

Welcome to PRECALCULUS!

Mrs. Amanda Goranson A321
agoranson@dbqschools.org
Phone: 552-5595

Mrs. Jill Auderer A309
jauderer@dbqschools.org
Phone: 552-5591

COURSE DESCRIPTION

Pre-Calculus with Trigonometry is an honors-level course for students taking AP Calculus in high school or Calculus as college freshmen. Because this is an honors level course, students must have a very strong background in algebra and geometry. Topics include: functions, analytic geometry, trigonometry, parametric and polar equations and the introduction to calculus. The graphing calculator is used to provide a rich array of representation. Real world problem situations are used. A graphing calculator is necessary. Successful completion leads to AP Calculus.

STANDARDS

Alignment to the Iowa Core Curriculum: Understands and applies concepts of algebra, coordinates, transformations and trigonometric relationships.

GENERAL DESCRIPTION

We believe you never stop growing and improving. We do not expect you to come to the course fully formed; we expect that you have arrived here ready to learn. We will be using the textbook, canvas, email, and videos and other forms of inquiry as resources to explore new material. Students are expected to be self-motivated, taking responsibility for their own learning and to communicate learning needs to teacher. Either teacher is available before and after school and have third hour preparation period.

SUPPLIES

Textbook: Precalculus: Graphical, Numerical, Algebraic (9th Edition) Demana, Waits, Foley, Kennedy, Bock
Calculator: TI-83, TI-84 or TI-Nspire CS CAS (Any CAS calculators are not allowed on calculator exams)
3-ring binder or notebook and folder
Pencil with an eraser (because we all make mistakes)

CONTENT: WHAT ARE WE GOING TO DO IN THIS CLASS?

- | | |
|---|--|
| 1. Functions and Graphs | 7. Systems and Matrices |
| 2. Polynomial, Rational, Power Functions | 8. Analytic Geometry in 2 and 3 Dimensions |
| 3. Exponential, Logistic, Logarithmic Functions | 9. Discrete Mathematics |
| 4. Trigonometric Functions | 10. Statistics and Probability |
| 5. Analytic Trigonometry | 11. An Introduction to Calculus |
| 6. Applications of Trigonometry | |

INSTRUCTIONAL STRATEGIES

Instructional strategies that will be used in this course, but are not limited to are: direct instruction, active participation, graphic organizers, presentation, cooperative learning, probing questions, questioning strategies, student projects, technology, note taking, modeling, flipped instruction, and small group stations.

GRADING & ASSESSMENTS

Your quarter grade is only an indicator of what your final grade might be. Final grades will be made up by 70% tests, 10% homework and 20% quizzes. The semester final will go in the test category.

A 93 to 100%	B 83 to 86%	C 73 to 76%	D 63 to 66%
A- 90 to 92%	B- 80 to 82%	C- 70 to 72%	D- 60 to 62%
B+ 87 to 89%	C+ 77 to 79%	D+ 67 to 69%	F 0 to 59%

Earning Class Points

Summative Assessment – Tests will be 70% of your grade. Some exams maybe be taken online to mimic the college placement exam format, but we will practice online before the assessment. Makeup tests will be used at the teachers discretion and will be administered using mymathlab.com

Formative Assessment (Quiz) – May be announced or unannounced. These will be formative assessments to let you and I know what you have learned. If you perform better on the summative assessment on the same standards than you do on quiz for the unit, the quiz score will be replaced. They will account for 20% of your grade

Daily practice – Assignments will be graded as effort. You will receive up to 2 points per assignment. They will account for 10% of your grade.

Cheating – Cheating will NOT be tolerated. If you are caught cheating, you will receive a 0 for that assignment or test

BEHAVIORAL/ACADEMIC EXPECTATIONS

Respect school property, others and their property, the right of others to learn, the teacher, and yourself

Additional guidelines:

1. Know the student handbook. If it is in there, it applies in here.
2. Take care of personal business between classes.
3. Be in your seat ready to work when the bell rings.

4. Respect yourself, your peers, and the adults in the classroom

ABSENCES

It is up to you to get the assignment that you have missed. If you know you are going to be absent at a future date, see me in advance for your assignments. Assignments will be posted daily, so you need to check with me if absent. Credit for makeup work will be arranged on an individual basis. You may also email me if you are going to miss class and I can give you the assignment. Canvas will be updated frequently to reflect assignments.

You are expected to be in your seat and ready to start class when the bell rings. If you arrive after the bell without a pass you will be considered tardy. Refer to your Senior student handbook for the school's tardy policy.

RESOURCES

There are many resources to further your knowledge in every topic in this course. We will use Canvas to organize information and mymathlabforschool.com to get extra practice.

Remember we are here to help you if you want to be helped. Feel free to see us if any problems arise or you need any extra help. Also the Math LRC is available in _____ for you to get extra help every period of the day. Both precalculus teachers have A study time and students are welcome to get help from their teacher

FAST tutoring is available on Fridays.

COMMUNICATION

The best way to contact me with any questions or concerns is via email. Messages left will be returned as soon as possible. I also update Powerschool after every test or quiz we take within a day or two of the assessment. It is a great way to keep track of your or your grade.