Math 100 — Survey of Mathematics (FS / 3 Credits)

INSTRUCTOR: Navtej (Johnny) Singh
E-MAIL: navtej@hawaii.edu << This is the best way to get in touch - include name & class information >>
OFFICE INFORMATION: Location: Manaopono 110 | Telephone #: (808) 236 – 9278
OFFICE HOURS: Available via email << In person meeting or video conference can be arranged >>
EFFECTIVE DATE: Summer 2018 1st Term << May 21, 2018 through June 29, 2018 >>
MAIN WEBSITE: www.MyMathLab.com << Course ID: singh79193 >>

Windward Community College (WCC) 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 hours lecture)
Pre-Requisite(s): C or better in MATH 25, 26, 28, 29, 75X or higher or equivalent, satisfactory math placement test score, or consent of instructor.

Getting Started With This Online Course

- Go to www.MyMathLab.com and click on student under register.
- Enter the Course ID singh79193 when required.
- Follow the online instructions to complete the registration process.
- There will be an option to either buy an access code or enter the one that came with your textbook.
- Note that you may need to turn off pop-up blocker so that some plug-ins can be installed.
- Link below provide detail information on how to register for MyMathLab: https://help.pearsoncmg.com/myp/myp_instr/Content/enrollment/enroll_students_myp.htm?cshid=how_students_enroll_myp
Learning Resources and Materials

Primary textbook for this course is “Thinking Mathematically” 6th edition by Blitzer. When buying 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 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-13: 9780321923233 (Make sure it comes 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.

Foundations 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 (also listed in the catalog).

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.

Student Learning Outcomes

Upon completion of the course, the student will be able to:

- Utilize basic properties and/or operations related to the topics covered in the course
- Employ symbolic/mathematical techniques to solve applied problems
- 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, quizzes, or exams.

Disabilities Accommodation

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 (808) 235-7448, lemke@hawaii.edu, or you may stop by Hale Akoakoa 213 for more information.
Tasks and Grading

<table>
<thead>
<tr>
<th>Point Distribution</th>
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</thead>
<tbody>
<tr>
<td>Homework</td>
<td>27</td>
</tr>
<tr>
<td>27 HW Assignments @ 10 points each</td>
<td>270</td>
</tr>
<tr>
<td>Consultations</td>
<td>03</td>
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<tr>
<td>Two During the Term @ 15 points each</td>
<td>030</td>
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<tr>
<td>Exams</td>
<td>03</td>
</tr>
<tr>
<td>Three @ 100 points each</td>
<td>300</td>
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<tr>
<td>Final Exam</td>
<td>03</td>
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<tr>
<td>Combination of Everything Learned in Class</td>
<td>200</td>
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<tr>
<td>Total Points</td>
<td>800</td>
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Letter grades will be assigned based on the following standard scale:
A ⇒ 90% ↑; B ⇒ 80% ↑; C ⇒ 70% ↑; D ⇒ 60% ↑; F ⇒ below 60%;

Other grade options include N, CR, NR, I, and W. See the following information for detail:

"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.

The CR/NC grades require written instructor consent. Overall score of 70% or higher is consider CR and below 70% is NC. 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.

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

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.

Exams

There will be three proctored exams in this course worth 100 points each and one proctored comprehensive final worth 200 points. All exams must be taken at one of UH testing center unless prior arrangement has been made with instructor. You may be asked to show your work for multistep problems on sheet provided to receive full credit. An exam reviews will be made available to assist you in studying for the proctored exams. Note that there is 100-minutes time limit on each unit exam and 200-minutes time limit on the final exam. Best way to prepare for the exam is to study homework problems along with exam review. Instructor will provide further information regarding the use of a calculator or other aid for each exam. 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 neighboring islands, please let me know your preferred test taking location during the 1st week of instruction. The website [http://www.hawaii.edu/dl/faculty/prep/proctor_office.html](http://www.hawaii.edu/dl/faculty/prep/proctor_office.html) 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.

**Homework** All homework assignments are available online at MyMathLab.com. I encourage you to collaborate on the homework by utilizing the online tools such as message board to communicate with each other. There is also help me solve, view similar example, and watch lecture video option available. Note that you can redo each homework problem as many times by clicking the similar exercise tab, till 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. For suggested HW due dates, refer to the calendar on last page of the syllabus.

**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 video conference with advance notice. You may get additional help by utilizing the free walking tutoring service by going to the math lab located in WCC library room 226 or at your native campus. You may also utilize the following websites:
- [http://manoa.hawaii.edu/ola](http://manoa.hawaii.edu/ola) - Provides free live interactive tutoring during weekdays
- [http://www.khanacademy.org](http://www.khanacademy.org) – Provides small lecture videos on selected topics
- [www.wolframalpha.com](http://www.wolframalpha.com) – Provides computational tools, facts, and examples.
- [wcc.hawaii.edu/brainfuse](http://wcc.hawaii.edu/brainfuse) - This is a free online 24 hours live online tutoring, available through myuh.hawaii.edu (find Brainfuse link under my tools).

**Consultation:** Students are required two formal communications with me during the term that can be done by face to face meeting, over the phone, via email, or over video conference. First consultation should be done during the first few days of instruction so that I can go over any questions you may have on syllabus, homework assignments, exams, or getting started use the online system. Second consultation can be done around mid-term to check on your progress, get help on HW or exam review, or discuss any concern you may have. A consolation can also be done toward the end of semester to get help on final exam review or discuss grades. Key to doing well in this online course is to complete your work well in advance of due date and do not procrastinate.
Contact: The following methods will be used for communication (essential part of this course):

- You can send me an e-mail anytime and I will do my best to response within reasonable time. 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 – 9278. Please leave a message with your name and number for me to return your call.
- You can live nearby you may request a face-to-face meeting.
- If you live at a distance and visual communication is necessary, such as help on complicated homework problems, a video communication can be arranged using tools such as Skype, google video, or blackboard celebration.
- Online discussion board can be used to interact with classmates by asking homework questions and answering previously posted problems. I will also post answer to commonly asked questions on the discussion board.

Important Info: Please check your @hawaii.edu e-mail account frequently for important announcements. This syllabus is subject to change in extenuating circumstances. Student must complete all online homework assignments, quizzes, and exams including final within this term. I highly recommend that you do not fall behind and use the guided due dates for quizzes, homework assignments, and exams found on the calendar included in this syllabus. For important academic information refer to WCC website www.windward.hawaii.edu or go to www.hawaii.edu for system wide information. Plagiarism, copying, or use another person’s work without proper acknowledgment is not permitted and may result in failing grade for the course. Make-up work beyond designated due dates is not allowed. To succeed in this online Math class, do not procrastinate and complete your tasks in timely manner.
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<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
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<tbody>
<tr>
<td>5/21 Read Syllabus/Consultation/ Email Questions/Testing Site Request/Setup MML</td>
<td>5/22 HW #1 - Section 7.1 HW #2 - Section 7.2</td>
<td>5/23 HW #3 - Section 7.6</td>
<td>5/24 HW #4 - Section 8.5</td>
<td>5/25 HW #5 - Section 8.6</td>
</tr>
<tr>
<td>5/28 Holiday - Memorial Day</td>
<td>5/29 HW #6 - Section 8.7</td>
<td>5/30 HW #7 - Section 8.8</td>
<td>5/31 Suggested Date to Exam 1 at the Testing Center</td>
<td>6/1 HW #8 - Section 3.1 HW #9 - Section 3.2</td>
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<tr>
<td>6/4 HW #10 - Section 3.3 HW #11 - Section 3.4</td>
<td>6/5 HW #12 - Section 3.5 HW #13 - Section 3.6</td>
<td>6/6 HW #14 - Section 3.7</td>
<td>6/7 HW #15 - Section 3.8</td>
<td>6/8 Suggested Date to Exam 2 at the Testing Center</td>
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<tr>
<td>6/11 Holiday - Kamehameha Day (Observed)</td>
<td>6/12 HW #16 - Section 11.1 HW #17 - Section 11.2</td>
<td>6/13 HW #18 - Section 11.3</td>
<td>6/14 HW #19 - Section 11.4</td>
<td>6/15 HW #20 - Section 11.5</td>
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<tr>
<td>6/18 HW #21 - Section 11.6</td>
<td>6/19 HW #22 - Section 11.7</td>
<td>6/20 Suggested Date to Exam 3 at the Testing Center</td>
<td>6/21 HW #23 - Section 12.1 HW #24 - Section 12.2</td>
<td>6/22 HW #25 - Section 12.3</td>
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<tr>
<td>6/25 HW #26 - Section 12.4</td>
<td>6/26 HW #27 - Section 12.5</td>
<td>6/27 Final Exam Review Consultation Discuss Projected Grades</td>
<td>6/28 Suggested date to take Final Exam at Testing Center</td>
<td>6/29 Last Day for Makeup Work</td>
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