Syllabus: Math 6300  
Survey of the History of Mathematics  
Fall, 2017

Instructor Information
Dr. Andrew J. Siefker
Office: MCS 219B
Phone: 486 - 5440 (office)
Email: andrew.siefker@angelo.edu  
(Every attempt will be made to answer emails within 48 hours of reading them.)

Office Hours: N/A

Major Course Requirements
Prereqs:  Graduate status.
Grading:  
• Chapter Summary Essays …………… 30%; Due every Thursday by 8 a.m.
• Discussion Board Participation ….. 20%  First post due every Friday by 8 a.m.
  Last post due every Sunday by 8 p.m.
• Lesson Plans ……………………… 20%  Due every Sunday by Midnight.
• 3 Lesson Presentations ………….. 20%  Due as scheduled.
• Participation in presentations …….. N/A
• Time-line …………………………… 10%  Due every Sunday by Midnight.

Every attempt will be made to complete the grading of assignments within 1 week of the assignment deadline.

Note: I reserve the right to adjust the grading scheme and grading scale for an individual or the class as warranted. Please note that ASU’s interpretation of federal law (Buckley amendment) prohibits me from relaying your grades via phone or email.

Attendance:
This course will meet synchronously during presentations using the Blackboard tool Collaborate. Attendance for presentations will be taken and will affect your grade. You may miss one online presentation (barring emergencies). After one absence, your final grade will be lower by 10% per absence.

Disclaimer
This syllabus is current and accurate as of its posting date, but will not be updated. For the most complete and up-to-date course information, contact the instructor. Also, the subject matter schedule listed below is tentative, and subject to change and adaptation. For current, updated information about course topics, contact the instructor.
**Required Equipment:**

ability to broadcast and receive live video. Many computers have built-in cameras for video conferencing; however, if your computer is not equipped with one, you will need to purchase an external camera.

**Course Policies:**

**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.

The Office of Student Affairs is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability, and it is the student’s responsibility to initiate such a request by contacting:

Ms. Dallas A. Swafford, Director of Student Disability Services
325-942-2047
dallas.swafford@angelo.edu
Houston Harte University Center

**Title IX**

Angelo State University is committed to the safety and security of all students. If you or someone you know experience sexual harassment, sexual assault, domestic or dating violence, stalking, or discrimination, you may contact ASU’s Title IX Coordinator:

Michelle Nicole Boone, Director of Title IX Compliance
325-486-6357
michelle.boone@angelo.edu
Houston Harte University Center

**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.

**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.

**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 Integrity.
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 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.

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

Required Texts or Readings:

*Mathematics; The Loss of Certainty*, by Morris Kline, 2011 ed. (if possible)

Student Learning Outcomes

Students will:

1. Demonstrate the significance of the major problems and seminal events that shaped the development of mathematics from the Ancient Greeks to modern day.
2. Identify in time the major people responsible for the development of mathematics and their role in the resolution to the major problems.
3. Create instructional materials that facilitate the understanding and application of mathematics by students.
## Unit Objectives

Unit objectives align with the course’s Student Learning Outcomes.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Objectives</th>
<th>Weeks</th>
<th>Chapters</th>
</tr>
</thead>
</table>
| 1. Mathematics Freely applied to Nature           | 1. Summarize, analyze, and critique mathematical developments from ancient Greeks to 1800 through essays and discussion board items.  
2. Identify through essays and class discussions the major people responsible for the development of mathematics from the ancient Greeks to 1800.  
3. Create a timeline showing people and significant events from the ancient Greeks to 1800. | 1 – 3 | 1 – 3    |
| 2. Cracks in the Mathematical Foundation          | 1. Summarize, analyze, and critique mathematical developments from the creation of non-Euclidean geometries to present through essays and discussion board items.  
2. Identify through essays and class discussions the major people responsible for the development of mathematics from the creation of non-Euclidean geometries to present.  
3. Create a timeline showing people and significant events from the creation of non-Euclidean geometries to present. | 4 – 9 | 4 – 9    |
| 3. Attempts and Failures to Repair the Foundations| 1. Summarize, analyze, and critique the attempts to repair the foundations of math from the creation of non-Euclidean geometries to present through essays and discussion board items.  
2. Identify through essays and class discussions the major people responsible for the attempts to repair the foundations of math from the creation of non-Euclidean geometries to present.  
3. Create a timeline showing people and significant events associated with attempts to repair the foundations of math from the creation of non-Euclidean geometries to present. | 10 – 13 | 10 – 13 |
2. Identify through essays and class discussions the major people responsible for the development of mathematics from 1928 – present.  
3. Create a timeline showing people and significant events associated with attempts to repair the foundations of math from 1928 – present. | 14 – 15 | 14 – 15  |
Subject Matter Schedule

The subject matter schedule listed below is tentative, and subject to change and adaptation. For current, updated information about course topics, contact the instructor.

Week Reading Assignments

1. Kline Chapter 1
2. Kline Chapter 2
3. Kline Chapter 3
4. Kline Chapter 4
5. Kline Chapter 5
6. Kline Chapter 6
7. Kline Chapter 7
8. Kline Chapter 8
9. Kline Chapter 9
10. Kline Chapter 10
11. Kline Chapter 11
12. Kline Chapter 12
13. Kline Chapter 13
14. Kline Chapter 14
15. Kline Chapter 15

See the weekly assignment posts on Blackboard to find the concomitant assignments.