

**Gateway STEM / Soldan High School**  
*Learners Today, Leaders Tomorrow!*



**Math Applications**

Room 326 East

**COURSE SYLLABUS**  
**2025-2026**

**INSTRUCTOR:** Ms. C. J. Tate

**E-Mail:** cheryl.tate@slps.org

**PLANNING PERIOD:** 5th

**PHONE:** 314-776-3300

**COURSE FRAMEWORK:**

Math Applications is designed to explore topics from Algebra and Geometry through collaborative application projects. It is intended for seniors who have completed Algebra, Geometry, Advanced Algebra, and require a fourth math credit.

**LEARNING OUTCOMES:**

By the end of the course, students will:

- Integrate problem solving techniques and modeling in both mathematical and real-world contexts.
- Use mathematics as a means of communication while reading, writing, and problem solving.
- Apply logical reasoning in making conjectures and validating conclusions.
- Recognize the connections within mathematics as a discipline through the interrelated concepts of Algebra, Geometry, and other areas.

**COURSE OUTLINE: (Subject to change)**

**First Semester**

There will be individual work at the beginning of each unit

**Project 0:** Designing and creating a Lunar Theme Park

**Project 1:** Create a blueprint of a Classroom

**Project 2:** Create a blueprint and scale model of another room in the school

**Semester Final on measurements**

## Second Semester

There will be individual work at the beginning of each unit

**Project 3:** Cost analysis

**Project 4:** Statistics and Probability

**Project 5:** Kite Design and Construction

**Semester Final of an Individual Project**

### REQUIRED MATERIALS:

You will need to bring the following materials to class each day

- Pencils with eraser - Pen is **NOT** allowed

### CLASSROOM EXPECTATIONS/POLICIES:

- 1) ***Be respectful.*** Be on time: when the bell rings and when turning in assignments/projects. Respect the content we are learning, the materials we have in class, and above all, every person that comes and goes in room 326 East. Use thoughtful and academic language. Contribute to discussions in a meaningful manner. Any disrespectful language, discriminatory words, or behavior will **NOT** be tolerated.
- 2) ***Be prepared.*** Bring all materials to class that you will need. Be ready to start when the bell rings. This means be in your seat. Use the restroom during passing time so that you do not lose valuable class time.
- 3) ***Remain on task throughout the entire class time.*** Class time is from bell to bell. Students are expected to begin working when the initial class bell rings and end work when the dismissal bell rings. The **teacher**, **NOT** the bell dismisses each class.
- 4) ***Food and Drinks*** - Food is **NOT** allowed in the classroom. Drinks are allowed **ONLY** if in a plastic bottle with a screw top lid.

### GRADING POLICY/SCALE:

Assignments	Descriptions	Value
Formative	[Assignments, Attendance, Classwork and Group Work]	= 40%
Summative	[Projects]	= 60%
		<b>TOTAL = 100%</b>

[First Semester Final will be 10% of your grade]

[Second Semester Final - Individual Project will be 10% of your grade]

**Grading Policy:** Students will follow the grading scale issued by the district, which is as follows:

### **Grading Scale** (issued by the district)

A—90-100	The student's work is exemplary and is completed in a timely and independent manner. The work shows a high level of understanding or performance.
B—80-89	The student's work is above average and has been completed in a timely and independent manner. The work shows a clear level of understanding or performance.
C—70-79	The student's work is satisfactory and may or may not be completed in a timely/independent manner.
D—60-69	The student's work barely meets requirements and work is not completed in a timely or independent manner.
F—0-59	The student's work does not meet the minimum standards of understanding or performance or work is not the student's personal best.

This class is primarily based on group projects and individual work.

During projects there are **no** extensions on due dates because group members are absent. **Make sure you are in class because your group is counting on you to be there!**

Parents may have internet access to their student's grades and assignments upon Administrative approval at <https://sis.slps.org/SLPS/Default.aspx>.

### **ACADEMIC INTEGRITY/ PLAGIARISM:**

Academic dishonesty includes cheating, falsifying information, copying an assignment, submitting the same assignment for different classes without permission, and getting answers for tests from another student.

Plagiarism is defined as presenting as one's own the words, the work, or the opinions of someone else without proper acknowledgement. Students are expected to complete their own work. Plagiarism will result in a zero on the assignment and a referral.

If you choose to copy an assignment from another student or if you intentionally give another student your work to copy, all students involved will receive a "0" for that assignment and their guardians will be notified. If this happens a second time, we will have a meeting with your vice principal regarding your academic dishonest.

### **MISCELLANEOUS COURSE INFORMATION:**

#### **Electronic Device Policy**

**NO** cell phone, headphone, earbuds, iPad or electronic device use allowed - **no** use and **no** charging!!! Only exception is if authorized by the teacher to enhance the curriculum being taught or at other time(s) when teacher deems allowable.

### **Homework**

As this is a group project-based class, there should be very little if no homework assigned. All work is done in class with your group or individually. Second semester your final is an individual project and may require out of class work to be completed.

### **Turning in Assignments**

Students will turn in their assignments/projects by the stated deadline. They should be clearly labeled with student name (first and last), the title of assignment, date, and hour.

### **Attendance**

This class is primarily based on group projects and individual work. **Attendance** is the key to being successful in this class and your group is counting on you being here to help complete the project. Being absent will seriously diminish your ability to learn. If you miss a day of new material, it will be given to you and completed on your time. Each day you are absent will result in your points being deducted from the overall project grade as well as losing your daily participation points. Remember, participation points **cannot** be made up!!!

**Again, make sure you are in class because your group is counting on you to be here and so is your grade!**

### **Tardy to class**

A student is tardy to class if they are not in their seat when the bell rings. The student then needs to obtain a pass from the attendance office to enter the classroom.

### **Class Organization**

When you enter class, begin the Do Now, which will be posted on the board. The agenda for class is posted on the weekly calendar at the front of the room.

### **Hall Passes**

Per school policy, this is a **NO** hall pass class. Make sure to use the restroom and take care of any other business before coming to class.

### **Unit Tests**

As this is a group project-based class, there will be no unit tests. Your project grade will serve as a test grade. There will be a semester test at the end of first semester and an individual project at the end of second semester.

### **Students with Disabilities**

If you require accommodations for access and/or participation, please inform the instructor. This includes, but is not limited to, change of seat for vision/hearing reasons, larger type copies of assignments, and excuses for medical reasons.

### **\*\*\* HEALTH ISSUES \*\*\***

There will be **NO** spraying of perfumes, cologne, after-shave, or any other aerosol spray, or use of strong chemical smell lotion in the classroom or right before you enter the classroom. If this occurs, the student(s) responsible will be sent to their administrator and a report made.

**Please sign and return the Student Contract/Parent Information form below**

By signing, you acknowledge and agree you have read the course syllabus, understand the expectations stated within, and will follow these classroom procedures and expectations along with any additional expectations implemented for Ms. Tate's Math Applications class.

_____ Student Signature	_____ Date	_____ Parent / Guardian Signature
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**PLEASE PRINT LEGIBLY**

_____ Student's Name	_____ Parent / Guardian Name
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_____ Address	_____ City	_____ Zip
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_____ Home Phone	_____ Parent Work Phone
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_____ Parent Cell Phone	_____ Alternate Phone & Who It Is
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Parent Email Address

**Do not** leave any line blank. If it does not apply, write N/A.

This completed form is your first assignment and worth 10 points.