MATH 1191: Mathematical Modeling, Spring 2020

Contact Information
Instructor: Karl Havlak
Office: MCS 220A
Office Phone: (325) 486-5432
e-mail: Karl.Havlak@angelo.edu

Office Hours:
9:00 – 10:00 a.m., 2:00 – 3:00 p.m., MTWRF;
or by appointment

Textbook
No text required. Course materials will be provided.

Blackboard
This course has an associated Blackboard page where you will have access to grades, assignments, videos, handouts, and other course-related items.

Course Content
An introductory study of mathematical modeling to include discrete modeling, continuous modeling, and modeling using data.

Course Grade
The final average will be determined by your attendance, grades on weekly assignments (80%), and presentation grades (20%).

Homework Policy
Homework will be assigned after most class meetings. I will drop two homework grades at the end of the semester.

Presentations
You will be required to present at least two homework problem solutions in class. If you present more than two, only the two highest presentation grades will count in your final grade.

Exams
There will be no exams in this course.

Attendance
Attendance is mandatory. Each absence after the first absence will result in a 5 point reduction in your final grade.

Student Responsibilities
The student is solely responsible for:
- Completing each assignment by the specified due date.
- Obtaining assignments and other materials for classes from which they are absent.
- Utilizing, as needed, all available study-aid options (including meeting with the instructor, referring to outside texts, etc.) to resolve any questions that they might have regarding homework, course material, etc.
• Realizing from the beginning of the course the grade that they may need or want to graduate, maintain a scholarship, stay in athletics, etc. … and give as much effort as it takes to obtain this grade.

**Student Disability Services**

ASU 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, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the Student Disability Services website. The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dallas Swafford  
Director of Student Disability Services  
Office of Student Affairs  
325-942-2047  
dallas.swafford@angelo.edu

**Title IX at Angelo State University**

Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. Sex discrimination, sexual misconduct, public indecency, interpersonal violence, sexual assault, sexual exploitation, sexual harassment, and stalking are not tolerated at ASU. As a faculty member, I am a Responsible Employee meaning that I will report any allegations I am notified of to the Office of Title IX Compliance in order to connect students with resources and options in addressing the allegations reported. You are encouraged to report any incidents to ASU’s Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator. You may do so by contacting:

Michelle Boone, J.D.  
**Director of Title IX Compliance/Title IX Coordinator**  
Mayer Administration Building, Room 210  
325-942-2022  
michelle.boone@angelo.edu

You may also file a report online 24/7 at the [Title IX website](#).
If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.

The Office of Title IX Compliance also provides accommodations related to pregnancy (such as communicating with your professors regarding medically necessary absences, modifications required because of pregnancy, etc.). If you are pregnant and need assistance or accommodations, please contact the Office of Title IX Compliance utilizing the information above.

For more information about Title IX in general you may visit the ASU Title IX websiteiv.

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. The full details can be found in ASU Operating Policy OP 10.19 Observance of Religious Holy Daysv.

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 Proceduresvi for more information.

Student Conduct Policies

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 of disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the Statement of Academic Integrityvii

Plagiarism
Plagiarism is a serious topic covered in ASU’s Academic Integrity policy in the Student Handbook. Plagiarism is the action or practice of taking someone else’s work, idea, etc., and passing it off 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 via Turnitin. Resources to help you understand this policy better are available at the ASU Writing Centerviii.
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.

General Policies Related to this Course

- All students are required to follow the policies and procedures presented in these documents:
  - Angelo State University Student Handbook
  - Angelo State University Catalog

- If the university is closed for a scheduled class time, whatever was scheduled for that day and/or whatever was due that day will be scheduled and/or due on the next scheduled class time.

- All electronic correspondence will be sent to your ASU e-mail account unless other arrangements are made.

- Feel free to come by my office at any time for help. I will definitely be near my office during my office hours (or there will be a note telling you when I will be back). If my office hours are not convenient for you, meet with me to arrange for another time that is more convenient.

- Good luck. I sincerely hope you do well in this course, and I strongly encourage you to use me as a resource outside of class to help you succeed.

All items contained in this syllabus are subject to change as the semester progresses. Students will be notified in advance of any changes.

Anticipated Daily Schedule

The table that follows lists the expected section that will be discussed on the indicated date. Specific sections along with any handouts for those sections will be updated throughout the semester in Blackboard.

<table>
<thead>
<tr>
<th>Day</th>
<th>Activity</th>
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<tbody>
<tr>
<td>January 13</td>
<td>discrete models</td>
</tr>
<tr>
<td>January 20</td>
<td>discrete models</td>
</tr>
<tr>
<td>January 27</td>
<td>discrete models</td>
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<tr>
<td>February 3</td>
<td>discrete models</td>
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<tr>
<td>February 5</td>
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<td>February 10</td>
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<td>February 17</td>
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<td>February 24</td>
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<tr>
<td>March 2</td>
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<tr>
<td>March 16</td>
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<tr>
<td>March 23</td>
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<tr>
<td>March 30</td>
<td>working with data</td>
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<tr>
<td>April 6</td>
<td>continuous models</td>
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<tr>
<td>Day</td>
<td>Activity</td>
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<td>April 13</td>
<td>continuous models</td>
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<tr>
<td>April 20</td>
<td>continuous models</td>
</tr>
<tr>
<td>April 27</td>
<td>continuous models</td>
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1. Blackboard Link: [http://blackboard.angelo.edu](http://blackboard.angelo.edu)
2. Student Disability Services Link: [www.angelo.edu/ADA](http://www.angelo.edu/ADA)
3. ASU Title IX Incident Form: [http://www.angelo.edu/incident-form](http://www.angelo.edu/incident-form)
4. ASU Title IX Website: [http://www.angelo.edu/title-ix](http://www.angelo.edu/title-ix)
6. Grading Procedures: [http://www.angelo.edu/content/files/14197-op-1011-grading-procedures](http://www.angelo.edu/content/files/14197-op-1011-grading-procedures)
8. ASU Writing Center: [http://www.angelo.edu/dept/writing_center/academic_honesty.php](http://www.angelo.edu/dept/writing_center/academic_honesty.php)