

MATH 100 – SURVEY OF MATHEMATICS (3 Credits)

INSTRUCTOR: Jody-Lynn Storm
OFFICE: Mana'opono 105
OFFICE HOURS: MTWR 10:00 am – 11:00 am
F 10:30 am – 11:30 am and by appointment
TELEPHONE: (808) 236 – 9277
EMAIL: jstorm@hawaii.edu
WEBPAGE: <http://www.jodystorm.com>
EFFECTIVE DATE: Spring 2014

CRN	Days	Time	Classroom
60054	TR	8:30 am – 9:45 am	Mana'opono 114

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 equivalent, satisfactory math placement test score, or consent of instructor.

WCC: FS

LEARNING RESOURCES & MATERIALS

REQUIRED MATERIALS:

- Textbook: Thinking Mathematically, 5th 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: **storm93774**
- Calculator (required): Must have a square root function

LEARNING RESOURCES:

- Supplemental Instruction Leader (SIL): TBA
- Testing Center: La'akea (Library Learning Commons) Room 228
Phone number: 235-7498
http://windward.hawaii.edu/Testing_Center/index.php
- WCC Math Lab: La'akea (Library Learning Commons) Room 226
http://windward.hawaii.edu/Math_Lab/
- Brainfuse Online Tutoring: <http://windward.hawaii.edu/brainfuse/>
- OLA (UH Online Tutoring): <http://manoa.hawaii.edu/ola/>
- Kahn Academy Videos: <http://www.khanacademy.org>

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 not focus solely on computational skills.
6. Instructors will build a bridge from theory to practice and show students how to traverse this bridge.

COURSE TASKS & GRADING

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

3 exams @ 100 pts ea	300 pts	(46% of possible pts)
1 Quiz	50 pts	(8% of possible pts)
Final Exam	140 pts	(22% of possible pts)
Couse Activities:		
Homework	112 pts	(17% of possible pts)
In-class Activities	48 pts	(7% of possible pts)
Total	650 pts	

Each letter grade for the course will be assigned according to the level of achievement as provided in the table below:

<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	See below

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.*

The N grade is an optional grade that instructors do not have to give. All requests for the N grade must be submitted by the student in writing 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. If a student does not apply for CR/NC grading option at the Admissions Office by the required deadline and if s/he does not withdraw, a letter grade (A, B, C, D, F, N) will be assigned for the course.

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.*

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

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 your instructor 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 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. If you unexpectedly must be absent on an exam day, notify me by 4:00 pm via voicemail or email. If notification is received and the reason is justified then a make-up exam will be scheduled. The instructor reserves the right to request documentation to determine whether the absence is justifiable. For each student, **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 chapters 11 & 12. Calculator use is allowed on some exams. The following is NOT allowed on exams: graphing calculators, iPods, cell phones (or any other electronic device not solely designated as a calculator), or the sharing of calculators.

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. Late homework is worth 2 points. Homework is graded on completeness, neatness and accuracy. **You may need to do more than the assigned homework problems to become comfortable with the concepts and skills.**

SUPPLEMENTAL INSTRUCTION (SI)

For each hour of SI one point will be applied to the course activity portion of your grade. Points cannot exceed the maximum of 160 points.

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.

LAPTOPS

Lecture notes will be posted on Lulima. You are free to use a laptop (or iPad) during class to take notes directly onto our lecture notes. If so, please make sure the volume is muted and that you are only using your laptop to take notes.

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.

Graded homework assignments may be discussed with your classmates and you may seek guidance from the instructor, however, the write up of the solution for each problem must be done on your individual effort.

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 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](mailto:lemke@hawaii.edu), or you may stop by Hale 'Akoakoa 213 for more information, or visit <http://windward.hawaii.edu/Disabilities/>*

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TENTATIVE SCHEDULE – MATH 100
 SPRING 2014 – STORM TR 8:30 am – 9:45 am

Important Dates	
JAN 17	Last day to register/add/drop and to receive 100% refund of tuition
FEB 3	Last day for 50% refund of tuition and to withdraw without a "W" grade.
MAR 20	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 14	Orientation, 7.1	JAN 16	7.2
JAN 21	7.6	JAN 23	7.6, 2.1
JAN 28	2.1, 2.2	JAN 30	2.2 , 2.3
FEB 4	2.4, 2.5	FEB 6	Exam 1 Review
FEB 11	EXAM 1 (Ch7,Ch2)	FEB 13	3.1, 3.2
FEB 18	3.2, 3.3	FEB 20	3.3,3.4
FEB 25	3.5, 3.6	FEB 27	3.6, 3.7
MAR 4	3.8	MAR 6	Exam 2 Review
MAR 11	EXAM 2 (Ch3)	MAR 13	11.1, 11.2
MAR 18	11.3, 11.4	MAR 20	11.4, 11.5
MAR 25	Spring Recess	MAR 27	Spring Recess
APR 1	11.5, 11.6	APR 3	11.6
APR 8	11.7	APR 10	Exam 3 Review
APR 15	EXAM 3 (Ch3)	APR 17	12.1, 12.2
APR 22	12.3	APR 24	12.4, 12.5
APR 29	12.5, Quiz Review	MAY 1	QUIZ 3 (Ch12) Final Exam Review
MAY 6	Final Exam Review	MAY 8	No Class
MAY 13		MAY 15	FINAL EXAM 8:30 am - 10:30 am
MAY 20		MAY 22	