MATH 100 – SURVEY OF MATHEMATICS (3 Credits)

INSTRUCTOR: Michael Joyce
OFFICE: Mana‘opono 110A
OFFICE HOURS: See my website
TELEPHONE: 808 236 9280 (don’t leave a message though, use email!)
EMAIL: joycem@hawaii.edu, michaeljoyce217@gmail.com
WEBSITE: Mike: www.math.hawaii.edu/~mikejoyce
Pearson: http://www.pearsonmylabandmastering.com/
EFFECTIVE DATE: Spring 2014

<table>
<thead>
<tr>
<th>CRN</th>
<th>DAYS</th>
<th>MEETING TIMES</th>
<th>CLASSROOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>60347</td>
<td>N/A</td>
<td>www</td>
<td>N/A</td>
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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.

WCC: FS

TOPICS COVERED IN THIS COURSE:

Functions (linear and quadratic)• Set Theory (universal, union, compliment, intersection, and empty set)• Logic (negation, conjunction, disjunction, and conditional statements, truth table, valid statement, Euler’s diagram)• Counting Theory and Probability (counting principle, permutation, combination, odds)• Statistics (Normal distribution, standard normal distribution, percentile, z-score)

LEARNING RESOURCES & MATERIALS

The required textbook for this course is “Thinking Mathematically” 5th ed. by Blitzer (see the WCC bookstore for official details). When buying a hard copy of this textbook, please make sure that it comes with a valid access code. Purchase of this textbook is not required since all of the material including the e-book (digital textbook) is available online (although it can be awkward to use in this manner). Buying just an access code
directly from the website may be cheaper than buying the textbook with code and this will include everything you need for this course. We will utilize most of the tools available through this website so you must get a CourseCompass access code for this course. You can get this one of two ways: Buy it directly when registering for the course online (probably cheaper, slightly less convenient though as you won’t have a physical textbook) or buy the textbook at WCC bookstore which comes with the access code.

Please note: you absolutely must have the Pearson code for this course!

MATH LAB (for extra help): La`akea 226 (WCC only)

THE TESTING CENTER (TTC): La`akea 228 (WCC only)

GETTING STARTED WITH THE ONLINE COMPONENT OF THIS COURSE


2. Enter the Course ID “joyce44249”.

3. Follow the online instructions to complete the registration process.

4. There will be an option to either buy an access code or enter the one that came with your textbook.

5. For video tutorial use this link: http://tours.pearsoncmg.com/smscc/index.html

6. Note that you may need to turn off pop-up blocker so that some plug-ins can be installed.

7. For technical problems call Tech Support at 800-677-6337, Monday – Friday 9am – 6pm EST.

8. You can also talk to a live tutor toll free via 888-777-0463, Sunday to Thursday 5pm – 12am EST.

STUDENT LEARNING OUTCOMES

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 SLOs assessment are embedded in class activities, homework and exams.
FOUNDATION HALLMARKS

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 listed in the catalog.

COURSE TASKS & GRADING

Grades for this course are based on the following:

<table>
<thead>
<tr>
<th>Task</th>
<th>Points</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 exams @100 pts</td>
<td>300</td>
<td>(37.5% of possible pts)</td>
</tr>
<tr>
<td>Homework</td>
<td>300</td>
<td>(37.5% of possible pts)</td>
</tr>
<tr>
<td>Final Exam</td>
<td>200</td>
<td>(25% of possible pts)</td>
</tr>
<tr>
<td>Total</td>
<td>800</td>
<td></td>
</tr>
</tbody>
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Note: doing the homework is always important in a math class but particularly in this course. Everyone should get 300/300 on the homework as you can hit “Similar Exercise” every time you get one wrong, over and over, until you get it right. In fact, you’d be making a very big mistake not having 100% on your homework! It compensates for the fact that online Math classes can have low test scores. Please, for your own sake, do this! (In fact, you don’t have a lot of choice as you need 90% on all of the homework for each section before being allowed to take the Exam on those sections.)

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

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90% - 100% of the cumulative points possible</td>
</tr>
<tr>
<td>B</td>
<td>80% - 89% of the cumulative points possible</td>
</tr>
<tr>
<td>C</td>
<td>70% - 79% of the cumulative points possible</td>
</tr>
<tr>
<td>D</td>
<td>60% - 69% of the cumulative points possible</td>
</tr>
<tr>
<td>F</td>
<td>Less than 60% of the cumulative points possible</td>
</tr>
<tr>
<td>CR</td>
<td>70% - 100% of the cumulative points possible</td>
</tr>
<tr>
<td>NC</td>
<td>Less than 70% of the cumulative points possible</td>
</tr>
<tr>
<td>W</td>
<td>Official Withdrawal</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete - given when a student has failed to complete a SMALL part of the course due to circumstances beyond his/her control.</td>
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Please note: Suppose you have 300/300 on the homework (and you should because you can hit “Similar Exercise” as often as you need!). Then you can get 60% on all the tests (which is a low D/high F) which is 300/500 on the rest and end up with 600/800, that is 75% and a strong C. DOING THE HOMEWORK IS CRUCIAL IN THIS COURSE!
N grade: "The 'N' grade indicates that the student has worked conscientiously, attended 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." If you would like to request for N grade in this class, you must provide a formal letter of request to me no later than the time of final examination addressing how you have met the criteria for N grade. Then I will make a decision on whether or not you qualify for the N grade. Definition of additional grade options such as "I" can be found in WCC catalog.

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) will be assigned for the course.

Note: A W grade is given only when the student officially withdraws from the course at the Admissions Office or online by the posted deadline.

Email and Laulima Website

Students are responsible for checking their UH email regularly (DAILY!) for important announcements. Students are also expected to check the Math 100 Laulima site for announcements and occasionally additional resources. Students will also be referred to my website frequently (as it is often easier to navigate than Laulima in my estimation):

http://www.math.hawaii.edu/~mikejoyc/

ADDITIONAL INFORMATION

1. EXAMS:

There will be three proctored exams for this course, worth 100 points each and one proctored comprehensive (cumulative) final worth 200 points. All exams will be written in the UH testing center of your choice. Exam reviews will also be available online for each exam to assist you in studying for the proctored exams. Note that there is 75 minute time limit on each unit exam and 120 minute time limit on the final exam (unless special accommodations have been approved by a Disability Specialist counselor.
The best way to prepare for the exam is to study the associated homework problems along with the exam review that will be provided on my website. **For each exam you will be allowed a (non-graphing) calculator and one 3 inch by 5 inch index card with your own notes on each side.** Make sure you have the right size or you won’t be allowed to bring your card into the exam.

**IMPORTANT NOTE:** You must have at least 90% on each homework assignment leading up to an exam to be authorized to take the exam. As you may hit “Similar Exercise” endlessly, this should be relatively easy to accomplish. In fact, you should strive for 100% to pull your grade up!

2. **TESTING SITE:**

Your default test taking site will be The Testing Center (TTC) located in the Library Learning Commons building, room 228 at WCC. You may go to

http://windward.hawaii.edu/testing_center

or call (808) 235 – 7498 to find out additional information about this testing site such as hours of operation. If this location is inconvenient or you reside on one of the neighboring islands, please let me know your preferred test taking location no later than the Friday of the first week of instruction **(this is crucial!!)**. The website

http://www.hawaii.edu/dl/testcenters

provides information on all available testing sites in Hawaii.

3. **HOMEWORK:**

All homework assignments are available online. I encourage you to work together on homework by utilizing the online tools such as message board to communicate with each other. **In addition, there are “help me solve”, “view similar example”, and “watch lecture video” options available. USE THESE!**

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, it is possible for you to get 100% on each homework assignment (which really helps your grade).** To receive additional help on the homework, students are welcome to come by my office during my office hours (see my website) if on Oahu or make an appointment for consultation by phone.

4. **IMPORTANT INFORMATION:**

Please check your @hawaii.edu e-mail account frequently for important announcements. This syllabus is subject to change in extenuating circumstances. Students must complete all online homework assignments and exams including the final within this Spring 2014 term. For important academic information refer to WCC website www.windward.hawaii.edu or go to www.hawaii.edu for system wide information.
5. GETTING HELP:

I encourage you to stop by my office anytime you need help. If you live further away from WCC campus, you can call my office during office hours.
(IMPORTANT: do not leave a message if I am not there, use email only for messages. Several of us share this phone and I am also just outside my (small) office helping groups of students.) You may get additional help by utilizing the free walking tutoring service by going to the math lab located at Windward Community College or at your native campus (note that these are often closed in summer). You may also utilize the following websites:

http://manoa.hawaii.edu/ola - Provides free local live interactive tutoring during weekdays

http://www.khanacademy.org – Provides small lecture videos on selected topics

www.wolframalpha.com – Provides computational tools, facts, and examples.


6. CONSULTATION:

If this is the first time you are taking an online course or need help getting started or I recommend that you meet with me during the first week of instruction so that I can go over any questions you may have regarding the syllabus, homework assignments, exams, or getting started to use the online system. Also I highly recommend meeting with me prior to taking exam so that I can go over material that you find difficult (if possible). The key to doing well in an online course is to complete your work well in advance of the due dates and not to procrastinate.

7. CONTACT: The following methods will be used to communicate:

You can send me an e-mail anytime and I will do my best to respond within 24 hours (often much sooner). This is an effective method of communication if you expect a short response.

If you need to speak with me, you can call me at my office (808) 236 – 9280 during my office hours. If I don’t answer, I’m likely helping a student so please DON’T leave a message. E-mail me instead with a phone number and I’ll call you back. However, this isn’t a great system as it is hard to explain Math over the phone. Ideally, find a homework partner near you and/or watch the online videos.

If you go to windward community college or live nearby, you can stop by my office anytime during my office hours or make an appointment to see me. This is a good way to get help with homework problems.
The online discussion board can be used to interact with classmates by asking homework questions and answering previously posted problems.

Your best bet at any campus is to find your math lab and get help there. Most campuses have one and they are usually open about 9am to 3pm although that varies. (Note: unfortunately, these labs are often closed in the summer semesters due to budgetary issues.)

Note: Your instructor is your primary human resource for help when you are lost or having trouble. Seek help immediately if you are encountering problems even after reading and re-reading the text section(s) and listening to/thinking about the online videos. See the instructor during office hours, make an appointment, email or call. Don't wait too long to get help!!

If a crisis comes up that interferes with the class, communicate with your instructor in a timely manner. Too many students wait until it is too late to inform their instructor about their crisis and that reduces the options that students may have to complete the course with a grade of C or better or to receive a CR grade.

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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.*

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**IMPORTANT DATES**

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<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Jan 13</td>
<td>Late registration and add/drop period begins</td>
</tr>
<tr>
<td>Jan 17</td>
<td>Late registration and in-person add/drop ends</td>
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<tr>
<td></td>
<td>Last day for 100% refund of tuition/student fees</td>
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<tr>
<td>Feb 3</td>
<td>Last day for 50% refund of tuition/student fees</td>
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<tr>
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<td>Last day for erase period (withdraw without a W)</td>
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<tr>
<td>Mar 20</td>
<td>Last day to withdraw with a &quot;W&quot; or choose CR/NC grade option</td>
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<tr>
<td></td>
<td>Last day to make up &quot;I&quot; grade from fall semester</td>
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