MATH 100 SURVEY OF MATHEMATICS
3 Credits
January 11- May 11, 2016

INSTRUCTOR: Kimlynne Lee Slagel
OFFICE: via Laulima Chat Room
OFFICE HOURS: Sunday 7:00-8:00 PM, Tuesday 8:00-9:00 PM or by appointment
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EFFECTIVE DATE: January 2016

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 introduction to quantitative and logical reasoning for the non-science/non-mathematics majors. The question, “What is mathematics?” is explored, while focusing on mathematical systems or models, cultivating an appreciation for mathematics as an aesthetic art, and developing skills in problem solving and analysis.

Activities Required at Scheduled Times Other Than Class Times

1. Completion of problem sets including those assigned online.
2. Manipulation of a scientific or graphing calculator.
3. Reading textbook in conjunction with weekly lectures.

Student Learning Outcomes

The student learning outcomes are:

1. Constructing diagrams that will facilitate the visual conception of a phenomenon or problem.
2. Utilizing basic properties and/or operations related to Set Theory, Logic, Statistics, Linear and Quadratic functions and Counting methods.
3. Employing symbolic/mathematical techniques to solve applied problems.
4. Utilizing precise mathematical language and symbols to effectively communicate mathematics in written and/or oral form.

Foundation Hallmarks

1. The student 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 on solely on computational skills.
6. Instructors will build a bridge from theory to practice and show students how to traverse this bridge.

**Course Tasks**

The mode of instruction will be focusing on problem solving, logical and analytical thinking. The new material will be introduced by the instructor in every lecture, and then the student will apply the new material to textbook problem sets. However, the goal for this procedure is not just getting the correct answer but to build the ability to explain how to obtain the solution and why the solution is correct. Students will be expected to work both independently and cooperatively in small groups.

**Assessment Tasks and Grading**

The student will demonstrate competency in the course objectives via weekly problem sets completed online using MyMathLab, Midterms and the Final Exam. All exams are to taken at a UH approved testing center. Grades will be determined by the following weighted categories.

- MyMathLab Problem Sets: 15%
- Midterms (4)/Final Exam: 85%

The overall semester grade is determined by the following scale.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage of Total Points Possible</th>
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<tbody>
<tr>
<td>A</td>
<td>90-100%</td>
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<tr>
<td>B</td>
<td>80-89%</td>
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<tr>
<td>C</td>
<td>70-79%</td>
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<tr>
<td>D</td>
<td>60-69%</td>
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<td>F</td>
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<td>Cr</td>
<td>70-100%</td>
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<tr>
<td>NC</td>
<td>below 70%</td>
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<tr>
<td>W</td>
<td>Official withdrawal (must meet March 29, 2016 deadline)</td>
</tr>
<tr>
<td>I</td>
<td>“I” grade will be given only to students who are achieving passing grades and are very close to completing the course. In addition, the student must have a very good reason for not being able to complete all the work on time. Grade related excuses are unacceptable. Examples of extreme or unusual circumstances include a certified medical reason or a death of an immediate family member.</td>
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**Learning Resources and Materials**


Calculator (Scientific or Graphing) No specific make or model is required, however the instructor is best versed in the use of the Texas Instrument brand (Graphing TI-83, 84, or TI Nspire) and most
scientific calculators.

### Additional Information

**Expectations**

- Students will select a testing center he/she will use to complete ALL midterms and final exam. For a list of approved testing centers, go to [http://www.hawaii.edu/dl/testcenters](http://www.hawaii.edu/dl/testcenters).
- Students are responsible for arranging individual testing appointments with his/her chosen testing center.
- Students will have ONE opportunity to make up a missed midterm.
- All make up midterms will be written during the last week of instructions (May 2-6).
- Because of time constraints, no make-ups are available for missed Midterm 4 or the Final Exam. (Exceptions may be made on a case-by-case basis and must be approved by the instructor in advance.)
- All midterms must be taken during the weeklong period outlined on the course schedule. The exam schedule may be found on Laulima.