
COURSE INFORMATION
MATH 702 (Algebra II) – Winter 2018

I. Course Objectives. Math 702 is a second graduate course in algebra. Our goal in this course is to learn the algebra related to algebraic geometry. Some specific topics that we will cover:

1. Gröbner Bases
2. Nullstellenstaz
3. Primary decomposition of ideals
4. Affine and projective spaces
5. Bezout's Theorem

The prerequisites for this course are Math 701 (or permission of the instructor).

II. Administrative Details.

Time	Class: Monday and Thursday 9:30-11:00
Place	Class: Hamilton Hall 410
Instructor	Adam Van Tuyl Office: Hamilton Hall 419 Phone: x27016 Office Hours: Drop By! Email: vantuyl@math.mcmaster.ca
Class Materials	<i>Introduction to Algebraic Geometry</i> by Brendan Hassett. Note that for some of the topics, I may use different source material. I will let you know what books/papers I'm following.

The best way to contact me is via email. I have office hours, but you can drop by at anytime.

III. Course Assessment. The final grade is composed of three components:

- Presentations (1 or 2) = 10%
- Homework assignments (5 or 6) = 70%
- Final Examination (take home) = 20%

Assignments will be given out roughly biweekly.

Attendance. Although attendance is not mandatory, I would appreciate the fact that you show up on time if you do decide to come to class. I highly recommend that you do come to class. Some of the topics can be quite complicated.

IV. Important Dates.

- Jan. 4, 2018 - Second semester begins
- Feb 19-23, 2018 - Midterm Break (No classes)
- April 9, 2018 - Second semester ends
- April 11-26, 2018 - Final Exams

OFFICIAL McMASTER POLICIES

1. Policy on Academic Ethics. You are expected to exhibit honesty and use ethical behavior in all aspects of the learning process. Academic credentials you earn are rooted in principles of honesty and academic integrity.

Academic dishonesty is to knowingly act or fail to act in a way that results or could result in unearned academic credit or advantage. This behavior can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: “Grade of F assigned for academic dishonesty”), and/or suspension or expulsion from the university.

It is your responsibility to understand what constitutes academic dishonesty. For information on the various types of academic dishonesty please refer to the Academic Integrity Policy, located at:

<http://www.mcmaster.ca/academicintegrity/>

The following illustrates only three forms of academic dishonesty: (1) plagiarism, e.g. the submission of work that is not one’s own or for which other credit has been obtained. (2) improper collaboration in group work, and (3) copying or using unauthorized aids in tests and examinations.

2. Student Accessibility Services. Students who require academic accommodation must contact Student Accessibility Services (SAS) to make arrangements with a Program Coordinator. Academic accommodations must be arranged for each term of study. Student Accessibility Services can be contacted by phone 905-525-9140 ext. 28652 or e-mail sas@mcmaster.ca. For further information, consult McMaster Universitys Policy for Academic Accommodation of Students with Disabilities.

3. Important Message. The instructor and university reserve the right to modify elements of the course during the term. The university may change the dates and deadlines for any or all courses in extreme circumstances. If either type of modification becomes necessary, reasonable notice and communication with the students will be given with explanation and the opportunity to comment on changes. It is the responsibility of the student to check their McMaster email and course websites weekly during the term and to note any changes.