**College Mathematics**

Catalog #: 10-804-107

**Instructor Information:**

Mr. Hanaway

Room 126

Telephone #: 532-0525 Ext. 6126

Email: Hanaways@wrightstown.k12.wi.us

**Prep Hours/Time to come in for help:**

I am available for help 4th and 7th hours, before school at 7:30 and after school.

**Class Information:**

**Course Description:** This course is an introductory level course designed to review and develop fundamental concepts of arithmetic, algebra, geometry and statistics. Emphasis will be placed on computational skills and applications of rational numbers, problem solving skills with ratios, proportions, and percents; basic principles and applications of algebra, geometry, graphing and statistics; measurement skills in U.S. Customary and Metric systems; and the use of calculators as a tool.

**Credits at NWTC:** 3

**Textbook:** College Mathematics, Custom Edition of the State of Wisconsin by Cheryl Cleaves and Margie Hobbs

**Supplies:** Scientific Calculator (TI-30XS Multiview or TI-30XIIS is recommended)

 Notebook and folder just for this class

 Pencils and pens

**Library Resources:** Supplemental resources are available through the NWTC Library; however, none are specifically required for this course. Students have access to resources from the physical or virtual library at <http://ww.nwtc.edu/library>. The NWTC Library developed a mathematics guide: <http://nwtc.libguides.com/mathematics>. Within that guide, there is a tab with resources specific to College Mathematics.

**Other Resources:** Here are some online references for studying math:

Pre-algebra and algebra; study skills; math anxiety (<http://www.mathpower.com/>)

A supplement to your textbook—highly recommended (<http://www.interactmath.com/>)

Varied math lectures (<http://www.khanacademy.org/>)

Word problems, basic math, and algebra (<http://purplemath.com/index.htm>)

**Math Tutors:** This is a free service for NWTC credit students upon request—an online request form can be found on your my.NWTC student portal page; additional information can be found at <http://www.nwtc.edu/services/advising-counseling/pages/tutoringservices.aspx>.

**Course Competencies:**

You have the opportunity to learn the following skills in this course:

1. Use mathematical concepts, symbols and operations to solve problems
2. Simplify algebraic expressions
3. Solve equations and inequalities
4. Solve applied percent problems
5. Apply geometric definitions and formulas to problems
6. Use measurement (US Customary and Metric) concepts to solve problems
7. Solve right and oblique triangles using trigonometry
8. Graph linear equations and inequalities in two variables
9. Organize data and summarize results
10. Solve probability problems

**Core Abilities:** In addition to specific job-related training, NWTC has identified core abilities that are transferable and go beyond the context of a specific course. This class addresses the following core abilities:

1. Think Critically and Creatively
2. Solve Problems Effectively

**Responsibilities and Policies:**

**Student Responsibilities:** As a student of Wrightstown High School (and NWTC), I expect you to adhere to the policies of the school as outlined by the student handbook. You are responsible for the duties set forth in this class and to communicate any questions, comments or concerns you have to me. Acceptable means of communication include e-mail, face-to-face, or by telephone. Use of correct grammar and punctuation is required in all written communications.

It is expected that you behave in a courteous, respectful and mature manner. This includes: no cell phones in class, no inappropriate language or behavior and no disruptions of the class. Talking while the instructor or other students are at the board is immature and disrespectful and will not be tolerated. You are expected to be to class on time. The 1st tardy for each quarter is a warning and any tardy after that will be given a detention. Each student has a role in maintaining an effective learning environment for all.

Plagiarism, cheating and collusion are prohibited. Students who fail to observe these standards are subject to disciplinary action.

**For each hour in class, you should be spending two hours on this class at home.**

**Use of Electronic Devices:** Please leave cell phones in your lockers. ***Cell phones will not be allowed to be used as a calculator under any circumstances for the exams.*** **Any cell phones that are out will be confiscated and turned in to Mr. Thompson.**

**Instructor Responsibilities:** As your instructor, I commit to communicating openly and frequently with you about this class. I will maintain a professional, safe learning environment adhering to the policies of the school. You can expect a reply to communication, be it e-mail, face-to-face or telephone within 24 hours.

**Grading Policy (total point system):**

**CHAPTER TESTS**

* This course contains fourteen chapter tests (as of right now) which will be given over the course of the year. All tests focus on the specific topics covered since the last test **but they may be cumulative**.
* If you miss the test date, it must be made up within three days (unless there are special circumstances).
* You are not allowed to share calculators during an test
* You cannot leave the room during the test

**Homework Quizzes (24 points each):**

* For each chapter there will be a homework quiz. The questions on the quiz will be taken from the homework problems. The quiz will be open notes/homework (no textbook) but you will only have ten minutes to complete five problems. So if you completed all the homework and checked your answers in the back of the book, you should have a 100%. I will choose questions that are multiple steps and will not accept simply an answer. If you do not do the homework, you will probably not have enough time to complete the problems.
* There will be no makeup homework quizzes.
* At the end of each quarter, I ***may*** decide to drop the lowest homework quiz grade.
* You must show your work to receive full credit—**just listing the answer will result in a score of zero for that question.**

**In-Class Assignments**

* There will be in-class assignments, group projects and activities given throughout the year.
* You will not be able to make up these assignments.
* At the end of each quarter, I ***may*** decide to drop the lowest in-class assignment grade.

**Class participation (10-20 points per chapter):**

* Earn points for participating during lecture by offering answers and/or asking questions
* Earn points for asking questions during work time
* Earn points for asking questions outside of class time.
* Lose points for not being prepared for class (not having all materials for class).
* Lose points for not paying attention during class or inappropriate behavior.

**FINAL EXAM (20% of final grade):**

* This will cover the whole year and will be given the last day of class
* Final Exam is made up by the professors at NWTC.

**Grading Scale:**

 **Percent Attained Grade**

 **90-100 A**

 **80-89 B**

 **70-79 C**

 **60-69 D**

 **0-59 F**

**Syllabus and Schedule Changes:**

As your instructor, I retain the right to make changes based on the timeline of the class, feedback from learners and/or logistical issues and will inform you as soon as a change is made.

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| Week of | Sections Covered |
| 9/1/2015 | Introductions & Chapter 1 |
| 9/7/2015 | Chapter 2 & Test Chapters 1 & 2 |
| 9/14/2015 | Chapter 3 |
| 9/21/2015 | Chapter 3 Test & Sections 4-1 & 4-2 |
| 9/28/2015 | Sections 4-3 & 4-4 |
| 10/5/2015 | Chapter 4 Review & Test |
| 10/12/2015 | Sections 5-1--5-3 |
| 10/19/2015 | Sections 5-4--5-6 |
| 10/26/2015 | Chapter 5 Review & Test |
| 11/2/2015 | Sections 6-1--6-4 |
| 11/9/2015 | Chapter 6 Review & Test |
| 11/16/2015 | Sections 7-1--7-3 |
| 11/23/2015 | Sections 7-4 & 7-5 |
| 11/30/2015 | Chapter 7 Review & Test |
| 12/7/2015 | Sections 8-1--8-3 |
| 12/14/2015 | Chapter 8 Review & Test |
| 12/21/2015 | Sections 9-1 & 9-2 |
| 1/4/2016 | Sections 9-3 & 9-4 |
| 1/11/2016 | Chapter 9 Review & Test |
| 1/18/2016 | Sections 10-1 & 10-2 |
| 1/25/2016 | Sections 10-3 & 10-4 |
| 2/1/2016 | Chapter 10 Review & Test |
| 2/8/2016 | Sections 12-1 & 12-2 |
| 2/15/2016 | Sections 12-3--12-5 |
| 2/22/2016 | Chapter 12 Review & Test |
| 2/29/2016 | Sections 13-1 & 13-2 |
| 3/7/2016 | Sections 13-3 & 13-4 |
| 3/14/2016 | Chapter 13 Review & Test |
| 3/21/2016 | Sections 14-1 & 14-2 |
| 3/28/2016 | Sections 14-3 & 14-4 |
| 4/4/2016 | Chapter 14 Review & Test |
| 4/11/2016 | Sections 15-1 & 15-2 |
| 4/18/2016 | Chapter 15 Review & Test |
| 4/25/2016 | Section 16-4 |
| 5/2/2016 | Section 16-5 & Test 16-4--16-5 |
| 5/9 & 5/16/2016 | Review for Final Exam |
| 5/23/2016 | Review and Take Final Exam |