



Northglenn High School
 601 West 100th Place • Northglenn, CO 80260
 Office: (720) 972-4600 • Fax: (720) 972-4739
<http://www.northglennh.adams12.org>



School Year	2020-2021	Teacher Name	Sirena Shock
Room/Office	Room 237	Website	shockmath.weebly.com
Phone	Email is best	Schoology Access Code	Period 3: WSMT-NGSC-V4V69
Email Address	sirena.shock@adams12.org		Period 4: KM4G-4MVG-HWF55
PBL Title	Counting Votes	Panel Date	December, 2020 (exact date TBD)

Course Name	Discrete Math: Management Science & Social Choice		
Course Description	This semester class will include topics in Discrete Math with a focus on management science and social choice.		
Unit of Study	Grade Level Expectations/Content Standards	Approximate Time Spent	Targeted Date of Assessment
Euler Circuits	Students will discuss, learn, find, and create Euler circuits.	20%	9/11/2020
Hamiltonian Circuits	Students will discuss, learn, find, and create Hamiltonian circuits. Students will use Hamiltonian circuits to determine how to travel efficiently while considering potentially hazardous pathways.	20%	9/28/2020
Planning and Scheduling	Students will learn and discuss critical paths as well as schedules. Students will use critical path analysis to prioritize tasks and resolve conflict.	20%	TBD*
Voting	Students will learn and discuss a variety of voting systems. Students will consider the possibility of a better approach to the current system in use.	20%	TBD*
Matrix Methods	Students will learn to construct matrices to represent and analyze information, interpret given matrices, and operate on matrices using row sums, matrix addition and multiplication.	20%	TBD*
★ Target assessment dates will be determined once we know more about how students will attend school for the remainder of the semester.			
Grading Scale		Grade Percentages/Weights	
A	90-100	Formative* 20%	Summative* 80%
B	80-89		
C	70-79	*Weekly progress grades are posted at https://ic.adams12.org/campus/portal/adams12.isp	
D	60-69		
F	59 or below		



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General Expectations

- Grades are based upon the demonstration of proficiency on units associated with a standard given during each formative or summative assessment. Formative grades in addition to summative unit assessments will be used to holistically determine your grade.
- **Summative: 80%** Summative measures of achievement are taken when unit mastery is expected. (i.e., unit tests, culmination of a project, embedded assessments, etc.)
- **Formative: 20%** Formative assessments measure the scaffolding skills and/or content embedded in the unit. Formative assessments are taken frequently, after a student has practiced a skill or become familiar with content. Examples of formative assessments include but are not limited to exit tickets, paragraphs, oral check for understanding, warm-ups, stages in a large project, etc.
- Assessments will be graded based on teacher/district/state rubrics.
- On group projects, students will receive a grade for individual work and a group grade.
- Grades are based on achievement of Content Standards and Grade Level Expectations.

Class Expectations

Missing or incomplete assignments/assessments: Superintendent Policies 6280 Homework and 6281 Make-Up Work, will be followed for this course.

Additional Help:

- ❖ I will be available on Wednesdays from ### to give extra help. Please send me an email if you would like to set up a different time to meet and we can schedule an appointment. Once we return to in-person learning, I may need to adjust this.

Materials and Supplies Needed Daily

- ❖ While in Remote Learning: computer/chromebook, spiral notebook and pencil

Accommodations

A variety of teaching techniques are used to meet the diverse needs of students. I am available by phone or appointment to discuss concerns or needs of students with special needs.

Assessments Used To Evaluate Student Progress

Assignments, Activities, Observations, Participation, Quizzes, and Tests

Motivation Used

- ❖ A variety of activities, real-world contexts and individual and group work that engage and stimulate students to think about math are a part of this curriculum.
- ❖ Students are encouraged to be engaged and motivated in the completion of their assignments.

Student Expectations

Expectations for Classroom Behavior

- ❖ Students will be engaged in class during the designated time frames. Meaning no extra tabs open. Students should be focused on what is being taught or the assignment they should be working on.
- ❖ During live videos, (Google Meet or Zoom),
 - Students will stay muted unless wanting to contribute to the lesson or ask/answer a question.
 - All live online sessions that include a lesson will be recorded and posted on Schoology.
 - Video may be turned on or off based on individual class norms.
- ❖ Students will use school appropriate language on any and all school related tasks. There will be no “abusive” language tolerated.
- ❖ Attendance will be taken for every class during the 1st ten minutes of class.