

University of Alabama at Birmingham
Syllabus
MA311 and MA501 History of Mathematics
Fall Semester 2022

Instructor: Dr. Jeanne S. Hutchison, UH 4053, (205) 934-2154,

Office Hours: Tues/Thurs 1:30 – 2:30 PM in UH 4053. Other times by appointment or by Zoom on request.

MA311 Course Description: (3 semester hours)

The course will study the development of mathematical principles and ideas from a historical viewpoint, and their cultural, educational, and scientific significance; from their earliest beginnings through Newton and Leibnitz. The focus will be on individual mathematicians and the contributions they have made, including the historical background for their development.

MA311 Course Description: (4 semester hours)

When taken as a four-hour course History of Mathematics follows the same general syllabus as the three-hour version with the following additional requirement: each student will be assigned additional projects.

MA501 Course Description: (3 semester hours)

When offered as a graduate-level course, History of Mathematics follows the same general syllabus as MA 311 with the following additional requirement: each graduate student will be assigned additional problems/projects.

Prerequisites:

MA311/501 has the prerequisite MA125 (Calculus I) grade of C or better.

Required Reading:

Burton, David M., *The History of Mathematics*, 7th ed., McGraw-Hill, New York, 2011.

Course Objective:

Students will acquire an understanding of the scope and interrelationship of mathematics development from the earliest documentation through the Age of Newton (1642-1727). Students will learn to see many mathematicians as complex individuals.

UAB Policies and Resources:

Drop/Add and Course Withdrawal

- Drop/Add: Deadlines for adding, dropping, or withdrawing from a course and for paying tuition are published in the Academic Calendar available online. Review the Institutional Refund Policy for information on refunds for dropped courses.

- **Withdrawal:** To avoid academic penalty, a student must withdraw from a course by the withdrawal deadline shown in the academic calendar and receive a grade of W (withdrawn). Failure to attend class does not constitute a formal drop or withdrawal.

Misconduct

- Academic Honor Code

<https://www.uab.edu/students/one-stop/policies/academic-honor-code>

- Non-Academic Student Code of Conduct

<https://www.uab.edu/students/conduct/>

DSS Accessibility Statement

Accessible Learning: UAB is committed to providing an accessible learning experience for all students. If you are a student with a disability that qualifies under Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act, and you require accommodations, please contact Disability Support Services for information on accommodations registration and procedures. Requests for reasonable accommodations involve an interactive process and consist of a collaborative effort among the student, DSS, faculty and staff.

If you are registered with Disability Support Services, please contact DSS to discuss accommodations that may be necessary in this course. If you have a disability but have not contacted Disability Support Services, please call (205) 934-4205, visit their website or their office located in Hill Student Center Suite 409. You can also contact them by email at dss@uab.edu.

Title IX Statement

The University of Alabama at Birmingham is committed to providing an environment that is free from sexual misconduct, which includes gender-based assault, harassment, exploitation, dating and domestic violence, stalking, as well as discrimination based on sex, sexual orientation, gender identity, and gender expression. If you have experienced any of the aforementioned conduct we encourage you to report the incident. UAB provides several avenues for reporting. For more information about Title IX, policy, reporting, protections, resources and supports, please visit UAB Title IX webpage for UAB’s Title IX, UAB’s Equal Opportunity, Anti-Harassment, Duty to Report, and Non-Retaliation policies.

Assessment and Grading:

Student achievement on the items assessed will determine the final course grade. Course letter grades are assigned traditionally :A (90-100); B (80-89), C (70-79), D (60-69), F (Below 60).

	<u>Undergraduate 3-hr Course</u>	<u>Graduate / 4-hr Course</u>
Mid-term Test 1	25%	20%
Midterm Test 2	25%	20%
Reading Quizzes	25%	20%

Exercise Grade	25%	20%
Extra Projects & Problems	100%	10%
<u>Total</u>		100%

Typical Exercise Problems:

Each reading assignment in the syllabus is associated with a set of typical exercise problems. Some of the homework exercises will come from this list, or at least resemble them strongly. Some of the test problems will come from this list. A few problems will be essay questions that require short answers or computations that require arithmetical answers.

Mid-Term Test and Final Exam/Assignment:

Mid-term test dates: 10/06/2022 & 11/17/2022
 Final exam date: 12/08/2022

Attendance:

This class meets for 14 class sessions, two of which have half the time devoted to a mid-term test. There is an additional project for the final exam. Any missed class is equivalent to missing one entire week of a normal 3-hour course. Attendance is therefore important. I consider it very important that students be on time and do not leave the class until the end of the class period.

Additional Information:

Hand-held calculators may be used throughout the course. Newton journals should be written in a Word Document or something similar.

Health, Safety, and Services

UAB is very concerned for your continued health and safety. Please consult the Student section of UAB United for up-to-date guidance, because the following information is subject to change as circumstances require.

We strongly urge you to be fully vaccinated. Here is information on the safety of vaccines and on how to get vaccinated at UAB. .

Mask-wearing has proven to be one of the most successful mitigation strategies used to combat spread of the various variants of the COVID-19 virus. UAB is currently mask-optional for Fall, 2022.

Know the resources available to you to be successful:

- Student Assistance & Support provides individualized assistance to promote student safety and well-being, collaboration and resilience, personal accountability, and self-advocacy. The Care Team consults and collaborates with campus partners to balance the needs of individual students with those of the overall campus community. The UAB Care Team helps find solutions for students experiencing academic, social and crisis situations including mental health concerns.
- Disability Support Services assists students with in reaching accommodations for their educational experiences at UAB that ensure that they have equal access to programs, services, and activities at UAB.
- The Vulcan Materials Academic Success Center provides tutoring, supplemental instruction, and other services that encourage goal achievement and degree completion.
- UAB Student Health Services delivers comprehensive, high quality, confidential, primary healthcare to students. Student Health provides testing services and vaccination clinics.
- Student Counseling Services offers students a safe place to discuss and resolve issues that interfere with personal and academic goals. UAB has created a new app (available in the App Store and Google Play) called B Well, that is designed to easily access resources on mobile devices and build a self-care plan.
- eLearning and Professional Studies provides numerous academic technologies and learning resources for students whose learning may be affected by COVID.

8/21/2022