MATH 135 – COLLEGE ALGEBRA (3 Credits)

INSTRUCTOR: Jody-Lynn Storm
OFFICE: Mana’opono 110A
OFFICE HOURS: TTh 10:00 am – 11:30 am
WF 12:30 pm – 1:30 pm
And by appointment
TELEPHONE: TBA
EMAIL: jstorm@hawaii.edu
WEBSITE: www.jodystorm.com
EFFECTIVE DATE: Fall 2010

<table>
<thead>
<tr>
<th>CRN</th>
<th>DAYS</th>
<th>MEETING TIMES</th>
<th>CLASSROOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>60355</td>
<td>MWF</td>
<td>8:05am – 9:20am</td>
<td>Mana’opono 102</td>
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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

An analysis of elementary functions. A study of polynomial, rational, exponential, and logarithmic functions. Topics also include graphing techniques, transformations, applications, and related topics. Emphasis is placed on topics that will prove useful to students planning to take Calculus and also to those who are interested in pursuing math related careers. (3 hrs lecture)

PREREQUISITES: Grade of "C" or better in Math 103, or Math 27, or equivalent, or satisfactory placement test score, or consent of instructor.

WCC: FS

LEARNING RESOURCES & MATERIALS


REQUIRED CALCULATOR: TI-83, TI-83+, TI-84, or TI-84+ calculator.

MATH LAB: Mana’opono 113

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

1. Demonstrate proficiency in writing math expressions into different forms and finding the solutions to an equation and inequality using complex numbers where appropriate, by applying formal rules or algorithms

2. Use appropriate symbolic techniques (such as algebraic techniques) to analyze and solve applied problems, and in the critical evaluation of evidence.

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

4. Utilize function concepts.

5. Draw the graphs of functions utilizing behavior information and/or transformations.

6. Utilize precise mathematical language and symbols to effectively communicate mathematics in written and/or oral form and in the presentation of evidence.

7. Traverse the bridge from theory to practice by using theorems related to polynomial functions and demonstrate proficiency in working with polynomial functions.

8. Apply concepts and properties of the logarithm functions.

9. Understand the concept of proof as a chain of inferences by doing some proofs.

Foundation Hallmarks

Math 135 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. 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.
**Course Goals**

1. To provide the student with mathematical skills and with an understanding of functional concepts which are prerequisite for further studies in mathematics, business and/or the sciences.

2. To cultivate and enhance the student’s mathematical reasoning ability.

3. To extend the student's frame of reference in comprehending and applying mathematical concepts.

4. To nurture the growth of the student's problem-solving ability.

5. To promote awareness and appreciation for the role of mathematics in contemporary society.

**Responsibilities of Students**

Success in this course will be enhanced by:

1. A positive, inquiring attitude toward mathematics;

2. Setting aside *enough* time for studying, working on problems and thinking about the material;

3. Reading the text carefully, making use of other learning materials whenever necessary and taking class notes;

4. Seeking assistance from the instructor and whenever necessary;

5. Regularly attending class. In case of an absence, obtaining all assignments and completing them by the designated date.

**Suggested Basic Skills**

Good study skills and habits; Competency with College Algebra.

**Activities Required at Scheduled Times Other Than Class Times**

Homework; possibly in-class work; quizzes; exams; consultation with instructor.

It is expected that students spend, at the minimum, 9 hours per week outside of class time studying and doing homework and readings for this class.
COURSE TASKS & GRADING

Grades for this course are based on the following:

<table>
<thead>
<tr>
<th>Task</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>(Approximately 57% of possible pts)</td>
</tr>
<tr>
<td>Course activities</td>
<td>150 pts</td>
<td>(Approximately 21% of possible pts)</td>
</tr>
<tr>
<td>Final Exam</td>
<td>150 pts</td>
<td>(Approximately 21% of possible pts)</td>
</tr>
<tr>
<td>Total</td>
<td>700 pts</td>
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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>
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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>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>
</tr>
<tr>
<td>N</td>
<td>See Below</td>
</tr>
<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>
</tr>
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N Grade Definition: 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.

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, borrow a classmate's notes and copy them for the day you were absent. You are responsible for those topics, examples, and important announcements on the day of your absence. If you are absent frequently or for an extended period of time, contact the instructor as soon as you can to discuss your situation. Frequent absences can negatively affect your grade.

2. MAKE-UP POLICY:

If you are unable to attend class on an exam day, discuss your situation with the instructor 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 THE INSTRUCTOR BY 4 p.m. ON THAT EXAM DAY. LEAVE A VOICE MAIL MESSAGE or send an email message (jstorm@hawaii.edu). 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:

The TI-83, TI-83+, TI-84, or TI-84+ calculator may be allowed on some exams. You may use a lower model TI graphing calculator, however you may not use higher models such as the TI-89 or the Nspire as they have added features which are not allowed on exams.

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. 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. Seek further assistance from the instructor if you are still having difficulties even after the class discussion of the topic.
Complete, review, and analyze all of the homework problems to get a better understanding of the material. **You may need to do more than the assigned homework problems to become comfortable with the concepts and skills.** To succeed in mathematics, you must do problems and become comfortable at using the skills and properties.

Assigned homework problems are due the next class period unless otherwise specified and the points earned count toward the course activities portion of your grade. Homework must be turned in **on time and at the beginning of the class**, unless otherwise specified. You may turn in your homework before the due date and/or time without losing points.

Course activities may also include other activities such as in class problems, group activities, extra credit assignments, etc.

6. **GRADING:**

To receive full credit for problems done on exams, quizzes or graded homework, you must show sufficient work 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. Your work must be neat and organized. "Messy" and/or disorganized work will not receive full credit.

7. **RETESTS:**

There are NO RETESTS for this course.

8. **HELP:**

Your instructor is your primary human resource for help when you are lost or having trouble. Seek help immediately if you are encountering problems. See the instructor during office hours, make an appointment, email or call. Don't wait too long to get help!!

If a crisis comes up that interferes with the class, communicate with your instructor in a timely manner.

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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, or you may stop by Hale ‘Akoakoa 213 for more information.