Course Syllabus

Math 22 — Pre-Algebra Mathematics (3 Credits)

INSTRUCTOR: Navtej (Johnny) Singh
E-MAIL: navtej@hawaii.edu
OFFICE: Manaopono 110
OFFICE HOURS: M W 12:30pm – 1:20pm, F 9:30am – 10:20am T TR 1:30pm – 3:00pm,
T TR 5:00pm – 5:30pm, and by Appointment.
TELEPHONE: (808) 236 – 9278
EFFECTIVE DATE: Fall 2010

<table>
<thead>
<tr>
<th>CRN</th>
<th>Class Meeting</th>
<th>Days</th>
<th>Classroom</th>
</tr>
</thead>
<tbody>
<tr>
<td>60056/60422</td>
<td>11:30am – 12:20pm</td>
<td>MWF</td>
<td>Manaopono 102</td>
</tr>
<tr>
<td>60057</td>
<td>11:15am – 12:30pm</td>
<td>T TR</td>
<td>Manaopono 102</td>
</tr>
<tr>
<td>60187</td>
<td>05:30pm – 06:45pm</td>
<td>T TR</td>
<td>Manaopono 102</td>
</tr>
</tbody>
</table>

Windward Community College Mission Statement

Windward Community College is committed to excellence in the liberal arts and career development; we support and challenge individuals to develop skills, fulfill their potential, enrich their lives, and become contributing, culturally aware members of our community.

Program Learning Outcomes for the A.A. degree

This course addresses the following Program Learning Outcomes:

- Draw on knowledge from the liberal arts to succeed in upper division courses. [Major]
- Use research and technology skills to access information from multiple sources; use critical thinking and problem-solving skills to evaluate and synthesize information to form conclusions, ideas, and opinions. [Major]
- Express ideas clearly and creatively in diverse ways through the fine and performing arts, speech and writing. [Major]
- Enter and perform effectively in the work force. [Incidental]
- Develop skills that improve personal well-being and enhance professional potential. [Incidental]
- Use knowledge and skills to maintain and improve mental and physical well-being. [Incidental]
- Pursue lifelong learning. [Incidental]
Student Learning Outcomes for Math 22

Students will be able to:

1. Utilize precise mathematical language and symbols in written and/or oral form.
2. Demonstrate proficiency in performing operations with whole numbers, fractions, mixed numbers, decimal numbers, integers, real numbers, and variable expressions.
3. Utilize fundamental properties to solve equations.
4. Use algebraic techniques to analyze and solve applied problems.
5. Employ mathematical formulas to determine measurements in geometric figures.
6. Apply concepts and principles of percents to solve applied problems.

Catalog Description

This course prepares students who want to strengthen computation and problem solving skills before proceeding to an elementary algebra course. This course includes a brief review of arithmetic, the concept of variables, using rational numbers, solving simple equations in one variable, percent, measurement, ratio and proportion, geometry formulas, square roots, and word problems. Prerequisite for this course is C or better in Math 20 or equivalent, satisfactory math placement test score, or consent of instructor.

Learning Resources and Materials

Required textbook for this course is “Developmental Mathematics,” (Customized for WCC), by Bittinger and Beecher. Make sure that your textbook come with a valid access code.

Point Distribution

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>300</td>
</tr>
<tr>
<td>Pop-Quizzes</td>
<td>200</td>
</tr>
<tr>
<td>Exams</td>
<td>400</td>
</tr>
<tr>
<td>Final Exam</td>
<td>200</td>
</tr>
<tr>
<td>Total</td>
<td>1100</td>
</tr>
</tbody>
</table>

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.

**Exams:** There will be four unit exams and a cumulative final. You will be given 50 minutes to complete each exam. Best way to prepare for the exams is to study examples presented in the class and homework problems. Calculators are not permitted on the exams.

**Quizzes** There will be at least ten pop-quizzes during the semester. I will try to give you one or two extra quizzes so that you can drop one.

**Homework:** Your first homework is will be provided to you as a handout. All other homework assignments will become available online at www.mathxl.com in timely manner. To access the homework, you must first register at this website using the steps described on the MathXL handout. The software has various build in help but to receive additional help on the homework simply come to my office during office hours or make an appointment for consultation. I will also use some class time to go over various homework problems. Throughout the semester you will be required to complete 28 online homework assignments along with a review handout and a final review sheet.

### Department Policies for Math Courses under 100

1. **To pass this course,** each student must score at least 70% of the total points on each unit exam and at least 60% on the final exam. Until these minimums are met, grades of A, B, C, D or CR cannot be assigned. In other words, if a student does not meet the two criteria above, they must obtain the F grade for the course, unless they are qualified for a N or NC grade.

2. **Because of minimum competencies,** retesting is provided. Students may retake every unit exam to either meet the 70% minimum or to improve their grade if the minimum was already achieved in the in-class version of the exam (first attempt). Only one retest per unit is allowed without penalty if done by the specified deadline, with exceptions at the discretion of the instructor. Final exam can only be retaken if you scored below 60%.

### Important Information

**Disabilities:** 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.

**Attendance:** All students are expected to be on time and stay until the end. If you are absent from the class, it is your responsibility to check on announcements made while you were absent. If you stop attending this class for any reason, it is your responsibility to drop it. For important deadlines consult the schedule of courses.
Plagiarism: Plagiarism, or copying and use of another’s work without proper acknowledgment, is not permitted. A student caught cheating, may result in failing grade for the course.

Important Info: Please check your WCC e-mail account frequently for important announcements. Note this syllabus is subject to change in extenuating circumstances. For additional academic information refer to WCC website www.windward.hawaii.edu or go to www.hawaii.edu for system wide information.

Make-up Work: There is no make-up for any quizzes, exams, in-class activity, and graded assignments that you missed due to an unexcused absent. If you must be absent on an exam day, notify the instructor at least one hour prior to the exam. E-mail is the preferred method of communication.

Note: It is highly recommended that you free up at least 10 hours per week outside of the class time to study for the course and work on homework assignments.
Math 22 [Tentative] Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates (M-F)</th>
<th>Topics / Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>08/23 - 08/27</td>
<td>Review of Selected Topics from Ch 1 - 3</td>
</tr>
<tr>
<td>2</td>
<td>08/30 - 09/03</td>
<td>4.1, 4.2, &amp; 4.3</td>
</tr>
<tr>
<td>3*</td>
<td>09/06 - 09/10</td>
<td>4.4 &amp; 4.5</td>
</tr>
<tr>
<td>4</td>
<td>09/13 - 09/17</td>
<td>4.6, 4.7, &amp; Review</td>
</tr>
<tr>
<td>5</td>
<td>09/20 - 09/24</td>
<td>Exam - CH 4, 7.1 &amp; 7.2</td>
</tr>
<tr>
<td>6</td>
<td>09/27 - 10/01</td>
<td>7.5, 7.6, &amp; 7.3</td>
</tr>
<tr>
<td>7</td>
<td>10/04 - 10/08</td>
<td>7.2, 7.7, &amp; 7.8</td>
</tr>
<tr>
<td>8</td>
<td>10/11 - 10/15</td>
<td>Review, Exam - CH 7, 8.1</td>
</tr>
<tr>
<td>9</td>
<td>10/18 - 10/22</td>
<td>8.2, 8.3, &amp; 8.4</td>
</tr>
<tr>
<td>10</td>
<td>10/25 - 10/29</td>
<td>8.5, 8.6</td>
</tr>
<tr>
<td>11*</td>
<td>11/01 - 11/05</td>
<td>Review &amp; Exam – CH 8</td>
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<tr>
<td>12*</td>
<td>11/08 - 11/12</td>
<td>6.1 &amp; 6.2</td>
</tr>
<tr>
<td>13</td>
<td>11/15 - 11/19</td>
<td>6.3 &amp; 6.4</td>
</tr>
<tr>
<td>14*</td>
<td>11/22 - 11/26</td>
<td>6.5 &amp; 6.6</td>
</tr>
<tr>
<td>15</td>
<td>11/29 - 12/03</td>
<td>Review &amp; Exam – CH 6</td>
</tr>
<tr>
<td>16*</td>
<td>12/06 - 12/10</td>
<td>Review for Final</td>
</tr>
<tr>
<td>17**</td>
<td>12/13 - 12/17</td>
<td>Finals Week</td>
</tr>
</tbody>
</table>

**MWF 11:30am Class Final is on ____________________________
**T TR 11:15am Class Final is on ____________________________
**T TR 05:30pm Class Final is on ____________________________

*Holidays:  Labor Day – Monday September 6, 2010
Election Day – Tuesday November 2, 2010
Veterans’ Day – Thursday November 11, 2010
Thanksgiving Break – Thursday/Friday November 25-26, 2010
Non-Instructional Day – Friday December 10, 2010
MathXL is an interactive website where you can:

- Study more efficiently with a personalized study plan and exercises that match your book.
- Get help when you need it. MathXL includes multimedia learning aids, like videos and animations.

Before You Begin: - To register for MathXL you will need:

- A MathXL student access code (packaged with your new textbook or available for purchase at www.mathxl.com)
- Your school’s zip code: 96744
- A valid email address: ______________________
- Course ID: XL0J-61YS201Y18N2

Student Registration:

- Go to http://www.mathxl.com and click the Register button under “First Time User?” If you need to purchase access, click “Buy Now” and follow those screen to buy access and register.
- Read the License Agreement and Privacy Policy and click “I Accept.”
- On the Access Information Screen, you’ll be asked whether you already have a Pearson Education Account. Click:
  - “YES” if you have registered for other Pearson online products and already have a login name and password. Boxes will appear for you to enter your existing login information.
  - “NO” if this is the first time you have registered for a Pearson online product. Boxes will appear for you to create your login name and password.
  - “NOT SURE” if you want to check for a pre-existing account and receive an email with your login name and password.
- Type in your Access Code in the fields provided (one “word” per field) and click Next.
- Simply follow the registration screens and enter your information as prompted. You will enter your name, email address, school information and provide a security question/answer to ensure the privacy of your account.

Once your registration is complete, you will see a Confirmation screen (this information will also be emailed to you). Now that you have registered, click Log In button to continue to enroll in your instructor’s course gradebook.

Logging In:

- Go to www.mathxl.com, enter the login name and password you just created, and click Log In.
- Click the Enter MathXL button.
- The first time you log in to MathXL, you have the option of either enrolling in your instructor’s course or studying on your own: Click the Enroll button.
- Run the Browser Check or Installation Wizard to install any plug-ins or players your computer needs to run MathXL. After completing the installation process, and close the wizard you will be on your course home page!

Need help? - Contact Product Support at http://www.mathxl.com/support/contactus.htm for live CHAT, email or phone support. If at any time you forget your login name or password, go to www.mathxl.com and click “Forgot login name/password” to have it emailed to you!