



Math 426.001 – History of Mathematics

MWF 11:00-11:50 a.m. Binnion 302

COURSE SYLLABUS: Spring 2019

Instructor: Stuart Anderson

Office Location: Binnion-321

Office Hours: MTWR: 4:00-5:00 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.

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University Email Address: stuart.anderson@tamuc.edu

COURSE INFORMATION

Textbook:

THE HISTORY OF MATHEMATICS, an Introduction, 7th Edition, by David M. Burton. ISBN978-0-07-338315-6. The entire text, except for Chapter 9 and selected parts of Chapters 11, 12 and 13, will be 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 2414 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 two practice 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 practice tests can count as extra credit toward 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. In order to do well on the practice tests and final, you need to do the homework in a timely and consistent manner. Any homework collected may be used as extra credit toward your final grade (but no more than 10%).

Attendance: It is expected that you will be regular and punctual in attendance. Attendance will be noted daily and will be considered in your final grade.

Final: The final exam will be given on Wednesday, May 8, 2019 from 10:30 a.m. to 12:30 p.m. The final exam will count 100% of your final grade.

Grading Scale:

- A: 90-100
- B: 80-89
- C: 70-79
- D: 60-69
- F: Below 60

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures

No late practice tests will be given. If you miss a practice test, you will receive a copy of the one given to help you prepare for the final. 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. Please check the University Calendar for the last day to drop.

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 162
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
StudentDisabilityServices@tamuc.edu

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations. For a list of locations, please refer to

(<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>) and/or consult your event organizer). Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

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*).

TECHNOLOGY REQUIREMENTS

LMS

All course sections offered by Texas A&M University-Commerce have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm

YouSeeU Virtual Classroom Requirements:

<https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements>

ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@tamuc.edu.

Note: Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC campus open computer lab, etc.

COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your Instructor.

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

<https://community.brightspace.com/support/s/contactsupport>

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 – October 3.

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

Week 10 – Chapter 7: 7.1-7.3

Week 11 – Chapter 8: 8.1-8.3

Test 2 – November 7.

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

Week 15 – Chapter 12: 12.1-12.2, Chapter 13: 13.3

Final Exam – December 12. (It is possible that some revision of the above dates and material may occur as the semester progresses.)