Course Syllabus

Math 100 — Survey of Mathematics (FS / 3 Credits / CRN# 60030)

INSTRUCTOR: Navtej (Johnny) Singh
E-MAIL: navtej@hawaii.edu <This is the best way to get in touch>
OFFICE: Manaapono 110
OFFICE HOURS: MT RF 9:30am – 10:30am & by appointment
TELEPHONE: (808) 236 – 9278 <Use this during office hours for help on long questions>
EFFECTIVE DATE: Summer 2012 <May 21 to June 29>
MAIN WEBSITE: www.coursecompass.com <Powered by MyMathLab>

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 non-science/non-mathematics 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. Prerequisite for this course is grade of “C” or better in MATH 25 or MATH 28 or equivalent, satisfactory math placement test score or consent of instructor.

Learning Resources and Materials

Required textbook for this course is “Thinking Mathematically” custom edition for WCC (2nd ed. custom / 4th ed. standard), by Blitzer. When buying 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 material including e-book is available online. Buying just an access code may be cheaper than buy the textbook with code. Everything you need for this course is available online at the coursecompass.com website. 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 get this one of two ways: Buy it directly when registering for the course online or buy the textbook at WCC bookstore which comes with the access code.

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 listed in the catalog.
Getting Started With This Online Course

- Go to [www.coursecompass.com](http://www.coursecompass.com) and click on student under register.
- Enter the Course ID *singh05514* 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.
- For video tutorial use this link: [http://tours.pearsoncmg.com/smscc/index.html](http://tours.pearsoncmg.com/smscc/index.html)
- Note that you may need to turn off pop-up blocker so that some plug-ins can be installed.
- For technical problems call Tech Support at 800-677-6337, Monday – Friday 9am – 6pm EST.
- You can also talk to live tutor via toll free 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, quizzes, or exams.*

Assessment, Tasks, and Grading

Point Distribution

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<tr>
<th></th>
<th>Description</th>
<th>Points</th>
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<tbody>
<tr>
<td>Exams</td>
<td>(Three Exams @ 50 points each)</td>
<td>150</td>
</tr>
<tr>
<td>Homework</td>
<td>(26 assignments @ 5 points each)</td>
<td>130</td>
</tr>
<tr>
<td>Quizzes</td>
<td>(7 quizzes @ 20 points each)</td>
<td>140</td>
</tr>
<tr>
<td>Final Exam</td>
<td>(comprehensive)</td>
<td>100</td>
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<td>Total</td>
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Grades: Letter grades will be assigned based on the following scale:
- A ⇒ 90% ↑
- B ⇒ 80% ↑
- C ⇒ 70% ↑
- D ⇒ 60% ↑
- F ⇒ below 60%

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.
Exams
There will be three proctored exams for this course, worth 50 points each and one proctored comprehensive final worth 100 points. All exams are available via www.coursecompass.com and must be taken at WCC testing center unless prior arrangement has been made with instructor. An exam reviews are also available online to assist you in studying for the proctored exams. Note that there is 100 minute time limit on each unit exam and 200 minute time limit on the final exam. Best way to prepare for the exam is to study homework and quiz problems along with exam review.

Testing Site:
Your default test taking site will be The Testing Center (TTC) located in the Alaka'i building room 106 at WCC. You may go to 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 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 2nd day of instruction. The website http://www.hawaii.edu/dl/faculty/prep/proctor_office.html provides information on all available testing sites in Hawaii.

Quizzes
There are 7 online quizzes worth 20 points each. Each quiz covers the material learned on indicated homework sections. It is highly recommended that you complete required homework before taking the quiz. There is 50 minute time limit for each quiz. To improve your quiz score, each quiz may be taken up to three times.

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 is help me solve, view similar example, and watch lecture video option is available. Note that you can work on each homework problem as many times by clicking the similar exercise tab, till you get it right. So, it is possible for you to get 100% on each homework assignment. To receive additional help on the homework, students are welcome to come by my office during the office hours or make an appointment for consultation.

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 summer session term. I highly recommend that you do not fall behind 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, or copying and use of another's work without proper acknowledgment, is not permitted and may result in failing grade for the course. Make-up for any missed exams or quizzes are not allowed after the due date.

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 or Skype me (ID: nsj006) with advanced noticed. You may get additional help by utilizing the free walking tutoring service by going to the math lab located in at windward community college or at your native campus. 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.

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 day of instruction so that I can go over any questions you may have regarding the syllabus, quizzes, 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. Key to doing well in online course is to complete your work well in advance of due date and do not procrastinate.

Contact: The following methods will be used to communicate:
• You can send me an e-mail anytime and I will do my best to response within 24 hours (perhaps 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 – 9278 during my office hours or leave a message with local number for me to return your call.
• 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 of homework problems.
• If you live at a distance and visual communication is necessary such as help on complicated homework problems, you can connect with me via Skype using the id nsj006. You need to make an arrangement for this, since I only login to Skype when needed.
• Online discussion board can be used to interact with classmates by asking homework questions and answering previously posted problems.

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)

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 your 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.
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<td>HW Section 7.6</td>
<td>HW Section 2.1</td>
<td>HW Section 2.3</td>
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<td>Exam 2 at Testing Center</td>
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<td>Quiz #5</td>
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<td>Quiz #7</td>
<td>Review for Final</td>
<td>Additional Review</td>
<td>Final Exam at TTC</td>
<td>Discuss Overall Grade</td>
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