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, 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>Class Activity</th>
<th>Weighted % of Final Grade</th>
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</thead>
<tbody>
<tr>
<td>Class Activity</td>
<td>Weighted 5% of Final Grade</td>
</tr>
<tr>
<td>Problem Sets</td>
<td>Weight 15% of Final Grade</td>
</tr>
<tr>
<td>2 Exams, Final Exam</td>
<td>Weighted 80% of Final Grade</td>
</tr>
</tbody>
</table>

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>
</tr>
<tr>
<td>W</td>
<td>Official withdrawal (must meet March 28, 2011 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>
</tr>
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**Learning Resources and Materials**

Thinking Mathematically, 6th Ed, by Robert Blitzer (note new textbooks purchased at WCC Bookstore include an access code to MyMathLab)
MyMathLab: [https://portal.mypearson.com/login](https://portal.mypearson.com/login) (note: MyMathLab access code comes with an e-book, so if you prefer, you may purchase just the MyMathLab access code for approximately $95)

Course Name: Math 100 Summer 2016  Course ID: slage187641
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 (TI-83, 84, or TI Nspire).

Math Lab: La‘akea 226 – free drop-in tutorial assistance

The Testing Center (TTC): La‘akea 228 – phone number 235-7498

Additional Information

- **Expectations**
  Students are to conduct themselves in a polite adult manner. Cell phones should be silenced during class lectures.

  Students are to complete all problems sets in a timely manner. Late homework will be graded with a maximum of 70% of the total points possible. Homework submitted after the unit is completed will not be awarded points.

  Students are encouraged to participate in class discussions, as this is an intricate part of learning the nuances of mathematics.

- **Exams**
  Students are to inform the instructor if he/she cannot attend class on a scheduled exam date. Students must email or call the instructor BEFORE the missed class session to schedule a make up exam. Make up exams will be written at The Testing Center (TTC), La‘akea 228, during unscheduled class time.

- **Attendance**
  Regular attendance is essential to the student’s success in the class. For this reason, class activities will count 5% towards the semester grade.

Disruptive Behavior

**Disruptive Behavior** leads to a loss of learning time. Examples include ringing cell phones, texting messages, making offensive remarks, packing books before class is over, making noise, leaving class early, coming to class late, sleeping in class, chattering excessively, reading other materials not relevant to this class, etc. If a student takes part in disruptive behavior, the instructor reserves the right to exclude the student immediately from the class meeting, and will be marked absent.

**Remember that class time is learning time. Be respectful of others and their learning time.**

Additional Information

1. **ABSENCES:**
   Summer session courses are fast-paced and rigorous. Absences from class is discouraged. 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 and examples discussed on the day of your absence. Furthermore, you are responsible for any important announcements or homework assignments given during the class you missed. Frequent absences will reduce your grade.
2. MAKE-UP POLICY:
   There are no make-up opportunities for any exams, graded assignments, or graded in-class activities that you miss due to absences or tardiness. A few extra credit opportunities may be available for the class activities portion of your grade.

   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. Unexpected absences that fall on the day of the exam must be reported to the instructor via text or email. Failure to do so in a timely manner may result in a 0 score for the exam.

3. There are NO RETESTS for this course.

4. FINAL EXAM: The final exam is cumulative.

5. CALCULATOR:
   A graphing calculator is required for this course. The instructor will demonstrate the use of the TI 84 and Ti NSpire CX in class. Students using other brands are responsible for knowing how to manipulate its features. Calculators with Algebraic manipulation capabilities, TI 89, TI Nspire CAS or etc. are NOT permitted on exams. Some exams are NOT calculator-friendly.

6. CELL PHONES:
   Please put your cell phone on silent mode or turn it off prior to the start of the class so that it does not disturb the class session. Under no circumstances are students to conduct phone conversations inside the classroom!