Course Syllabus (Mode: F2F / Credits: 4 / Effective Date: Fall 2017)

Math 82 — ALGEBRAIC FOUNDATIONS

Instructor: Navtej (Johnny) Singh
E-Mail: navtej@hawaii.edu << This is the best way to get in touch. Provide name & class info>>
Office Location: Manaopono 110
Office Hours: T TH 9:30am – 11:30am, W 11:30am – 12:30pm, & by appointment
Office Telephone #: (808) 236 – 9278 << Use this during office hours for elaborate help>>

<table>
<thead>
<tr>
<th>CRN</th>
<th>Class Meeting</th>
<th>Day(s)</th>
<th>Classroom</th>
<th>MML ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>61297</td>
<td>11:30am – 1:20pm</td>
<td>Tu &amp; Th</td>
<td>Manaopono 101</td>
<td>singh89846</td>
</tr>
</tbody>
</table>

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

Catalog Description: MATH 82 covers elementary algebra topics. Topics include linear equations and inequalities, graphing, linear systems, properties of exponents, operations on polynomials, factoring, rational and radical expressions and equations, quadratic equations, and applications. Pre-Requisite(s): Satisfactory Placement, or a Grade of “C” or better in Math 21, Math 21B, Math 24, Math 28, or Math 75X.

Course Structure

Course Structure: This is a typical yearlong high school algebra equivalent course compressed into four-credit semester course preparing students for college algebra. To make efficient use of class time, students are expected to complete preliminary reading and assigned homework before coming to the class. The mode of instruction is primarily presentation-discussion-examples - problem solving where the initial portion of each class period will be utilized to discuss and clarify any questions from the preceding class meeting and/or assignments. Majority of the class time will be used to discuss new material. Lectures, directed student explorations, group work, and projects will be integrated into the course as needed. If time permit, students will be allowed to work on their MML homework during class, so bring your laptop (if possible).
Learning Resources and Materials

Required Textbook for this course is “Beginning Algebra”, 11th edition, by Lial, Hornsby and McGinnis. Make sure your textbook come with a valid access code for MyMathLab (MML). Students are also required to purchase a scientific calculator for this course. It is highly recommend that students have a reliable computer with access to broadband internet. While all course material (including homework) is available at www.MyMathLab.com, instructor may utilize http://laulima.hawaii.edu to post other handouts and grades.

MyMathLab Registration

- Go to www.MyMathLab.com and click on Register under students.
- Enter the Course ID singh89846 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.
- Tech support: https://support.pearson.com/getsupport/s/contactsupport or call 1-800-677-6337.

Student’s Responsibilities

Responsible students take ownership of their actions by exhibiting the following behaviors in this class:
- Take an active role in learning and seek immediate help when needed.
- Maintain a positive and inquiry attitude towards learning.
- Set aside adequate time for doing assignments and not waiting till the last minute to do assigned work.
- Complete assignments by the designated dates with attention to quality of work.
- Stay current and don’t procrastinate since new concepts are built on previously learned material.
- Actively communicate with instructor and reach out for help immediately.

Course Level Student Learning Outcomes

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

- Use algebraic techniques to analyze and solve applied problems
- Graph linear and quadratic equations
- Solve equations, inequalities, and systems
- Utilize precise mathematical language and symbols to effectively communicate mathematics in written and/or oral form

- All SLOs assessments are embedded in class activities, homework, quizzes, or exams.
Tasks and Grading

### Point Distribution

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>45 assignments @ 10 points each</td>
<td>450 pts</td>
</tr>
<tr>
<td>Portfolio</td>
<td>Written part of homework (see detail below)</td>
<td>050 pts</td>
</tr>
<tr>
<td>Exams</td>
<td>5 unit exams @ 100 points each</td>
<td>500 pts</td>
</tr>
<tr>
<td>Final Exam</td>
<td>Combination of Everything Learned in Class</td>
<td>200 pts</td>
</tr>
<tr>
<td>Total Points</td>
<td></td>
<td>1200 pts</td>
</tr>
</tbody>
</table>

Letter grades will be assigned based on the following standard scale

A \implies 90\% \uparrow; B \implies 80\% \uparrow; C \implies 70\% \uparrow; D \implies 60\% \uparrow; F \implies \text{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.

### Basic Rubrics for Grading Multistep and Word Problems

| Full Credit | - Shows complete understanding of a problem's mathematical concepts and procedures  
|            | - Performs algorithms correctly using appropriate notation and precise mathematical language  
|            | - Gives an elaborate and effective explanation of the solution process in an organized way  |
| Partial Credit | - Shows near understanding of the problem's mathematical concepts and procedures  
|             | - Using appropriate notation, performs algorithms completely that may contain minor errors.  
|             | - Identifies most relevant information and shows a general understanding  
|             | - selects an appropriate strategy for solving the problem  
|             | - Shows effective explanation and some evidence of a systematic solution process  |
Homework and Portfolio

All homework assignments are available at MyMathLab.com. Note that even though number of problems in each homework may vary but all homework assignments are worth equal credit. There will be 1% penalty per day on homework done after the due date. Your MyMathLab homework will be due typically the next class period after completing lesson (see MyMathLab for exact due dates). Since all homework assignments are computer based, students must show appropriate step-by-step work leading to correct solution on separate paper that will be filed in student portfolio to turn in on final day of instruction.

Exams

There will be five unit exams in this class and one comprehensive final. Upon completing the chapter material, students will take unit exams on assigned date (see last page of syllabus). A student must achieve a minimum of 70% of the possible points each unit exam and 60% on the final exam in order to pass the class. Note that all tests as well as the Final Exams must be taken in supervised environment without any references unless otherwise stipulated by the Instructor. Students may be required to go to The Testing Center (TTC), located in the library, for assessments. The information on the TTC and hours of operation can be found on http://windward.hawaii.edu/testing_center. Use of calculator is not permitted on exams. Note that if a student fails to achieve minimum score on the exam, a re-take may be allowed by instructor within certain time interval after certain review criteria.

Class Participation and Attendance

Students are required to attend class regular and be present in the class for the duration of the entire class period. A student should be consistently working and progressing on assigned tasks during the class. Proof is required for an excused absence. To create a comfortable learning environment in the classroom, all students are expected to come to class on time with positive attitude and respect everyone that is present in the classroom. Students are not allowed to leave the class during the session without the instructor's approval because it is considered a sign of disrespect to everyone attending the class. As a courtesy to your classmates, please turn off your cell phones and do not distract them from doing their work. If you have trouble understanding any concept or problem, ask for help by raising your hand. If you are absent from the class, it is your responsibility to check on announcements made while you were absent. To encourage class participation, instructor may offer various extra credit opportunities throughout the semester. If you stop attending this class for any reason, it is your responsibility to drop it.
**Math Help Outside of Class**

In addition to visiting my office hours, I encourage you to utilize the Math Lab located in the library. You do not have to make an appointment to use this resource. There is also free online 24 hours live tutoring available through Brainfuse via myuh.hawaii.edu (find Brainfuse link under tools or visit http://windward.hawaii.edu/brainfuse for further instruction). You can also access live local tutors online at http://manoa.hawaii.edu/ola/. I also encourage you to form a small study group with students from your class. There are many useful websites such as https://www.khanacademy.org devoted to helping students in Math. I would be happy to assist you in locating the sites that fit your need.

**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 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.

**Academic Dishonesty**

Plagiarism and use of another's work without proper acknowledgment is not permitted. A student caught cheating, may receive a failing grade for the course. All students are required to follow the Student Conduct Policies described at http://www.wcc.hawaii.edu/Policies/5_3_Student_Conduct.php.

**Remarks**

Please check your WCC e-mail account frequently for important announcements. Note that this syllabus is subject to change in extenuating circumstances. When communicating via e-mail or leaving voice message for me, please include your name, course and contact information so that I can easily identify you and get back to you in a timely manner. Make up work will only be allowed upon showing proof of excused absence. For additional academic information, refer to WCC website www.windward.hawaii.edu or go to www.hawaii.edu for system wide information.

**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.
### Tentative Math 82 Schedule for Fall 2017 Semester

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Tuesdays</th>
<th>Thursdays</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8/21 – 8/25</td>
<td>Orientation and Section 2.3</td>
<td>2.4 and 2.5</td>
</tr>
<tr>
<td>2</td>
<td>8/28 – 9/1</td>
<td>2.6 &amp; 2.7</td>
<td>2.8 &amp; 3.1</td>
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<tr>
<td>3</td>
<td>9/4 – 9/8</td>
<td>3.2 &amp; 3.3</td>
<td>3.4 &amp; 3.5</td>
</tr>
<tr>
<td>4</td>
<td>9/11 – 9/15</td>
<td>3.6 &amp; Review</td>
<td>Exam 1 (Ch 2 &amp; 3)</td>
</tr>
<tr>
<td>5</td>
<td>9/18 – 9/22</td>
<td>4.1 &amp; 4.2</td>
<td>4.3 &amp; 4.4</td>
</tr>
<tr>
<td>6</td>
<td>9/25 – 9/29</td>
<td>5.1 &amp; 5.2</td>
<td>5.3 &amp; 5.4</td>
</tr>
<tr>
<td>7</td>
<td>10/2 – 10/6</td>
<td>5.5 &amp; 5.7</td>
<td>Review &amp; Exam 2 (Ch 4 &amp; 5)</td>
</tr>
<tr>
<td>8</td>
<td>10/9 – 10/13</td>
<td>6.1 &amp; 6.2</td>
<td>6.3 &amp; 6.4</td>
</tr>
<tr>
<td>9</td>
<td>10/16 – 10/20</td>
<td>6.5 &amp; 6.6</td>
<td>Review &amp; Exam 3 (Ch 6)</td>
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<tr>
<td>10</td>
<td>10/23 – 10/27</td>
<td>7.1 &amp; 7.2</td>
<td>7.4 &amp; 7.5</td>
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<tr>
<td>11</td>
<td>10/30 – 11/3</td>
<td>7.6 &amp; 7.7</td>
<td>Review &amp; Exam 4 (Ch 7)</td>
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<tr>
<td>12</td>
<td>11/6 – 11/10</td>
<td>8.1 &amp; 8.2</td>
<td>8.3 &amp; 8.4</td>
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<tr>
<td>13</td>
<td>11/13 – 11/17</td>
<td>8.5 &amp; 8.6</td>
<td>Thanksgiving Holiday</td>
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<tr>
<td>14</td>
<td>11/20 – 11/24</td>
<td>8.7 &amp; 9.1</td>
<td>9.3 &amp; 9.5</td>
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<tr>
<td>15</td>
<td>11/27 – 12/1</td>
<td>Review &amp; Exam 5 (Ch 8 &amp; 9)</td>
<td>Final Exam Review</td>
</tr>
<tr>
<td>16</td>
<td>12/4 – 12/8</td>
<td>Final Exam Review</td>
<td>Go Over Grades</td>
</tr>
<tr>
<td>17</td>
<td>12/11-12/15</td>
<td>Final Exam Date, Location, and Time to be Announced Later in Class</td>
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</tbody>
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^Drop Dates: September 12, 2017 – Last day to withdraw without a W grade

*Holidays: September 4, 2017 – Labor Day  
November 10, 2017 – Veterans' Day  
November 23, 2017 - Thanksgiving Day