MATH 82, ALGEBRAIC FOUNDATIONS
4 Credits (CRN 64229)
MWF 10:00-11:15am, Mana’opono Room 101

INSTRUCTOR: Matthew Radio
OFFICE: Mana’opono 110A
OFFICE HOURS (times students may drop in for help): Monday-Thursday 9:00 – 10:00am
TELEPHONE: (808) 236-9276
EMAIL: mradio@hawaii.edu

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai‘i and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide the Ko‘olau region of O‘ahu and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

CATALOG DESCRIPTION

MATH 82 covers elementary algebra topics. Topics include linear equations and inequalities, graphing, linear systems, properties of exponents, operations on polynomials, factoring, rational and radical expressions and equations, quadratic equations, and applications. (4 hours lecture)

Pre-Requisite(s): Satisfactory Placement, or a Grade of "C" or better in Math 21, Math 21B, Math 24, Math 28, or Math 75X.

Co-Requisite(s): None

STUDENT LEARNING OUTCOMES

As a result of taking this course, students can expect to attain the following outcomes:

- Use algebraic techniques to analyze and solve applied problems
- Graph linear and quadratic equations
- Solve equations, inequalities, and systems
- Utilize precise mathematical language and symbols to effectively communicate mathematics in written and/or oral form
COURSE CONTENT

Concepts or Topics

- Linear Equations and Inequalities in One Variable
- Linear Equations and Inequalities in Two Variables
- Functions
- Systems of Linear Equations
- Exponents and Polynomials
- Factoring and Applications
- Rational Expressions and Applications
- Roots and Radicals
- Quadratic Equations

Skills or Competencies/Responsibilities of Students. Success in this course will be enhanced by:

1. a positive, inquiring attitude towards mathematics;
2. setting aside adequate time for studying and working of problems;
3. reading the text carefully and making use of other learning materials whenever necessary;
4. seeking assistance from the instructor and the Math Lab personnel whenever necessary;
5. completing assignments by the designated date;
6. regular class attendance, participation and maintaining accurate class notes.

COURSE TASKS

1. HOMEWORK: Homework is assigned online via MyMathLab. It is your responsibility to check MyMathLab for assignments and deadlines. The lowest two homework scores will be dropped at the end of the semester. No late work will be accepted.

2. QUIZZES: A short quiz will be given in class approximately once per week. The quiz will be announced at least one class in advance. You must be present to take the quiz. No make ups will be allowed. The lowest two quiz scores will be dropped at the end of the semester.

3. UNIT EXAMS: There will be five midterm exams each covering specific chapters in the textbook. Exam 1 covers chapters 2 and 3; Exam 2 covers chapters 4 and 5; Exam 3 covers chapter 6; Exam 4 covers chapter 7; and Exam 5 covers chapters 8 and 9.

4. FINAL EXAM: There will be one cumulative final exam at the end of the course during finals week.

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Homework</td>
<td>10%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10%</td>
</tr>
<tr>
<td>Midterm Exams</td>
<td>12% each</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
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Notes:

- **CALCULATORS ARE NOT ALLOWED** for quizzes or exams.
- If you are unable to attend class on an exam day, discuss your situation with me as soon as possible **before** the exam day. It may be possible for you to take the exam earlier than the specified day/time.
- If you unexpectedly must be absent on an exam day, notify me by 3:00pm via voicemail or email. If the reason is justified then a make-up exam will be scheduled.
- For each student, no more than one make-up exam may be taken.
- Students must attain a minimum 70% on each unit exam and a minimum 60% for the final exam to be able to earn a grade of C or better for this course.
- After each chapter test, a unit retest deadline will be given. One retest is allowed without penalty for each unit exam if it is done by the specified retest deadline. Students needing a retest can earn a **MAXIMUM** score of 70% (60% on the final). No retests will be given after the unit retest deadline. Retests are arranged by appointment with your instructor.
  - To take a retest, all of the following must be met:
    - a) The student must complete a written assignment to be determined by the instructor.
    - b) The student must meet with the instructor to review mistakes made on the first form of the test taken.
    - c) The retest must be taken by the designated unit retest deadline.
- The student must achieve a minimum of 60% of the possible points for the final exam. Without this minimum requirement, a passing grade for the course is not possible.
- Retesting for the final exam is available if the 60% minimum is not met, but the 70% minimum per unit test was already met. The maximum score of the retest is 60% of the possible points for the final exam.

If the student has achieved a minimum of 70% of the possible points for each unit test and a minimum of 60% of the possible points for the final exam, then a letter grade for the course will be assigned according to the level of achievement as provided in the table below:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Definition</th>
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<tbody>
<tr>
<td>A</td>
<td>90% - 100% of the cumulative points possible</td>
</tr>
<tr>
<td>B</td>
<td>80% - 89% of the cumulative points possible</td>
</tr>
<tr>
<td>C</td>
<td>70% - 79% of the cumulative points possible</td>
</tr>
<tr>
<td>D</td>
<td>60% - 69% of the cumulative points possible</td>
</tr>
<tr>
<td>F</td>
<td>Less than 60% of the cumulative points possible</td>
</tr>
<tr>
<td>N</td>
<td>See below</td>
</tr>
<tr>
<td>CR</td>
<td>70% or above of the cumulative points possible</td>
</tr>
<tr>
<td>NC</td>
<td>Less than 70% of the cumulative points possible</td>
</tr>
<tr>
<td>W</td>
<td>Official Withdrawal</td>
</tr>
<tr>
<td>I</td>
<td>See below</td>
</tr>
</tbody>
</table>

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The N grade: The N grade indicates that the student has worked conscientiously, attended class regularly, finished all work, fulfilled course responsibilities, and has made measurable progress. However, either the student has not achieved the minimal student learning objectives and is not yet prepared to succeed at the next level, or the student has made consistent progress in the class but is unable to complete the class due to extenuating circumstances, such as major health, personal, or family emergencies. Requests for the N grade must be submitted by the student and is contingent upon the instructor’s approval.

CR/NC grades require written instructor consent. Students must apply for CR/NC grading option at the Admissions Office by the posted deadline. If a student does not apply for CR/NC grading option at the Admissions Office by the required deadline and if s/he does not withdraw, a letter grade (A, B, C, D, F, N) will be assigned for the course.

The W grade is given only when the student officially withdraws from the course by the posted deadline.

The I grade is a temporary grade given at the instructor’s option when a student has failed to complete a small part of a course because of circumstances beyond his or her control. A student may qualify for the I grade if (a) they are unable to take the final exam and (b) taking the final exam could possibly raise their course grade. The I grade is given only after a student’s request and the instructor’s approval.

LEARNING RESOURCES

Textbook: *Beginning Algebra, 11th ed.,* by Lial, Hornsby, & McGinnis
Optional: My WorkBook by Beverly Fusfield.

- **Option 1:** Buy the new printed textbook from the bookstore with an Access Code for MyMathLab included.
- **Option 2:** Buy access to MyMathlab directly online and get the e-book included. Go to [www.mymathlab.com](http://www.mymathlab.com) and use the instructor course ID below.

**MyMathLab:** Instructor Course ID radio12142

Supplemental Learning Resources:

- Brainfuse: [http://windward.hawaii.edu/Brainfuse/](http://windward.hawaii.edu/Brainfuse/)
- OLA (UH online tutoring program): [http://manoa.hawaii.edu/ola/](http://manoa.hawaii.edu/ola/)
- Wolfram Alpha: [http://www.wolframalpha.com](http://www.wolframalpha.com)
- Khan Academy Videos: [http://www.khanacademy.org](http://www.khanacademy.org)

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**ADDITIONAL INFORMATION**

- I am available to help during office hours. Stop by just to chat about the class or to clear up difficult concepts.
- Daily Homework: Students should come to each class prepared. Read the chapters ahead of time.
- It is your responsibility to attend class. If you are absent, you are responsible for any important announcements or assignments given during the class you missed. Check your UH email, the Laulima class website, and MyMathLab for announcements regularly.
- Please respect your fellow students and act accordingly. Cell phones must be silenced when entering the classroom.

**DISABILITIES ACCOMMODATIONS**

If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class. Ann Lemke can be reached at 235-7448, lemke@hawaii.edu, or you may stop by Hale ‘Ākoakoa 213 for more information.

**TITLE IX**

Title IX prohibits discrimination on the basis of sex in education programs and activities that receive federal financial assistance. Specifically, Title IX prohibits sex discrimination; sexual harassment and gender-based harassment, including harassment based on actual or perceived sex, gender, sexual orientation, gender identity, or gender expression; sexual assault; sexual exploitation; domestic violence; dating violence; and stalking. For more information regarding your rights under Title IX, please visit: https://windward.hawaii.edu/Title_IX/.

Windward Community College is committed to the pursuit of equal education. If you or someone you know has experienced sex discrimination or gender-based violence, Windward CC has resources to support you. To speak with someone confidentially, contact Karla Silva-Park, Mental Health Counselor, at 808-235-7468 or karlas@hawaii.edu or Kaahu Alo, Designated Confidential Advocate for Students, at 808-235-7354 or kaahualo@hawaii.edu. To make a formal report, contact the Title IX Coordinator at 808-235-7393 or wcctix@hawaii.edu.
ACADEMIC INTEGRITY

Work submitted by a student must be the student’s own work. The work of others should be explicitly marked, such as through use of quotes or summarizing with reference to the original author.

Students can upload papers to http://www.TurnItIn.com to have papers checked for authenticity, highlighting where the paper potentially fails to appropriately reference sources.

In this class, students who commit academic dishonesty, cheating or plagiarism will have the following consequence(s):

   Students will receive a failing grade for plagiarized assignments.
   Students may automatically fail the course.

All cases of academic dishonesty are referred to the Vice Chancellor for Student Affairs.

ALTERNATE CONTACT INFORMATION

If you are unable to contact the instructor, have questions that your instructor cannot answer, or for any other issues, please contact the Academic Affairs Office:

Location: Alakai 121
Phone: 808-235-7422
Email: wccaa@hawaii.edu
## Course Calendar (subject to Change)

<table>
<thead>
<tr>
<th>Week of</th>
<th>Monday</th>
<th>Wednesday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 20</td>
<td>Orientation, Ch. 1, 2.3</td>
<td>2.4, 2.5</td>
<td>2.6, 2.7</td>
</tr>
<tr>
<td>August 27</td>
<td>2.8, 3.1, 3.2</td>
<td>3.3, 3.4</td>
<td>3.5, 3.6</td>
</tr>
<tr>
<td>September 3</td>
<td>No Class (Labor Day)</td>
<td>Chapter 2 and 3 Review</td>
<td>EXAM #1</td>
</tr>
<tr>
<td>September 10</td>
<td>4.1</td>
<td>4.2, 4.3</td>
<td>4.4</td>
</tr>
<tr>
<td>September 17</td>
<td>5.1, 5.2</td>
<td>5.3, 5.4</td>
<td>5.5</td>
</tr>
<tr>
<td>September 24</td>
<td>5.7</td>
<td>Chapter 4 and 5 Review</td>
<td>EXAM #2</td>
</tr>
<tr>
<td>October 1</td>
<td>6.1</td>
<td>6.2, 6.3</td>
<td>6.4</td>
</tr>
<tr>
<td>October 8</td>
<td>6.5</td>
<td>6.6</td>
<td>Chapter 6 Review</td>
</tr>
<tr>
<td>October 15</td>
<td>EXAM #3</td>
<td>7.1</td>
<td>7.2</td>
</tr>
<tr>
<td>October 22</td>
<td>7.4</td>
<td>7.5</td>
<td>7.6</td>
</tr>
<tr>
<td>October 29</td>
<td>7.7</td>
<td>Chapter 7 Review</td>
<td>EXAM #4</td>
</tr>
<tr>
<td>November 5</td>
<td>8.1</td>
<td>8.2, 8.3</td>
<td>8.4</td>
</tr>
<tr>
<td>November 12</td>
<td>No Class (Veterans Day)</td>
<td>8.5, 8.6</td>
<td>8.7</td>
</tr>
<tr>
<td>November 19</td>
<td>9.1</td>
<td>9.3</td>
<td>No Class (Thanksgiving)</td>
</tr>
<tr>
<td>November 26</td>
<td>9.5</td>
<td>Chapter 8 and 9 Review</td>
<td>EXAM #5</td>
</tr>
<tr>
<td>December 3</td>
<td>Review for Final</td>
<td>Review for Final</td>
<td>No Class (Study Day)</td>
</tr>
<tr>
<td>December 10</td>
<td>FINAL EXAM</td>
<td>12/10/18 10am-12pm</td>
<td></td>
</tr>
</tbody>
</table>

- September 11, 2018: Last Day to Withdraw without a "W" Grade
- October 29, 2018: Last Day to Withdraw with a "W" Grade
- October 29, 2018: Last Day to Establish credit/no-credit and audit options

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