Math 21 – Developmental Mathematics I (4 Credits) (CRN: 60360/60469)
Math 28 – Developmental Mathematics II (3 Credits) (CRN: 60373/60486)
Math 29 – Developmental Mathematics III (3 Credits) (CRN: 60383/60487)
TR 5:30 – 7:10 pm
8/24 – 12/18

INSTRUCTOR: David W.K.W.L. DONLIN, Lecturer, Mathematics
OFFICE: Hale Mana’opono 103
OFFICE HOURS: TR 4:30 – 5:30 pm or by appointment
EMAIL: donlind@hawaii.edu
SOCIAL MEDIA Facebook: David William KWL Donlin
CONTACT INFO: Instagram: David.William.KWL.Donlin
Twitter: @David_Donlin
EFFECTIVE DATE: Fall 2015

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.

DISABILITIES ACCOMMODATION STATEMENT

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 ‘Akoakoa 213 for more information or visit http://windward.hawaii.edu/Disabilities/.

CATALOG DESCRIPTION AND COURSE CONTENT

This course is designed to help students review and master the basics of mathematics. Topics include an introduction to expressions and equations with whole numbers, fractions, decimals, ratios and proportions, percents, geometric formulas, and similar triangles. Pre-Requisite(s): satisfactory math placement test score, or consent of instructor.

GENERAL COURSE STRUCTURE

This is a non-traditional / non-lecture based Math course that uses computer software and customized study plan for each student. If you learn Math best through lecture based course then it is recommend that you take appropriate level course on the traditional track. In this self-paced course students meet individually with the instructor to develop their course plan. The course material is divided into four modules (plus review module). Students begin each module by working on selected study plan problems after watching short lecture videos on the module to get ready for the Pre-Test. Then students take a Pre-Test to determine their areas of mastery and
areas that need to improve within each module of the course, which is accomplished through web based homework. After completing required web based homework, students will take the Post-Test to move on to next module. Typical class periods consist of the instructor’s one-on-one with each student to check student progress and to provide help. Meanwhile, students work on customized homework and receive assistance from the Supplemental Instruction (SI) Leader.

- Upon completion of this course, the student may decide to continue in the next sequential course if it is within the allowable deadline, or choose to wait until the start of the next semester to enroll in another math course. If the student chooses to wait until the next semester to enroll in another math course, then the student is released from the completed class.
- If you cannot finish this course by the end of the term, you may re-register for this course the following semester and continue your work from last module completed, assuming the transition time is less than or equal to a month. You will receive credit for attendance, completed course material, and passed modules. You can discuss this option further with the instructor for more detail.

LEARNING RESOURCES AND MATERIALS

The textbook for this course is “Developmental Mathematics” 8th Edition by Bittinger. WCC book store should have custom edition of this textbook that come with MyMathLab access code, which is essential for this course. For quick reference you can use the ISBN 1269747649. A reliable computer with home internet access and a headphone is also required for this course.

COURSE LEVEL STUDENT LEARNING OUTCOMES

The student learning outcomes for the course are:
1. Demonstrate proficiency in the skills and competencies for this level of mathematics.
2. Apply concepts and principles to solve applied problems related to the topics covered in this course.
3. Utilize precise language and symbols in written and oral forms.

➢ All SLOs assessments are embedded in class activities, homework, quizzes, or exams.

POINT DISTRIBUTION AND GRADES

<table>
<thead>
<tr>
<th>Grading Categories</th>
<th>Grading Scale</th>
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<tbody>
<tr>
<td>Attendance</td>
<td>A 90% or Higher</td>
</tr>
<tr>
<td>Written Homework</td>
<td>B 80% - 89.9%</td>
</tr>
<tr>
<td>Class Participation</td>
<td>C 70% - 79.9%</td>
</tr>
<tr>
<td>Pre/Post-Tests</td>
<td>D 60% - 69.9%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>F Below 60%</td>
</tr>
</tbody>
</table>

- Other grade options: CR-Credit, NC-No Credit, W-Withdrawn, I-Incomplete, and N grade.
- If a student signs up for CR/NC option, a grade of C or higher is considered CR and grade of D or F is considered NC. A student will automatically receive a W grade by dropping the course within certain time line indicated in the system schedule. An Incomplete (I) grade is given when a student fails to complete a small portion of the course due to circumstances beyond his/her control.
- 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, complete the N grade request form (ask instructor for the form) no later than the time of final examination addressing how you meet the criteria for N grade. You must hand me this form in person unless prior arrangements are made. Then I will make a decision on whether you qualify for the N grade.

**HOMEWORK**

Based on the assessment results of the module Pre-Test, the students will work on customized MML homework for each module. Since all homework assignments are computer based, students must show appropriate step by step work leading to correct solution on paper that will be filed in a student’s binder to be turned in at the end of the semester for grades. Students are expected to complete assigned work in timely manner and get help as early as possible. It is recommended that students do part of the homework that they understand outside of the class and utilize the class time to work on challenging problems with assistance from the SI and instructor.

**EXAMS**

After watching necessary lecture videos and doing study problems, the student will take a Pre-Test for each module. If the student achieves a minimum of 80% of the possible points for the Pre-Test and complete all required online homework, the student may opt to move on to the next module. Note that students must pass the review module before the drop date without a W, otherwise student must drop the class. Upon completing the coursework for a module the student takes the module's Post-Test and needs to score a minimum of 80% of the possible points. Once the student has achieved a minimum of 80% of the possible points for each module on either the Pre- or Post-Test, the student will take an Exit Exam for the course. The student must score a minimum of 70% of the possible points on the course Exit Exam to pass the class. Note that all Pre-/Post-Tests as well as the Exit 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. Do not wait till the last minute to take your test since many things can go wrong (e.g. long waiting line at the testing center, software glitch, power outage, etc.). Information on the TTC and hours of operation can be found on [http://windward.hawaii.edu/testing_center](http://windward.hawaii.edu/testing_center). Over Summer Break TTC operates during the same hours the Library is open, 8am – 4pm. You can also take the tests at the Math Center (Manaopnon 103) during certain hours which will be posted on the door. You are strongly encouraged to complete exams outside of class time. Calculators are not permitted for any exam.

**Basic Rubrics for Grading Multistep and Word Problems for Exit Exam**

- **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

**Very Little Credit**
- Shows some understanding of a problem's mathematical concepts and procedures
- Performs algorithms that may contain major computational errors
- Identifies some relevant information and shows limited understanding
- Shows little evidence of a solution process or use of appropriate mathematical language
- Gives some explanation of the solution process but may be vague or difficult to interpret

**No Credit**
- Shows no understanding of a problem's mathematical concepts and procedures
- Identifies no relevant information, algorithmic pattern, or evidence of a solution process
- Fail to explain significant parts of the problem or omit it altogether

### CLASS PARTICIPATION AND ATTENDANCE

To earn class participation points, the student must be present in the class for the duration of the entire class period. A student must also be consistently working and progressing on assigned tasks during each class session. A student may be required to attend SI sessions outside of the class time upon request from Instructor. Attendance is mandatory in this class to ensure that students spend sufficient amount of time on tasks and receive on-demand assistance. More than one week (3 MWF classes or 2 MW/TR classes) of unexcused absence in regular semester or one day of unexcused absence in six week summer classes may result in failing grades in this course. 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 a 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. If you stop attending this class for any reason, it is your responsibility to drop it.

### ADDITIONAL ACTIVITIES OUTSIDE OF CLASS TIME

To stay on schedule, students are expected to complete part of the assigned guided study workbook material and MML homework outside of class time, either in a computer lab or at home. In addition, students are expected to take their tests either at the testing center or math center. The SI session is embedded into Monday-Wednesday-Friday class schedule but for Tuesday- Thursdays classes, the SI session will be during designated time outside of class. Students are expected to attend the SI sessions. If the SI hours do not fit your schedule, you may substitute Trio or Math Lab hours with instructor’s consent.

### MATH HELP OUTSIDE OF CLASS

To get additional help on class assignments you can utilize various tutoring services:
- Math Center, Mana’opono 103
- TRiO, Alaka’i
- Brainfuse, free online 24 hours live tutoring available through myuh.hawaii.edu under Brainfuse link under tool
- [http://manoa.hawaii.edu/ola/](http://manoa.hawaii.edu/ola/), live local tutors online
- [https://www.khanacademy.org/](https://www.khanacademy.org/), online videos of covering various topics including all levels of math
- Social media can be very useful when getting help, feel free to send me pictures of your work over Instagram (David.William.KWL.Donlin) or Facebook Messenger (David William KWL Donlin) and I can reply to help you out.
- You are all encouraged to form small study groups with students from your class; get to know your fellow classmates, they are going through the same thing that you are and struggling through this class just like you. Make a friend, help each other out.

**MYSUCCESS PROGRAM**

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 a class. If I feel that you are 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:

- Send an email to your hawaii.edu account to let you know about my referral; and
- Have a counselor follow-up with you by phone or by email to find out what kinds of help you might need, to connect you with the necessary resources, and 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 the help you may need to do well this semester.

**COURSE CONTENT – MODULES**

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<thead>
<tr>
<th>Module #R: Introduction to Expressions and Equations with Whole Numbers and Integers</th>
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<tbody>
<tr>
<td>a. Identify an exponent and a base</td>
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<tr>
<td>b. Use the rules for order of operations</td>
</tr>
<tr>
<td>c. Evaluate algebraic expressions given values for the variables</td>
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<tr>
<th>Module #1: Fractions</th>
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<tr>
<td>a. Write mixed numbers as fractions and vice-versa</td>
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<tr>
<td>b. Find factors of a number</td>
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<tr>
<td>c. Use tests for divisibility</td>
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<tr>
<td>d. Find prime factorizations</td>
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<tr>
<td>e. Write fractions in lowest terms</td>
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<tr>
<td>f. Determine whether two fractions are equivalent</td>
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<tr>
<td>Module #2: Decimals</td>
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<tr>
<td>a. Read and write decimals in words</td>
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<tr>
<td>b. Write decimals as fractions or mixed numbers</td>
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<tr>
<td>c. Rounding numbers and estimation</td>
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<tr>
<td>d. Round decimals to any given place</td>
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<tr>
<td>e. Add and subtract decimals, including applications</td>
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<tr>
<td>Module #3: Geometry</td>
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<tr>
<td>a. Geometric terms and angles</td>
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<tr>
<td>b. Find the perimeter of polygons</td>
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<tr>
<td>c. Find the area of polygons</td>
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<tr>
<td>Module #4: Ratios and Proportions, Percents, and Similar Triangles</td>
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<tr>
<td>a. Scientific notation and applications (5.3)</td>
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<tr>
<td>b. Write ratios using a faction, colon or “to”</td>
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<tr>
<td>c. Write proportions</td>
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<tr>
<td>d. Determine whether proportions are true or false</td>
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<tr>
<td>e. Solve proportions using cross-products</td>
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<tr>
<td>f. Solve application problems using proportions</td>
</tr>
<tr>
<td>g. Solve similar triangle problems using proportions</td>
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<tr>
<td>h. Write percent as decimals and vice-versa</td>
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<tr>
<td>Module #5: Introduction to Real Numbers (including basic roots, signed numbers and properties) and Algebraic Expressions (including Geometric formulas)</td>
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<tr>
<td>a. Classify Numbers and Graph them on a Number Line</td>
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<tr>
<td>b. Order Relations</td>
</tr>
<tr>
<td>c. Find the Opposite and Absolute Value of Real Numbers</td>
</tr>
<tr>
<td>d. Add Real Numbers</td>
</tr>
<tr>
<td>e. Subtract Real Numbers</td>
</tr>
<tr>
<td>f. Multiply and Divide Real Numbers; Order of Operations</td>
</tr>
<tr>
<td>g. Properties of Real Numbers</td>
</tr>
<tr>
<td>Module #6: Linear Equations and Inequalities in One Variable</td>
</tr>
<tr>
<td>-------------------------------------------------------------</td>
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<tr>
<td>a. Addition Property of Equality and Applications</td>
</tr>
<tr>
<td>b. Multiplication Property of Equality and Applications</td>
</tr>
<tr>
<td>c. More on Solving Linear Equations</td>
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<tr>
<td>d. Applications of Linear Equations</td>
</tr>
<tr>
<td>e. Formulas and Additional Applications from Geometry</td>
</tr>
<tr>
<td>f. Solving Linear Inequalities</td>
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<thead>
<tr>
<th>Module #7: Linear Equations and Inequalities in two Variables</th>
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</thead>
<tbody>
<tr>
<td>a. Interpret Graphs</td>
</tr>
<tr>
<td>b. Solutions of Linear Equations; Intercepts</td>
</tr>
<tr>
<td>c. Plot Ordered Pairs</td>
</tr>
<tr>
<td>d. Graph linear Equations in Two Variables; Intercepts</td>
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<tr>
<td>e. Slope of a Line</td>
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<tr>
<td>f. Equations of Lines</td>
</tr>
<tr>
<td>g. Graph Linear Inequalities in Two Variables</td>
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</tbody>
</table>

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<thead>
<tr>
<th>Module #8: Selected Topics – Quadratic Formula, Parabola, Systems of Equations and Inequalities, Scientific Notation, and Variation</th>
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<tbody>
<tr>
<td>a. Scientific Notation and Applications</td>
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<tr>
<td>b. Solving system of equations by graphing</td>
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<tr>
<td>c. Solve system of equations by substitution</td>
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<tr>
<td>d. Solve system of equations by elimination</td>
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<tr>
<td>e. Application of Linear Systems</td>
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<tr>
<td>f. Solving System of Linear Inequalities</td>
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<tr>
<td>g. Solving quadratic equations by the Quadratic Formula</td>
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<tr>
<td>h. Graphing Quadratics Equations – Parabola</td>
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<tr>
<td>i. Variation</td>
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<tr>
<th>Module #9: Exponents and Polynomials</th>
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<tbody>
<tr>
<td>a. Adding and subtracting polynomials</td>
</tr>
<tr>
<td>b. The Product Rule and Power Rules for exponents</td>
</tr>
<tr>
<td>c. Multiplying polynomials</td>
</tr>
<tr>
<td>d. Special Products</td>
</tr>
<tr>
<td>e. Integer exponents and the Quotient Rule</td>
</tr>
<tr>
<td>f. Dividing Polynomials</td>
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<tr>
<th>Module #10: Factoring Polynomials and Applications, and Functions</th>
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<tbody>
<tr>
<td>a. Factoring polynomials: GCF</td>
</tr>
<tr>
<td>b. Factoring polynomials: Trinomials</td>
</tr>
<tr>
<td>c. Factoring polynomials: Special Techniques</td>
</tr>
<tr>
<td>d. Solving quadratic equations by factoring</td>
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<tr>
<td>e. Applications of quadratic equations</td>
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<tr>
<td>f. Functions</td>
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<tr>
<th>Module #11: Rational Expressions and Equations</th>
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<tr>
<td>a. The Fundamental Property of Rational Expressions</td>
</tr>
<tr>
<td>b. Multiplying and dividing rational expressions</td>
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<tr>
<td>c. Adding and subtracting rational expressions</td>
</tr>
<tr>
<td>d. Complex fractions</td>
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<tr>
<td>e. Solving equations with rational expressions</td>
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<tr>
<td>f. Applications of rational expressions</td>
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<tr>
<th>Module #12: Roots and Radicals (including the Square Root Property)</th>
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<tbody>
<tr>
<td>a. Evaluating roots</td>
</tr>
<tr>
<td>b. Multiplying, dividing and simplifying radicals</td>
</tr>
<tr>
<td>c. Adding and subtracting radicals</td>
</tr>
<tr>
<td>d. Rationalizing the denominator</td>
</tr>
<tr>
<td>e. More simplifying and operations with radicals</td>
</tr>
<tr>
<td>f. Solving equations with radicals</td>
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</tbody>
</table>
To register for **Math 21 - Fall 2015**:  
1. Go to [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com) (MyMathLab.com should also work).  
2. Under Register, select **Student**.  
3. Confirm you have the information needed, then select **OK! Register now**.  
4. Enter your instructor’s course ID: **donlin93664**, and **Continue**.  
5. Enter your existing Pearson account **username** and **password** to **Sign in**.  
   You have an account if you have used a Pearson product, for example: MyMathLab, MyITLab, MyPsychLab, MySpanishLab or Mastering, such as MasteringBiology.  
   a. If you don’t have an account, select **Create** and complete the required fields.  
6. Select an access option.  
   a. Use the access code that came with your textbook or that you purchased separately from the bookstore.  
   b. Buy access using a credit card or PayPal account.  
   c. If available, get 14 days temporary access. (The link is near the bottom of the screen.)  
7. From the confirmation page, select **Go To My Courses**.  
8. On the My Courses page, select the course tile **Math 21 - Fall 2015** to start your work.  

To sign in later:  
1. Go to [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com) (or MyMathLab.com).  
2. Select **Sign In**.  
3. Enter your Pearson account **username** and **password**, and **Sign In**.  
4. Select the course tile **Math 21 - Fall 2015** to start your work.

To upgrade temporary access to full access:  
1. Go to [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com).  
2. Select **Sign In**.  
3. Enter your Pearson account **username** and **password**, and **Sign In**.  
4. Select **Upgrade access** from the course tile **Math 21 - Fall 2015**.  
5. Enter an access code or purchase access with a credit card or PayPal account.

To register for **Math 28/29 - Fall 2015**:  
1. Go to [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com) (MyMathLab.com should also work).  
2. Under Register, select **Student**.  
3. Confirm you have the information needed, then select **OK! Register now**.  
4. Enter your instructor’s course ID: **donlin63167**, and **Continue**.  
5. Enter your existing Pearson account **username** and **password** to **Sign in**.  
   You have an account if you have used a Pearson product, for example: MyMathLab, MyITLab, MyPsychLab, MySpanishLab or Mastering, such as MasteringBiology.  
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**GUIDED SCHEDULE TO COMPLETE MATH 21, 28, 29 DURING SUMMER 2015**

**DONLIN – Fall 2015; TR 5:30 – 7:10 PM (CRN 60360/60469/60373/60486/60383/60487)**

**Academic Calendar:** [http://windward.hawaii.edu/academics/Calendar/](http://windward.hawaii.edu/academics/Calendar/)

*All students are required to pass Review Module Post Test before the drop date without W.*

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<th>Week</th>
<th>Dates</th>
<th>Assignments to Complete</th>
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<tr>
<td>1</td>
<td>8/25 &amp; 8/27</td>
<td>Syllabus, Sign into MyMathLab, Course Overview&lt;br&gt;<em>Module R:</em> Lecture Video, Pre-Test</td>
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<tr>
<td>2</td>
<td>9/1 &amp; 9/3</td>
<td><em>Module R:</em> Homework, Post-Test&lt;br&gt;<em>Module 1:</em> Pre-Test</td>
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<td>3</td>
<td>9/8 &amp; 9/10</td>
<td>Module 1: Lecture Video, Pre-Test, Homework</td>
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<td>4</td>
<td>9/15 &amp; 9/17</td>
<td>Module 1: Homework, Post-Test</td>
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<td>9/22 &amp; 9/24</td>
<td><em>Module 2:</em> Lecture Video, Pre-Test, Homework</td>
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<tr>
<td>6</td>
<td>9/29 &amp; 10/1</td>
<td>Module 2: Homework</td>
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<td>10/6 &amp; 10/8</td>
<td><em>Module 2:</em> Post-Test&lt;br&gt;<em>Module 3:</em> Lecture Videos, Pre-Test</td>
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<td>10/13 &amp; 10/15</td>
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<td>10</td>
<td>10/27 &amp; 10/29</td>
<td>Module 3: Post-Test</td>
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<td>11</td>
<td>11/3 &amp; 11/5</td>
<td>Module 4: Lecture Videos, Pre-Test</td>
</tr>
<tr>
<td>12</td>
<td>11/10 &amp; 11/12</td>
<td>Module 4: Homework</td>
</tr>
<tr>
<td>13</td>
<td>11/17 &amp; 11/19</td>
<td>Module 4: Post-Test</td>
</tr>
<tr>
<td>14</td>
<td>11/24 &amp; 11/26</td>
<td>Complete Make-up Work</td>
</tr>
<tr>
<td>15</td>
<td>12/1 &amp; 12/3</td>
<td>Exit Exam Review</td>
</tr>
<tr>
<td>16</td>
<td>12/8 &amp; 12/10</td>
<td>Exit Exam (Last Day of Instruction will be the Last Day of Class)</td>
</tr>
</tbody>
</table>

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**Time Management – Set Your Weekly Schedule**

To complete this course within a semester, students are expected to complete each module in about three weeks. To achieve this goal, you will need to devote at least 10 hours per week outside of the class on math work. To manage your time well, complete the following schedule with your class time, tutoring time, SI session, work time, math study time, commute time, and leisure time. Once complete, discuss your schedule with your instructor and make appropriate adjustments.