

Syllabus for Math 4850-5850, section 001

Lecturer: Dr. Andrew J. Hetzel

Lecture Time and Location: MWF 2:30 pm – 3:25 pm, Bruner 112

Office Hours: MTWRF noon – 2 pm

Appointments welcomed

Office Location: Bruner 109

Contact Information: *e-mail*: ahetzel@tntech.edu, *phone*: 372-3581

Comprehensive Final Exam Time: Thursday, December 17, 1:00 pm – 3:00 pm

Textbook

We will be using *Ideals, Varieties, and Algorithms: An Introduction to Computational Algebraic Geometry and Commutative Algebra*, third edition by Cox, Little, and O’Shea.

Prerequisites and Course Objectives

Prerequisite: "C" or better in MATH 2010 and "C" or better in MATH 3400.

Objectives: To introduce students to the area of algebraic geometry. After finishing this course, students are expected to know the importance of the key definitions and results in the subject and to have developed the ability to use these definitions and results to correctly answer standard questions in the subject.

We will cover selected topics from chapters 1—4 in the textbook. Please see <http://math.tntech.edu/PDF/4850-5850.pdf> for a complete list of the topics that will be addressed in this class.

Calculator Requirement

You may find a calculator helpful for basic arithmetical operations that will be required of you on homework, quizzes, and tests.

Homework, Tests, and MAPLE Assignments

Homework will generally be assigned each class session.

There will be 3 regular tests during the semester and a comprehensive final.

There will be 2 MAPLE assignments.

Graduate students: Be advised that in order to receive credit for MATH 5850, you will be required to work more challenging test problems than the test problems of a student who intends to receive credit for MATH 4850.

Make-up exams will be given only for excused absences and will be handled on a case-by-case basis. If a student does not get his or her questions answered during class, it is expected that the student will consult with me during my office hours before the corresponding test.

Students with a disability requiring accommodations should contact the Office of Disability Services (ODS). An Accommodation Request (AR) should be completed as soon as possible, preferably by the end of the first week of the course. The ODS is located in the Roaden University Center, Room 112; phone 372-6119.

Grading

The 3 regular tests will cumulatively be worth 45% of one's grade in the course, the comprehensive final will be worth 20%, the homework will cumulatively be worth 25%, and the MAPLE assignments will cumulatively be worth 10%. The grading scale will be the standard decade system.

Attendance

It is my discretion on what constitutes an excused absence. All excused absences require documentation. However, please be aware of your privacy rights.

I reserve the right to create policies at any point that preserve the integrity of the educational process for each student in the class.