Course Syllabus – Fall 2017

COURSE: MATH 622 – Independent Study

INSTRUCTOR: Jim Anthony

OFFICE: 158 Hoyt

OFFICE HOURS: Mon/Fri 11:40 am – 12:40 pm
Wed 9:20 am – 10:20 am

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Text: NONE

Course Description: In this course, we will develop computer programs using mathematics to analyze cellular structures.

Goals/Outcomes:

1. Student should be able to create a program that will take images and analyze their structure, including, but not limited to the following:
   a. Number of cells
   b. Size and orientation of cells
   c. Movement of cells
   d. Cellular boundary
2. Student should be able to use mathematical equations to eliminate noise as well as light-distortion on the images.
3. Student should be able to analyze the efficacy of the various attempted methods.

Participation: At our meetings each week, I expect you to come prepared and to have made substantial progress between meetings. In order to earn a high grade, you must demonstrate your ability to work independently.

ACADEMIC INTEGRITY: Central to the purpose and pursuit of any academic community is academic integrity. All members of the Westminster community, including students, faculty, staff, and administrators, are expected to maintain the highest standards of honesty and integrity, in keeping with the philosophy and mission of the College. Academic dishonesty is a profound violation of this code of behavior.

This academic integrity statement is taken from the Westminster College Undergraduate Catalog. It is imperative that you never submit the work of others as though it is your own work nor should you ever allow anyone else to use your work without giving credit to you. The penalty for academic dishonesty in this class is minimally the grade of 0 on the assignment and, except for unusual circumstances, a grade of F for the course. Any event of academic dishonesty is reported to the Dean of the College. Other details of violations and consequences are given in the catalog.
ACCESSIBILITY STATEMENT:
Westminster College actively strives for the full inclusion of all our students. Students with disabilities who require access solutions for environmental or curricular barriers should contact Faith Craig, Director of Disability Resources, located in 209 Thompson-Clark Hall. phone: 724-946-7192 e-mail: craigfa@westminster.edu