Math 426.001 – History of Mathematics
MWF 11:00-11:50 a.m.  Binnion 330
COURSE SYLLABUS: Fall 2015

Instructor: Stuart Anderson
Office Location: Binnion-321
Office Hours:   MW:   3:00-4:30 p.m.
               TR:   11:00 – Noon, 3:00 – 4:00 p.m.
               Others, by appointment.
If you need to see me, do not hesitate to schedule an appointment. If you are having difficulty in the
course, please seek help early.  I would be glad to help you any time I am available. Occasionally, I will
be out of my office for meetings or other obligations during scheduled office hours.  I will try to let you
know of these times early or will leave a note of explanation.  Otherwise, you are welcome in my office.
Office Phone: 903-886-5957
Office Fax: 903-886-5945
University Email Address: stuart.anderson@tamuc.edu

COURSE INFORMATION

Textbook:
covered. Your reading of the text topics should be at least one day ahead of the related lectures.

Course Description

Selected topics in the history of mathematics; the growth of algebra, trigonometry, geometry, and
the calculus; the contribution of different cultures; selected biographies of mathematicians.
Prerequisites: Math 192 or consent of Instructor.

Student Learning Outcomes

A student who passes this course will demonstrate through essays and solving problems an
understanding of the historical development of mathematics, its relation to other sciences, and
the progress of civilization. The student will have demonstrated problem solving ability that
includes but is not limited to algebra, geometry, calculus and number theory. The student will demonstrate an awareness of the importance of notation and the relevance of mathematics to general education.

**CORE OBJECTIVES:**
1) *Students will be able to analyze, evaluate, or solve problems when given a set of circumstances or data.* This common core objective will be assessed in the tests and final exam.

2) *In written, oral, and/or visual communication, A&M-Commerce students will communicate in a manner appropriate to audience and occasion, with an evident message and organizational structure.* This common core objective will be assessed using class activities with class discussion of derivatives, integrals, and application problems.

3) *Students will be able understand and utilize mathematical functions and empirical principles and processes.* This common core objective will be assessed using class activities, homework problems, tests and a final exam.

**GRADING**

**Tests:** There will be three tests. Each test will be announced at least one week before it is given. Each will consist of problems, short answer questions (true-false, matching, fill-in-the-blank, etc.), and essays. These tests will count approximately 65% of your final grade.

**Homework:** Homework will be assigned on many days. It is expected that you solve all assigned problems and complete all writing assignments. There may occasionally be a quiz given which would count as a homework assignment. There may also be some assignments from the internet links. The homework collected may count a small portion in your grade.

**Final:** The final exam will be given on Wednesday, December 16, 2015 at 10:30 a.m. The final exam will count at least 30% of your final grade.

**Grading Scale:**
- A: 90-100
- B: 80-89
- C: 70-79
- D: 60-69
- F: Below 60
Course Specific Procedures

It is expected that you will be regular and punctual in attendance. Attendance will be noted daily.

No late tests will be given. If you miss a test, the final will be used to replace that score. No late homework will be graded and daily quizzes will not be repeated if missed. However, a percentage of the homework and quiz grades will be dropped to cover days when an absence is unavoidable.

Please make certain that any cell phone in your possession never rings in class and is never used during class; do not use any electronic device (other than a stand-alone scientific calculator) during any test; do not leave class early unless prior arrangements have been made with the instructor; do not excuse yourself from class and then return. Failure to comply with these policies can result in a lowering of your grade or expulsion from the course.

Cheating of any kind will result in an F in the course.

It is my hope that no one will want to drop this course. Please keep in mind that the total number of courses dropped for academic reasons during undergraduate studies is limited to six. The last day to drop the course is Thursday, November 5, 2015.

University Specific Procedures

ADA Statement

Students with Disabilities
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services
Texas A&M University-Commerce
Gee Library- Room 132
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
StudentDisabilityServices@tamuc.edu

Student Conduct
All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. (See Code of Student Conduct from Student Guide Handbook).

**COURSE OUTLINE / CALENDAR**

Week 1 – Chapter 1, Chapter 2: 2.1-2.4  
Week 2 – Chapter 2: 2.5-2.6  
Week 3 – Chapter 3: 3.1-3.4  
Week 4 – Chapter 3: 3.5, Chapter 4.1-4.2  
Week 5 – Chapter 4: 4.3  
Test 1 – September 26.  
Week 6 – Chapter 4: 4.4-4.5  
Week 7 – Chapter 5: 5.1-5.3  
Week 8 – Chapter 5: 5.4-5.5, Chapter 6: 6.1  
Week 9 – Chapter 6: 6.2-6.4  
Test 2 – October 27.  
Week 10 – Chapter 7: 7.1-7.3  
Week 11 – Chapter 8: 8.1-8.3  
Week 12 – Chapter 8: 8.4, Chapter 10: 10.1-10.2  
Week 13 – Chapter 10: 10.3, Chapter 11: 11.1  
Week 14 – Chapter 11: 11.2  
Test 3 – November 26.  
Week 15 – Chapter 12: 12.1-12.2, Chapter 13: 13.3  
Final Exam – December 16. (It is possible that some revision of the above dates and material may occur as the semester progresses.)