



## COURSE SYLLABUS

**SEMESTER: Summer 2013**

**COURSE TITLE: Trigonometry with Analytic Geometry**

**NUMBER/SECTION: 137-00I**

**CRN: 11493**

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### CONTACT INFORMATION

**Instructor:**

First Name: Stephen  
Last Name: Orzel  
Phone Number: 765-966-2656 x1115  
Email (Ivy Tech Email): sorzel@ivytech.edu  
Blackboard IM ID: sorzel  
Office/Campus Location: 1115 Johnson Hall  
Office Hours: Tuesday 12-5

**Instructor's Supervisor:**

First Name: Wes  
Last Name: Tobin  
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Office/Campus Location: 1184 Johnson Hall  
Office Hours: TBA

### COURSE OUTLINE OF RECORD

**PREREQUISITES:** MATH 111 Intermediate Algebra or demonstrated competency through appropriate assessment or earning a grade of "C" or better in MATH 035 Fundamentals of Algebra II or MATH 043 Essentials of Algebra II

**SCHOOL:** Liberal Arts and Sciences

**PROGRAM:** Liberal Arts

**CREDIT HOURS:** 3

**CONTACT HOURS:** Lecture: 3

**DATE OF LAST REVISION:** Fall 2011

**EFFECTIVE DATE OF THIS REVISION:** Fall 2012

**CATALOG DESCRIPTION:** Presents an in-depth study of functions, quadratic, polynomial, radical, and rational equations, radicals, complex numbers, systems of equations, rational fractions and exponential and logarithmic functions. MATH 136 and MATH 137 together comprise a standard two-semester college algebra and trigonometry course.

**MAJOR COURSE LEARNING OBJECTIVES:** Upon successful completion of this course the student will be expected to:

1. Determine, evaluate, and graph functions.
2. Simplify and perform operations on complex numbers.
3. Simplify rational expressions.
4. Simplify and perform operations on radicals.
5. Solve radical equations.
6. Solve quadratic and rational equations and inequalities.
7. Apply the concepts of ratio, proportion and combined variation.
8. Apply the properties of logarithms to solve exponential and logarithmic equations.
9. Solve polynomial equations and graph polynomial functions.
10. Graph exponential and logarithmic functions.
11. Graph rational functions.
12. Solve systems of equations with three variables.
13. Solve a variety of application problems in the above areas.
14. Use a scientific and/or graphing calculator proficiently as related to coursework.
15. Use computer technology which may include the Internet, the Web, e-mail or computer tutorials to enhance the course objectives.

**COURSE CONTENT:** Topical areas of study include:

Functions	Radicals and rational expressions
Quadratic, polynomial, rational and radical equations	Variation
Complex Numbers	Systems of equations
Exponential and logarithmic functions	

## **REQUIRED TEXT & MATERIALS**

Title: Trigonometry: A Unit Circle Approach (w/MyMathLab)

Author: Sullivan

Edition: 9

Publisher: Pearson

ISBN: 9780321755995

Additional Materials: MyMathLab & Scientific Calculator

MyMathLab course ID# orzel42416

## **COLLEGE POLICIES**

### **Academic Honesty Statement**

The College is committed to academic integrity in all its practices. The faculty value intellectual integrity and a high standard of academic conduct. Activities that violate academic integrity undermine the quality and diminish the value of educational achievement.

Cheating on papers, tests, or other academic works is a violation of College rules. No student shall engage in behavior that, in the judgment of the instructor of the class, may be construed as

cheating. This may include, but is not limited to, plagiarism or other forms of academic dishonesty such as the acquisition without permission of tests or other academic materials and/or distribution of these materials and other academic work. This includes students who aid and abet as well as those who attempt such behavior.

### **Copyright Statement**

Students shall adhere to the laws governing the use of copyrighted materials. They must insure that their activities comply with fair use and in no way infringe on the copyright or other proprietary rights of others and that the materials used and developed at Ivy Tech Community College contain nothing unlawful, unethical, or libelous and do not constitute any violation of any right of privacy.

## **COURSE POLICIES & PROCEDURES**

### **Due Dates & Deadlines**

The Syllabus and Course Calendar are two important tools to help students understand the course, student and instructor expectations, and deadlines. Both documents can be found under the “Start Here” button in the course within Blackboard.

Students are required to submit work on time for a chance to receive credit. Deadlines for each assignment are summarized on the course calendar. Students should check the calendar frequently for deadlines and to be aware of what to expect next. Deadlines are subject to change.

Students are responsible for timely assignment submission. Should a computer system or network go down, students must still turn in work in a timely manner. Don't wait until the last minute – don't even wait until the last day. Plan ahead by seeking alternative means for submitting work before it is needed. Local libraries and all Ivy Tech Community College campuses can serve as alternative network and technology resources. Contact the closest/most convenient campus or other public lab for schedules and Internet availability. Not having access to the required software on a home or work computer is **not** a legitimate excuse for turning in homework late.

### **Attendance Policy – Don't Get Dropped from Class!**

While it is important to be timely and on-schedule throughout any course, students need to be aware of an important college policy. Ivy Tech performs administrative drops for students who do not “attend” class early in the semester. Attendance in an online course is determined by whether a student has submitted work or not. Assignments may actually be due on another day (see course calendar), but students need to turn in something worth points before the NSW deadline in order to avoid being dropped for non-attendance.

To avoid being dropped for non-attendance, students must submit *some* assignment from the course calendar no later than 11:59 p.m. **Friday, June 21, 2013.**

### **Instructional Method**

Lecture, classroom activities.

## **Grades**

All grades will be maintained in Blackboard's online grade book. Students are responsible to track their progress by referring to the online grade book.

## **Exams**

All exams are proctored, which means that you will have to travel somewhere to take your exams.

If you reside within the borders and territory of the State of Indiana, the ONLY approved exam proctor is an Ivy Tech testing center. This means you may have to travel to take the exams. You may have to alter work and/or school schedules to arrange exam appointments. A list of Ivy Tech testing centers is at <http://www.ivytech.edu/online/testing-centers.html>. PLEASE NOTE: There are no exceptions to this policy for any student for any reason.

If you reside outside of the state of Indiana, please contact the instructor for assistance in finding an approved exam proctor.

The deadline to have proctor and site information submitted is the end of Week 2 (Sunday, June 23, 2013) of the semester. Proctors will be contacted by the end of week 4 (Friday, July 5, 2013). If you do not notify the instructor within reasonable time, you will be required to take your exams at the Testing Center at the Richmond, Indiana Ivy Tech campus.

You will need a picture ID to verify your identity before you are allowed to take any exam for MATH 137 - Internet.

You may bring a sheet of notes for use during the exams. This sheet may be 8.5 x 11 both sides, and may include whatever formulas, examples, reminders, or other notes that you may find helpful. The exam proctors will ask to see your notes sheet before you take the exam to make sure it satisfies the specified requirements for the notes sheet.

You must bring all needed supplies with you. The testing centers are not in the business of loaning out calculators, erasers, pencils, etc.

You may use scratch paper. Document your work with the problem number from the exam.

Show all your work on the exam. You must show your work to receive credit for the problem. Problems are graded on a partial-credit basis. Turn in any scratch paper with your exam.

The time limit for exam completion is 3 hours. No breaks will be given as the exam is to be completed in one sitting.

You must complete the exam in one sitting. Once you start an exam, you must finish it. You will not be allowed to return and finish it at a later time.

Schedule any required appointments to take your exams in advance. Your testing center may require you to make an appointment in advance of time to take an exam. Any questions or concerns should be discussed with the appropriate testing center personnel.

Follow all instructions of the testing center staff. While the instructor has course exam policies, there may be other policies you may have to follow in the testing center. The instructor does not have any control of any of these other testing center policies and procedures. If you have any questions or concerns, you will need to discuss this with the appropriate testing center personnel.

Make sure your name is on your test and any sheets of scratch paper you may use.

### **Make-Up Policy**

If a student has a **SERIOUS** problem that can be verified and that keeps the student from submitting a paper or assignment on time, please contact the instructor immediately. The instructor will determine if the seriousness of the problem warrants an exception to the late assignment rule. Late assignments will be assigned a grade of “0” unless a student has received prior approval from the Instructor.

If a student has a known special event (vacation, wedding, birth of a child, surgery, etc.), the student may be permitted to work ahead on assignments with prior approval of the instructor. In all cases, communication with the instructor in advance is desired, whenever possible.

### **Last Day to Withdraw**

If a student wishes to withdraw from this course, students are responsible for completing an official withdrawal form with the registrar. The last day to withdraw from this course is Friday July 19, 2013.

## **COURSE COMMUNICATION**

### **Instructor Commitment**

Ivy Tech Community College instructors are committed to responding to students within two business days. If a student sends communication, but does not receive a response, they should double-check that the correct communication method was used and that the correct location is being checked for a reply. Students can contact their local Distance Education Support with questions.

**NOTE:** Messages are very different from Email. Students should carefully review the information below to ensure they are sending and receiving course communication properly.

**Email:** all students must use the email function of the course for course-related communications. Students can send email from within the course in Blackboard, but will not receive responses inside the course. All emails are received in the Campus Connect email system. Students can also use the Campus Connect email system to send email.

To access email from within the course:

1. Log into Blackboard & enter the course.
2. Click on ‘Communication & Tools’, then send email.
3. Please **DO NOT** use the MESSAGES feature inside Communication & Tools.
4. Select “All Instructor Users” to email the instructor.

5. To send an email to another member of the class, choose Select Users and choose the name(s) from the list. Use the right-facing arrow to move the person into the “recipient” box.

To access Campus Connect, go to: <http://cc.ivytech.edu>.

## ASSIGNMENTS & GRADING

### How is my grade calculated?

Grades in this course are determined by the following criteria:

Class Participation	5%
Homework	20%
Quizzes	15%
Exam One	30%
Exam Two	30%

\*NO make-up or extra credit will be available at any time during the course.

### Grading Scale

90% - 100%	A
80% - 89%	B
70% - 79%	C
60% - 69%	D
Below 60%	F

## ADDITIONAL SUPPORT

### Click for Help

Log into Blackboard at <http://online.ivytech.edu> and visit the “Click for Help” tab for information about computer downloads. This tab provides students with important computer information, including security software, viewer software for users without Microsoft products, adobe reader, flash player, java, and more.

### Disabilities Services

Students with questions or needs for disabilities support services should contact their local Disabilities Support Services director/coordinator. In the future, it is recommended that students contact Disabilities Support Services at least 30 days before the start of the semester. *The contact information listed here is for the disabilities support director/coordinator at the instructor’s local campus.* For information about disabilities support services at another campus, please visit: <http://ivytech.edu/dss/> or Campus Connect (<http://cc.ivytech.edu>).

### Course Participation and Financial Aid Eligibility

Course activities and assignments are designed to help you practice and apply what you are learning in class. As a result, students who attend class, complete assignments, and actively participate in class activities generally make better grades and are more likely to reach educational goals.

When you accept federal financial aid, you agree to abide by the regulatory requirements that accompany receiving those funds. Those requirements are:

- The expectation that you will complete your courses. Dropping or withdrawing from a class could negatively impact your financial aid eligibility and could result in you owing money back to the Department of Education.
- The expectation that you will complete your degree within a reasonable timeframe. Completion of your degree within a reasonable timeframe means that you will graduate before taking more than 150% of the credit hours needed for your program. (Example: financial aid will not pay for more than 90 credit hours if you are enrolled in a 60 credit hour degree program.)
- The expectation that you will maintain a minimum of a 2.0 cumulative grade point average.

Failure to meet any of these requirements could jeopardize your financial aid funding. You should meet with an advisor or a member of the financial aid team if you have any questions.