## Fall 2019 Math 232 - Discrete Mathematics Syllabus

### Contact Information
Name: Derek Young  
Email: dyoung  
Office: 417 Clapp  
Office hours: MWF: 1:30pm - 2:45pm or by appointment. You are encouraged to schedule appointments regularly. Appointments can be made for small groups as well.  
Lectures: MWF: 11am - 12:15pm located in 401 Clapp

### Required Textbook:
*Discrete Mathematics with Graph Theory, 3rd Edition*, Goodaire & Parmenter

### Course Webpage:
All course information will be posted on the course web page at [https://derekyoungmath.github.io/fall19/](https://derekyoungmath.github.io/fall19/). Please check the course webpage frequently for all assignments, solutions and other resources.

### Course Objective:
In this course, we will focus on writing proofs in a variety of discrete mathematical topics. We will cover selected topics from chapters 0, 1-7, 9-12, and 14 of the required textbook. Please see the tentative schedule on the course webpage. By the end of this course you will be able to clearly articulate mathematical arguments through written proofs. The type of proof techniques that you will master include direct proofs, proof by contradiction, contrapositive, and mathematical induction. You will be exposed to graph theory and prove interesting results based on the topic.

### Participation/Attendance:
You are expected to attend every class. If you are not able to attend, you are still responsible for the material covered. There will be some in-class group work, and each person is expected to participate in order to receive full credit for their participation grade.

### Homework:
Homework will be assigned once a week. Homework assignment will typically be assigned on Wednesdays and be due on the Friday of the next week. Deadlines for homework are strict. Please see the schedule on the course webpage for homework due dates. You are allowed to share ideas with other students on homework assignments, but you are expected to submit your own answers.

### Quizzes:
There will be 10 quizzes which are based off of the homework problems. The quizzes will be given at the beginning of class on Friday and will last
15-20 minutes.

**Exams:** There will be 1 in-class midterm (problems based off of the quiz problems) exam given during the regularly scheduled class period. Please see the schedule posted on course web page for the midterm and final exam (problems based off of the quiz problems) dates.

**Redos:** You will be allow to redo assignments with the expectation that the assignment (along with your original work) be turn in within a reasonable amount of time after the initial assignment’s due date.

**Calculators:** Calculators will not be permitted on in class quizzes or exams.

**Grading:** All assignment grades will be posted on Moodle [https://moodle.mtholyoke.edu/](https://moodle.mtholyoke.edu/).

- 10% — Class Participation
- 20% — Homework
- 25% — Quizzes
- 20% — Midterm Exam
- 25% — Final Exam

**Grading Scale:** TBA

**Electronic Devices:** The use of electronic devices are allowed in the classroom for course related use only.

"With great power comes great responsibility.” – Ben Parker

It is your responsibility to help obtain a distraction free atmosphere inside of the classroom.

**Cheating Policy:** If plagiarism or cheating occurs, you will be assigned a zero for that assignment.

**Students with Disabilities:** If you have a documented disability and require accommodations, please take action as soon as possible so that all accommodations are properly met. (See the Office of AccessAbility Services [https://www.mtholyoke.edu/accessability](https://www.mtholyoke.edu/accessability))
The syllabus may be changed at anytime.