Course Title: Higher Geometry, MATH 525 - 70, Fall 2018

Credits: 3

Prerequisite: MATH 221 or permission of the instructor.

Course Description: In this course we study some topics from Euclidean, Hyperbolic, Spherical, and Projective Geometry, underscoring the role of symmetries and groups of transformations.

Research: Students are expected to research a topic not covered in class and to deliver a presentation to the class at the end of the semester. The choice of topic must be discussed with the instructor as early as possible and a commitment to the topic must be made by the time of the Midterm test. Work on a common topic with a partner is encouraged.

Instructor: Nelson Castaneda
Office: Marcus White 123
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Office Hours: Mondays and Wednesdays 7:15 – 9:15 PM, and Fridays 4:00 – 5:00 PM. We can arrange to meet at a different time if necessary.

Textbook: We don’t have a designated textbook for this class. I will provide notes for some of the topics covered in class. As a reference book I recommend *Introduction to Geometry*, second edition by H. S. M. Coxeter, John Wiley & Sons 1989 (reprint of the 1969 edition). Other resources will be posted on Blackboard Learn.

Class Meeting Times: Monday, Wednesday, 5:55 to 7:10 PM in Maria Sanford Hall 212.

Course Requirements: Attend and participate in class regularly; complete homework assignments; take quizzes and tests, as scheduled. A general rule for any college course is that you are expected to put in at least 2 hours of work outside of class for every hour in class.

Cell phones and other communication devices must be turned off at all times during class except when you wish to take pictures of the board.

Homework Assignments: Several assignments will be given during the semester. Students are encouraged to work in groups of two or three people. Each student must write the solutions to the problems in a notebook that is dedicated exclusively to homework. The writing must be done in single sided format. This notebook will be collected at dates to be announced in class.

Assessment: We will have a midterm test, a final exam, an oral presentation and several homework assignments. The oral presentation is due the last week of classes. The date of the midterm test is Wednesday, October 24. The final exam is cumulative, is worth 20%, and is given on Wednesday, December 12 from 5:30 to 7:30 PM.

Grade: The grade is calculated based on the following percentages: Midterm test, Final Exam, Oral Presentation, 20% each, Homework Assignments 40%.

The minimum averages to determine the letter grades are as follows:
- A 93%  A- 90%  B+ 87%  B 83%  B- 80%  C+ 77%  C 73%  C- 70%  D+ 67%  D 63%  D- 60%

Final Exam: Wednesday, December 12 from 5:30 to 7:30 PM.
University Policies:

1. You must take the final examination at the time specified for this course: Wednesday, December 12 from 5:30 to 7:30 PM.

2. If you are a student with a documented disability, and would like to request academic accommodations, you are encouraged to contact Student Disability Services (SDS) at 860-832-1952, or email disabilityservices@ccsu.edu. Please visit the SDS website to download an Intake form and documentation requirements. Temporary impairments may also qualify for accommodations. Central Connecticut State University provides reasonable accommodations in accordance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act for students with documented disabilities on an individualized basis.

3. In the event of a weather emergency which requires curtailment or cancellation of classes, listen to WTIC (1080 AM), or check the website Cancellation/Delay Information, or call (860) 832-3333 for the “general snow message.”

4. Students may drop full semester courses up to September 17. Courses dropped by this date will not appear on the students transcript. Please drop the course by September 17 if you think that this course is not appropriate for you. Feel free to stop by my office to discuss your situation.

5. Students withdrawing from a full semester course from September 18 through November 19 (through the 12th week of the semester) may do so by completing a withdrawal form. A notation of W will appear on the students transcript. Withdrawals during this time do not require written authorization; however, it would be prudent for the student to discuss this with their instructor or/and their academic advisor.

6. Cessation of attendance, notice to the instructor, or telephone calls to the Enrollment Center are not considered official notice of a student’s intention to drop the course. After November 19 withdrawals are allowed only for students who are passing the course and only under extenuating circumstances. Such late withdrawals require written approval of the course instructor and the department chair.

7. Central Connecticut State University (CCSU) will not tolerate sexual misconduct against students, staff, faculty, or visitors in any form, including but not limited to: sexual assault, sexual exploitation, sexual harassment or stalking, as defined in CCSU policies. For additional information, please consult the website of the Office of Diversity and Equity.

8. You are responsible for understanding and abiding by the University’s policy on academic integrity. Information on the policy may be found at Academic Integrity Policy. This policy is rigorously enforced by the Department of Mathematical Sciences.

9. All students are expected to demonstrate integrity in the completion of their course work. Academic integrity means doing one’s own work and giving proper credit to the work and ideas of others. It is the responsibility of each student to become familiar with what constitutes academic dishonesty and plagiarism and to avoid all forms of cheating and plagiarism. Students who engage in plagiarism and other forms of academic misconduct will face academic and possibly disciplinary consequences. Academic sanctions can range from a reduced grade for the assignment to a failing grade for the course. From a disciplinary standpoint, an Academic Misconduct Report may be filed and a Faculty Hearing Board may impose sanctions such as probation, suspension or expulsion.

10. For further information on academic misconduct and its consequences, please consult the Student Code of Conduct and the Academic Misconduct Policy.

Resources Available:

1. If you need help, take advantage of your instructor’s office hours. Do not wait until just before the first test to do so.

2. The Learning Center is located in Carroll Hall, Room 016. Free tutoring is available. Check this website for schedule and further information.

3. Form a study group with other students in your section. Explaining solutions to homework problems to each other is a good way to learn.

4. A list of private tutors for hire can be found in the website of the math department. The math department is located in Marcus White Room 128, and its phone is 860 - 832 2835.