Seminar in Mathematics

Spring 2020

Course no. 4181.010
Instructor Trey Smith
Time W 12:00-12:50
Location MCS 210
Office MCS 219A
Hours MTWRF: 11:00-12:00, 2:00-3:00
Others by Appointment
Phone (325) 486-5441
Email trey.smith@angelo.edu
Fax (325) 942.2503

Grading You will be graded on three things: your presentation, your response and your attendance. The percentages are as follows:

- 50% Attendance
- 30% Presentation
- 20% Response

You will receive a grade of F if you do not give a presentation, or you fail to give a response.

Attendance You are expected to be present for every class. For every missed day (starting with the second missed day), 10 points will be deducted from your attendance grade.

Presentation You will be assigned a mentor and a presentation date the first week of class. You are expected to visit with the mentor by Friday, January 24th. The following Wednesday, you will provide a presentation topic that has been approved by your mentor.

The presentation must be between 15 and 25 minutes long. There are basically four different presentation grades you may receive:

- 100% The process was followed explicitly, the presentation fit into the time frame, some technology (preferably Beamer) was effectively used, and there was obvious preparation involved.

- 70% The process was not explicitly followed or there was no technology used, or there was no obvious preparation.
30% There were multiple issues or the talk was simply too short.

Response
You will be assigned a talk to which you will respond during the first week of class. The response must be one to two pages, single spaced with some formatted mathematics. Your grade will be determined based on how well you follow the directions above, and on style and grammatical accuracy. A rubric which will be used for assessment purposes is available in Blackboard.

Course Outline
The following is a tentative outline of the material to be covered. I reserve the right to change the material and/or sequence.

Topics by Week
1) Mentor, Presentation Date, and Response Assignment
2) Faculty Presentation and Discussion
3) Faculty Presentation and Discussion
4) Student Presentation(s)
5) Student Presentation(s)
6) Student Presentation(s)
7) Student Presentation(s)
8) Student Presentation(s)
9) Student Presentation(s)
10) Student Presentation(s)
11) Student Presentation(s)
12) Student Presentation(s)
13) Student Presentation(s)
14) Student Presentation(s)
15) Student Presentation(s) (if necessary)
16) There is no Final Exam for this course

General University 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:

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. 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. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance. This is done in order to connect students with resources and options in addressing the allegations reported. As a student, 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 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 [www.angelo.edu/incident-form](http://www.angelo.edu/incident-form).

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 www.angelo.edu/title-ix.

**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. (http://www.angelo.edu/opmanual/ -- OP 10.19)

**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.

**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 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
Student Learning Outcomes

1. The students will demonstrate factual knowledge. Students will interpret and use the vocabulary, symbols, and basic concepts modeled for them in a variety of mathematical presentations.

2. The students will demonstrate an understanding of fundamental principles of mathematics and mathematical presentations. Students will reflect on and discuss the mathematical ideas developed in the presentations, as well as the presentation techniques themselves.

3. The students will apply the course material. Students will use the concepts and techniques learned in this class to deepen their understanding and appreciation of mathematics, and also to develop and improve their ability to research and deliver effective mathematical presentations.

4. The students will develop specific skills, competencies, and points of view needed by mathematicians. Students will develop insight into a variety of mathematical topics not typically covered in their classes. Students will also observe and model the skills and competencies necessary to make an effective mathematical presentation.

Course Content

1. A variety of mathematical topics will be presented by both faculty and students. The topics will typically be either topics not discussed in mathematics classes, or ideas presented in a manner distinct from that seen in the mathematics curriculum.

2. Students will study and discuss identification of mathematical topics, research of mathematical ideas, and presentation of mathematical results.

3. Students will research, develop, and present mathematical talks.