

Course: MATH 4390/5390, Computer Aided Mathematics
Instructor: Dr. Peter W. White
Phone: 968-1982
Office Hours: TBA

Semester: Spring 2021
Office: Math 331
E-mail: white@tarleton.edu
Math Dept Phone: 968-9168

Instructor website: <https://faculty.tarleton.edu/white/>

Safety Measures

Tarleton State University has adopted policies and practices for the Spring 2021 term to limit transmission of the novel coronavirus. Students are required to observe the following practices while participating in face-to-face courses and course-related activities (office hours, moving between classes, study spaces, academic services, etc.):

- Self-monitoring – Students should follow CDC recommendations for self-monitoring. **Students who exhibit symptoms of COVID-19 (with or without fever) should participate in class remotely and should not participate in face-to-face instruction.** See <https://www.tarleton.edu/roadmap/personal-responsibilities/> for more information. Students who test positive for COVID-19 or experience symptoms consistent with COVID-19 are required to self-report to Tarleton State University via this [form](#).
- Face coverings – All students must properly wear face coverings in all public spaces on campus, including classrooms. If a student refuses to wear a face covering, the instructor will ask the student to leave and join the class remotely. Any student refusing to comply will be reported to the Dean of Students Administrative Office via the [Student Affairs Incident Reporting Form](#). Additionally, the faculty member may choose to teach that day's class remotely for all students.
- Physical Distancing – Physical distancing must be maintained between students, instructors, and others in course and course-related activities.
- Classroom Entrance and Exit – Students should leave classrooms promptly after class activities have concluded each day. Students should not congregate in hallways or other areas and should maintain a safe physical distance when waiting to enter classrooms and other instructional areas.

Personal Illness and Quarantine/Isolation: Students who are required to quarantine (see <https://www.tarleton.edu/roadmap/isolation-v-quarantine/>) must participate in course and course-related activities remotely and **must not attend face-to-face course activities**. Students in quarantine are expected to participate in courses and course activities/assignments unless they have symptoms too severe to participate. Students placed in isolation should contact the instructor about individual participation in relation to severity of illness. Students who test positive for COVID-19 or who are experiencing symptoms consistent with COVID-19 are required to self-report to the Dean of Students Administrative Office through the [COVID-19 Report Form](#). For any questions or concerns, please contact the Dean of Students Administrative Office at 254-968-9080.

Textbook: the instructor will provide class notes in Canvas and/or on the instructor's website. The class notes will be either PDF documents or *Mathematica* notebooks.

Course Content: In this class, we will learn how to use mathematical software packages (CAS) to model and solve problems from various mathematical disciplines. We will start with an overview of functions and graphs, and then cover how a CAS can be used to solve calculus, linear algebra and DE problems. We will then use a CAS to model and solve problems chosen from the areas of biology, economics, physics and statistics.

Grading Policy: The students will be given exercises at the end of each section to be completed using a CAS. Each exercise will be graded on a 0-100 point scale, based on completeness of solutions and style of presentation. Students enrolled in MATH 5390 will also be responsible for an independent project on an approved subject. Overall, the grading will be as follows:

Percent of total points possible	Course grade
90-100	A
80-89	B
70-79	C
60-69	D
0-59	F

Attendance Policy: Blended Hybrid-HyFlex courses are designed so that students can choose to attend courses in two modalities: face-to-face (with the potential for rotation to maintain a safe physical distance) or at the same time as the face-to-face class meetings but from a different location (remote synchronous-Zoom). Students **must** attend class in one of these two instructional modalities. Repeated absences may impact the student's ability to be successful in the class and may lead to failure to earn credit for the course. Attendance will be taken of the face-to-face students in case it is needed for contact tracing. Attendance will be recorded for synchronous participation via Zoom. Students in this course will be allowed three (3) unexcused absences. After that, each unexcused absence will deduct 1% from their total for the semester. The student is responsible for all material covered in class. The class sessions will be recorded and posted in Canvas. The student may not be allowed to turn in late work or make up assignments unless they have a verifiable university recognized absence.

Academic Honesty: Students are encouraged to work together and discuss the course material and assignments. However, the written work for the exercises must be the work of the individual student. **Plagiarism will not be tolerated.** No questions will be asked about who plagiarized who, all parties involved may receive zero credit for that exercise, may receive an F grade for the course, and/or may be recommended to the Dean of Students for expulsion from the university at the discretion of the instructor. **Do not copy others and do not allow others to copy off of your work!!!**

Services for Students with Disabilities: It is the policy of Tarleton State University to comply with the Americans with Disabilities Act (www.ada.gov) and other applicable laws. If you are a student with a disability seeking accommodations for this course, please contact the Center for Access and Academic Testing, at 254.968.9400 or caat@tarleton.edu. The office is located in Math 201. More information can be found at www.tarleton.edu/caat or in the University Catalog.

Disclaimer: Aside from university and departmental policy, all aspects of course policies are at the discretion of the instruction and subject to change.

Notes:

- In the event that the university is closed (due to extraordinary weather or other conditions) during a scheduled class time, all class activities and deadlines are postponed until the class meeting immediately following the date of closure.
- You are expected to present a TSU ID upon request.
- **All items contained in this syllabus are subject to change as the semester progresses. Students will be notified in advance of any changes.**