Math 100 - Survey of Mathematics  
3 Credits  
WWW

INSTRUCTOR: Allyn Fetherolf  
OFFICE: Mana’opono 110a  
OFFICE HOURS: M W 11:00-11:30, T R 9:45-11:30 (or by appointment)  
EMAIL: Allynf@hawaii.edu  
EFFECTIVE DATE: Spring 2016

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai’i and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide O’ahu’s Ko’olau 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 hrs. lect.)

Prerequisite: Grade of “C” or better in MATH 25 or equivalent, satisfactory math placement test score, or consent of instructor.

STUDENT LEARNING OUTCOMES

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

1. Construct diagrams that will facilitate the visual conception of a phenomenon or problem.
2. Utilize basic properties and/or operations related to Set Theory, Logic, Statistics, Linear and Quadratic functions and Counting methods.
3. Employ symbolic/mathematical techniques to solve applied problems.
4. 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.

FOUNDATION 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 UH Manoa. Consequently, it meets the 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. Include computational and/or quantitative skills.
6. Instructors will build a bridge from theory to practice and show students how to traverse this bridge.

COURSE TASKS

Attendance and Participation
Students are expected to be on time, attend every class, and stay for the entire period. Should it be absolutely necessary to miss a class, it is the STUDENT’S responsibility to make up any missed material and collect any homework assignments given.

Homework
Homework will be performed through MyMathLab (www.mymathlab.com), and will be due Sunday nights at 11:59pm. For a full list of when each assignment is due, consult the calendar at the end of this syllabus. Late homework may be submitted, but will receive 0 credit. To access the homework for our course, you will need the following Course ID: fetherolf15829

Please note that access to MyMathLab will be required from the first day of the course and cannot be refunded. I strongly recommend signing up for the "temporary access" to MyMathLab. It will allow temporary access to the course homework (at no cost). If you decide to withdraw from the course then you will not be charged. Alternatively, the temporary access is easily converted to full access (with a paid access code).

On average, a student should expect to spend ~9 hours per week on homework and course review.

Exams:
There will be three proctored exams in this course, and one proctored comprehensive final exam. The testing schedule is included in the calendar at the end of the syllabus. All exams must be taken at the testing center of your home UH campus unless prior arrangement has been made with instructor. You will be asked to show your work on multistep problems to receive full credit. An exam review will be made available to assist you in studying for the proctored exams. Note that there is a 75-minute time limit on each unit exam and a 120-minute time limit on the final exam.

Exams will be made available the week before their deadline. As an example, the first exam deadline in this class is January 24th. Therefore, the first exam will be available in testing centers starting on the 18th of January. Note that some testing centers are not open on weekends, it is your responsibility to know their respective schedules!

The best way to prepare for the exam is to study homework problems along with the review exams that will be provided in the lead up to each exam. Testing site: Your default test-taking site will be the testing center of your home campus. If you wish to use a different testing center please inform your instructor by the end of the first week of class. The website

http://www.hawaii.edu/dl/faculty/prep/proctor_office.html
provides information on all available testing sites in Hawaii. I will inform you when exams are distributed to the testing centers. Each testing center has different hours of operation and proctoring procedures. Some require appointments, others allow walk ins. It is your responsibility to arrange to take the exam at your chosen test center by the assigned date of completion.

Students who fail to take the exam because testing centers were closed when they attempted to take the exam, or they did not make an appointment, will NOT be allowed to make up exams.

Grading

Course grades will be a combination of homework, midterm and final exam scores.

Homework: (40%)
Exam 1: (10%)
Exam 2: (15%)
Exam 3: (15%)
Final Exam: (20%)
*The final exam is cumulative

In order to achieve a passing grade and receive credit for this course, students must earn a semester average of 60%. Each final letter grade will be assigned according to the level of achievement provided in the scale below:

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<th>Grade</th>
<th>Percentage</th>
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<tr>
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<td>80 – 89%</td>
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<td>C</td>
<td>70 – 79%</td>
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<tr>
<td>D</td>
<td>60 – 69%</td>
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<tr>
<td>F</td>
<td>&lt;60%</td>
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Makeup Testing

Absences from an exam requires instructor approval before the scheduled exam time. In circumstances that do not allow approval to be given before the scheduled exam time (medical emergency, car accident, etc.), notify the instructor as soon as possible. Approval to miss an exam, or to take a makeup exam is given on a case by case basis. It is strongly recommended that all students do not miss exams, as any unapproved excuse will result in a 0 for that exam score.

LEARNING RESOURCES

Required Materials:
- Thinking Mathematically, 6th ed., by Blitzer
- MyMathLab access (included with the textbook, or may be purchased separately)
- Non-graphing Calculator (must have a square root function)

Additional Learning Resources:
- Testing Center: La’akea (Library Learning Commons) Room 228, 235-7498
- Math Lab: La’akea (Library Learning Commons) Room 220
Additional Information

Please check your WCC e-mail account frequently for important announcements. Note this syllabus is subject to change in extenuating circumstances. For additional academic information refer to WCC website www.windward.hawaii.edu or go to www.hawaii.edu for system wide information.

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.
Tentative Schedule
(note that this schedule is subject to change, and changes will be announced on Laulima)

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