Math 100 Survey of Mathematics
3 Credits (CRN 60121)
Online

INSTRUCTOR: Kevin A. Takayama, Instructor
OFFICE: Hale Mana'opono 105
OFFICE HOURS: M-Th 11:15 AM – 12:15 PM or by appointment
Available via email.
Face-to-face or video conference can be arranged.
TELEPHONE: 236-9283 EMAIL: ktakayam@hawaii.edu
EFFECTIVE DATE: Spring 2019
MAIN WEBSITE: MyMathLab.com <<Course ID: takayama57108>>

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 the Ko‘olau region of O‘ahu and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

CATALOG DESCRIPTION

Math 100: Survey of Mathematics (3 credits)
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): C or better in MATH 25, 26, 28, 29, 75X or higher or equivalent, co-requisite enrollment in Math 78, satisfactory math placement test score, or consent of instructor.

Activities Required
MyMathLab is an online learning resource. All of your assignments (homework, quizzes, tests, etc.) will be conducted through MyMathLab. Most homework exercises include learning aids, such as guided solutions, sample problems, and extra help as you're working through them, and they offer helpful feedback when you enter incorrect answers. A variety of multimedia resources are also available in the homework exercises. You can link to the ebook, video clips, and animations to improve your understanding of key concepts. Videos are captioned in English, and several courses are also captioned in Spanish.
GETTING STARTED WITH THIS ONLINE COURSE

1. Go to www.MyMathLab.com and click on Student under Register Now.
2. Enter the Course ID takayama57108 when required.
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. (There is also an option to get temporary access without payment for 14 days. This option link is toward the bottom of the screen.)
5. Note that you may need to turn off the browser’s pop-up blocker so that some plug-ins can be installed.
6. The link below provides detailed information on how to register for MyMathLab: https://help.pearsoncmg.com/myp/myp_instr/Content/enrollment/enroll_students_myp.html?cshid=how_students_enroll_myp

STUDENT LEARNING OUTCOMES

As a result of taking this course, students can expect to attain the following outcomes:
1. Utilize basic properties and/or operations related to the topics covered in the course
2. Utilize basic properties and/or operations related to the topics covered in the course
3. Utilize precise mathematical language and symbols to effectively communicate mathematics in written and/or oral form

FOUNDATION HALLMARKS

Math 100 fulfills 3 credits of the General Education requirements (Foundations: Quantitative Reasoning) for both an A.A. degree at WCC and a Bachelor’s degree at UH Manoa. To satisfy the Quantitative Reasoning requirement, a course will

1. provide students with theoretical justifications for, and limitations of, mathematical or statistical methods, and the formulas, tools, or approaches used in the course.
2. include application of abstract or theoretical ideas and information to the solution of practical quantitative reasoning problems arising in pure and applied research in specific disciplines, professional settings, and/or daily and civic life.
3. provide opportunities for practice and feedback that are designed to help students evaluate and improve quantitative reasoning skills by including a course component at least once per week with a maximum 30:1 student-to-teacher ratio.
4. be designed so that students will be able to
   a. identify and convert relevant quantitative information into various forms such as equations, graphs, diagrams, tables, and/or words;
   b. select appropriate techniques or formulas, and articulate and evaluate assumptions of the selected approaches;
   c. apply mathematical tools and perform calculations (including correct manipulation of formulas);
   d. make judgments, create logical arguments, and/or draw appropriate conclusions based on the quantitative analysis of data, the assumptions made, the limitations of the analysis, and/or the reasonableness of results; and
   e. effectively communicate those results in a variety of appropriate formats.
COURSE CONTENT

Concepts or Topics

- Algebra: Graphs and Functions
- Personal Finance
- Logic
- Counting Methods
- Probability
- Statistics

Skills or Competencies/Responsibilities of Students. Success in this course will be enhanced by:

1. a positive, inquiring attitude towards mathematics;
2. setting aside adequate time for studying and working of problems;
3. reading the text carefully and making use of other learning materials whenever necessary;
4. seeking assistance from the instructor and the Math Lab personnel whenever necessary;
5. completing assignments by the designated date;
6. regular class attendance, participation and maintaining accurate class notes.

COURSE TASKS

The mode of instruction is primarily discussion-problem solving where the initial portion of each class period may be utilized to discuss and clarify any questions from the preceding class meeting and/or assignment, and the remaining portion is used to discuss new material. Lectures, directed student explorations, group work, appropriate technologies, and projects will also be used as appropriate. After the completion of each unit, a review and an exam will be conducted.

ASSESSMENT TASKS AND GRADING

The student will demonstrate competency in the objectives by participating in and completing all class activities, by completing all assignments as requested, by taking unit tests, and by taking a final exam over concepts and skills covered in the entire course.

Unless permission is granted by the instructor beforehand, assignments, quizzes, and tests must be completed at the specified date and time.

Points will be assigned to each graded assignment, class activity, weekly quiz, and tests as follows:

**Homework.** MyMathLab Homework sets will be graded on a 0 - 10 point scale. Assignments must be completed by the designated date.

I encourage you to collaborate on the homework by utilizing the Discussion board on Laulima to communicate with each other. While working on HW assignments there is a Question Help menu at the top right of the page. There you will find Help Me Solve This and View an Example. There is also a link to the ebook. Note that you can redo each homework problem as many times by clicking the similar exercise tab, until you get it right. Therefore, it is possible for you to get 100% on each homework assignment. For additional help on the homework, you are welcome to contact me or make an appointment for consultation.

**Weekly Quizzes.** Weekly quizzes will be graded on a 0 - 10 point scale. Quizzes must be completed by the designated date.
**Exams.** There will be three proctored exams in this course worth 100 points each, one proctored mini exam worth 50 points, and one proctored comprehensive final worth 200 points. There are no retests. All exams must be taken at one of UH testing center unless prior arrangement has been made with instructor. You will be asked to show your work for multistep problems on a sheet provided to receive full credit. Exam reviews will be made available to assist you in studying for the proctored exams. Note that there is a 100-minute time limit on each unit exam and a 200-minute time limit on the final exam. The best way to prepare for the exams is to go through the exam review and study homework problems. The instructor will provide further information regarding the use of a calculator or other aides for each exam. The calendar at the end of the syllabus contains information on when to take your exams at the testing center.

**Testing site.** Your default test-taking site will be The Testing Center (TTC) located in the Library and Learning Common room 228 at Windward Community College. You may go to [http://windward.hawaii.edu/testing_center](http://windward.hawaii.edu/testing_center) 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 neighbor islands, please let me know your preferred test taking location during the 1st week of instruction. The website [https://www.hawaii.edu/dl/testcenters](https://www.hawaii.edu/dl/testcenters) provides information on all available testing sites in Hawaii. If you are living (or traveling) outside of The State of Hawaii, please contact me to arrange your testing site.

**Course grade.** 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>GRADE</th>
<th>DEFINITION</th>
<th>Note:</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90% - 100% of the total possible points</td>
<td>Students must apply for the Cr/NC grading option at the Admissions Office. Consult the WCC Catalog for deadlines.</td>
</tr>
<tr>
<td>B</td>
<td>80% - &lt;90% of the total possible points</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>70% - &lt;80% of the total possible points</td>
<td>W grade is given only when the student officially withdraws from the course at the Admissions Office. Consult the WCC Catalog for deadlines.</td>
</tr>
<tr>
<td>Cr</td>
<td>70% - 100% of the total possible points</td>
<td>Note:</td>
</tr>
<tr>
<td>NC</td>
<td>&lt;70% of the total possible points</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>60% - &lt;70% of the total possible points</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>&lt; 60% of the total possible points</td>
<td></td>
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</tbody>
</table>

**Percentage Breakdown**

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<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>Homework</td>
<td>40%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10%</td>
</tr>
<tr>
<td>Unit Exams</td>
<td>30%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
</tbody>
</table>

Total: 100%
LEARNING RESOURCES

Text: The primary textbook for this course is “Thinking Mathematically” 6th edition by Blitzer. When buying a hard copy of this textbook, please make sure that it comes with a valid MyMathLab access code. Purchasing a hard copy of this textbook is not required since all course material including the e-book is available online at www.MyMathLab.com. We will utilize most of the tools available through this website. You must get an access code for this course to use all course material. You can buy it directly when registering for the course online or buy the textbook at WCC bookstore, which comes with the access code. If you are planning to use third party vendor to purchase textbook, use ISBN: 9780321999061 (Make sure it comes with a MyMathLab Access Code valid for at least one semester). In addition, students are expected to have a reliable computer with internet access and a scientific calculator.

Required Material: Scientific calculator. Graphing calculators are not permitted.

Required MyMathLab Access: Our course ID for this semester: takayama57108

TRiO: Hale Kākoʻo 116  
The Math Lab: Laʻakea 220  
UH Manoa Online Learning Academy: manoa.hawaii.edu/ola/  
Tutor.com: 24/7 online tutoring that connects students one-to-one with a subject expert tutor

ADDITIONAL INFORMATION

1. Consultations. Students are required to have at least two formal consultations with me during the term that can be done face-to-face, over the phone, or through video conferencing. The first consultation should be done during the first week of instruction so that I can go over any questions you may have on the syllabus, homework assignments, exams, or getting acquainted with the online system. The second consultation can be done around mid-semester to check on your progress, get help on HW or exam reviews, or discuss any concerns you or I may have. A consultation can also be done toward the end of the semester to get help studying for the final exam or to discuss grades. The key to doing well in this online course is to complete your work well in advance of the due dates and to not procrastinate.

2. Laulima. The syllabus, course calendar, homework schedule, grades, etc. are all viewable through Laulima. Check Laulima regularly to stay up to date.
3. **Communication.** The instructor may need to contact you throughout the semester and will do so via email. It is your responsibility to check your student email on a regular basis.

The following method will be used for communication, which is an essential part of this course:
- You can send me an email anytime and I will do my best to respond within a reasonable time. This is probably the best way to reach me.
- If you need to speak with me, you can call me at my office (808-236-9283). If I am unavailable, please leave a message with your name, number, and a brief summary of your reason for calling.
- If you live nearby, you may request a face-to-face meeting.
- If you do not live nearby and visual communication is necessary, such as help on complicated problems, a video conference can be arranged using Zoom.

4. **Getting Help.** I encourage you to reach out to me for help anytime you are struggling. Feel free to send me an email anytime or request a video conference with advanced notice. You may get additional help by utilizing the free tutoring service by going to the Math Lab located in the WCC library or at your native campus. Other than what is already listed in the Learning Resources section, you may also utilize the following websites:
  - [https://www.khanacademy.org](https://www.khanacademy.org) – Provides small lecture videos on selected topics.
  - [https://www.wolframalpha.com](https://www.wolframalpha.com) – Provides computational tools, facts, and examples.

5. **MySuccess.** At Windward community college we want every student to be successful. MySuccess is a system wide effort that seeks to support students early in the semester when they first begin experiencing difficulty in class. If I feel that you're having difficulty in my class within the first few weeks of the semester (e.g. missing class, missing assignments, or low test scores) and working together to address your challenges shows that you would really benefit from being connected to resources outside of the classroom, I may refer you to your assigned counselor. Once referred, MySuccess will:
  - Call you and send an email to your Hawaii.edu account to let you know about my referral; and
  - have the MySuccess team follow up with you by phone or email to find out what kinds of help you might need and connect you with the necessary resources to help you devise a strategy for success.

I will not refer you without telling you. However, if I do refer you, know that I am doing so in an effort to connect you with all of the help you may need to do well this semester as your success is important to me.

**DISABILITIES ACCOMMODATIONS**

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 ‘Ākoakoa 213 for more information.

**TITLE IX**

Title IX prohibits discrimination on the basis of sex in education programs and activities that receive federal financial assistance. Specifically, Title IX prohibits sex discrimination; sexual
harassment and gender-based harassment, including harassment based on actual or perceived sex, gender, sexual orientation, gender identity, or gender expression; sexual assault; sexual exploitation; domestic violence; dating violence; and stalking. For more information regarding your rights under Title IX, please visit: https://windward.hawaii.edu/Title_IX/.

Windward Community College is committed to the pursuit of equal education. If you or someone you know has experienced sex discrimination or gender-based violence, WCC has resources to support you. To speak with someone confidentially, contact the Mental Health & Wellness Office at 808-235-7393 or Kaahu Alo, Designated Confidential Advocate for Students, at 808-235-7354 or kaahualo@hawaii.edu. To make a formal report, contact the Title IX Coordinator, Karla K. Silva-Park, at 808-235-7468 or karlas@hawaii.edu.

ACADEMIC INTEGRITY

Work submitted by a student must be the student’s own work.

In this class, students who commit academic dishonesty, cheating or plagiarism will have the following consequence(s):

Students will receive a failing grade for plagiarized assignments.

All cases of academic dishonesty are referred to the Vice Chancellor for Student Affairs.

ALTERNATE CONTACT INFORMATION

If you are unable to contact the instructor, have questions that your instructor cannot answer, or for any other issues, please contact the Academic Affairs Office:
Location: Alakai 121
Phone: 808-235-7422
Email: wccaa@hawaii.edu
## Guided Schedule to Complete Math 100 During the Spring 2019 Semester

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates (M-F)</th>
<th>Assignments to Complete</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1/7 – 1/1</td>
<td>Read the Syllabus, Register for MyMathLab, Consultation, Testing Site Request, HW: Sections 7.1 &amp; 7.2</td>
</tr>
<tr>
<td>2</td>
<td>1/14 – 1/18</td>
<td>HW: Sections 7.6 &amp; 8.5</td>
</tr>
<tr>
<td>3</td>
<td>1/21 – 1/25</td>
<td>HW: Sections 8.6 &amp; 8.7</td>
</tr>
<tr>
<td>4</td>
<td>1/28 – 2/1</td>
<td>HW: Sections 8.8 &lt;br&gt; Exam 1 Review</td>
</tr>
<tr>
<td>5</td>
<td>2/4 – 2/8</td>
<td>HW: Sections 3.1 &amp; 3.2</td>
</tr>
<tr>
<td>6</td>
<td>2/11 – 2/15</td>
<td>HW: Sections 3.3 &amp; 3.4</td>
</tr>
<tr>
<td>7</td>
<td>2/18 – 2/22</td>
<td>HW: Sections 3.5 &amp; 3.6</td>
</tr>
<tr>
<td>8</td>
<td>2/25 – 3/1</td>
<td>HW: Sections 3.7 &amp; 3.8 &lt;br&gt; Exam 2 Review &amp; Consultation</td>
</tr>
<tr>
<td>9</td>
<td>3/4 – 3/8</td>
<td>HW: Section 11.1</td>
</tr>
<tr>
<td></td>
<td>3/18 – 3/22</td>
<td>Spring Recess</td>
</tr>
<tr>
<td>11</td>
<td>3/25 – 3/29</td>
<td>HW: Sections 11.5 &amp; 11.6</td>
</tr>
<tr>
<td>12</td>
<td>4/1 – 4/5</td>
<td>HW: Sections 11.7 &amp; 11.8 &lt;br&gt; Exam III Review</td>
</tr>
<tr>
<td>13</td>
<td>4/8 – 4/12</td>
<td>HW: Sections 12.1 &amp; 12.2</td>
</tr>
<tr>
<td>14</td>
<td>4/15 – 4/19</td>
<td>HW: Sections 12.3, 12.4, &amp; 12.5</td>
</tr>
<tr>
<td>15</td>
<td>4/22 – 4/26</td>
<td>Exam IV Review &lt;br&gt; Mini Exam IV</td>
</tr>
<tr>
<td>16</td>
<td>4/29 – 5/1</td>
<td>Consultation &lt;br&gt; Final Exam Review</td>
</tr>
<tr>
<td>17</td>
<td>5/6 – 5/10</td>
<td>Final Exam Week – All Course Work Must be done prior to taking the Final Exam</td>
</tr>
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Windward Community College is an equal opportunity, affirmative action institution.