**MTH 127 College Algebra—Expanded**

**Spring 2015 Sec 209 CRN 4123**

**Instructor:** Nick Bedway

**Office:**  Gullickson Hall 212N (Huntington Campus)

**Office Hours:** By Appointment

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**Required Texts**: *College Algebra* (9th Edition) by Sullivan

**Computer Requirements**: This class requires a graphing calculator. The math department recommends the TI-83/TI-84. This is the calculator I will utilize in class. All electronic communications will be through your Marshall E-Mail. If you use another e-mail service, please have your Marshall e-mail forwarded to that e-mail address.

# University Computing Services’ Acceptable Use Policy: All students are responsible for knowing this policy, which can be found on the web at <http://www.marshall.edu/ucs/cs/acceptable_use.pdf>.

**Course Description**: College Algebra – Expanded Version (5 hours) A brief but careful review of the main techniques of algebra. Polynomial, rational, exponential, and logarithmic functions. Graphs, systems of equations and inequalities, sequences. (PR: MTH 099 or Math ACT 19 or 20) This course is designed to give students a solid understanding of algebra and how it is used. In order to facilitate the students’ use of mathematics in their lives, the graphing calculator will be utilized so that the students can apply the ideas learned in the classroom.

**Course Objectives:** After completing this course, the Student will:

1. Be able to analyze functions and their graphs to gain information.
2. Solve many types of equations both algebraically and with the aid of the graphing calculator.
3. Develop mathematical models to translate problems from the real world into mathematical equations to be solved.
4. Translate mathematical answers from an equation or information from an equation into real world situations.
5. Be prepared for further studies in mathematics

**Academic Honesty**: Students are expected to present their own work on all tests and homework quizzes. Asking questions, discussing solutions with other students —**not copying the work**—is an essential part of the learning process. **Know the difference**. If you have any questions about the policy to be followed, please see pages 70-72 of the 2014-15 undergraduate catalog or go to this webpage: <http://www.marshall.edu/ucomm/files/web/UG_14-15_published.pdf>

**Inclement Weather Policy**: Any announcement about school closings may be found by: announcements on one of the four local FM radio stations: Big Country 99.5, The River 101.5, Sunny 93.1, and The Frog 92.1; check the website [www.marshall.edu/movc](http://www.marshall.edu/movc); or the weather hotline (304) 674-7239.

**Disabled Students**: **IF YOU HAVE ANY DISABILITY** that may prevent you from full participation in any of the activities of this class, please let me know as soon as possible so that arrangements can be made and be sure to register with the Office of Disabled Student Services or with the H.E.L.P program. Accommodations in testing, readers, tutors, and extra help sessions are available, but only after a discussion with the office of D.S.S. or H.E.L.P and me.

**Equal Opportunity/Affirmative Action Policy**: This course will follow Marshall University’s policy on Equal Opportunity/ Affirmative Action, which can be found on p. 67 of the 2014-15 undergraduate catalog or go to this webpage: <http://www.marshall.edu/ucomm/files/web/UG_14-15_published.pdf>. Specifically, all students will be afforded equal opportunity without regard to race, color, sex, religion, age, disability, national origin, or sexual orientation.

**Attendance Policy:** You will gain the most from this course by attending and participating. Therefore, make every effort to come to class and be prepared.

**Homework Quiz Policy:** Homework will be assigned every class meeting. Assignments will be either collected or a quiz will be given over the material.

**Exam Policy:** There will be a total of four in-class exams and one comprehensive final covering the material from the text. The approximate time-frame for these exams is given later in the syllabus. Valid excuses for missing an exam fall into five categories: university-sponsored activities; student illness or critical illness/death in the immediate family; short-term military obligation; jury duty or subpoena for court appearance; or religious holidays. If you miss an exam due to an excused absence, you are allowed to take a makeup test at the instructor’s and your earliest convenience. If you miss a test due to an unexcused absence, you will receive a grade of 0 for that test. By university policy, an unexcused absence from a final exam earns an F in the course (page 91 of the 2014-15 undergraduate catalog). **The final will be on Monday, May 4, 2015 at 6:30 pm in our classroom (Rm. ).**

**Evaluation/Measurement of Learner Outcomes** Course Activities 16.0%, 160 points

Exams (1 @ 10%, 3 @ 18% each) 64.0%, 640 points

Final 20.0%, 200 points

Total 100.0%, 1000 points

**Assessment Evaluation Methods:**

* Sixteen course activities assignments worth 10 points each. Homework will be problems assigned. Computer assessments will be multiple choice and short answer questions. The course grade will be computed using the exact point scores.
* Four exams will be evaluated by multiple choice questions and written questions. Letter grades will be assigned for each exam, but the course grade will be computed using the exact point scores, not by averaging letter grades.
* A final exam will be evaluated by multiple choice questions and written questions. Letter grades will be assigned for the exam, but the course grade will be computed using the exact point scores, not by the letter grade.

**Grading Policy:** Grades will be assigned according to the following scale:

90 – 100%, 896 –1000 points **A** 60 – 69 %, 596 – 695 points **D**

80 – 89 %, 796 – 895 points **B** 59 – 0%, 0 – 595 points **F**

70 – 79 %, 696 – 795 points **C**

**Dissemination of Announcements and Additional Course Information:** The instructor of this course will make every effort to disseminate all information pertinent to the class during the normal class meetings; however, times arise when it is necessary to disseminate information outside the normal meeting times. The instructors, in this case, will use the Marshall University E-mail system to disseminate any pertinent information to the student. The student is expected to check his/her email twice daily.

Tentative Weekly Schedule

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week | **Date** | **Topic** | Week | **Date** | **Topic** | Week | **Date** | **Topic** |
| **1** | Jan 12  Jan 14 | Introduction and R.1  R.2, R.3, R.4 | **6** | Feb 16  Feb 18 | 2.1, 2.2, 2.3  2.4, 3.1 | **11** | Mar 30 Apr 1 | **Exam 3**  5.2, 5.3 |
| **2** | Jan 19  Jan 21 | **No Class, MLK Day**  R.5, R.6 | **7** | Feb 23  Feb 25 | Review for Exam 2  **Exam 2** | **12** | Apr 6  Apr 8 | 5.5, 5.6  6.1, 6.2 |
| **3** | Jan 26  Jan 28 | R.7, R.8  Review for Exam 1 | **8** | Mar 2  Mar 4 | 3.2, 3.3  3.4, 3.5 | **13** | Apr 13  Apr 15 | 6.3, 6.4  6.5, 6.6 |
| **4** | Feb 2  Feb 4 | **Exam 1**  1.1, 1.2 | **9** | Mar 9  Mar 11 | 3.6, 4.1  4.2, 4.3, 4.4 | **14** | Apr 20  Apr 22 | Review for Exam 4  **Exam 4** |
| **5** | Feb 9  Feb 11 | 1.3, 1.4, 1.5  1.6, 1.7 | **10** | Mar 23  Mar 25 | 4.5, 5.1  Review for Exam 3 | **15** | Apr 27  Apr 29 | 6.8, 8.1  Review for Final |

Important Dates

**January 12-**First Day of Classes  
  
**January 12 – January 16-**Late Registration  
  
**January 19-**University Closed, Martin Luther King, Jr. Day  
 **January 20 -**“W” Withdrawal Period Begins  
  
**March 9-**Freshmen Mid-Term Grades Due  
  
**March 16 – March 20-Spring Break, Classes Dismissed  
  
March 23 -** Classes Resume  
  
**March 27-**Last Day to Drop a Full Semester Individual Course

**March 30 – May 1-Begin Complete Withdrawals Only  
  
April 27 – May 1-**“Dead Week”  
  
**May 1-**Last Day to Completely Withdraw  
  
**May 4-Final Exam**