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 hours lecture)

Pre-Requisite(s): Grade of “C” or better in MATH 25 or MATH 28 or equivalent, satisfactory math placement test score, or consent of instructor.

Getting started with an online course:

• Go to www.MyMathLab.com and click on student under register.
• Enter the Course ID holmes45941 when required.
• Follow the online instructions to complete the registration process.
• There will be an option to either buy an access code or enter the one that came with your textbook.
• For video tutorial use this link: http://tours.pearsoncmg.com/smscc/index.html
• Note that you may need to turn off pop-up blocker so that some plug-ins can be installed.

STUDENT LEARNING OUTCOMES

The student learning outcomes for the course are:

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

**FOUNDATIONS SYMBOLIC HALLMARKS**

1. Expose students to the beauty, power, clarity and precision of formal systems.
2. Help students understand the concept of proof as a chain of inferences.
3. Teach students how to apply formal rules or algorithms.
4. Require students to use appropriate symbolic techniques in the context of problem solving, and in the presentation and critical evaluation of evidence.
5. Not focus solely on computational skills.
6. Build a bridge from theory to practice and show students how to traverse this bridge.

**COURSE CONTENT**

Math 100 fulfills the three credits General Education Requirement for Foundations Symbolic for both the AA degree at WCC and a Bachelor’s degree at UH Manoa as well as UH West Oahu. Consequently, it meets the hallmarks of the symbolic reason requirement (also listed in the catalog).

*Concepts or Topics*

- Functions (Linear and Quadratic)
- Set Theory
- Logic
- Counting Methods and Probability Theory
- Statistics

**COURSE TASKS**

In an online course, more so than ever, the onus is on the student to do the work necessary to understand the material. Students are expected to review the text and any supplemental materials they feel are necessary and complete assignments in a timely fashion on their own. The instructor is available to answer questions, consult, and refer students to additional resources.

**ASSESSMENT TASKS AND GRADING**

*Exams* There will be four proctored exams in this course worth 100 points each and one proctored comprehensive final worth 200 points. All exams must be taken at WCC testing center 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 100 minutes time limit on each unit exam and 200 minutes time limit on the final exam. Best way to prepare for the exam is to study homework problems along with
exam review.
Testing site: Your default test taking site will be The Testing Center (TTC) located in La‘Akea 228 at Windward Community College. You may go to the testing center web page or call at (808) 235 – 7498 to find out additional information about this testing site such as hours of operation. If you reside on one of the neighboring islands, please let me know your preferred test taking location no later than the 5th day of instruction. The website http://www.hawaii.edu/dl/faculty/prep/proctor_office.html provides information on all available testing sites in Hawaii.

Homework: All homework assignments are available online at MyMathLab.com. I encourage you to collaborate on the homework by utilizing the online tools such as message board to communicate with each other. There is also help me solve, view similar example, and watch lecture video options available. Note that you can work on each homework problem as many times as necessary by clicking the similar exercise tab, till you get it right. So, every student should get 100% on each homework assignment. For Additional help on the homework, students are welcome to come by my office during the office hours, make an appointment for consultation, or e-mail me with questions. Important Info: Please check your @hawaii.edu e-mail account frequently for important announcements. This syllabus is subject to change in extenuating circumstances. Student must complete all online homework assignments, quizzes, and exams including final within this semester. I highly recommend that you do not fall behind and use the guided due dates for quizzes, homework assignments, and exams found on the calendar included in this syllabus. For important academic information refer to WCC website www.windward.hawaii.edu or go to www.hawaii.edu for system wide information. Plagiarism, or copying and use of another's work without proper acknowledgment, is not permitted and may result in failing grade for the course. Make-up for any missed exams or quizzes are not allowed after the due date.

Course grade:

GRADE DEFINITION
A 90% - 100% of the total possible points
B 80% - 89% of the total possible points
C 70% - 79% of the total possible points
Cr 70% - 100% of the total possible points
NC Less than 70% of the total possible points
D 60% - 69% of the total possible points
F Less than 60% of the total possible points

Note: Students must apply for the Cr/NC grading option at the Admissions Office. Consult the WCC Catalog for deadlines.
Note: W grade is given only when the student officially withdraws from the course at the Admissions Office. Consult the WCC Catalog for deadlines.
Note: Please consult the WCC Catalog for details regarding “N” or “I” grades.

POINTS BREAKDOWN
Homework 200 possible points
Unit 1 Test 100 possible points
Unit 2 Test 100 possible points
Unit 3 Test 100 possible points
Final Exam 200 possible points
TOTAL 800 possible points
LEARNING RESOURCES


All students must have access to MyMathLab to complete the online homework assignments. When registering, use the course code holmes45941. Registering for MyMathLab gives you access to the text online, this is all that is required. If you wish to purchase a physical copy of the book from the WCC bookstore, it will come with a registration code for MyMathLab at no additional cost. If you purchase a used textbook, you will have to buy a registration code for MyMathLab separately.

Additional resources that may useful:
https://www.khanacademy.org/
Khan academy provides free references, video lectures, and additional practice problems.
http://mathworld.wolfram.com/
Mathworld has information on a wide variety of math topics from basic to advanced.
http://windward.hawaii.edu/Brainfuse/
Brainfuse is WCC’s online tutorial system providing personalized assistance.

Additional Information

Every student is expected to abide by all appropriate codes of conduct, to attempt all assignments in a timely fashion, attend class regularly, check Laulima regularly (ideally every 24 hours), and put in the time to do any additional work necessary to learn the material.

The instructor is expected to abide by all appropriate codes of conduct, have well prepared lessons every class, to hold regular office hours, to respond to students e-mails/calls within 24 hours, to treat all students fairly and impartially, to refer students to any resource available to them that will help them succeed in the course.

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.

Revised May 25, 2011