) Thesis

Fall 2023

CLASS DAYS and TIME: Variable, as determined by faculty mentors.

CLASSROOM: Variable, as determined by faculty mentors.

COURSE FACULTY: David S. Libich, Ph.D.

OFFICE LOCATION and HOURS: GCCRI 4.100.22, by appointment

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READ THIS DOCUMENT CAREFULLY - YOU ARE RESPONSIBLE FOR ITS CONTENTS.

COURSE DESCRIPTION AND OBJECTIVES

This course involves independent, original research under the direction of a faculty advisor and is designed to allow a graduate student time to write his or her Master's Thesis and to receive guidance from his or her Thesis Supervising Committee. Registration in IBMS 6098 is only permitted following a student's admission to candidacy for the M.S. degree, approval of the thesis research proposal, and approval of the membership of the candidate's Thesis Supervising Committee. A candidate for the M.S. degree must register for the Thesis course for at least one semester prior to graduation. Students should enroll in the Thesis course section that corresponds to their IBMS discipline: IBMS 6098-2BA for Biology of Aging (BA), IBMS 6098-3CB for Cancer Biology (CB), IBMS 6098-4CGM for Cell Biology, Genetics & Molecular Medicine (CGM), IBMS 6098-5MIM for Molecular Immunology & Microbiology (MIM), 6098-6MBB for Molecular Biophysics & Biochemistry (MBB), IBMS 6098-6NS for Neuroscience (NS), and IBMS 6098-8PP for Physiology & Pharmacology (PP). Enrollment in IBMS 6098 with discipline designations typically requires course permissions which is granted by the discipline coordinator or director.

Pre-requisites: None

Semester credit hours: Variable, 1.0 – 9.0 SCH

By the end of this course, each student should be able to:

- Conduct independent experiments using the appropriate experimental approaches in biomedical research to address scientific questions.
- Interpret the underlying principles, experimental design, data and statistical analyses of specific biomedical experiments.
- Write and orally defend a M.S Thesis describing the data collected and highlighting the key findings of the research project.

COURSE ORGANIZATION

The main teaching modalities used in this course include:

- 1. Hands on laboratory work with the purpose of addressing an important area of study in Integrated Biomedical Sciences.
- 2. Design and defense of a M.S. Thesis describing the data collected and highlighting the key findings of the research project.

Materials: Laboratory protocols, laboratory notebook.

Computer Access: Any personal computer.

Reading Assignments: As required by supervising professor.

ATTENDANCE

Attendance and participation are mandatory. An U (unsatisfactory) or I (incomplete) may be assigned if the student fails to participate in and make satisfactory progress with their assigned work. Any scheduled absences must be approved by the faculty mentor prior to the absence. If a recurring absence is needed due to medical reasons, the student should notify the course director(s) and provide a doctor's note.

TEXTBOOKS

Required: n/a

Recommended: n/a

GRADING POLICIES AND EXAMINATION PROCEDURES

Students will be graded on their attendance, participation and research progress. The final grade will be determined by the supervising professor, in consultation with the student's supervising committee (if appropriate).

Grading System:

(Honors / Satisfactory / Unsatisfactory / Incomplete)

REQUESTS FOR ACCOMODATIONS FOR DISABILITIES

In accordance with policy 4.2.3, Request for Accommodation Under the ADA and the ADA Amendments Act of 2008 (ADAAA), any student requesting accommodation submits the appropriate request for accommodation under the American with Disabilities Act (ADA). Students submit **Student/Resident Request for Accommodation Under the Americans with Disabilities Act (ADA)**, form ADA-100, to his/her appropriate Associate Dean of their School and a copy to the ADA Coordinator. Additional information may be obtained at http://uthscsa.edu/eeo/request.asp

ACADEMIC INTEGRITY AND PROFESSIONALISM

Any student who commits an act of academic dishonesty is subject to discipline as prescribed by the UT System Rules and Regulations of the Board of Regents. Academic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an exam for another person, signing attendance sheets for another student, and any act designed to give unfair advantage to a student or the attempt to commit such an act. Additional information may be obtained at

http://catalog.uthscsa.edu/generalinformation/generalacademicpolicies/academicdishonestypolicy/

The values and ethics of the GSBS and UT Health San Antonio are based upon honesty, integrity, and mutual respect between all students, staff, and faculty. These values and ethics are applied to all endeavors that are related to activities performed by all members of the GSBS community. This includes any assignments, presentations, projects, and/or exams completed in this course. All students commit to not receiving or giving any aid on the completion of their work in this course including the use of Artificial Intelligence text generators such as ChatGPT. If you are unsure how this might pertain to this course, please contact the course director before submission of any assigned work.

TITLE IX AT UTHSCSA

Title IX Defined: Title of the Education Amendments of 1972 is a federal law that prohibits sex discrimination in education. It reads "no person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance."

University of Texas Health Science Center San Antonio's Commitment: University of Texas Health Science Center San Antonio (UTHSCSA) is committed to maintaining a learning environment that is free from discriminatory conduct based on gender. As required by Title IX, UTHSCSA does not discriminate on the basis of sex in its education programs and activities, and it encourages any student, faculty, or staff member who thinks that he or she has been subjected to sex discrimination, sexual harassment (including sexual violence) or sexual misconduct to immediately report the incident to the Title IX Director.

In an emergency, victims of sexual abuse should call 911. For non-emergencies, they may contact UPD at 210-567- 2800. Additional information may be obtained at <u>http://students.uthscsa.edu/titleix/</u>

EMAIL POLICY

Every student is issued a University e-mail address and account at the time of enrollment. As a matter of University Policy, communications between students and faculty that occur using the student's University e-mail address is considered official business. Therefore, students are expected to check their university email inboxes on a regular basis so that any announcements, instructions, or information regarding this course will be received in a timely way. Missed communications due to inadequate monitoring of incoming emails on the University's email server will never be a valid excuse for unsatisfactory academic progress

USE OF RECORDING DEVICES

Recording of lectures and other learning activities in this course by any means (*e.g.*, video, audio, etc.) is only permitted if approved by the instructor or required for compliance with Americans with Disabilities Act (ADA).

ELECTRONIC DEVICES

Cell phones must be turned off during all class meetings and exams. Computers and electronic tablets are allowed only for participating in classroom activities (e.g., viewing slides presented in lecture or conference materials). No texting, tweeting, emailing, web- surfing, gaming, or any use of electronic devices that is not directly connected with classroom activities is permitted.

APPENDIX 1: EVALUATION CRITERIA

Criterion	Needs improvement	Competent	Exemplary
Active participation	Does not contribute	Responds to direct queries, sometimes volunteers	Often volunteers, initiates new discussions on topics related to class topic
Relevance of participation to topic under consideration	Contributions are sometimes off-topic or distracting	Contributions are always relevant to discussion	Contributions are relevant and promote in-depth or novel analysis
Evidence of level of preparation	Does not appear to have read the material in advance and/or has little comprehension	Comes prepared to class and can take advantage of opportunities for discussion	Comes prepared and may bring additional material into discussion beyond what was assigned
Presentation Materials	Slides are disorganized and uninformative	Slides are clear, well organized, and informative	Slides are not only clear and informative, but incorporate additional information, flowcharts, guides for the listener
Presentation Style	Presentation is disorganized and hard to understand	Presentation is organized and clear	Presentation is highly professional and articulate as well as organized and clear

Fall 2020 Roster TBD

DATE	PRESENTER	Research / Article
July 24		
July 31		
August 7		
August 14		
August 21		
August 28		
September 4	Labour Day Weekend	
September 11		
September 18		
September 25		
October 2		
October 9		
October 16		
October 23		
October 30		
November 6		
November 13		
November 20		
November 27	Thanksgiving Holiday	
December 4		
December 11		
December 18		