Math 2910.703, The Mathematics of Perspective

Course Information   Spring 2016

Section Instructor: Dr. Lisa Mantini, Professor of Mathematics

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   ▷ FAX number: 405–744–8275.
   ▷ Office hours: MW 2:30–3:20 PM, F 1:00–1:50 PM, or by appointment.

Class times: Wednesdays, 11:30–12:20 AM in 509 MSCS

Course Objectives: The objective of this course is to provide an extra Honors dimension
to your study of Calculus III or Linear Algebra (or other Math course). We will
discover the mathematical relationships that underly the presentation of perspective
in two-dimensional works, we will learn to analyze works of art to find the appropriate
artist's viewpoint, and we will create drawings with accurate perspective.

Prerequisites: The prerequisite for this course is Calculus II.

Text: I will provide materials as needed. One of my sources is the text *Viewpoints: Mathematical Perspective and Fractal Geometry in Art* by Marc Frantz and Annalisa Crannell, Princeton University Press, 2011. ISBN 978-0-691-12592-3.

Course Requirements: Students enrolled in this course will complete items worth 250
total points, as follows.

   ▷ Attendance at 2 points per class, worth a total of 25 points;
   ▷ Six assignments due approximately every two weeks, each worth 25 points, for a
   total of 150 points;
   ▷ One final project, worth 75 points, due April 20, 2016.

Grading: Preliminary cutoffs for letter grades are as follows. Note that a grade of A or B
is necessary in order to earn Honors credit for this course.

   • 225 points (90%) guarantees an A in the course;
   • 200 points (80%) guarantees a B;
   • 175 points (70%) guarantees a C;
   • 150 points (60%) guarantees a D.

Projects: The final project will be a choice of either a paper with presentation, or a drawing
done with accurate perspective and containing sufficient complexity. More information
will be available later in the semester.

Withdrawal: The last day to drop the course with no fees encumbered and no grade is
Tuesday, January 19. The last day to drop with a partial refund is Friday, January 22.
The last day to drop with an automatic grade of W is Friday, April 8. The last day to
withdraw from all classes with a grade of W or F is Friday, April 24.

Special Accommodations: If you have a qualified disability and need special accommodations, you should notify me as soon as possible and request verification of eligibility for accommodations from the Office of Student Disability Services.