Baldwinsville Central Schools

MAT 143 Pre Calculus with Triginometry- OCC (4 credits)

2019 - 2020

**Mrs. Hack** [**phack@bville.org**](mailto:phack@bville.org)

**MAT143-751R, MTWTF, 7:36 am – 8:19 am (Period 1)**

**MAT143-751S, MTWTF, 8:28 am – 9:10 am (Period 2)**

**MAT143-753Y, MTWTF, 10:46 am – 11:28 am (Period 6/7)**

There is an ***AUDIT*** option for students that are in precalculus but do not wish to receive credit from Onondaga CC. This means that **ALL** students in the class should complete the registration form for course MAT143 \_\_\_\_. If you wish to receive college credit you should check the **CREDIT** column; if you do not wish receive credit you should check the **AUDIT** column. More information to follow regarding the registration process.

**Office Hours:** The instructor is available for extra help after school on specific days according to a schedule posted at the beginning of each week.

**TEXT:** Bittinger, Marvin et al. Precalculus With Trigonometry; 3rd Edition Boston Ma: Pearson Addison Wesley

**GRADING POLICY**

**Homework** - 5% (assigned and checked daily)

**Quizzes** - 20% (announced and graded class-work)

**Tests** – 75% Accumulation of material learned in each unit

**Final Exam:** For Baker credit, the final exam will be worth 10% of your final grade for all students regardless of OCC credit and all students take the final exam. For OCC credit, the final exam will count 20%.

**Grade conversion:**

**A 93-100 A- 90-92 B+ 87-89 B 83-86 B- 80-82 C+ 77-79 C 73-76**

**C- 70-72 D+ 67-69 D 65-66 F below 65**

**CATALOG DESCRIPTION**

This course is designed to provide the necessary foundation for a standard calculus course. Topics include absolute value and quadratic inequalities, functions and their equations, exponential and logarithmic functions and their applications, right triangle trigonometry, law of sines and law of cosines, trigonometric functions (circular) and their inverses, trigonometric identities and equations, addition and multiple angle formulas, and binomial theorem. Graphing calculator use is required.

**Pre-requisite:**

**For CCN students:** Successful completion of Alg 2 Common Core AND passing of Regents Exam.

**AT OCC:** Grade of C or better in Intermediate Algebra (MAT 114), College Algebra, or Permission of Instructor.

**STUDENT LEARNING OUTCOMES:**

**Required OCC Outcomes (ALL MAT 143 students):**

1. Solve inequalities involving absolute value and factorable quadratics
2. Graph algebraic and transcendental functions and their inverses
3. Solve exponential and logarithmic equations
4. Evaluate right triangle trigonometric functions
5. Evaluate and graph trigonometric functions (circular)
6. Solve trigonometric identities and equations
7. Solve application problems using trigonometry
8. Solve polynomial equations with real and complex solutions

**Additional Outcomes for students taking course at Baker:**

1. Solve matrices by hand and calculator
2. Solve Arithmetic and Geometric Sequence and Series problems
3. Introduction to Interest/Money Problems
4. Introduction to limits solving by graphing and tables along with algebraically

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| **Required OCC Minimum Hourly Coverage for ALL MAT 143 Students:**  Functions and Graphs Polynomial and Rational Functions  Exponential and Logarithmic Functions  Triangle Trigonometry  Discrete Algebra  Trigonometric Functions (circular) and Graphs  Trigonometric Identities and Proofs  Inverse Trigonometric Functions and Trigonometric Equations | 10.5  10.5  8.5  5  3  6  4.5  2 |
| **Additional Topics will be covered for students taking this course at Baker with the hourly coverage determined by Baldwinsville Central Schools** | TBD |

**Academic Integrity Statement:**

In addition to the Baldwinsville Central School District Code of Conduct, this class is governed by the Academic Rules at Onondaga Community College, which state: “Current and prospective students at Onondaga Community College are expected to adhere to the values of intellectual and academic honesty and integrity. Violations of academic honesty will not be tolerated. “Examples/violations include, but are not limited to: cheating, plagiarism.” For more information, please refer to: <http://www.sunyocc.edu/index.aspx?menu=942&id=24576>.

**Attendance Expectations Statement:**

In addition to the attendance policies of the Baldwinsville Central School District, this class is governed by OCC’s attendance expectation statement: Experience demonstrates that regular attendance enhances academic success. Students are expected to attend each meeting of their registered courses, whether taught online or in the traditional classroom setting. Participation in classroom activities such as lectures, films, guest speakers, class discussions, labs, group activities, and online work contributes to student success in college level coursework. Attendance in an online course requires student to demonstrate an active and continued presence in the course through participation in assigned activities such as discussion posts, submissions, written assignments and tests. It is the student’s responsibility to inform the instructor of an anticipated absence ahead of time. Students are responsible for completing any missed work, as allowed by the instructor’s syllabus and/or course outline.

**Statement on Diversity and Inclusion:**

In addition to the diversity and inclusion policies of the Baldwinsville Central School District, this class is governed by OCC’s statement on diversity and inclusion: Onondaga Community College is committed to fostering an inclusive learning environment that facilitates and supports student success. We believe that our campus is enriched and strengthened by diversity along a range of different dimensions. The various perspectives that stem from the multifaceted identities and experiences of our campus community are invaluable assets in the classroom that bring complexity and nuance to the process of critical thinking as well as intellectual and personal growth. We are all vital in promoting and cultivating a culture of respect that honors and affirms the rights, safety, dignity, and worth of every individual.