

This course introduces students to new areas of mathematics. Exposure to open problems in mathematics, and to the practice of modern research mathematics.
Winter 2020 we will focus on Mathematical Biology

Quick Reference for Math 407 Course Information

Class Times: Section 001: W 3:00 - 3:50 pm, *Location:* Samuelson (Sam) 117

Instructor	Email	Office	Phone	Pronouns
Dr. Brandy Wiegers	brandy.wiegers@cwu.edu	Samu 229C	509-963-2125	She/Her/Hers

The best way to contact the instructor is at Office Hours or via email.

Office Hours: Come and ask me your questions: 1:00PM – 1:50PM

Tue/Thurs Location: Sam 229C. Wed/Fri Location: Sam 138 (computer lab)

Additional meetings are available via appointment, visit the following website to schedule extra question/meeting times <https://drbrandymath.youcanbook.me>

Resources:

- Mathematical Models in Biology Edelstein-Keshet
- <https://www.math.uwaterloo.ca/~bingalls/MMSB/Notes.pdf>
- <http://www-m6.ma.tum.de/~kuttler/script1.pdf>

Course Requirements and Grading Standards

As this is a seminar course, your grade will be determined by your attendance (40%), weekly written assignments (40%), and an individual final project (20%).

- **Attendance:** every missed class day will result in a 4% deduction from your class grade.
- **Written Assignments:** After each class there will be written problems and readings related to the given topic. These should be attempted and brought to class. Late assignments will be accepted up to 2 weeks late with a 50% reduction. Additional reflection maybe posted and collected via Canvas to support your class.
- **Final Project:** details about the final project will be posted by end of February on Canvas. As a Senior level course the project will involve individual exploration, a 5 page written summary and in-class presentation

Final Grades:

The following table reflects the planned letter grade for the course structure.

Total Percentage	93-100	90-92	87-89	83-86	80-82	77-79	73-76	70-72	67-69	63-66	60-62	0-59
Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F

Remember, you will be successful in Central courses if you....

- **Are Self-Motivated & Work Hard:** Learning mathematics takes a lot of practice and work.
- **Look for alternate ways of solving the same problem.**
- **Participate actively in group-work and class discussions.**
- **Ask Questions.**
- **Believe in yourself and your ability to do math.**

Syllabus Changes: I reserve the right to change the policies contained in this syllabus as dictated by developments during the quarter.

University Policies

Counseling Services: Students are reminded that they have access to medical and counseling support through the CWU Student Medical and Counseling Clinic, <https://www.cwu.edu/medical-counseling/>. If you have concerns that you might be experiencing symptoms of anxiety or other mental health concerns it might be helpful to talk with a counselor, call the Counseling Clinic (509-963-1391).

Support Services/ Accommodations: Students who have special needs or disabilities that may affect their ability to access information and/or material presented in this course are encouraged to contact the office of Disability Support Services on campus (DS@cwu.edu - or- 963-2214 –or- visit their office in Hogue 126). Also, please let me know if you need me to accommodate for a disability in anyway, I am glad to do so! **Test scheduled through Testing Services must be scheduled 2 business days in advance.**

Religious Holidays: In compliance with RCW 28B.137.010, Central Washington University makes every effort to deal reasonably and fairly with students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Students must present written notice to their instructor within the first two weeks of class listing the specific dates on which accommodations are required. Contact the Dean of Student Success at (509) 963-1515 for further information or questions.

Expectations for Student Conduct: Students in this class are expected to interact with students and the professor professionally. Instances of disruptive conduct, obstructive conduct, or harassment (see Washington Administrative Code 106-125-020) will be referred to the Dean of Student Success.

Incompletes: The College Policy on Incompletes states that Incompletes are used when the student was not able to complete the course by the end of the term, but has satisfactorily completed a sufficient portion of it and can be expected to finish without having to re-enroll in it. In this course, students who have not completed substantial coursework should not assume that they will be “given” an incomplete at the end of the semester. If you have concerns about this you should talk to the course instructor and your academic advisor.

Important Dates:

Jan 14	Change of Schedule Period Ends (Add/Drop classes) <i>Drops completed prior to this date or by the close of business on this date will not appear on transcripts or have tuition assessed</i>
Jan 14	Deadline to declare audit & credit/no credit grading.
Jan 20	Martin Luther King, Jr. Holiday– No class will be held.
Feb 5	Deadline for 50% refund with complete withdrawal
Feb 17	President’s Day Holiday – No class will be held.
Feb 21	Uncontested withdrawal period deadline
Mar 13	Withdrawal from classes or university. Not permitted except for “serious and compelling reasons.”

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Professionalism Expectations

As a member of a peer learning community, a high degree of professionalism is necessary. I measure professionalism based on several aspects including your academic integrity and your support of the inclusion and diversity policies of CWU.

Please be aware of the following expectations.

Academic Integrity: While completing this course you must follow the CWU Student Code of Conduct, which is defined by Washington State, including *university policies* ([CWUP 5-90-040\(22\)](#), [CWUR 2-90-040\(22\)](#), and [WAC 106-125-020](#)) which address student conduct, cheating, plagiarism, and other academic expectations. Please be reminded that the Washington State Legislature defines Academic Dishonesty in all its forms including, but not limited to the following: Cheating on tests. Copying from another student's test paper. Using materials during a test not authorized by the person giving the test. Collaboration with any other person during a test without authority. Knowingly obtaining, using, buying, selling, transporting, or soliciting in whole or in part the contents of an unadministered test or information about an unadministered test. Bribing any other person to obtain an unadministered test or information about an unadministered test. Substitution for another student or permitting any other person to substitute for oneself to take a test. ``Plagiarism'' which shall mean the appropriation of any other person's work and the unacknowledged incorporation of that work in one's own work offered for credit. ``Collusion'' which shall mean the unauthorized collaboration with any other person in preparing work offered for credit. ***If there is any break in academic integrity CWU's policies and recommendations for academic misconduct will be followed, leading to disciplinary action up to and including failing the course.***

Inclusion and Diversity: CWU expects every member of the university community to contribute to an inclusive and respectful culture for all in its classrooms, work environments, and at campus events.

<https://www.k12.wa.us/policy-funding/equity-and-civil-rights/civil-rights-laws-and-regulation>

As a student in this course, you are expected to behave in a respectful manner in which you treat your professors, fellow students, and other people affiliated with your work at CWU with respect, regardless of their identity (including gender, race and color, religion and creed, national origin, sexual orientation, gender identify and gender expression, disability and use of assistive devices or a service animal, and veteran or military status). In turn, I strive to create a learning environment for my students that supports a diversity of thoughts, perspectives and experiences, and honors your identities. Thus...

- If you have a name and/or set of pronouns that differ from those that appear in your official CWU records, please let me know!
- If you feel like your performance in the class is being impacted by your experiences outside of class, please don't hesitate to come and talk with me. I want to be a resource for you. Remember that you can also submit anonymous feedback (which will lead to me making a general announcement to the class, if necessary to address your concerns). If you prefer to speak with someone outside of the course, the Chair of the Mathematics Department is an excellent resource.
- I (like many people) am still in the process of learning about diverse perspectives and identities. If something was said in class (by anyone) that made you feel uncomfortable, please talk to me about it. (Again, anonymous feedback is an option.)
- As a participant in course discussions, you should also strive to honor the diversity of your classmates.