

| Precalculus | | Full Year |
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| Location | Room #208 | |
| Instructor | Mr. Chess | |
| Planning Period | 9th period Phone: (724) 662 -5104 | Parent Teacher Conferences may be scheduled before school from 7:45 to 8:00 or during the planning period. |
| Email | bchess@mercerc.k12.pa.us | |
| Class Website | None | |
| Prerequisites | Algebra II, Geometry | |
| Description | Precalculus is designed to prepare students for success in calculus by becoming comfortable with functions. Students will review power, polynomial, and rational functions before being introduced to trigonometric, exponential and logarithmic functions. Miscellaneous topics will include Law of Sines/Cosines, trig formulas and identities, vectors, counting techniques, binomial expansion and conic sections. Late in the year, students will be introduced to the four components of calculus: limits, derivatives, indefinite integrals and definite integrals. | |
| Texts Used | Advanced Mathematical Concepts (Merrill) | |
| Homework Policy and Philosophy | There will be regularly assigned homework in this class. Successful internalization of concepts requires practice, and there is not enough time in class to complete the necessary practice. Homework will not be collected and graded; however, failure to complete homework assignments will almost certainly result in poor test scores. | Homework Philosophy "The application of homework within almost every learning activity is a valuable means of reinforcement and evaluation. It is the teacher's role to define such assignments and the responsibility of the students to complete them on time. Parents must also assume their responsibility in regard to student homework; therefore, proper communication between the home and the school are vital in establishing assignments, which can significantly contribute to the overall educational process." |
| Grading 96.5 A+ 92.5 A 89.5 A- 86.5 B+ 82.5 B 79.5 B- 76.5 C+ 72.5 C 69.5 C- 66.5 D+ 62.5 D | Your grade in precalculus will be determined by your performance in the following areas: (percentages are approximate) Tests: 50% Quizzes: 50% Late work will be penalized at a rate of 10% per day up to 5 days. Work that is more than 5 days late will not be accepted and will result in a grade of zero. | Academic Integrity "Students caught cheating, plagiarizing, copying homework and/or test, quizzes, and using a paper from the Internet will be given a "o" (zero) on that assignment. In addition, their name will be reported to the office and filed in the event of future violations. Repeated violation could result in removal from class and a non-passing grade." |
| | | When a student is in jeopardy of failing, a progress report will be sent home. This will occur during the 3rd and 6th weeks in |

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| 59.5 D-Below F | | junior high block classes, and any time after the 4th week in other classes. |
| | <u>Click here to open the Mercer GPA Calculator.</u> | |
| Classroom Rules | My classroom rules are: 1. Come to class prepared (homework, notebook, pencil, etc) 2. Contribute to a positive learning environment (ask questions, volunteer, etc) 3. Be respectful of others (classmates, teacher) | Make-Up Work "Students on a pre-approved trip of more than one day will be expected to makeup any work minimally on the second full day upon the student's return up to a maximum of five days. Students are required to get all missed work prior to pre-approved absence. For one day or one period - school related absence (athletics/academic games, etc) - it is the student's responsibility to make up the work upon their return to the classroom. It is recommended that they see the teacher ahead of time to determine what they will miss while they are gone." |
| | | Late to Class "A student who is late to class will be given a verbal warning on the first offense. Additional offenses will result in a discipline referral to the office." |
| Required Materials | notebook (spiral or 3-ring), pencil, scientific calculator (not necessarily graphing) | |
| Additional Help | Students needing additional help should see me as soon as problems occur in order to schedule a time to meet. | Tutoring Extra Assistance is available on a regular basis during after school hours (Tuesdays, Wednesdays, and Thursdays from 3:30 to 4:15) by contacting the Guidance Office at (724) 662-2272. It is the students' responsibility to seek such tutoring if needed. |

| OUTLINE OF MATERIAL COVERED IN THIS CLASS | | |
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| Time | Material Covered During Time Period | Notes |
| 1st Quarter | Power, polynomial, and rational functions | |
| 2nd Quarter | Transcendental Functions | |
| 3rd Quarter | Trigonometry and conic sections | |
| 4th Quarter | Limits, differentiation, and integration | |
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