MATH 100-SURVEY OF MATHEMATICS
3 Credits
Online Course

INSTRUCTOR: Kimlynne Lee Slagel
OFFICE: Mana’opono 110A
OFFICE HOURS: (Face-to-Face conferences) Monday, Tuesday 5:00-5:30 PM Wednesday 6:45-7:15 PM
TELEPHONE: 236-9281 (office), 221-7507 (text msg)
EMAIL: kimlynne@hawaii.edu (questions asked via email will be answered within 24 hours of submission)
EFFECTIVE DATE: August, 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

Although this course is online, Mid-terms and the Final Exam must be written at one of the institutions listed on http://www.hawaii.edu/dl/testcenters.

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 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, in-class activities, and exams. Exams are to taken within the classroom environment without any references unless otherwise stipulated by the instructor. Grades will be determined by the following weighted categories.

<table>
<thead>
<tr>
<th>Task</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>Problem Sets</td>
<td>30% (of semester grade)</td>
</tr>
<tr>
<td>Midterms (2) and Final Exam</td>
<td>70% (of semester grade)</td>
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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>
</tr>
<tr>
<td>B</td>
<td>80-89%</td>
</tr>
<tr>
<td>C</td>
<td>70-79%</td>
</tr>
<tr>
<td>D</td>
<td>60-69%</td>
</tr>
<tr>
<td>F</td>
<td>below 60%</td>
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<tr>
<td>CR</td>
<td>70-100%</td>
</tr>
<tr>
<td>NC</td>
<td>below 70%</td>
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<tr>
<td>W</td>
<td>Official withdrawal (must meet October 30, 2014 deadline)</td>
</tr>
<tr>
<td>N</td>
<td>The “N” grade indicates that the student has worked conscientiously, attended class regularly, and finished all work, fulfilled course responsibilities, and has made measurable progress. However, either the student has not archived 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.</td>
</tr>
<tr>
<td>I</td>
<td>The “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...</td>
</tr>
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</table>
death of an immediate family member.

**Learning Resources and Materials**

**REQUIRED MATERIALS:**

- MyMathLab (MML) an Access Code required
  - Register online at [http://www.mathxl.com/login_mml.htm](http://www.mathxl.com/login_mml.htm). Use course ID: slagle91887
  - *Thinking Mathematically* 6th ed, by Robert Blitzer and its student solution manual are included with the purchase of MML.

- 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 specifically the models, TI-30a, TI-30XS, TI-83, TI-84 family or TI NSpire CX).

**Additional Information**

- **Expectations**
  
  Students must pace their studies in a timely manner in order to prepare for the scheduled mid-terms and final exam.

  All mid-terms and the final exam must be written in the prescribed time-framed outlined in the course calendar.

  All mid-terms and the final exam will be taken at the testing center identified by the individual student at the beginning of the semester.

  Students are to complete all problems sets with material covered in the upcoming mid-term/final BEFORE the day of the exam. Assignments will NOT be available to complete for credit after the midterm.

  Students must seek out additional help via email or during the instructors office hours stated above. Each campus offers additional tutoring services. It is the student’s responsibility to find out what services are provided by his/her home campus.