Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawaiʻi and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide Oʻahu’s Koʻolau region and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

CATALOG DESCRIPTION

An introduction to quantitative and logical reasoning for the nonscience/nonmathematics major. 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. (3 hours lecture)

Pre-Requisite(s): C or better in MATH 25, 26, 28, 29, 75X or higher or equivalent, corequisite enrollment in Math 78, satisfactory math placement test score, or consent of instructor.

STUDENT LEARNING OUTCOMES

Upon completion of the course, the student will be able to:

1. Utilize basic properties and/or operations related to the topics covered in the course
2. Employ symbolic/mathematical techniques to solve applied problems
3. 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, or Exams.
IS ONLINE LEARNING BEST FOR YOU?

Usually students take online courses with the assumption that it will be easier than face-to-face classes. Unfortunately this is NOT correct. Online courses actually require more discipline and individual effort on the part of the student. The focus is on YOU learning rather than the TEACHER lecturing.

RESPONSIBILITIES OF STUDENTS

- Have access to a reliable high-speed internet connection
- Have adequate computer skills.
- Check emails regularly
- Be self-motivated
- Set aside adequate study time

COURSE TASKS & GRADING

Grades are posted on the MyMathLab Gradebook. Grades for this course are based on the following course tasks:

<table>
<thead>
<tr>
<th>Task</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 unit exams @ 100 points each</td>
<td>300 pts.</td>
</tr>
<tr>
<td>Final Exam</td>
<td>100 pts.</td>
</tr>
<tr>
<td>MyMathLab Homework</td>
<td>100 pts.</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>500 pts.</strong></td>
</tr>
</tbody>
</table>

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>
</thead>
<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% or above of the cumulative points possible</td>
</tr>
<tr>
<td>NC</td>
<td>Less than 70% of the cumulative points possible</td>
</tr>
<tr>
<td>W</td>
<td>Official Withdrawal</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
</tbody>
</table>

CR/NC grades require written instructor consent. **Students must apply** for CR/NC grading option at the WCC Admissions Office by the posted deadline.

The W grade is given only when the student officially withdraws from the course by the posted deadline.

The I grade is a temporary grade given at the instructor’s option when a student has failed to complete a small part of a course because of circumstances beyond his or her control. A student may qualify for the I grade if (a) they are unable to take the final exam and (b) taking the final exam could possibly raise their course grade.

REQUIRED MATERIALS

1. **MyMathLab (MML) Access Code**. MML comes with the eBook: **Thinking**
Mathematically, 6th ed., by Blitzer. You may purchase the MML access code from our bookstore or directly online from the publisher.

a. If purchasing through our bookstore you will receive a MML access code bundled with a paperback copy of the textbook. If you are purchasing the access code directly online you will have access to the eBook, but will not have a hardcopy of the textbook.

b. Register for the MML course online at
   http://pearsonmylabandmastering.com/ with Course ID: storm88795. Registration instructions are located in Laulima under ‘Resources’. If you already have a MML account click on ‘Enroll in a Course’ on your homepage. When prompted enter in the Course ID.

2. Calculator: Basic scientific calculator. Graphing calculators are not allowed.

ADDITIONAL RESOURCES

WCC RESOURCES:
- WCC Math Lab: La`akea (Library Learning Commons) Room 220
  http://windward.hawaii.edu/About_WCC/Math_Lab/index.php
- WCC Testing Center: La`akea (Library Learning Commons) Room 228
  Phone number: (808) 235-7498
  http://windward.hawaii.edu/Testing_Center/index.php

UH SYSTEM RESOURCES:
- UH Testing Sites http://www.hawaii.edu/dl/testcenters
- OLA (UH online tutoring program): http://manoa.hawaii.edu/ola/
- Distance Learning Homepage http://www.hawaii.edu/dl/home

OTHER ONLINE RESOURCES:
- Brainfuse Online Tutors: http://windward.hawaii.edu/brainfuse/
- Wolfram Alpha: http://www.wolframalpha.com
- Khan Academy Videos: http://www.khanacademy.org

ADDITIONAL INFORMATION

COMMUNICATION
The preferred form of communication is via email. The phone listed on this syllabus is my office phone, which I only check when I am on campus. I will make every effort to reply to your email within 24 hours. Weekends and holidays will have a longer response time.

EXAMS
- All exams will be proctored at your assigned testing site. I will send an email request for your preferred testing site the first week of class with a deadline to reply. You may change your testing site at anytime during the semester. To change your testing site email me at least 8 days before the next scheduled exam.
• Unit exams will be available for at least 5 days and the final exam will be available for 4 days at your assigned testing site.
• All exams will be given through MyMathLab. The option to show your work on scratch paper to receive partial credit will be available.
• There are no make-up exams. However, I will replace your lowest unit exam score with the score earned on the final exam, provided the score on the final exam is higher than your lowest unit exam score. Hence, a zero score from a missed unit exam will be replaced by your final exam. Only one unit exam score may be replaced by the final exam.
• There are no retests for exams. The final exam is cumulative.

MYMATHLAB HOMEWORK
• Assignments are due on Sundays by 11:59pm
• There will be a 20% point deduction for late submissions
• Final submission will be on Dec. 9, 2018 by 11:59pm

ACADEMIC HONESTY
All exams must be done by your own individual effort. You may not consult with any classmates regarding the exams. This would fall under the guidelines of academic integrity and any evidence of cheating will result in a score of 0 for all parties involved. See http://windward.hawaii.edu/Policies/ for more information on the UH system-wide student conduct code.

FOUNDATIONS SYMBOLIC REASONING HALLMARKS
Math 100 fulfills 3 credits of the General Education requirements (Foundations: Symbolic) for both an A.A. degree at WCC and a Bachelor’s degree at 4 year UH institutions. Consequently, it meets the following hallmarks:
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 include computational and/or quantitative skills.
6. Instructors will build a bridge from theory to practice and show students how to traverse this bridge.

FOUNDATIONS QUANTITATIVE REASONING HALLMARKS
Math 100 fulfills 3 credits of the General Education requirements (Foundations: Quantitative) for both an A.A. degree at WCC and a Bachelor’s degree at 4 year UH institutions. Consequently, it meets the following hallmarks:
1. Provide students with theoretical justifications for, and limitations of, mathematical or statistical methods, and the formulas, tools, or approached used in the course.
2. Include application of abstract or theoretical ideas and information to the solution of practical quantitative reasoning problems arising in pure and applied research in specific disciplines, professional settings, and/or daily and civic life.
3. Provide opportunities for practice and feedback that are designed to help students evaluate and improve quantitative reasoning skills by including a course component at least once per week with a maximum 30:1 student-to-teacher ratio.

4. Be designed so that student will be able to
   a. identify and convert relevant quantitative information into various forms such as equations, graphs, diagrams, tables, and/or words.
   b. select appropriate techniques or formulas, and articulate and evaluate assumptions of the selected approaches.
   c. apply mathematical tools and perform calculations (including correct manipulation of formulas).
   d. make judgments, create logical arguments, and/or draw appropriate conclusions based on the quantitative analysis of data, the assumptions made, the limitations of the analysis, and/or the reasonableness of results.
   e. effectively communicate those results in a variety of formats.

DISABILITIES ACCOMMODATIONS
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 ‘Ākoakoa 213 for more information.

TITLE IX
Title IX prohibits discrimination on the basis of sex in education programs and activities that receive federal financial assistance. Specifically, Title IX prohibits sex discrimination; sexual harassment and gender-based harassment, including harassment based on actual or perceived sex, gender, sexual orientation, gender identity, or gender expression; sexual assault; sexual exploitation; domestic violence; dating violence; and stalking. For more information regarding your rights under Title IX, please visit: https://windward.hawaii.edu/Title_IX/.

Windward Community College is committed to the pursuit of equal education. If you or someone you know has experienced sex discrimination or gender-based violence, Windward CC has resources to support you. To speak with someone confidentially, contact Karla Silva-Park, Mental Health Counselor, at 808-235-7468 or karlas@hawaii.edu or Kaahu Alo, Designated Confidential Advocate for Students, at 808-235-7354 or kaahualo@hawaii.edu. To make a formal report, contact the Title IX Coordinator at 808-235-7393 or wcctix@hawaii.edu.

ALTERNATE CONTACT INFORMATION
If you are unable to contact the instructor, have questions that your instructor cannot answer, or for any other issues, please contact the Academic Affairs Office:

Location: Alakai 121
Phone: 808-235-7422
Email: wccaa@hawaii.edu

Windward Community College is an equal opportunity, affirmative action institution.
# MATH 100 ONLINE - FALL 2018 SCHEDULE

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates (Mon - Sun)</th>
<th>MyMathLab Due Sunday by 11:59 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8/20 - 8/26</td>
<td>3.1</td>
</tr>
<tr>
<td>2</td>
<td>8/27 - 9/2</td>
<td>3.2, 3.3</td>
</tr>
<tr>
<td>3</td>
<td>9/3 - 9/9</td>
<td>3.4, 3.5</td>
</tr>
<tr>
<td>4</td>
<td>9/10 - 9/16</td>
<td>3.6, 3.7</td>
</tr>
<tr>
<td>5</td>
<td>9/17 - 9/23</td>
<td>3.8</td>
</tr>
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**EXAM 1 (Ch 3)**  
Available at your testing site 9/24 - 9/28

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<tr>
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<tbody>
<tr>
<td>6</td>
<td>9/24 - 9/30</td>
<td>7.1</td>
</tr>
<tr>
<td>7</td>
<td>10/1 - 10/7</td>
<td>7.2, 7.6</td>
</tr>
<tr>
<td>8</td>
<td>10/8 - 10/14</td>
<td>8.5, 8.6</td>
</tr>
<tr>
<td>9</td>
<td>10/15 - 10/21</td>
<td>8.7, 8.8</td>
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</tbody>
</table>

**EXAM 2 (Ch 7, Ch 8)**  
Available at your testing site 10/22 - 10/26

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<tbody>
<tr>
<td>10</td>
<td>10/22 - 10/28</td>
<td>11.1</td>
</tr>
<tr>
<td>11</td>
<td>10/29 - 11/4</td>
<td>11.2, 11.3</td>
</tr>
<tr>
<td>12</td>
<td>11/5 - 11/11</td>
<td>11.4, 11.5</td>
</tr>
<tr>
<td>13</td>
<td>11/12 - 11/18</td>
<td>11.6, 11.7</td>
</tr>
</tbody>
</table>

**EXAM 3 (Ch 11)**  
Available at your testing site 11/19 - 11/27  
Extended exam period due to holidays

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<tbody>
<tr>
<td>14</td>
<td>11/19 - 11/25</td>
<td>12.1, 12.2</td>
</tr>
<tr>
<td>15</td>
<td>11/26 - 12/2</td>
<td>12.3, 12.4</td>
</tr>
<tr>
<td>16</td>
<td>12/3 - 12/9</td>
<td>12.5</td>
</tr>
<tr>
<td>17</td>
<td>12/10 - 12/16</td>
<td>Final Exam</td>
</tr>
</tbody>
</table>

**FINAL EXAM (Cumulative)**  
Available at your testing site 12/10-12/13  
Please note that the deadline to take the final exam is Thursday 12/13

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