MATH 103 – COLLEGE ALGEBRA (4 Credits)

INSTRUCTOR: Jody-Lynn Storm
OFFICE: Mana’opono 110A
OFFICE HOURS: MTThF 12:00 pm – 12:30 pm and by appointment
TELEPHONE: 236 – 9281
EMAIL: jstorm@hawaii.edu
EFFECTIVE DATE: Summer 2011

<table>
<thead>
<tr>
<th>CRN</th>
<th>DAYS</th>
<th>MEETING TIMES</th>
<th>CLASSROOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>62031</td>
<td>MTThF</td>
<td>10:00 am – 11:50 am</td>
<td>Mana’opono 114</td>
</tr>
</tbody>
</table>

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

Windward Community College is committed to excellence in the liberal arts and career development; we support and challenge individuals to develop skills, fulfill their potential, enrich their lives, and become contributing, culturally aware members of our community.

CATALOG DESCRIPTION

Linear equation, inequalities, systems of equations, polynomial functions, fractional expressions and equations, exponents, powers, roots, quadratic equations and functions; rational, exponential and logarithmic functions. (4 hrs. lecture)

PREREQUISITES: Grade of "C" or better in Math 25 or equivalent, satisfactory placement test score, or consent of instructor.

WCC: FS

Foundation Hallmarks

Math 103 fulfills 3 credits of the General Education requirements (Foundations: Symbolic) for both an A.A. degree at WCC and a Bachelor’s degree at UH Manoa and UH West Oahu. Consequently, it meets the following hallmarks of the symbolic reasoning requirement

1. Students will be exposed to the beauty, power, clarity and precision of formal systems.

2. Instructors will help students understand the concept of proof as a chain of inferences.

3. Instructors will teach students how to apply formal rules or algorithms.

4. Students will be required to use appropriate symbolic techniques in the context of problem solving, and in the presentation and critical evaluation of evidence.

5. The course will not focus solely on computational skills.

6. Instructors will build a bridge from theory to practice and show students how to traverse this bridge.
STUDENT LEARNING OUTCOMES

1. Demonstrate proficiency in writing math expressions into different forms.

2. Employ algebraic techniques to find the solutions to equations and/or inequalities, using complex numbers where appropriate.

3. Use algebraic techniques to analyze and solve applied problems.

4. Interpret equations geometrically and use geometrical information to obtain the equation of lines and circles.

5. Utilize introductory function concepts and draw the graphs of selected functions.

6. Utilize the definition of a logarithm and the properties of logarithms to simplify logarithmic expressions or to solve logarithmic and exponential equations.

7. Demonstrate proficiency in solving systems of linear and second degree equations and inequalities.

8. Utilize precise mathematical language and symbols to effectively communicate mathematics in written and/or oral form.

Note: All SLO assessments are embedded in class activities, homework, quizzes, and/or Exams.

LEARNING RESOURCES

REQUIRED TEXT: College Algebra, 9th ed. A custom edition for WCC by Gustafson and Frisk

OPTIONAL MATERIAL: Student Solutions Manual for College Algebra, 9th ed. by Gustafson and Frisk

MATH LAB: Mana’opono 113

THE TESTING CENTER (TTC): Alaka’i 106 - phone number 235 – 7498

COURSE TASKS & GRADING

Grades for this course are based on the following:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>4 exams @100 pts</td>
<td>400 pts</td>
<td>(50% of possible pts)</td>
</tr>
<tr>
<td>Course activities</td>
<td>200 pts</td>
<td>(25% of possible pts)</td>
</tr>
<tr>
<td>Final Exam</td>
<td>200 pts</td>
<td>(25% of possible pts)</td>
</tr>
<tr>
<td>Total</td>
<td>800 pts</td>
<td></td>
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</tbody>
</table>
Course activities include, but are not limited to, homework problems, in-class activities, and binder points.

Each 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>
</tr>
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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>
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<tr>
<td>CR</td>
<td>70% - 100% of the cumulative points possible</td>
</tr>
<tr>
<td>NC</td>
<td>Less than 70% of the cumulative points possible</td>
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<tr>
<td>W</td>
<td>Official Withdrawal</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete - given when a student has failed to complete a SMALL part of the course due to circumstances beyond his/her control.</td>
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</table>

Note: 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) will be assigned for the course.

Note: W grade is given only when the student officially withdraws from the course at the Admissions Office by the posted deadline.

Additional Information

1. ABSENCES:
   It is your responsibility to attend class. If you are absent, you are still responsible for the material missed, including announcements and assigned homework. Frequent absences can negatively affect your grade.

2. MAKE-UP POLICY:
   If you unexpectedly must be absent on exam day, notify me by email or voicemail by 4:00 pm. Be sure to state the reason for the absence. If no notification is received by 4 p.m. on the exam day or if the reason is not justified, then you will receive a 0 for the exam. If notification is received and the reason is justified, then a make-up exam will be scheduled. The instructor has the right to determine if the reason for the absence is justified and to request documentation of the student’s absence.

   There are no make-up opportunities for missed homework, graded in-class activities, or other graded course activities.
3. **CALCULATORS:**
Calculators are not allowed for exams, but may be used for homework.

4. **FINAL EXAM:**
The final exam is cumulative.

5. **HOMEWORK:**
Read the sections to be covered in a class session prior to that class session. Based on what you understood from your reading, you should do as many of the homework problems from those sections as you can. Those problems and concepts that you do not understand or need further clarification should be asked about on the day the section is discussed in class. **You may need to do more than the assigned homework problems to become comfortable with the concepts and skills.**

Assigned homework problems are due the next class period, unless specified otherwise, and the points earned count toward the course activities portion of your grade.

6. **GRADING:**
To receive full credit for problems done on exams and graded homework, you must show sufficient work neatly and in a clear and organized manner. It helps me determine where your errors are (hence, you might be able to obtain partial credit) and if you are logically applying the mathematical tools learned to solve the given problem.

7. **RETESTS:**
There are NO RETESTS for this course.

8. **CELL PHONES:**
Please silence your cell phone before the start of class.

9. **HELP:**
If you are encountering problems, see the instructor or SI immediately. If a crisis comes up that interferes with the class, let me know.

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**DISABILITIES ACCOMMODATION STATEMENT**
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](mailto:lemke@hawaii.edu), or you may stop by Hale ‘Akoakoa 213 for more information.
# TENTATIVE SCHEDULE - MATH 103

## SUMMER 2011 – STORM

MTRF 10:00 am - 11:50 am

<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
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<tbody>
<tr>
<td>JUN 6</td>
<td>Orientation 0.1, 0.2</td>
<td>JUN 7</td>
<td>0.3, 0.4</td>
</tr>
<tr>
<td>JUN 13</td>
<td>1.1</td>
<td>JUN 14</td>
<td>1.2</td>
</tr>
<tr>
<td>JUN 20</td>
<td>1.4, 1.5</td>
<td>JUN 21</td>
<td>1.5, 1.6</td>
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<tr>
<td>JUN 27</td>
<td>1.8, 2.1</td>
<td>JUN 28</td>
<td>Exam 2 Review EXAM 2 (1.3-1.8, 2.1)</td>
</tr>
<tr>
<td>JUL 4</td>
<td>No Class Holiday</td>
<td>JUL 5</td>
<td>2.4, 7.1</td>
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<tr>
<td>JUL 11</td>
<td>3.2, 3.5</td>
<td>JUL 12</td>
<td>3.5, 3.6</td>
</tr>
<tr>
<td>JUL 18</td>
<td>4.3</td>
<td>JUL 19</td>
<td>4.5</td>
</tr>
<tr>
<td>JUL 25</td>
<td>6.7, 7.4</td>
<td>JUL 26</td>
<td>Exam 4 Review EXAM 4 (Ch4, 6.1 6.7,7.4)</td>
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## IMPORTANT DATES

- **06/07/2011** Last day to receive 100% tuition refund
- **06/13/2011** Last day to receive 50% tuition refund
- **06/13/2011** Last day to drop (No "W" on transcript)
- **06/29/2011** Last day to withdraw from class ("W" on transcript)