

**Math 365**  
**Foundations of Geometry**  
Course Guide  
Spring 2016



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Office Hours: MWF 10:00-11:00 and 12:30-1:30  
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**Catalog Description:** An introduction to the general study of geometries including projective, finite, and non-Euclidean geometries.

**Prerequisite:** High school geometry, three semesters of college mathematics and a grade of a C or higher in Math 252.

**Academic Credit:** 3 semester hours.

**Textbook:** *Axiomatic Geometry* by John M. Lee.

**Homework:** Homework will be assigned daily to direct you in your studies. It will be to your advantage to do all of the homework and to do it as soon after class as possible. You are strongly encouraged to work with other students on your homework. For direct feedback on homework, you should bring your work to my office to let me look at it.

**Exams:** You will have three in-class exams on or around February 4, March 10, and April 7. Each test will focus on recent material, but each may also have a cumulative component. If you are going to miss a test for a university approved reason, you must let me know in advance. Strict time limits will be enforced on every test.

**Final Exam:** You will have a cumulative final exam during exam week. If you are going to miss the final for a university approved reason, you must let me know in advance. A strict time limit will be enforced on the final exam.

**Paper:** Each student will write a paper about a significant figure in the history of geometry. The paper should present a brief biography of the figure and a description of his or her contributions to geometry. The biography should include relevant historical and social influences on the figure. Names of the figures about whom you will be writing are due by the first exam. Each student must write about a different figure, so it may be in your best interest to give me a name as early as possible. First drafts of your papers are due by the second exam. Papers must be typeset with  $\text{\LaTeX}$  and must include a bibliography. I will give you an example to show how to do bibliographies and citations in  $\text{\LaTeX}$ . You must

include at least three sources. At least one of these must be a print source. Wikipedia is not considered a valid source.

**Grades:** Each exam will account for 22.5% of your grade. The paper will be 10% of your grade.

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**Additional Assignments:** Under some circumstances, additional assignments and quizzes may be necessary to facilitate communication and learning. When this happens, the additional grades will become part of the exam grade for the current chapter.

**Attendance:** You are expected to be in class on time every day. If you miss class for any reason, it is your responsibility to get the notes and assignments from that class meeting. A sign-up sheet will be passed around each class period to monitor attendance.

**Electronics:** Unless I have specifically asked you to use them, all electronic devices such as phones, tablets, laptops, earphones, etc. should be put away during class. Use of such devices in class for non-approved reasons is distracting and disrespectful to the class.

**Format of Answers:** This is a math class. Math relies on structure, discipline, and method. As such, unless I say otherwise, I expect to see complete work and exact answers. Your work should be neatly written so that the grader can easily follow it and find your answers. Attendance: You are expected to be in class on time every day. If you miss class for any reason, it is your responsibility to get the notes and assignments from that class meeting. A sign-up sheet will be passed around each class period to monitor attendance.

**Commitment:** You are a student; your job is to study. You will not succeed in this class without spending time studying and doing homework. For each hour in class, I expect you to spend two hours outside of class preparing (some will need to spend more time).

**Behavior:** It is assumed that at all times you will conduct yourself in a manner consistent with being a member of a Christian community.

**Work Samples:** Samples of student work are occasionally used (without names) for assessment purposes. If you do not want your work used in such a way, you should let me know.

**Course Workload:** In the face-to-face, online, and hybrid classrooms at Concordia University, Nebraska, credit hours are amassed in a course through student-to-instructor interaction, student-to-student interaction, Blackboard activities, contact with course-specific content, assignments, assigned videos, and other activities. No matter the length of the course meeting time in weeks or the amount of face-to-face instruction in the course, students can expect to devote at least 135 hours for each 3-credit course.

**Course Participation:** Federal Financial Aid regulations, which Concordia observes for all

students, require that students regularly participate in courses in which they are enrolled. All students must log into the course management system (Blackboard) or participate in a face-to-face session weekly in order to avoid being tagged as a non-participant. Students must use the Concordia Blackboard and e-mail messaging systems to contact instructors and advisors. Students who are unable to participate regularly in their course for any reason should contact their instructor and their advisor. Students who intend to withdraw from a course or a program should notify their instructor and advisor.

**Academic Integrity:** At Concordia University Nebraska, we are guided in all of our work by the values of academic integrity: honesty, trust, fairness, responsibility, and respect. As a student, you are required to demonstrate these values in all of the work you do. Participating in a behavior that violates academic integrity (e.g., plagiarism, unauthorized collaboration, multiple submissions, cheating on examinations, or fabricating information) will result in your being sanctioned. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment or examination, receiving a failing grade for the course, and/or being suspended from the university.

**ADA:** Students with a documented disability, who need reasonable accommodations, should contact ADA & Academic Support located in Link Library to arrange an appointment to discuss their individual needs. Students are also encouraged to notify their instructors immediately about any disability-related academic needs they may have. To contact the Academic Resource and Disability Support Services Coordinator, Bethany Landrey, please call 402.643.7187 or 800.535.5494 ext. 7187 or email [Bethany.Landrey@cune.edu](mailto:Bethany.Landrey@cune.edu).

**Emergency Information:** In inclement weather, check your e-mail, Blackboard, and the Concordia website ([www.cune.edu](http://www.cune.edu)) for information. Your instructor may utilize Blackboard to make-up course time, so please check Blackboard if a class is cancelled. In the event of an emergency while you are in a face-to-face class, follow the instructions of your instructor, ensure you are in a safe location, and, after you are in a safe location, check in with your instructor before leaving so that he or she can account for all students. Also, if you have not already done so, please update emergency contact information in “Banner Self-Service” on the connectCUNE portal (<http://connectCUNE.cune.edu>).

### **Learning Goals for General Education at Concordia:**

- **Faith:** to recognize that we are created by God, condemned by sin, redeemed by Christ, living out faith in our vocations.
- **Appreciation:** to value the whole of God’s creation and human experience.
- **Knowledge:** to gain a base level of knowledge in core disciplines.
- **Analysis:** to recognize, understand, critically evaluate and synthesize the components of a topic using methods appropriate to the discipline.
- **Application:** to employ learning creatively in a variety of settings and disciplines.

- **Communication:** to demonstrate effective communication skills for personal, academic and professional purposes.
- **Responsibility:** to grow in Christian stewardship, leadership, and professionalism.