

Iowa Lakes Community College

Math for Liberal Arts

Spring, 2016

Course Number

MAT 110 — Sections 221 (0063624 – Emmetsburg), 222 (0063625 – Estherville), 223 (0063616 – Algona), 224 (0063627 – Spirit Lake), 225 (0063628 – Spencer)

Instructor

David Burrow

- E-Mail: davidmburrow@yahoo.com (preferred method of contact)
- Alternate E-Mail: burrowd@bishopgarrigan.org
- Phone/FAX: 515/295-5285
- Cell Phone/Voice Mail/Text: 515/341-3763
- Internet: <http://www.davidmburrow.com/mla.html> (Note this is **not** an E-Companion page. However, notes and assignments from the class will be archived here.)

Schedule

Spring, 2016

- Wednesday nights, 6:00 – 8:55pm – starting January 13, 2016
- The class is taught over the ILCC TV system, originating from the Algona campus.

Credit

3 semester hours

Prerequisites

Appropriate scores on one of ILCC's mathematics placement tests are necessary for admission.

Transferability

This is a general education mathematics course. Students who intend to transfer to a four-year college should check with the admissions office and/or math department at their college regarding what transfer credit is given for this class.

Catalog Description

This is a general survey course which includes sets; number systems; elementary algebra; exponents; equations and inequalities; fractions; ratios; proportion and variation; probability and statistics; elementary graphing; consumer mathematics; and an introduction to geometry.

General Description

In this course you will review algebra, study problem-solving methods, and explore a variety of topics in advanced mathematics. The course is intended to give a basic background into the many uses of mathematics in the everyday world.

Book

Blitzer, Robert. *Thinking Mathematically*. 6th Edition, 2015. (ISBN 978-0-321-86732-2). No workbooks or other materials are necessary.

Calculator

A graphing calculator, such as the TI-84 (\$80 - \$100) is recommended for this class. For those planning to continue to other ILCC math courses, such a calculator is essential. However, for the problems necessary for this class can be completed successfully with a scientific calculator (\$10 - \$20). The Android app "wabbitemu" is an excellent TI-84

emulator. This is available free from the Google Play store. You may wish to download this for your phone. You will also need to download a calculator skin (also free) from TI. (Wabbitemu is also available for Windows computers, phones, and tablets, and for Macintosh computers. Unfortunately it is not available for I-phone.)

Other Supplies

You will need to take organized notes almost every day, and you will want writing materials to do this. A small supply of graph paper may be useful for some problems. In addition, you may find it useful to have a ruler and/or protractor.

Assignments

You will be given suggested assignments most days in class. While these will not be turned in for a grade, it is suggested that you do the problems. We will go through most of the assigned problems in class.

Class Participation

About 15% of your grade will be based on class participation. This includes your attendance, how well you pay attention, whether you do the daily assignments, and how well you participate in class activities. Unless you call attention to yourself in a negative way, it is assumed that everyone will do well in this.

Attendance & Quizzes

We will have brief quizzes every week in class after the first week, each of which is worth 10 points. Part of the point of these quizzes is to track your attendance, and **no make-ups of quizzes are allowed**. ONE quiz score (which may be an absence) will be dropped. All quizzes together will count for about 15% of your grade.

Tests

You will be given four tests over the course of the semester. We will review in class before each test. By the nature of the course, each test will to some extent be cumulative, reviewing what came before. Tests will be graded on a straight points basis, with all tests (including the final) worth approximately the same number of points. The final will not specifically be cumulative, but by the nature of the course it will include material you have learned before. The tests as a whole will account for 70% of your grade.

Grades

The standard ILCC grading scale applies:

- A = 90% +
- B = 80% +
- C = 70% +
- D = 60% +
- F = 59% –

Pluses and minuses are not recorded on ILCC grades. There is generally no "extra credit" in this class.

Weather Cancellation

In the event of cancellation due to severe weather, the college will announce any cancellations on area radio stations and on the ILCC website—<http://www.iowalakes.edu>. Listen for any announcements.

Attendance

As stated earlier, class participation (which includes attendance) will account for 25% of your overall grade. After the first two absences, your class participation grade will be lowered for additional absences. If special circumstances come up, you must visit with the instructor to make arrangements. While attendance is not a formal part of your grade, you will find it much easier to do well if you attend regularly. Tests must be taken when scheduled unless you make prior arrangements.

Overall Goals

1. Understand basic problem-solving and critical thinking techniques.
2. Apply basic concepts of set theory.
3. Classify numbers into sets.
4. Know and apply the properties of real numbers.
5. Use algebra to solve mathematics problems.
6. Understand percent and its applications to consumer and business problems.
7. Classify basic geometric shapes.
8. Use geometric formulas to find perimeter, area, and volume.
9. Use and apply right triangle trigonometry.
10. Understand counting and probability techniques.

Dates to Note

Unless there are cancellations due to weather, these will be the test dates for the class:

- **February 10**
 - TEST #1
- **March 9**
 - TEST #2
- **March 16**
 - SPRING BREAK
- **April 13**
 - TEST #3
- **May 11**
 - TEST #4

REMEMBER: There will be brief quizzes every week after the first week.

Also note:

- Last day to register or change registration (Full Term Course) = Tues, Jan 26

STUDENT ACADEMIC HONESTY POLICY

Iowa Lakes Community College believes that personal integrity and academic honesty are fundamental to scholarship. Iowa Lakes strives to create an environment where the dignity of each person is recognized and an atmosphere of mutual trust exists between instructors and students. The faculty have confidence in the integrity of the students and encourage students to exercise good judgment in fulfilling this responsibility.

Actions contrary to academic integrity will not be tolerated. Activities that have the effect or intention of interfering with learning or fair evaluation of a student's work or performance are considered a breach of academic integrity. Examples of such unacceptable activities include, but are not limited to:

- **Cheating** (intentionally using or attempting to use unauthorized material, assistance or study aids in my academic work). For example, using a cheat sheet for a test, looking at another student's paper during an exam, stealing or buying all or parts of an exam or paper, altering and resubmitting work for a better grade without prior approval to do so, etc.
- **Plagiarism** (representing another's ideas, words, expressions or data in writing or presentation without giving proper credit, failing to cite a reference or failing to use proper documentation, using works of another gained over the Internet and submitted as one's own work).
- **Falsification and/or misrepresentation of data** (submitting contrived or made-up information in any academic exercise). For example, making up data, citing non-existent sources, etc.
- **Facilitating Academic Dishonesty** (knowingly helping or attempting to help another violate any provision of the academic honesty policy). For example, working together on a take-home exam or other assignment when the option has not been made available, giving a paper/assignment to another student for his/her use, etc.
- **Multiple Submissions** (submitting, without prior approval from the instructor involved, any work submitted to fulfill academic requirements in another class). For example, submitting the same paper for two different classes, etc.
- **Unfair Advantage** (trying to gain unauthorized advantage over fellow students). For example, gaining or facilitating unauthorized access to exam materials (past or present); interfering with another student's efforts in an academic exercise; lying about the need for an extension on a paper or assignment; destroying, hiding, removing or keeping library materials, etc.

Disciplinary Action

Any violation of this policy will be treated as a serious matter. The instructor has primary responsibility over classroom behavior and maintaining academic integrity. Depending on the nature and severity of the offense, Iowa Lakes Community College reserves the right to exercise disciplinary action as outlined in the Disciplinary Action Section of the Student Handbook.

Americans with Disabilities Act – Policy of Nondiscrimination

It is Iowa Lakes Community College policy to not discriminate against qualified individuals with disabilities and to provide reasonable accommodation(s), as required by law, to otherwise qualified applicants for admission or to students with disabilities in all education programs, activities, services and practices, including application procedures, admissions, course selection, the awarding of degrees, discipline and dismissal. Educational opportunities will not be denied to an otherwise qualified application or student because of the need to make reasonable accommodation(s) or modification(s) for the physical and mental impairment(s) of any such individual.

Iowa Lakes Community College students needing reasonable accommodation(s) and/or modification(s) should contact Linda Helmers by phone at (712) 852-5216 or (712) 362-8364 or via email at lhelmers@iowlakes.edu. To assure that accommodation(s) and/or modification(s) will be ready when classes start, students must make the request as soon as possible, before a semester begins.

It is the policy of Iowa Lakes Community College not to discriminate on the basis of sex, race, national origin, creed, age, marital status or disability in its education programs, activities, or employment policies, as required by Titles VI and VII of the 1964 Civil Rights Act, Title IX of the 1972 Educational Amendments, Section 504 of the Federal Rehabilitation Act of 1973 and Title II of the Americans with Disabilities Act (ADA) of 1990.

Inquiries regarding compliance with Title IX, Title VI, Title VII, or Section 504 may be directed to Kathy Muller, Human Resources, Iowa Lakes Community College, 19 S. Seventh Street, Estherville, IA 51334, telephone (712)362-0433; to the Director of the Iowa Civil Rights Commission, Des Moines; or to the Director of the Region VII Office of Civil Rights, Department of Education, Kansas City, Missouri.