# STUDENT PERFORMANCE EXPECTATIONS Mr. Stern

Subject: Discrete Mathematics 2023-2024

1. Course Overview

Discrete mathematics addresses topics not covered or addressed only lightly in traditional math courses. It is an introduction into areas of mathematics that most students have never thought of before. In this course, the topics have a step-by-step nature rather than a continuous one. This course stresses the connection between contemporary math and the modern society. Students are exposed to problem solving experiences in some or all of the following areas: decision-making in a democracy (election theory), graphs and graph theory (networking), coding information, logic and probability, game theory, and mathematical induction. These topics are often found in a standard mathematics course at the college level for the non-mathematics majors. A course in discrete mathematics is also effective preparation for applied combinatorics and graph theory courses offered as electives for mathematics and science majors at the college level. A working knowledge of Algebra II will be required from the beginning of this course. Graphing calculators are required.

Text Used: For All Practical Purposes – Mathematical Literacy in Today’s World: 10th Edition

ISBN-13 #978-1-4641-2473-0

ISBN-10# 1-4641-2473-6

1. Homework…
2. Homework is an integral part of each math lesson. It must be done on a daily basis if maximum learning is to take place. Homework is the learning experience which allows student practice of the concept(s) learned in class. Expect to spend approximately half an hour every day on homework.

b) Homework will be reviewed daily. Specific problems/exercises may appear in the homework or

quizzes/tests that were not directly presented in class but whose concepts were explained. Make use of your notes and the textbook to clear up any questions you may have. Come for extra help if you have unanswered questions.

c) Homework must be neat, orderly, and readable. **All work must be shown.**

d) Homework must be done in **pencil**. Credit may not be given otherwise.

e) **At least one blank line should be left after every problem. Leave room for**

**corrections/notes for every problem.**

1. Electronic Devices …

Montgomery High School is a Bring Your Own Device (BYOD) school. Please bring a laptop/Chromebook to use in class. This does NOT include cell phones, which are not to be used during class. Please try to have your computer charged as charging it may not be possible during class.

1. Notebook…
2. You are required to keep a separate notebook for Discrete Math. I strongly suggest using a 3-ring binder. The notebook is to reflect what is done in class **each** day in a neat and orderly manner. Handouts may be 3-hole punched and placed in the binder.
3. Your notebook should be set up as follows:

**Section 1:** notes that include a heading with the date and topic (objective) which will be given at the beginning of each class. These notes will include warm-ups, new material, and classwork.

**Section 2:** homework that is carefully labeled

**Section 3:** returned quizzes and tests

1. Grades…
2. The Mathematics Department Policy for determining a semester grade in this

course is as follows:

80% tests and quizzes

20% everything else

1. Tests will always be announced well in advance. Quizzes will usually be announced but may be unannounced. Use of a pen or anything other than a pencil on an assessment may result in a loss of points. Exception: I understand that colored pencils/markers can help with visualizing some problems. They are acceptable when used this way, as a “supplemental” writing instrument for the problem(s).
2. Homework will be checked almost daily. Since homework is so important for learning mathematical concepts, it will have a great effect on your grade (directly and indirectly). Homework is checked for completeness and organization with work shown, not accuracy; this is your “effort” grade. Homework assignments are worth 2 points. Late assignments are only accepted for credit if you have been absent. Homework must be done in pencil and at least one blank line must be left after every problem.
3. Behaviors and Other Important Items…
4. You are expected to take advantage of after school extra-help sessions. These will usually be on Tuesdays in 2225. If I need to change the day I will inform the class.
5. You are expected to have your textbooks, notebook, pencil, and **graphing** calculator for each class period. For a calculator, I suggest using a TI-84 (or 83) plus. You will need a calculator that can perform matrix operations.

## c) Montgomery High School Expected Behaviors

Please refer to guidelines in the Student Handbook.

d) When I am (or anyone else is) speaking to the class, I expect you to be listening and not speaking. When I am not addressing the class you may move around as necessary (sharpen pencil, etc.) You may not leave the classroom without permission. Lateness and misbehavior will result in progressive punishment. This includes behaviors that are disruptive to the learning environment or are distracting to any other student(s) or the teacher.

e) You should be **seated** and ready to start working when the bell rings. If you enter as the bell is ringing, you will be marked late.

1. If you are absent the day before a quiz/test and nothing new was taught that day that will be on the quiz/test, then you will be expected to take the quiz/test your first day back in school.
2. You are expected to use a **pencil** in this course. Using a pen or anything else other than a pencil for homework or graded classwork may result in a zero for that grade.
3. Student Responsibilities…
4. Follow the rules and structure of the class.
5. Do the daily homework.
6. Take the assigned notes.
7. Be prepared for class with all necessary materials.
8. Add to the positive atmosphere of the class by being honest, respectful, and responsible.
9. Exhibit positive behavior at all times.
10. The next page contains departmental information on several topics including but not limited to: academic integrity, retests, extra credit, and remediation.

***MHS MATHEMATICS DEPARTMENT STANDARDS***

The purpose of the standards is to enable students to know what to expect when they take a mathematics course at MHS.  These standards are designed to promote responsibility and encourage the students to seek the appropriate help when they encounter difficulty.

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| **Participation:** | In order to learn the course material, students must be actively involved in class.  We encourage them to participate by being attentive, asking and answering questions, solving problems and having their BYOD device. |
| **Homework:** | Homework must be done regularly and on time to be of value in preparing for new lessons and assessments.  Homework will count towards the semester grade. |
| **Notebook:** | Students will be expected to maintain a mathematics notebook.  The format of the notebook will vary from course to course. |
| **Written Communication:** | Students will be expected to show all work when solving problems on homework, tests, quizzes and other assignments.  This enables the teacher to know that the students fully understand the concepts being studied. |
| **Calculators:** | Calculators may be used at the teacher’s discretion as a tool for learning to do higher-   level problems.  Many high stakes assessments restrict CAS calculating devices.  In   purchasing a calculator, ask the teacher what device is best for the course.  State  assessments will be using the TI 84 graphing calculator.  (TI 83 series is equivalent). |
| **Partial Credit:** | Partial credit may be given for solutions when essential steps are shown. |
| **Retests:** | It is important for students to master math concepts to proceed forward; therefore, there is no retesting.  If students perform poorly on a test they may seek extra help from the teacher.  Math builds.  It is important that students correct errors and rework problems to solidify their foundation. |
| **Remediation**: | For assessments that are weighted at 10% or greater in a semester,  remediation designed by the teacher can increase the posted grade to a 50%. |
| **Extra Credit:** | There are no individual extra credit assignments.  At the teacher’s discretion, extra credit assignments may be given to all students within a course. |
| **SEL Learning**  **Target Areas** | All Math courses incorporate Social and Emotional Learning through problem based discovery, reflection on practice and collaboration on content.  Using skills like goal setting, critical thinking, resilience, honesty, and time management by both the teacher and student, result in positive growth. |
| **Academic**  **Integrity** | Refer to pages 23 – 24 in the Montgomery High School Handbook/Agenda |
| **Makeup**  **Policy** | If you are absent the day of an assessment, you are expected to make up the assessment during your next study hall/ early dismissal/ class period.  Failing to show up/communicate will result in a 10% percentage point late penalty. |

**Note to all parents of Discrete Mathematics students:**

Please review this “Student Expectation Sheet” with your child. If you have any questions regarding any of the items, please feel free to email me at mstern@mtsd.us. I will return your email as soon as possible.

Please print, sign, and return the last page of this packet as an indication that you have seen the expectations and are aware of the grade requirements.

I am looking forward to an exciting year as your child’s math teacher.

Mr. Stern

Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Day and Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student’s Name (please print) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student’s Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent’s Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent’s Email Address \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_