

MATH 100 – SURVEY OF MATHEMATICS (3 Credits)

INSTRUCTOR:	Jody-Lynn Storm
OFFICE:	Mana`opono 105A
OFFICE HOURS:	Monday – Friday 10:00 am – 11:00 am And by appointment
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EFFECTIVE DATE:	Spring 2016

CRN	Days	Time	Classroom
61028	TR	11:30 am – 12:45 pm	Mana`opono 113

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.

COURSE 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 Math 28 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. 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.

LEARNING RESOURCES & MATERIALS

REQUIRED MATERIALS:

- Textbook: Thinking Mathematically, 6th ed., by Blitzer
 - If you have a MyMathLab access code and prefer to use an eBook, you may register online at <http://pearsonmylabandmastering.com> with course ID: **storm95973**
- Basic 5-Function Calculator (required): Must have a square root function

LEARNING RESOURCES:

- AHI: Amber Hakkei-Nagaoka
Email: amberhn@hawaii.edu
- Testing Center: La'akea (Library Learning Commons) Room 228
Phone: (808) 235-7498
http://windward.hawaii.edu/Testing_Center/index.php
- Math Lab: La'akea (Library Learning Commons) Room 220
http://windward.hawaii.edu/Math_Lab/
- Brainfuse Online Tutoring: <http://windward.hawaii.edu/brainfuse/>
- OLA (UH Online Tutoring): <http://manoa.hawaii.edu/ola/>
- Khan Academy Videos: <http://www.khanacademy.org>
- Wolfram Alpha: <http://www.wolframalpha.com>

COURSE TASKS & GRADING

Grades are posted on the Lualima gradebook. Grades for this course are based on the following course tasks:

3 exams @ 100 pts. ea.	300 pts.	(47% of possible pts.)
1 Quiz	50 pts.	(8% of possible pts.)
Final Exam	130 pts.	(20% of possible pts.)
Course Activities:		
Homework	112 pts.	(17.5% of possible pts.)
In-class Activities	<u>48 pts.</u>	(7.5% of possible pts.)
Total	640 pts.	

Each letter grade for the course will be assigned according to the following level of achievement:

<u>Letter Grade</u>	<u>Definition</u>
A	90% - 100% of the cumulative points possible
B	80% - 89% of the cumulative points possible
C	70% - 79% of the cumulative points possible
D	60% - 69% of the cumulative points possible
F	Less than 60% of the cumulative points possible
N	See below
CR	70% or above of the cumulative points possible
NC	Less than 70% of the cumulative points possible
W	Official Withdrawal
I	Incomplete

Note: The N grade indicates that the student has worked conscientiously, attended class regularly, finished all work, fulfilled course responsibilities, and has made measurable progress. However, either the student has not achieved 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.

Requests for the N grade must be submitted by the student and is contingent upon the instructor's approval.

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

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

Note: 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.

The I grade is given by student request and must be approved by the instructor. 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.

ADDITIONAL INFORMATION

ABSENCES

It is your responsibility to attend class. If you are absent, you are responsible for any important announcements or assignments given during the class you missed. It is your responsibility to meet with me to review any missed lecture material. You may drop in during posted office hours or make an appointment to meet one-on-one. Please do not send email requests for missed lecture material.

MAKE-UP POLICY

If you are unable to attend class on an exam day, discuss your situation with me as soon as possible before the exam day. You may always take the exam earlier than the specified day/time. If you unexpectedly must be absent on an exam day, notify me via voicemail or email. If the reason is justified then a make-up exam will be scheduled. Make-up exams are scheduled at the end of the semester. No more than one make-up exam may be taken.

There are no make-up opportunities for graded in-class activities.

CALCULATORS

A basic 5-function calculator is recommended for homework and is necessary for some exams. You may not use a graphing calculator for the final exam.

EXAMS

There are **no retests** for exams or quizzes. The final exam is cumulative.

HOMEWORK

There is one homework assignment per textbook section. Homework assignments are worth 4 points each. Odd problems are assigned with the majority of the solutions at the end of the book (or eBook). You are responsible for checking and correcting your answers. Late homework is worth 2 points. Homework is graded on completeness, neatness and accuracy. I encourage you to work on homework assignments with your fellow classmates. **You may need to do more than the assigned homework problems to become comfortable with the concepts and skills.**

AHI

AHI sessions are optional. For each hour of AHI, 1 point will be added to the Course Activities portion of your grade. The AHI points earned can potentially push your Course Activities portion of your grade to 165 points (5 points over the 160 points allotted).

GRADING

To receive full credit for problems done on exams or graded homework, you must show sufficient work in a clear and organized manner. Your work must be neat and organized. Messy and/or disorganized work will not receive full credit.

CELL PHONES & OTHER ELECTRONIC DEVICES

Electronic devices should be silenced prior to the start of class.

DISRUPTIVE BEHAVIOR & ACADEMIC HONESTY

Please respect your fellow students and act accordingly. If a student takes part in disruptive behavior, the instructor reserves the right to exclude the student immediately from the class meeting.

All exams must be done by your own individual effort. You may not consult with any classmates while taking 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.

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, or visit <http://windward.hawaii.edu/Disabilities/>

STORM: SPRING 2016
MATH 100: TENTATIVE SCHEDULE
TR 11:30 AM – 12:45 PM

Important Dates	
JAN 15	Last day to register/add/drop and to receive 100% refund of tuition
FEB 1	Last day for 50% refund of tuition and to withdraw without a "W" grade.
MAR 29	Last day to withdraw with a "W" or choose CR/NC grade option. Last day to make up "I" grade from previous semester

	Tuesday		Thursday
JAN 12	Orientation, 7.1	JAN 14	7.1, 7.2
JAN 19	7.2, 7.6	JAN 21	7.6
JAN 26	2.1, 2.2	JAN 28	2.3
FEB 2	2.3, 2.4	FEB 4	2.5, Exam Review
FEB 9	EXAM 1 (Ch7,Ch2)	FEB 11	3.1, 3.2
FEB 16	3.2, 3.3	FEB 18	3.4, 3.5
FEB 23	3.5, 3.6	FEB 25	3.6, 3.7
MAR 1	3.7, 3.8	MAR 3	Exam 2 Review
MAR 8	EXAM 2 (3.1-3.7)	MAR 10	11.1, 11.2
MAR 15	11.3	MAR 17	11.4
MAR 22	Spring Break	MAR 24	Spring Break
MAR 29	11.5	MAR 31	11.6
APR 5	11.7	APR 7	Exam 3 Review
APR 12	EXAM 3 (Ch11)	APR 14	12.1, 12.2
APR 19	12.4	APR 21	12.3
APR 26	12.5	APR 28	QUIZ CH 12 Final Exam Review
MAY 3	Final Exam Review	MAY 5	No Class Non-Instructional Day
MAY 10		MAY 12	FINAL EXAM 11:30 am - 1:30 pm