1. GOALS OF THE COURSE: The primary purpose of College Algebra is to improve your skills and competency in algebra so that you will be successful in calculus, the other math courses required for your major, and in the courses that use mathematics. Another goal is to help you develop your mathematical learning skills so that you will be more confident in future mathematical courses.

2. LEARNING OUTCOMES: After completing Math 143, the student should be able to:
   - Solve linear equations, quadratic equations, equations that are quadratic in form, rational equations, exponential equations, and logarithmic equations
   - Solve polynomial and rational inequalities
   - Determine the domain of polynomial functions, rational functions, root functions, exponential functions, and logarithmic functions
   - Understand the concept of composite functions, one-to-one functions, and inverse functions
   - Use synthetic division, the remainder theorem, the factor theorem, the fundamental theorem of algebra, and the intermediate value theorem to determine the zeros of polynomial functions
   - Sketch the graphs of basic functions using transformations including polynomial functions, root functions, absolute value functions, rational functions, exponential functions and logarithmic functions
   - Use critical thinking skills to solve word problems which include maximizing/minimizing problems in economics, physics, and geometry

3. REQUIRED STUDENT MATERIALS

MATH 143 FALL 2017 COURSE NOTEBOOK: Must be purchased at the U of I Bookstore. Students will be required to bring this course notebook to class and to the Polya Mathematics Center.

MyLabsPlus ACCESS CODE: Students must purchase a MyLabsPlus Access Code at the U of I Bookstore or purchase a code online using a credit card when registering your homework account.

MyLabsPlus TEMPORARY ACCESS: Temporary Access is available to all students who are having difficulty purchasing their Access Code in a timely manner. Temporary Codes only last a short time, so students must make every effort to obtain their normal MyLabsPlus Access Code as quickly as possible. To gain Temporary Access, you must do the following:
   2. Sign in. Your username is your U of I email address; ie, joevandal@vandals.uidaho.edu. Your password is the last five digits of your Student ID number.
   3. Click on your course
   4. Accept the license agreement and choose Pay Later
   5. Make note of the expiration date of the Temporary Access, and make sure to purchase your regular Access Code before the Temporary Access Code expires.
STUDENT COMPUTER ACCOUNT: All students need a computer account. If you need help with your login information, go to University ITS.

VANDAL CARD: You will need your Vandal card in order to take an exam in the Polya Math Center.

HEADPHONES: Headphones are needed to listen to the video lectures at the computers.

TI 30xIIS CALCULATOR: You will need this calculator to work on some problems from the assignments, quizzes and/or tests. This is the ONLY calculator allowed when testing.

4. GRADE CALCULATION

In-Class Notebook Quiz: Max 44 points
(4 points per class meeting; one class meeting dropped)
- There will be an in-class notebook quiz each week. You will be asked to turn in specific pages of your notebook or you will participate in another in-class activity as determined by your instructor. Make sure to bring your notebook to class. In-class notebook quizzes are worth 4 points. The work that you submit must be completely filled out and correct to earn your 4 points. The only possible scores are 0 or 4 points.
- Notebook pages must be completely filled out prior to the beginning of class. All appropriate work must be shown to obtain credit.
- You must turn in only your own notebook pages. You cannot have another student turn them in if you are absent.
- If you arrive to class after the notebook quizzes have been collected, then you will not be allowed to turn them in, and you will receive 0 points for the notebook quiz for the week.
- Note that it usually takes up to three business days for Notebook Quiz scores to be posted. If your class meets on a Friday, the scores may not be posted until the following Wednesday.
- Grade sheets are included in your notebook for each week of the semester. You may be asked to submit the information or the page of grade calculations for any given week (except week 1) as part of the notebook quiz for that week.

Polya Lab Attendance: Max 40 points (See the page immediately following the syllabus for more details)
(4 points per week; one week dropped)
- Students will earn 4 points/week for attending the Polya Mathematics Center for at least 150 minutes (Note: 149 minutes = 0 points).
- Students who are not working on mathematics while attending the Polya Mathematics Center may be asked to leave and will automatically receive 0 points for the week.

Homework: 100 points
(There are 11 homework assignments; one will be dropped)
- Students will earn up to 10 points for every homework assignment.
- There will be a homework assignment in MyLabsPlus every non-test week, due the night before the student’s class meeting. There may be prerequisite questions about course policies and procedures associated with assignments. Prerequisite questions must be answered in order to access graded work.
- To receive help in the Polya Lab, students must demonstrate that they have first completed the appropriate pages of their course notebook.
Quizzes: 100 points
(There are 11 quizzes; one will be dropped)
- Students will earn up to 10 points for every quiz. There will be a quiz in MyLabsPlus every non-test week, due the night of the student’s class meeting.
- Students must earn at least 90% on the corresponding homework assignment before the quiz becomes available. Students will not be able to open the quiz and will therefore receive 0 points if a 90% is not achieved on the corresponding homework assignment.
- Quizzes may be worked up to 10 times; only the highest score will count.

Tests: 300 points
(3 tests worth 100 points each)
- There will be three tests throughout the semester, each worth 100 points. The last day to take a computer test will be the day BEFORE the student’s class meeting.
- The computer portion of each test will be proctored in the Polya Lab; written tests will take place in class. You must have a valid Vandal card or government-issued photo ID to test in the Polya Lab. If you do not bring a photo ID to your written test, you will be required to sign your test, there will be a 10 point penalty, AND you must bring a photo ID to the staff at the Polya Lab within two business days. If you do not bring an approved photo ID within two business days, then your written test grade will be recorded as a zero.
- Students must receive at least 60% on the corresponding practice test before their first attempt on each test.
- Students will have the opportunity to take each computer test up to 3 times with only the highest score counting toward the test grade. Students may only take one test per day. If a student takes more than one test per day, then only the lowest test score for that day will count.
- Each test has two parts: a computer portion which is taken in the Polya Lab, and a written portion which is taken during your class meeting. Tests are worth 100 points, which are calculated as: 80% of the best computer score + the written score. For example, suppose you took the computer portion of Test 1 three times and received a 60, 75, and 89 out of 100. You then took your written test and received a 19 out of 20. Your total point score for Test 1 would be 0.8*89+19, or 90.2.
- Early written tests must be requested by email through Polya Web at least 24 hours or one business day (whichever is greater) before you wish to take the test. Your instructor will determine whether you are eligible to take an early test.
- Makeup tests will only be given for students with a valid excuse (see Section 10 below).

Final Exam: 150 points
- There will be one comprehensive final exam worth 150 points during Finals Week.
- Time and location of the final exam will be announced during class.
- Students should not make travel arrangements until after the last day of Finals Week.
Total: 734 points

<table>
<thead>
<tr>
<th>Grade Component</th>
<th>Points for Each</th>
<th>Number</th>
<th>Total Points Possible</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Homework</td>
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</tr>
<tr>
<td>Quiz</td>
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<td>11</td>
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</tr>
<tr>
<td>Notebook Quiz</td>
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<td>12</td>
<td>44</td>
<td>Lowest Dropped</td>
</tr>
<tr>
<td>Polya Time</td>
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<td>11</td>
<td>40</td>
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<tr>
<td>Test</td>
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</tr>
<tr>
<td>Final</td>
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<td>150</td>
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<tr>
<td>Total Points for Course</td>
<td></td>
<td></td>
<td>734</td>
<td></td>
</tr>
</tbody>
</table>

Students have the opportunity to earn up to 10 points of extra credit: All students are allowed access to this Extra Credit Assignment. The Extra Credit Assignment will be due on the last day of the semester prior to Finals Week.

You should check your in-class notebook quiz scores and Polya time commitment on the course web page each week to verify that they are correct.

Your course grade will be based on the total number of points that you have earned as follows:

661 points guarantees an A

587 points guarantees a B

514 points guarantees a C

440 points guarantees a D

When adding up your points, remember to drop your lowest non-test scores!

5. TIMING

In most three credit college courses the average student spends 9 to 12 hours per week to be successful in the course. In traditional courses, students spend 3 hours in a lecture and 6 or more hours working alone, usually doing homework assignments and studying. In this course, you will spend one hour in a classroom setting (attending a class meeting), and as much time as you need participating in Polya activities per week. We require that 2.5 of those additional hours be spent with us in the Polya Center where some of our best resources are available to you, but you are always welcome to spend more—many of our students report that they like to spend all their math time in the Polya Center where tutors are available. You will receive credit toward your final grade for conscientiously attending class and putting in the 2.5 hours a week in the Polya Center. Most successful Polya students report spending between 6 and 9 hours a week on math but this varies a great deal by student.
6. POLYA MATHEMATICS CENTER HOURS OF OPERATION

<table>
<thead>
<tr>
<th>Computer Lab</th>
<th>Testing Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday – Thursday 8a - 11p</td>
<td>Monday – Thursday 9a - 11p*</td>
</tr>
<tr>
<td>Friday 8a - 5p</td>
<td>Friday 9a - 5p*</td>
</tr>
<tr>
<td>Saturday 12n - 5p</td>
<td>Saturday 12:30 - 5p*</td>
</tr>
<tr>
<td>Sunday 12n - 8p</td>
<td>Sunday 12:30 - 8p*</td>
</tr>
</tbody>
</table>

(*Latest start times 90 minutes prior to closing to guarantee test completion. Best testing times are in the morning to ensure a computer.)*

Sat. & Sun. testing only available the weekend before the test deadlines.

REVIEW SESSIONS: There are 9 review sessions given each week. See the white board in the Polya Center or the review session schedule for times and locations.

7. COMMUNICATIONS AND EMAIL

Announcements about the course, special sessions, changes in schedules or procedures, and so forth, will be made in your class, on the Polya web page and by e-mail. You are expected to check your University e-mail regularly.

The best way to communicate with your teacher is to speak to them in person during their office hours or when they are working in the Polya Lab. Office hours will be posted once the semester begins.

All emails must be sent through the email form located at: https://sites.uidaho.edu/polyaweb/Login . Any emails sent without using this form will not be read.

All emails must follow standard grammar and punctuation rules. Any email which fails to adhere to these standards will be returned to you for revision. Emails should also follow basic email etiquette. Any emails that violate the student code of conduct regarding respect of others will be sent to the Dean of Students as appropriate.

8. THE STUDENT WITH SPECIAL NEEDS

We are committed to accommodate students with special needs. Reasonable accommodations are available for students who have documented temporary or permanent disabilities. All accommodations must be approved through Disability Support Services currently located in the Idaho Commons Building, Room 306 (will be moving to the Pitman Center Room 127 sometime this fall) in order to notify your instructor(s) as soon as possible regarding accommodation(s) needed for the course. Contact information:

- (208) 885-6307
- email at dss@uidaho.edu
- website at www.uidaho.edu/dss
9. ACADEMIC HONESTY

Polya students are expected to maintain Academic Honesty in all their work. Collaboration is encouraged on many assignments such as homework, and tutors are available to assist you with this kind of work. However, your teacher may assign other work or quizzes that should be completed independently. Copying another student’s work on any assignment, homework or quiz is considered cheating. All tests and the final exam are considered individual work and must be completed without unauthorized assistance of any kind, including the help of other students, tutors, notes, or any calculator other than the TI 30xIIS. All test materials and scratch paper are to be turned in with the test paper and attempting to bring test work out of the testing area and/or share that work with other students is considered cheating.

The University of Idaho has defined acceptable behavior in the Student Code of Conduct Article II.A-1 – Academic Dishonesty [rev. 7-98, 7-05, 7-14, ed. 7-09]. The following summarizes relevant points related to your math course:

- Because academic honesty and integrity are core values at a university, the faculty finds that even one incident of academic dishonesty may merit expulsion.
- Cheating on classroom or outside assignments, examinations, or tests is a violation of this code.
- Plagiarism, falsification of academic records, falsification of records and the acquisition or use of test materials without faculty authorization are considered forms of academic dishonesty and, as such, are violations of this code.
- Instructors and students are responsible for maintaining academic standards and integrity in their classes. Consequences for academic dishonesty may be imposed by the course instructor. Such consequences may include but cannot exceed a grade of "F" in the course.

(The full text of the Student Code of Conduct may be found at http://www.uidaho.edu/DOS/judicialaffairs/studentcodeofconduct/Studen%20Code%20of%20Conduct)

10. ASSIGNMENT/TEST EXTENSIONS

Make up work for assignments missed because of absence will not be allowed unless an arrangement with the instructor is made prior to the absence, or in cases of medical or family emergency, in which case documentation of the emergency will be required. Documentation must be provided within two business days of the assignment’s due date, not to exceed the Friday before final exam week. Bring appropriate documentation to your instructor during their office hours.

If ongoing illness or other circumstances fitting the catalog definition of an excused absence prevent you from bringing documentation for your absence within two business days, then each additional delay must also be documented and the documentation for the delay must be presented with the documentation for the original absence. (See University Catalog under General Requirements and Academic Procedures, section M for details about absences.)

Field trips and official student travel require preparation and notification in advance of departure. See the catalog for details.

Note that students will be granted only one extension per semester without documentation on a homework assignment and its accompanying weekly computer quiz. Use your extension wisely. Proper documentation will always be required to make up a test or an in-class notebook quiz. IF YOU ARE HEALTHY ENOUGH TO BE ON CAMPUS ON THE DAY THAT A TEST OR NOTEBOOK QUIZ IS DUE, THEN A DOCTOR’S NOTE WILL NOT BE ALLOWABLE AS AN EXCUSE. The deadline to request an extension is 4pm the Friday before finals week, and extension due dates will not exceed 11:59 pm the Friday before finals week, unless warranted by extenuating circumstances.
A valid doctor’s note will be written on letterhead from the doctor’s office, will be dated and signed, contain the dates for which the student is excused, and will contain a disclaimer indicating that schools are authorized to verify the information contained in the note.

Problems with your personal computer or internet connection are not grounds for an extension. When using a personal computer, it is highly recommended to use Firefox as your browser. Chrome is NOT recommended. If an extension is granted, the length of the extension will be determined by the number of days listed on the documentation.

11. SUMMARY OF EXPECTATIONS FOR STUDENT PERFORMANCE

- Purchase notebook on or before the first day of class
- Register for software on or before the first day of class
- Complete every page of the notebook
- Complete homework as outlined in the course calendar
- Check your University of Idaho email at least one time every day
- Be on time and prepared for class and pay attention for the entire class period
- Bring the course notebook to class, with appropriate pages completed for the day
- Accurately complete notebook materials
- Attend the Polya Mathematics Center for 150 minutes (2 ½ hours) each week
- Take each computerized test three times (or until at least 90% is achieved on one of the attempts)
- Take each written test during the designated course period
- Keep track of my grades by using the grade summary sheet distributed on the first day of class
- Maintain Academic Honesty in all my work
- Fill out grade sheet at the beginning of each week

12. SUMMARY OF EXPECTATIONS FOR INSTRUCTOR

- Be on time and prepared for class
- Be prepared to present upcoming material and answer student questions
- Respond to emails during business hours (Note: It may take more than one day to research and respond to an email. I will check my email at least once during each business day.)
- Establish office and Polya hours
- Be available during designated office and Polya hours
- Grade notebook quizzes and make them available for student pickup (may not be available immediately)
- Help students with math in the Polya center