

Discrete Mathematics  
2014-2015

**Teacher:** Mrs. Paige Leen  
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**Course Purpose and Description**

Covenant's Discrete Mathematics course is designed for seniors who would like a non-Calculus mathematics course. Students will experience different mathematical topics that are intended to emphasize inductive thinking and discovery. Our primary goal is that at the end of the year students will not only hold a deeper appreciation for the world of mathematics but will have developed techniques for approaching mathematical problems.

**Materials Used**

**Textbook:** W. H. Freeman and Company  
Discrete Mathematics Through Applications (3<sup>rd</sup> edition) 2006

- Three ring binder with dividers (for this course only)
- TI-83, TI-83 Plus, or TI-83 Plus Silver Edition Calculator (TI-84 versions are o.k.)
- graph paper

**Grading**

Semester grades will be determined on student performance in the following areas:

Tests/Projects	40%
Quizzes	30%
Homework	20%
Class Work/ Participation	10%

The final grade is based on the two semester grades and the two exam grades in the following manner:

First semester	40%
Second semester	40%
Mid-Year Exam	10%
Final Exam	10%

**Homework**

Homework is extremely important to reinforce concepts learned in class. There will be homework most nights as practice for skills taught daily. Homework assignments will be checked for completion. Students will have three extension passes per semester

which allow them an additional day to complete any homework assignment with no questions asked. No credit will be given if turned in after the one day grace period and will result in a zero for that assignment.

All assignments and tests will be posted online. Students can find this information on The Covenant School Netclassroom parent/student portals. It is the responsibility of the student to ask in advance for any assignment(s) he/she will miss if participating in a school-sponsored event or other excused absence. Assignments are due on the day he/she returns to class.

### **Notebooks**

Students are encouraged to maintain a notebook for this course. The course notebook is suggested to be divided into the following sections: Class Notes/Study Guides, Homework, Journals/ Class work, and Returned Quizzes/Tests/Projects. The notebook should always contain fresh loose leaf and graph paper. Notebooks should be as neat as possible. Each day's work should be dated and labeled to help each student be successful in the class.

### **Teacher Communication and Support**

Students should ask for help as soon as they perceive that they need it. I am usually available during office hours and after school to work with students who have problems or questions regarding the homework material. The best time for students to see me for extra help is before school during the 8:00-8:30 "Office Hours". While I am always happy to help at a moment's notice, if I am free during other times of the day or after school, the only way to guarantee my availability is by appointment.

### **Class Expectations**

I expect each student to behave in such a manner as to not disrupt anyone else's learning much less their own. I expect each student to give their best effort throughout the course by focusing during class, asking questions, and seeking extra help when needed.

Students are expected to:

- Come to class on time and prepared to learn.
- Be active and engaged learners.
- Show respect for everyone.
- Obey all of The Covenant School rules and guidelines.

I am looking forward to a great year in Discrete Mathematics with you.

Paige Leen

### **Course Calendar**

#### **First Semester**

Election Theory  
Fair Division  
Matrix Operations and Applications  
Graphs and their Applications  
Fall Exam Review

**Second Semester**

More Graphs, Subgraphs, and Trees  
Counting and Probability  
Matrices Revisited  
Recursion  
Spring Exam Review

**This course calendar is a projected outline. It is tentative and subject to change due to pacing, weather-related cancellations, etc.**

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**---Please print out, sign, date, and return (or e-mail Mrs. Leen)---**

I have read and understand the course policies and guidelines for **Discrete Math**.

Student signature \_\_\_\_\_

Parent Signature \_\_\_\_\_

Date \_\_\_\_\_

**Printed Student Name** \_\_\_\_\_