Instructor: Dr. Thomas Polstra

Office: JWB 130

Email: polstra@math.utah.edu

Office Hours: Thursday 3:30-4:30 and by appointment.

Class meeting time: Tuesday and Thursday 2:00-3:20 JWB 308.

Textbooks: Polynomials by Prasolov and Algebraic Curves by Fulton.

In-class Expectations:

1. You will be on time to class and ready to begin at 2:00.
2. All cell phones will be out of sight and silenced. No texting (reading or writing) in class.

Course Objectives: We will cover various aspects of the analytic and algebraic theory of polynomials.

Quizzes: Some classes I will assign problems. The problems are not to be turned in, but are meant to be used as preparation for the quizzes. Dates of quizzes will be announced in advance by at least two class periods. Your two lowest quiz grades will be dropped at the end of the semester. There will be no make-up quizzes given for any reason, including unavoidable emergency situations.

Projects: An important part of this course will be projects. Each student will complete at least three projects throughout the semester. Each student will be assigned projects unique to their abilities and interests. A typical project will require a presentation of a theorem and applications of that theorem. Presentation can be done orally in class or can be written. If projects are written then the project will be written using Latex.

Grading:

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<th>Percentage of Grade</th>
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<tr>
<td>Quizzes</td>
<td>40%</td>
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<tr>
<td>Projects</td>
<td>60%</td>
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**Academic Honesty:** Academic integrity is fundamental to the activities and principles of a university. All members of the academic community must be confident that each person’s work has been responsibly and honorably acquired, developed, and presented. Any effort to gain an advantage not given to all students is dishonest whether or not the effort is successful. The academic community regards breaches of the academic integrity rules as extremely serious matters. Sanctions for such a breach may include academic sanctions from the instructor, including failing the course for any violation, to disciplinary sanctions ranging from probation to expulsion. When in doubt about plagiarism, paraphrasing, quoting, collaboration, or any other form of cheating, consult the course instructor.

**Students with Disabilities:** The American with Disabilities Act requires that reasonable accommodations be provided for students with physical, sensory, cognitive, systemic, learning, and psychiatric disabilities. Please contact me at the beginning of the semester to discuss any such accommodations for the course.

**Safety:** The University of Utah values the safety of all campus community members. To report suspicious activity or to request a courtesy escort, call campus police at 801-585-COPS (801-585-2677). You will receive important emergency alerts and safety messages regarding campus safety via text message. For more information regarding safety and to view available training resources, including helpful videos, visit safeu.utah.edu.