

Syllabus

MTH 127 College Algebra—Expanded Spring 2017 Sec 215 CRN 3926

Instructor: Nick Bedway
Office: Gullickson Hall 212 (Huntington Campus)

Office Hours: By Appointment
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Required Texts: *College Algebra, 2nd Edition* Paul Sisson ISBN: 978-1-932628-27-2 (textbook)
College Algebra with Integrated Review ISBN: 978-1-944894-98-6 (with e-book only)

Computer Requirements: This class requires access to the Hawkes Learning System. All students must purchase a code. This class also requires a scientific calculator. The math department recommends the TI-30 (any of the TI-30 family is acceptable, but TI-34 or 36 are not). 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/academic-affairs/policies/#UCS>.

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: Math ACT 19 or MTH 102 or MTH 102B) 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.

Courses that have MTH 127 as a prerequisite:

- MTH 122 – Trigonometry, MTH 132 – Pre-Calculus, MTH 140 - Applied Calculus
- CHM 111, CS 110, CI 248, ENGR 221 IST 420/421, PS 109, PHY 101
- Graduation requirement for College of Business

| Course Student Learning Outcomes | How students will practice each outcome in this Course | How student achievement of each outcome will be assessed in this Course |
|---|---|---|
| Identify and implement appropriate solution methods for single-variable equations | Online homework, written assignments, in-class activities | Course exams and final |
| Identify and graph standard algebraic functions | Online homework, written assignments, in-class activities | Course exams and final |
| Interpret graphs of functions | Online homework, written assignments, in-class activities | Course exams and final |
| Construct functions to model applications | Online homework, written assignments, in-class activities | Course exams and final |
| Communicate written mathematics using appropriate notation and explanation in English | Online homework, written assignments, in-class activities | Course exams and final |

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 73-74 of the 2016-17 undergraduate catalog or go to this webpage: http://www.marshall.edu/catalog/files/UG_16-17_published_08-25-16.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; 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

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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. 70 of the 2016-17 undergraduate catalog or go to this webpage: http://www.marshall.edu/catalog/files/UG_16-17_published_08-25-16.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, unexcused absences from three or more classes will result in an F. Attendance will count as 5% of your grade. Students must provide evidence to justify a University Excused Absence on the first day you return to class.

Homework Assignment Policy: Homework will be assigned every class meeting. Online homework assignments will also be assigned and need to be completed by the due dates in the assignments. The lowest 5 homework grades will be dropped.

Exam Policy: There will be a total of three 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 94 of the 2016 – 17 undergraduate catalog). **The final will be on Monday, April 30, 2018 at 6:30 pm in our classroom (Rm. 126).**

Evaluation/Measurement of Learner Outcomes

| | |
|-----------------------------|--------|
| Online Homework Assignments | 20.0% |
| Attendance | 5.0% |
| Desmos | 5.0% |
| Quizzes | 5.0% |
| Exams (3 @ 15% each) | 45.0% |
| Final | 20.0% |
| Total | 100.0% |

Hawkes Mastery-based Homework: Each textbook section corresponds to at least one homework (Certify) section in the Hawkes learning system. To sign in, go to learn.hawkeslearning.com and follow the onscreen prompts to enter your code.

Many assignments have prerequisite sections that must be completed prior to attempting the assignment. These prerequisites are review and reinforcement of mathematical topics that support the material you are learning in class. They are listed on the course schedule as "Prep work" and you should read through the "Learn" screens and attempt the assignments prior to the lab day they are assigned for.

Grading Policy:

| | |
|---|----------|
| Grades will be assigned according to the following scale: | |
| 90 - 100% | A |
| 80 - 89% | B |
| 70 - 79% | C |
| 60 - 69% | D |
| 59% & below | F |

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.

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Tentative Weekly Schedule

| Week | Date | Topic | Week | Date | Topic | Week | Date | Topic |
|------|---------------|---|------|---------------|--|------|---------------|---|
| 1 | Jan 8 | Introduction Hawkes LPC 1.1 Hawkes LPC 3.1 Desmos | 6 | Prep Work Due | 4.R.4 | 11 | Mar 26 | Hawkes LPC 6.1 Hawkes LPC 4.5 Desmos |
| | Prep Work Due | 1.R.2 2.R.1 2.R.2 | | Feb 12 | Hawkes LPC 2.3 Hawkes LPC 3.6 Desmos | | Mar 28 | 4.5, 4.6 |
| | Jan 10 | 1.1, 3.1, 2.1 | | Feb 14 | 3.6, 4.1, 4.2 | | | |
| 2 | Jan 15 | MLK, Jr. Day | 7 | Prep Work Due | 1.R.4 | 12 | Apr 2 | Review for Exam 3 Desmos |
| | Prep Work Due | 4.R.1 4.R.2 | | Feb 19 | Hawkes LPC 4.1 Hawkes LPC 4.2a Desmos | | Apr 4 | Exam 3 7.R.1 7.R.2 |
| | Jan 17 | 2.1, 2.2, 3.2 | | Feb 21 | 4.2a, 4.3, 2.6 | | | |
| 3 | Prep Work Due | 4.R.3 Hawkes LPC 3.2 Hawkes LPC 3.3 | 8 | Feb 26 | Desmos Review for Exam 2 | 13 | Prep Work Due | 7.R.3 |
| | Jan 22 | Hawkes LPC 2.1 ab Hawkes LPC 2.2 Desmos | | Feb 28 | Exam 2 | | Apr 9 | Review Exam 3 Hawkes LPC 7.1 Hawkes LPC 7.2 |
| | Jan 24 | 3.3, 3.4 | | Prep Work Due | 6.R.2 Hawkes LPC 4.2b Hawkes LPC 4.3 | | Apr 11 | 7.1, 7.2, 7.3 |
| 4 | Jan 29 | Desmo Review for Exam 1 | 9 | Prep Work Due | 6.R.3 Hawkes LPC 2.4 | 14 | Prep Work Due | 8.R.1 |
| | Jan 31 | Exam 1 | | Mar 5 | Review Exam 2 Hawkes LPC 4.4 Desmos | | Apr 16 | Hawkes LPC 7.3 Hawkes LPC 7.4 Desmos |
| | Prep Work Due | 5.R.1 | | Mar 7 | 4.4, 2.4, 5.1 | | Apr 18 | 7.4, 7.5, 8.1 |
| 5 | Prep Work Due | 5.R.3 1.5 | 10 | Prep Work Due | 6.R.1 Hawkes LPC 2.5 | 15 | Apr 23 | Hawkes LPC 7.5 Desmos Review for Final Exam |
| | Feb 5 | Review Test 1 Hawkes LPC 5.R.2 Hawkes LPC 1.6 Desmos | | Mar 12 | Desmos Hawkes LPC A.1 Hawkes LPC A.2 Hawkes LPC A.4 | | Apr 25 | Review for Final Exam |
| | Feb 7 | 1.6, 2.3 | | Mar 14 | 5.2, 5.4, 2.5, 6.1 | | | |

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Important Dates

January 8 - First Day of Classes

January 8 – January 12 - Late Registration

January 15 - University Closed, Martin Luther King, Jr. Day

January 16 - “W” Withdrawal Period Begins

February 26 – Freshmen/Sophomore Mid-Term Grades Due

March 16 - Last Day to Drop a Full Semester Individual Course

March 19 – March 24 - Spring Break

March 26 - Classes Resume

April 23 – April 27 - “Dead Week”

April 27 - Last Day to Completely Withdraw

April 30 - Final Exam

Getting Started with Hawkes

In a web browser, navigate to learn.hawkeslearning.com. Click on Create an Account. Choose the appropriate option “I have an Access Code”, “I want to Purchase Access”, or “I want to request Temporary Access” and press Continue.

Use your name and email as officially recorded with Marshall University. In particular, enter your Marshall email address **@live.marshall.edu**. Select product “College Algebra with Integrated Review”. Select your instructor (Nicholas Bedway) and section (Section 215). Verify your email as instructed.

Technical Assistance

Students requiring technical assistance with the Hawkes software should contact Hawkes directly by phone at 800-426-9538 or 843-571-2825, Monday – Friday 8:30am – 10:00pm ET, or by live chat at www.hawkeslearning.com/chat, any time 24/7.