Biophysics Research

PHYS 4191, Section 020  |  CRN 23259
Research Annex

Contact Information

Dr. Michael C. Holcomb
michael.holcomb@angelo.edu
325-486-6787
VIN 123

Office Hours
MWF 10:00am–12:00pm
MWF 2:00pm–4:00pm
Also available by appointment

Course Overview

This course will be a directed research project intended to provide the student with a meaningful and productive physics research experience. Subject matter will vary depending on student interest; however, will generally lie within the interdisciplinary field of theoretical and computational biophysics.

This course is intended to familiarize the student with skills, strategies, and techniques that will help prepare them for future professional or graduate level research. To this end, the course will emphasize a mix of literature review, collaborative meetings, and computational modeling.

Expected Learning Outcomes

The expected learning outcomes for the course, listed below, will be assessed through a combination of shorter-term, tangible goal setting and overall performance on the selected research project. The student will also be asked multiple times throughout the semester to prepare and present literature summaries or research updates in oral presentation, poster, or journal article manuscript form.

1. Demonstrate the ability to find, summarize, and analyze peer-reviewed publications.
2. Learn how to interact productively in a collaborative research environment.
3. Gain a general understanding of computational modeling practices.

GRADING POLICIES

Your letter grade will be determined on the following qualitative scale on the basis of the research advisor’s judgement:

- **A** Excellent; met or exceeded all expectations with no substantive shortcomings
- **B** Good; most or all expectations were met with only minor shortcomings
- **C** Satisfactory; most expectations were met but with at least one significant shortcoming
- **D** Unsatisfactory; some expectations met but with multiple significant shortcomings
- **F** Failing; most or all expectations not met with multiple significant shortcomings

Incomplete Grade Policy

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 Grading Procedures for more information.
INCLUSIVE LEARNING ENVIRONMENT (Adapted from Yale Center for Teaching and Learning)

Civility and Respect
Our university supports and wants to foster a civil, respectful, and open-minded climate so that all of us can live and work in an environment free of harassment, bias-motivated behaviors, unfair treatment, and fear. The university expects all members of our community to refrain from actions or behaviors that intimidate, humiliate, or demean persons or groups or that undermine their security or self-esteem based on traits related to race, ethnicity, country of origin, religion, gender identity/expression, sexual orientation, age, or physical or mental ability, including learning and/or developmental disabilities and past/present history of mental disorder or other category protected by state or federal law.

Accommodations for Students with Disabilities
Angelo State University is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA) and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student’s responsibility to initiate such a request by contacting an employee of the Office of Student Affairs. For more information about the application process and requirements, visit the Student Disability Services website at www.angelo.edu/ada.

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<tr>
<td>Dallas A. Swafford</td>
<td>Houston Harte University Center, Room 112</td>
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<tr>
<td>Director of Student Disability Services</td>
<td>Office Email: <a href="mailto:ada@angelo.edu">ada@angelo.edu</a></td>
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<tr>
<td>Email: <a href="mailto:dallas.swafford@angelo.edu">dallas.swafford@angelo.edu</a></td>
<td>Office Phone: 325.942.2047</td>
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Title IX at Angelo State University
All community members should enjoy an environment free of any form of harassment, sexual misconduct, discrimination, or intimate partner violence. The university prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking.

Students are encouraged to report any incidents of sexual misconduct directly to ASU’s Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator You may also file a report online 24/7 at www.angelo.edu/incident-form. For more information about resources related to sexual misconduct, Title IX, or Angelo State’s policy please visit: www.angelo.edu/title-ix.

Note from Dr. Holcomb: As a faculty member at Angelo State, I am a mandatory reporter and am obligated to report incidents involving sexual misconduct to the Title IX Coordinator. Should you wish to speak to someone in confidence about an issue, you may contact the University Counseling Center (325.942.2371), the 24-Hour Crisis Helpline (325.486.6345), or the University Health Clinic (325.942.2171).

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<td>Michelle Boone, J.D.</td>
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<td>Director of Title IX Compliance &amp;</td>
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<td>Title IX Coordinator</td>
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Student Absence for Observance of Religious Holy Days
A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for Observance of Religious Holy Day for more information.

ACADEMIC INTEGRITY

Academic integrity is a core institutional value at Angelo State University. It means, among other things, truth in presentation, diligence and precision in citing works and ideas we have used, and acknowledging our collaborations with others. In view of our commitment to maintaining the highest standards of academic integrity, the ASU Code of Conduct and Academic Integrity policy specifically prohibits the following forms of behavior:

- cheating on examinations, problem sets and all other forms of assessment;
- falsification and/or fabrication of data;
- plagiarism, that is, the failure in a dissertation, essay or other written exercise to acknowledge ideas, research, or language taken from others;
- multiple submissions of the same work without obtaining explicit written permission from both instructors before the material is submitted.

This is not an exhaustive list of prohibited behaviors. I encourage each of you to read the Code of Conduct and Academic Integrity policy in full for more information. The College of Science and Engineering adheres to the university’s Statement of Academic Integrity.

Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject to disciplinary action and possible expulsion from Angelo State University.

Plagiarism
Plagiarism is a serious topic covered in ASU’s Code of Conduct and Academic Integrity policy in the Student Handbook. Plagiarism is the action or practice of taking someone else’s work, idea, etc., and representing it as one’s own. Plagiarism is literary theft.

In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas, giving appropriate credit to the source both in the body of your paper and the reference list.

Papers are subject to be evaluated for originality. Resources to help you better understand this policy better are available at the ASU Writing Center.

Copyright Policy
Students officially enrolled in this course should make only one printed copy of the given articles and/or chapters. You are expressly prohibited from distributing or reproducing any portion of course readings in printed or electronic form without written permission from the copyright holders or publishers.