

## Math 229 – Advanced Mathematical Problem Solving – Fall 2020

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**Catalog Description:** In this course, students will be expected to solve and present solutions to a collection of problems gathered from various mathematics competitions. Problem solutions may involve the techniques of classical algebra, geometry, calculus, and combinatorics. Hours credit: 1. Prerequisite: Permission of the Instructor. May be repeated for credit up to a maximum of 4 hours.

**Course Structure:** Every week I will give you a list of problems taken from a variety of undergraduate mathematics contests. You may try all the problems, or focus your attention on just a few. Some problems may involve concepts that you have not yet been exposed to in other classes. In addition to setting aside time to work on these problems exclusively, I expect you to think about them throughout your week. Write out your solutions, structuring your ideas as clearly as you can.

At the beginning of each class, I will choose students to present solutions on the blackboard. We will spend the remainder of the class time discussing the solutions, and working on the remaining unsolved problems.

**Grading:** As the Virginia Tech and Putnam Competitions have been postponed due to the Covid situation, grades will depend on participation in the weekly practice sessions.

**Accommodations** Randolph College is committed to providing learning experiences that are accessible for all students, and will make reasonable accommodations for individuals with documented disabilities. If you have a learning difference or a disability mental health, medical, or physical impairment please contact Diane Roy, Coordinator of Access Services, in the Academic Services Center, 4th floor, Lipscomb Library; at (434) 947-8132; or at [droy@randolphcollege.edu](mailto:droy@randolphcollege.edu).

**Mandated Reporting:** As an instructor, one of my responsibilities is to help create a safe learning environment on our campus. I also have a mandatory reporting responsibility related to my role as a faculty member. It is my goal that you feel able to share information related to your life experiences in classroom discussions, in your written work, and in our one-on-one meetings. I will seek to keep information you share private to the greatest extent possible. However, I am required to share information regarding sexual misconduct or information about a crime that may have occurred on Randolph's campus with the Colleges Title IX Coordinator, Sharon Saunders. I do this to make sure that you are able to get all the information and support you may need. **However...**

Dr Ordower is also a Campus Advocate. You may share information with me or any other Campus Advocate in order to get support and/or advice with the expectation that your information will be held in confidence. That is, as a Campus Advocate, I am not required to report information you share with me. If you wish to speak to me in my role as Campus Advocate, please inform me **before** sharing any information.