

**Math 103 — College Algebra**  
**(Credits: 4 / CRN#: 62049 / Mode: Online)**

Instructor: Navtej (Johnny) Singh

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Office Telephone #: (808) 236 – 9278 <Use this during office hours for elaborate help>

Effective Date: Summer 2016 Semester <May 23, 2016 to July 15, 2016>

Main Website: <https://www.connectmath.com> <Course Code: **ET9TC-PVAJK**>

### 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

Linear equations, inequalities, systems of equations, polynomials, functions, fractional expressions and equations, exponents, powers, roots, quadratic equations and functions; rational, exponential and logarithmic functions. Pre-Requisite(s): Grade of "C" or better in MATH 25 or MATH 29 or equivalent, satisfactory math placement test score, or consent of instructor.

### Getting Started with This Online Course

- Go to <https://www.connectmath.com> and click on sign up now.
- Enter the Course Code **ET9TC-PVAJK** to continue.
- There will be an option to either buy an access code or enter the one that came with your textbook.
- Follow the online instructions to complete the registration process to create your account.
- For technical help call (949) 390-2095 or visit [https://www.connectmath.com/support/contact\\_support](https://www.connectmath.com/support/contact_support).

### Learning Resources and Materials

Primary textbook for this course is "College Algebra Essentials" 1<sup>st</sup> edition by Julie Miller. When buying hard copy of this textbook (available at WCC bookstore), please make sure that it comes with a valid access code. Purchasing a hard copy of this textbook is not required since all required material including e-book is available online at [www.connectmath.com](http://www.connectmath.com). Buying just an access code directly from the publisher when registering may be cheaper than buy the textbook with code.

## Foundations Hallmarks

Math 103 fulfills the General Education Requirement for Foundations Symbolic for both the AA and AS degree at WCC. 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:

1. Demonstrate proficiency in writing math expressions into different forms.
2. Employ algebraic techniques to find the solutions to equations and/or inequalities, using complex numbers where appropriate.
3. Use algebraic techniques to analyze and solve applied problems.
4. Interpret equations geometrically and use geometrical information to obtain the equation of lines and circles.
5. Utilize introductory function concepts and draw the graphs of selected functions.
6. Utilize the definition of a logarithm and the properties of logarithms to simplify logarithmic expressions or to solve logarithmic and exponential equations.
7. Demonstrate proficiency in solving systems of linear and second degree equations and inequalities.
8. Utilize precise mathematical language and symbols to effectively communicate mathematics in written and/or oral form.

*\*Note: All SLOs assessment are embedded in homework, quizzes, or exams.*

## Assessment, Tasks, and Grading

	<b>Point Distribution</b>	
Exams	(Four Exams @ 75 points each)	300 points
Homework	(34 HW Assignments @ 10 points each)	340 points
Consultations	(Two @ 5 points each)	010 points
Quizzes	(Two Quizzes @ 50 points each)	100 points
<u>Final Exam</u>	(Comprehensive – Paper Pencil)	<u>250 points</u>
<u>Total</u>		<u>1000 points</u>

**Grades:** Letter grades will be assigned based on the following scale:

A  $\Rightarrow$  90%  $\uparrow$ ; B  $\Rightarrow$  80%  $\uparrow$ ; C  $\Rightarrow$  70%  $\uparrow$ ; D  $\Rightarrow$  60%  $\uparrow$ ; F  $\Rightarrow$  below 60%;

### Other Grade Options

- 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.

### 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 1<sup>st</sup> 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. To arrange a testing site outside of University of Hawaii System (Mainland US), contact me via email.

### Exams

There will be four proctored exams in this course worth 75 points each and one proctored comprehensive final worth 250 points. All exams must be taken at one of UH testing center unless prior arrangement has been made with instructor. You will 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-minute time limit on each unit exam and 200-minute time limit on the final exam. All unit exams are computer based using ConnectMath and the final exam is written using paper pencil. Students are allowed to use a 3-in by 5-in index card (both sides) on the final exam. Students cannot use a graphing calculator on any proctor exam. Best way to prepare for the exams is to study homework problems along with exam review (or sample exam).

### Quizzes

There are two online quizzes worth 50 points each. First quiz covers the material learned in Chapter R and second quiz covers material learned in chapter 5. 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 twice and I will count the highest of the two score.

### Homework Assignments

All homework assignments are available online at [www.connectmath.com](http://www.connectmath.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, guided solution, show example, link to textbook page, and watch lecture video option available. Note that you can work on each homework problem till you get it right by clicking on try another tab after three failed attempts.

So, it is possible for you to get 100% on each homework assignment. For Additional help on the homework, you are welcome to contact me.

### Getting Help

You're welcome to send me an email requesting help anytime and I'll do my best to response within 24 hours (may be bit longer during weekends or holidays). With advanced notice and arrangement, it is possible to arrange a video conference either via Skype (ID: nsj006) or UH google video (ID: navtej). You may get additional help by utilizing the free walk-in tutoring service by going to the math lab located in Library Learning Common Room 226 at windward community college or at your native campus (summer hours may be limited). I highly encourage you to visit Math Lab located on your campus during the beginning of this course to receive personalized help. 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](http://www.wolframalpha.com) – Provides computational tools, facts, and examples.
- <http://wcc.hawaii.edu/brainfuse> - Find out how to get free online Math tutoring.
- <http://www.graphcalc.com> - A free graphing calculator utility can be downloaded here.
- <https://windward.hawaii.edu/kapiko/math> - Provides information about WCC math lab.

### Consultations

Students are required at least 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 regarding the course syllabus, learning resources, homework assignments, quizzes, exams, or getting started use the online system. Other consultation(s) can be conducted anytime during the term to get help on homework problems, go over exams, or discuss grades. Key to doing well in online course is to complete your work well in advance of suggested completion date and do not procrastinate.

### Communication

Since this is a distance learning class, communication is an important part of this course. 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. 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 and leave a message with your name and number for me to return your call. Since summer hours varies, I will send you emails informing when I will be in my office.
- If you live commuting distance from WCC, you can stop by my office anytime during my office hours or make an appointment. This is a good way to get help of homework.
- If you live at a distance and visual communication is necessary such as help on complicated homework problems, you can contact 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. I will also post answer to commonly asked questions on the discussion board.

## **Student's Responsibility**

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.

## **Important Information**

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](http://www.windward.hawaii.edu) or go to [www.hawaii.edu](http://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.

## **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](mailto:lemke@hawaii.edu), or you may stop by Hale 'Akoakoa 213 for more information.

***Eight Week Guidance Calendar - To Stay on Track Complete the Assignments by Date Indicated***

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
5/23 Read Syllabus Signup at ConnectMath.com	5/24 Email Questions HW Sections R.1 & R.3	5/25 HW Section R.4 & R.5 Testing Site Request Due	5/26 HW Section R.6 & R.7	5/27 Quiz #1 on Review Chapter
5/30 <b>Holiday - Memorial Day</b>	5/31 HW Section 1.1 & 1.2	6/1 HW Section 1.3 & 1.4	6/2 HW Section 1.5 & 1.6	6/3 HW Section 1.7 & 1.8
6/6 Exam 1 Review	6/7 <b>Exam 1 at Testing Center</b>	6/8 HW Section 2.1 & 2.2	6/9 HW Section 2.3 & 2.4	6/10 <b>Holiday - Kamehameha Day</b>
6/13 HW Section 2.5 & 2.8	6/14 Review for Exam 2	6/15 <b>Exam 2 at Testing Center</b>	6/16 HW Section 3.1 & 3.3	6/17 HW Section 3.5
6/20 HW Section 3.6	6/21 HW Section 3.7	6/22 Review for Exam 3	6/23 <b>Exam 3 at Testing Center</b>	6/24 HW Section 4.1 & 4.2
6/27 HW Section 4.3	6/28 HW Section 4.4	6/29 HW Section 4.5	6/30 Review for Exam 4	7/1 <b>Exam 4 at Testing Center</b>
7/4 <b>Holiday - Independence Day</b>	7/5 HW Section 5.1 & 5.2	7/6 HW Section 5.4	7/7 HW Section 5.5	7/8 Quiz #2 on Chapter 5
7/11 Final Exam Review	7/12 Final Exam Review	7/13 <b>Suggested Date to Take Final Exam at the Testing Center</b>	7/14 <b>Last Date to take Final Exam at the Testing Center</b>	7/15 Last Day for Makeup Work Discuss Final Grade End of Summer Term