MATH 724, Algebraic Geometry, 3 credits, Spring 2012
MWF 12:00-12:50 PM, Minard Hall 342

INSTRUCTOR: Sean Sather-Wagstaff
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OFFICE: Minard Hall 428E
PHONE: 231-8105
OFFICE HOURS: MWF 9:00–9:50, or by appointment

PREREQUISITE: MATH 720

USEFUL WEBPAGES:
Course webpage: http://www.ndsu.edu/pubweb/~ssatherw/sp12/724/
Instructor webpage: http://www.ndsu.edu/pubweb/~ssatherw/
Anonymous evaluation form: http://www.ndsu.edu/pubweb/~ssatherw/ssw-eval.html
Math department webpage: http://math.ndsu.nodak.edu/
NDSU webpage: http://www.ndsu.edu
NDSU blackboard site: https://bb.ndsu.nodak.edu/
NDSU webpage on academic honesty: http://www.ndsu.edu/academichonesty/

TEXT: There is no required text for this course. I am hoping to find a volunteer to type up notes
as we go along, but I am not planning to do so myself. The course will be based on a hybrid of
Aaron Bertram’s notes http://www.math.utah.edu/~bertram/courses/aiggeo/ and Chapter 1 of
“Algebraic Geometry” by R. Hartshorne.

COURSE DESCRIPTION: An introduction to algebraic geometry. Topics will include affine space,
projective space, affine varieties, projective varieties.

COURSE GRADES: Student grades are based on homework assignments, attendance, and participa-
tion. Weights are summarized in the following table along with grade ranges.

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<thead>
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<tbody>
<tr>
<td>Homework</td>
<td>90%</td>
<td></td>
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<tr>
<td>Attendance</td>
<td></td>
<td>10%</td>
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</tbody>
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A 85–100%
B 75–84.9%
C 60–74.9%
D 50–59.9%
F 0–49.9%

I will update your grades throughout the semester at the NDSU Blackboard site.

HOMEWORK: I will assign homework every other week. Exercises will be assigned in class on Wednes-
days, and solutions will be due two weeks later. Assignments will also be listed on the course webpage.
Each section of homework will be worth the same amount. Late homework will only be accepted under
extreme circumstances. If you have a conflict with any of the homework due dates, make alternative
arrangements with me beforehand.

Students are encouraged to work on assignments in small groups, but each member of the class is
required to turn in a neatly written, organized set of solutions. Students will receive no credit for
solutions with no work or justification. I reserve the right to deduct points for messy papers. You
may even consider using L\LaTeX to typeset your solutions.

The student who agrees to typeset the lecture notes will not be required to submit homework exercises.
Instead, this student will be required to submit updates to the lecture notes on days when homework
exercises are due.

ATTENDANCE: While attendance is not explicitly required, it is worth 10% of your grade. I will
take attendance each class period. Officially excused absences will not be counted against you, but
you must document such situations with me personally.
COURSE NOTES: Assuming that someone volunteers to typeset the lecture notes, I will post updates online as they come available. I will give extra credit to people who find typos in the notes; credit will be given to the first person who tells me about a given typo.

TENTATIVE SCHEDULE:

- No class meeting: Fri 13 Jan
- Martin Luther King Day holiday: Mon 16 Jan
- President’s Day holiday: Mon 20 Feb
- Spring Break: Mon 12 Mar to Fri 16 Mar
- No class meeting (KU AMS): Fri 30 Mar
- Last day to Drop Classes (W): Thu 05 Apr
- Holiday/Recess: Fri 06 Apr and Mon 09 Apr
- Classes end: Fri 04 May
- Final Exam (possible class meeting): Wed 09 May, 10:30–12:30 PM

ANNOUNCEMENTS: Periodically, I will send course announcements to your ndsu.edu email account. It is your responsibility to check this email account regularly.

INSTRUCTOR FEEDBACK: At the course webpage, there is a link to an anonymous evaluation form where students can submit comments or suggestions for me at any time during the semester.

ADA STATEMENT: The Americans with Disabilities Act requires that reasonable accommodations be provided for students with physical or cognitive disabilities in order to ensure their equal access to course content. If you have a documented disability and require accommodations, please let your instructor know as soon as possible. For more information, please contact Student Disability Services at 231-7671 or go to http://www.ndsu.edu/counseling/disability.shtml.

ACADEMIC HONESTY: The academic community is operated on the basis of honesty, integrity, and fair play. NDSU Policy 335: Code of Academic Responsibility and Conduct applies to cases in which cheating, plagiarism, or other academic misconduct have occurred in an instructional context. Students found guilty of academic misconduct are subject to penalties, up to and possibly including suspension and/or expulsion. Student academic misconduct records are maintained by the Office of Registration and Records. Informational resources about academic honesty for students and instructional staff members can be found at http://www.ndsu.edu/academichonesty.

VETERANS: Veterans and student soldiers with special circumstances or who are activated are encouraged to notify the instructor in advance.