

MATH 100 – SURVEY OF MATHEMATICS (3 Credits)

INSTRUCTOR: Jody-Lynn Storm
OFFICE: Mana’opono 105
OFFICE HOURS: MW 10:00 am – 11:00 am
TR 9:00 am – 10:00 am
And by appointment
TELEPHONE: (808) 236 – 9277
EMAIL: jstorm@hawaii.edu
WEBPAGE: <http://www.jodystorm.com>
EFFECTIVE DATE: Spring 2015

CRN	Days	Time	Classroom
63200	MW	11:30 am – 12:45 pm	Mana’opono 115
63485	TR	10:00 am – 11:15 am	Mana’opono 115

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.

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.

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: **storm31808**
- Basic 5-Function Calculator (required): Must have a square root function

LEARNING RESOURCES:

- Supplemental Instruction Leader (SIL): Shelby Gazley (MW Class)
Email: sgazley@hawaii.edu
- Supplemental Instruction Leader (SIL): Bronte Bolosan (TR Class)
Email: bolosanb@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/>
- Kahn Academy Videos: <http://www.khanacademy.org>

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)
Course 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.*

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 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. A non-graphing calculator is required for some exams.

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. Course activity cannot exceed the maximum of 160 points.

This class is supported by the Supplemental Instruction (SI) program. SI is a FREE, collaborative, peer-study program that helps students succeed in difficult classes. Your SI Leader is a peer who has taken this class (or a higher level class) previously and has an understanding of the course material. In SI sessions, students will work together with the SI Leader to explore important concepts, review class notes, discuss test taking strategies, and review for tests. All students in this class are encouraged to attend!

Note: At WCC, students who attend SI sessions earn A, B, and C grades at nearly a 20% higher rate than non-attendees and are less likely to withdraw from their courses. WCC data has also shown that the more sessions students attend, the more likely they are to pass.

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 other electronic device) during class to take lecture notes. If so, please make sure the volume is muted and that you are only using the device 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.

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/>

MATH 100 – TENTATIVE SCHEDULE
MW 11:30 AM – 12:45 PM
STORM – SPRING 2015

Important Dates	
JAN 16	Last day to register/add/drop and to receive 100% refund of tuition
FEB 2	Last day for 50% refund of tuition and to withdraw without a "W" grade.
MAR 31	Last day to withdraw with a "W" or choose CR/NC grade option. Last day to make up "I" grade from previous semester

	Monday		Wednesday
JAN 12	Orientation, 7.1	JAN 14	7.2
JAN 19	No Class Dr. Martin Luther King Jr. Day	JAN 21	7.6
JAN 26	2.1, 2.2	JAN 28	2.3, 2.4
FEB 2	2.4, 2.5	FEB 4	Exam 1 Review
FEB 9	EXAM 1 (Ch7,Ch2)	FEB 11	3.1, 3.2
FEB 16	No Class President's Day	FEB 18	3.2, 3.3
FEB 23	3.4, 3.5	FEB 25	3.6
MAR 2	3.7	MAR 4	3.8
MAR 9	Exam 2 Review	MAR 11	EXAM 2 (Ch3)
MAR 16	11.1, 11.2	MAR 18	11.3, 11.4
MAR 23	No Class Spring Recess	MAR 25	No Class Spring Recess
MAR 30	11.4, 11.5	APR 1	11.6, 11.7
APR 6	11.7	APR 8	Exam 3 Review
APR 13	EXAM 3 (Ch11)	APR 15	12.1, 12.2
APR 20	12.2	APR 22	12.3
APR 27	12.4, 12.5	APR 29	QUIZ CH 12
MAY 4	Final Exam Review	MAY 6	Final Exam Review
MAY 11		MAY 13	FINAL EXAM 11:30 am - 1:30 pm

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TR 10:00 AM – 11:15 AM
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	Tuesday		Thursday
JAN 13	Orientation	JAN 15	7.1, 7.2
JAN 20	7.2, 7.6	JAN 22	7.6
JAN 27	2.1, 2.2	JAN 29	2.2, 2.3
FEB 3	2.3, 2.4	FEB 5	2.5
FEB 10	Exam Review	FEB 12	EXAM 1 (Ch7,Ch2)
FEB 17	3.1, 3.2	FEB 19	3.2, 3.3
FEB 24	3.4, 3.5	FEB 26	3.6
MAR 3	3.7	MAR 5	3.8
MAR 10	Exam 2 Review	MAR 12	EXAM 2 (Ch3)
MAR 17	11.1, 11.2	MAR 19	11.3, 11.4
MAR 24	No Class Spring Recess	MAR 26	No Class Spring Recess
MAR 31	11.4, 11.5	APR 2	11.6, 11.7
APR 7	11.7	APR 9	Exam 3 Review
APR 14	EXAM 3 (Ch11)	APR 16	12.1, 12.2
APR 21	12.2	APR 23	12.3
APR 28	12.4, 12.5	APR 30	QUIZ CH 12
MAY 5	Final Exam Review	MAY 7	No Class
MAY 12	FINAL EXAM 10:00 am - 12:00 pm	MAY 14	