

Basic Course Information

Semester	Summer 2019	Instructor's Name	Caroline Bennett
Course Title & #	Math 140: Trigonometry	Instructor's Email	caroline.bennett@imperial.edu
CRN #	30121	Webpage	N/A
Room	Building 2700; Room 2722	Office	Building 2700; Room 2765
Class Dates	6/17/19 – 7/25/19	Office Hours	<i>(No office hours during summer session; however, on most days I will be available for questions immediately after class)</i>
Class Days	M T W Th	Office Phone #	(760) 355 – 6124
Class Times	10:00 am – 12:10 pm	Who students should contact if emergency or other absence	(760) 355 – 6155
Units	3.0		(760) 355 – 6201

Course Description

Topics include right angle trigonometry and applications, unit circle trigonometry, graphs of trigonometric functions, inverse trigonometric functions, trigonometric identities, solving triangles by using the Laws of Sines and Cosines, and polar coordinates.

Textbooks & Other Materials

MYMATHLAB ACCESS CODE (required): This comes as an insert if you buy a new textbook. If you do not buy a new text, you may purchase the access code online, OR at the IVC Bookstore. **A handout with instructions on registering with MyMathLab will be posted and available for you on Canvas. Course ID: bennett53247**

- **TEXT (recommended):** Lial, Hornsby, Schneider, Daniels 2016. *Trigonometry* 11th. Pearson ISBN: 978-0134217437.

CALCULATOR: A scientific calculator is required. However, many exams will be “non-calculator” exams, or will permit a calculator only on certain portions of the exam.

Course Objectives

1. Define the six trigonometric functions using right triangle and unit circle definitions.
2. Express angles in degrees and radians.
3. Graph trigonometric functions, including those involving vertical and horizontal translations.
4. Solve triangles using the Law of Sines and Law of Cosines, including ambiguous cases.
5. Verify trigonometric identities, including sum and difference formulas, half-angle and power-reducing formulas.
6. Define and graph inverse trigonometric functions.
7. Solve trigonometric equations.
8. Graph polar coordinates and equations.
9. Solve application problems.

Student Learning Outcomes

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

1. Demonstrate problem solving strategies by identifying an appropriate method to solve a given problem, correctly set up the problem, perform the appropriate analysis and computation, and share their interpretation of the conclusion or the outcome, using correct grammar or in an oral presentation. This outcome will be assessed through selected exercises on exams throughout the semester. (ILO1, ILO2)

Course Requirements and Instructional Methods

HOMEWORK should always be taken seriously in a math class. Math is a skill that you can become good at by *practicing it*. Coming to class and taking good notes is important, but doing homework is what deepens your understanding and sharpens your skills. **Repetition “makes it stick”**. Homework also helps you assess your own problem areas. When you struggle with homework problems, it will help you to ask more informed questions during the following class (instead of just saying “I’m lost” or “I can’t do this”), so that I or a tutor can better help you.

Online homework with MyMathLab is used in this course. You are expected to keep up with this online practice on a regular basis and seek help when you need it. Exam problems will be based primarily off of the online homework problems; therefore, the online homework provides you with vital practice. **Some graded written homework projects will be assigned in addition to the MyMathLab.** You may work in groups on the projects. The textbook also offers practice problems (many of which I will suggest or cover in class), with answers to the odd exercises provided in the back. Although **only the online homework and assigned projects are graded and recorded**, the text’s problems offer an additional (optional) source of practice.

Math is best learned when it is practiced regularly. The 6-week summer session is extremely fast-paced. Therefore, **it is an extremely bad idea to wait until the weekend to start your homework**. One of the best things you can do is reserve times slots in your weekly schedule that will be devoted to working on math outside of class (every week – not just when an exam is coming up).

In fact, you should always begin your homework as soon as possible after each class, especially if math is a difficult subject for you. Here are some further tips:

- 1) *Form a study group and work homework problems together with classmates.
The Math Lab is a good place to study and work together with classmates.*
- 2) *If there is a particular homework problem that you would really like to see in class, ask me before or at the beginning of class. I will try to accommodate requests if there is time; if there is not sufficient time, then we can arrange to meet after or outside of class for help, or for the embedded tutor to cover that question during their review session.*
- 3) *Take advantage of the free tutoring resources on campus (see last page for details).*

The online homework constitutes 125 points (12.5%) of your overall course grade. However, if you cheat in order to complete the homework (e.g., by having someone else do it, or by using an app such as Photomath), those 125 points will not be enough to save your overall grade when you fail the exams. Thus, this is not a wise strategy.

Late Homework:

All online assignments have clearly stated due dates and times. After an assignment's deadline has passed, the link will remain open, and you may continue to work on the assignment and earn 50% credit on any problems completed after the deadline (you still keep 100% credit for all work completed before the deadline). The following excuses are very common, but they are **not valid**:

1. **“I didn't know we had something due.”** All MyMathLab homework assignments have their due dates/times listed immediately to the left of the assignment title/link. You are responsible for logging in regularly and knowing when assignments are due. “I didn't know we had something due” is never a valid excuse.
2. **“My computer crashed”, “My internet wasn't working at home”, etc.** You have a week to complete each assignment for full credit, and you should always begin each assignment as soon as possible after the related subject matter was covered in class. If you are having any computer issues at home, the Math Lab is open morning to evening, Monday – Saturday, and has over 40 computers available for students to work on homework (as well as tutors to help you). If you procrastinate, then last-minute computer/internet malfunctions can cause you to miss a deadline. So, **don't procrastinate.**
3. **“I'm still waiting for the money for the access code”.** For every college class you take, you are expected to acquire all necessary books and other supplied for that course, at the beginning of the semester. This is just as essential as the tuition for the course registration. If you are on financial aid, it is provided to you in 3 disbursements, the first of which happens before the first day of class, SPECIFICALLY for the acquisition of required books and supplies. If you spent that first disbursement on something else, that was YOUR decision. Homework deadlines will NOT be extended for you as you wait for the next financial aid disbursement.
4. **“My access code expired in the middle of the semester”.** If you are using continued access from a previous semester, it is YOUR responsibility to check the account and know when the access will expire, and take care of it BEFORE it happens. Homework deadlines will NOT be extended for you as you take care of renewing your access.

EXAMS closely reflect the material covered in class and on the homework. A tentative exam schedule is provided in this syllabus; however, exam dates (with the exception of the final exam) may be subject to change, in accordance with the pace of the class. If an exam date is changed, you will be notified sufficiently in advance, both in class and on the Canvas announcements page.

HOMEWORK QUIZZES: There may be some quizzes sprinkled throughout the semester; these will be announced in class and on Canvas. These are not listed in the syllabus calendar, as their dates are dependent upon the pace and progress of the class. These are called “homework quizzes” because they come **directly** from the MyMathLab homework problems. Therefore, the best way to prepare for them is to stay caught up with your MyMathLab homework. These quiz points are included under your “Class Work” points.

Homework quizzes are open-note. You can use your lecture notes and/or homework scratch work, but NOT a textbook. You may also work in groups of up to 4 students (quizzes only – NOT during exams). All group members from each group receive the same quiz score. Quizzes almost always take place during the last part of class, and may not be taken early (don't even ask!). **There are no make-up quizzes. If you are absent or leave class early for ANY reason, then you miss the quiz. Period.**

MAKE-UPS: Do not miss a scheduled exam. Make-ups are rarely granted, and only in case of serious emergencies. Documentation will be required. No exam scores will be “dropped”. However, your lowest exam grade may be replaced with your Final Exam percentage if that improves your overall grade. If you miss an exam, then that counts as your “lowest score”, and will be replaced by your Final Exam percentage. Only one exam score may be replaced.

OUT OF CLASS ASSIGNMENTS: The Department of Education policy states that one (1) credit hour is the amount of student work that reasonably approximates not less than one hour of class time and two (2) hours of out-of-class time per week over the span of a semester. The Western Association of Schools and Colleges (WASC) has adopted a similar requirement. **Since this class meets for approximately 8 hours per week, this means that you should expect and plan for a minimum of 16 hours to be spent working on trigonometry *outside of class* each week (on homework, tutoring, study groups, etc.).**

PACE: This course will move rapidly. **Because we are cramming 16 weeks’ worth of material into 6 weeks, we must cover a lot of material during each class period.** It is critical that you stay caught up, avoid missing class, avoid falling behind, stay organized, ask questions, and get additional help whenever necessary.

Attendance

- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student’s status will be the same as that of any other student who desires to add a class. It is the student’s responsibility to drop or officially withdraw from the class. See General Catalog for details.
- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. For online courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as ‘excused’ absences.

Any in-class activities or worksheets that are missed due to an absence CANNOT be made up. Furthermore, on quizzes and exams you are responsible for all material covered in class, regardless of whether or not you were here. Therefore, if you do miss class, you should obtain any missed worksheets or other materials from the instructor, and obtain lecture notes from a classmate.

Attendance is crucial to your success in this course. You are expected to attend every class and **remain during the entire class. Leaving class early without prior consent from the instructor counts as an absence, and** costs points. If you cannot commit to being in class during the regularly scheduled time (Monday - Thursday, 10:00 am – 12:10 pm), then you should drop this class and take it during the regular semester. If you have 4 unexcused absences, I may drop you from the course.

Although you may be dropped for excessive absences, you should never *assume* the instructor has dropped you if you simply stop showing up. It is your responsibility to ensure that you have dropped through WebSTAR by the deadline (July 18, 2019) to receive a “W” instead of a failing grade.

Classroom Etiquette

School is place to act with respect. Remember that different students have different paces and styles of learning, and that all students have the right to ask questions in class. As a student, you have the right to a safe and comfortable learning environment. You do not have the right to impinge on other students' learning. Talking or other disruptive classroom behavior WILL affect your grade.

Students who disrupt or interfere with a class may be sent out of the room and required to meet with the Campus Disciplinary Officer before returning to continue with coursework. For further information, refer to the Standards of Student Conduct on pages 41-42 of the 2018-2019 General Catalog.

Class work points:

- You don't receive points for attending class, nor lose points for missing class. However, several in-class activities and quizzes will be worth points which you can only receive if you are in class that day. Any activities you miss by being absent CANNOT be "made up".
- Unlike exam points and homework points, **class work points can be both earned and lost.** Points may be lost through disrespectful or disruptive behavior such as talking in class, leaving class early, answering cell phones, etc.

Cell phones and other electronic devices:

- Turn OFF all cell phones and electronic devices before class, and especially during exams. Cell phones that are on "vibrate" mode are STILL DISRUPTIVE.
- Leaving the room to answer cell phones that are in "silent" mode is disruptive and unacceptable. Take care of private calls/texting on your own time.
- Students caught texting during class may be asked to leave class, with an unexcused absence given for that day. Simply put, **if you do not plan to participate and engage in class, then do not bother coming to class.**
- The use of text messaging or other electronic devices for cheating on tests will be treated with the same seriousness as any other form of cheating (see ACADEMIC HONESTY below). Cell phones may not be used as calculators during exams. If you must leave to use the restroom during a test (which you shouldn't), **then you must leave your cell phone with me.**

Other ways to lose points in class:

- Packing up and leaving in the middle of class (10 points per offense)
- Talking/being otherwise disruptive during lecture (5 – 10 points per incident)

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and due process. For further information regarding student rights and responsibilities please refer to the IVC General Catalog available online at http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762

Information Literacy

Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. The IVC [Library Department](#) provides numerous [Information Literacy Tutorials](#) to assist students in this endeavor.

Academic Honesty

- Plagiarism is to take and present as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to correctly 'cite a source', you must ask for help.
- Cheating is defined as fraud, deceit, or dishonesty in an academic assignment or using or attempting to use materials, or assisting others in using materials, or assisting others in using materials, which are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the General School Catalog for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment, (e) use of a commercial term paper service.

- The consequences of academic dishonesty are severe and may include the possibility of expulsion. For further information, refer to the Standards of Student Conduct on p. 34 and pp. 41-42 of the 2018-2019 General Catalog.

Additional Help

Imperial Valley College offers various services in support of student success. The following are some of the services available for students. Please speak to your instructor about additional services which may be available.

- **[CANVAS LMS](#)**: Canvas is Imperial Valley College's main Learning Management System. To log onto Canvas, use this link: [Canvas Student Login](#). The [Canvas Student Guides Site](#) provides a variety of support available to students 24 hours per day. Additionally, a 24/7 Canvas Support Hotline is available for students to use: 877-893-9853.
- **[Learning Services](#)**. There are several learning labs on campus to assist students through the use of computers and tutors. Please consult your [Campus Map](#) for the [Math Lab](#); [Reading, Writing & Language Labs](#); and the [Study Skills Center](#).
- **[Library Services](#)**. There is more to our library than just books. You have access to tutors in the [Study Skills Center](#), study rooms for small groups, and online access to a wealth of resources.

Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student Health Fee.

- **[Student Health Center](#)**. A Student Health Nurse is available on campus. In addition, Pioneers Memorial Healthcare District provide basic health services for students, such as first aid and care for minor illnesses. Contact the IVC [Student Health Center](#) at 760-355-6128 in Room 1536 for more information.
- **[Mental Health Counseling Services](#)**. Short-term individual, couples, family and group counseling services are available for currently enrolled students. Services are provided in a confidential, supportive, and culturally sensitive environment. Please contact the IVC Mental Health Counseling Services at 760-355-6310 or in the building 1536 for appointments or more information.

Disabled Student Programs and Services (DSPS)

Any student with a documented disability who may need educational accommodations should notify the instructor or the [Disabled Student Programs and Services](#) (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6313. Please contact them if you feel you need to be evaluated for educational accommodations.

Veteran's Center

The mission of the [IVC Military and Veteran Success Center](#) is to provide a holistic approach to serving military/veteran students on three key areas: 1) Academics, 2) Health and Wellness, and 3) Camaraderie; to serve as a central hub that connects military/veteran students, as well as their families, to campus and community resources. Their goal is to ensure a seamless transition from military to civilian life. The Center is located in Building 600 (Office 624), telephone 760-355-6141.

Student Equity Program

- The Student Equity Program strives to improve Imperial Valley College's success outcomes, particularly for students who have been historically underrepresented and underserved. The college identifies strategies to monitor and address equity issues, making efforts to mitigate any disproportionate impact on student success and achievement. Our institutional data provides insight surrounding student populations who historically, are not fully represented. Student Equity addresses disparities and/or disproportionate impact in student success across disaggregated student equity groups including gender, ethnicity, disability status, financial need, Veterans, foster youth, homelessness, and formerly incarcerated students. The Student Equity Program provides direct supportive services to empower students experiencing insecurities related to food, housing, transportation, textbooks, and shower access. We recognize that students who struggle meeting their basic needs are also at an academic and economic disadvantage, creating barriers to academic success and wellness. We strive to remove barriers that affect IVC students' access to education, degree and certificate completion, successful completion of developmental math and English courses, and the ability to transfer to a university. Contact: 760.355.5736 or 760.355.5733 Building 100.
- The Student Equity Program also houses IVC's Homeless Liaison, who provides direct services, campus, and community referrals to students experiencing homelessness as defined by the McKinney-Vento Act. Contact: 760.355.5736 Building 100.

Extended Opportunity Program and Services (EOPS)

The Extended Opportunity Program and Services (EOPS) offers services such as priority registration, personal/academic counseling, tutoring, book vouchers, and community referrals to qualifying low-income students. EOPS is composed of a group of professionals ready to assist you with the resolution of both academic and personal issues. Our staff is set up to understand the problems of our culturally diverse population and strives to meet student needs that are as diverse as our student population.

Also under the umbrella of EOPS our CARE (Cooperative Agency Resources for Education) Program for single parents is specifically designed to provide support services and assist with the resolution of issues that are particular to this population. Students that are single parents receiving TANF/Cash Aid assistance may qualify for our CARE program, for additional information on CARE please contact Lourdes Mercado, 760-355- 6448, lourdes.mercado@imperial.edu.

EOPS provides additional support and services that may identify with one of the following experiences:

- Current and former foster youth students that were in the foster care system at any point in their lives
- Students experiencing homelessness
- Formerly incarcerated students

To apply for EOPS and for additional information on EOPS services, please contact Alexis Ayala, 760-355-5713, alexis.ayala@imperial.edu.

Course Grading Based on Course Objectives

EVALUATION:

Class Work & Group Quizzes	125
MyMathLab Homework	125
Projects	100
3 exams × 150 points each	450
Final Exam (cumulative)	+ 200
	1000

GRADING SCALE

900 – 1000	A
800 – 899	B
700 – 799	C
600 – 699	D
Below 600	F

The grade that is earned, according to the point scale above, is the grade that will be received. Grades are not subjective. Grades are not negotiable. All students will be treated equally.

NOTE: The final exam in this course is cumulative and mandatory for all students

Anticipated Class Schedule / Calendar

(*With the exception of the Final Exam, these dates are tentative and subject to change with advance notice!)

Monday	Tuesday	Wednesday	Thursday
6/17 Welcome; 1.1, 1.2	6/18 1.3, 1.4	6/19 2.1, 2.2	6/20 2.3, 2.4
6/24 3.1, 3.2	6/25 3.3, 3.4	6/26 4.1, 4.2	6/27 EXAM 1
7/1 4.3, 4.4	7/2 5.1, 5.2	7/3 5.3, 5.4	7/4 HOLIDAY – NO CLASS
7/8 5.5, 5.6	7/9 EXAM 2	7/10 6.1, 6.2	7/11 6.2, 6.3
7/15 6.3, 6.4	7/16 7.1, 7.2	7/17 7.2, 7.3	7/18 EXAM 3
7/22 8.1, 8.2	7/23 8.2, 8.3	7/24 8.3; review	7/25 FINAL EXAM

NOTE: Homework Quiz dates will be announced in class and/or on Canvas.

IMPORTANT DATES AND DEADLINES:

June 19	Last day to add a class
June 23	Last day to withdraw without owing fees and/or be eligible for a refund
July 18	Last day to withdraw and receive a “W”
July 25	Final Exam (comprehensive)

ON-CAMPUS TUTORING RESOURCES:

Math Lab

Building 2600

Summer Hours:

Mon. – Thurs.: _____

Fri – Sun: Closed

(760) 355 – 6160 (Zhong Hu)

(760) 355 – 6187 (Rosalio Marin)

Study Skills Center

Located in the back of the IVC Library

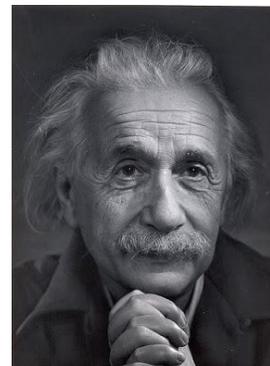
Please check at the Library for summer

hours, or contact Josue Verduzco at:

(760) 355 – 6384

“Never regard your study as a duty, but as the enviable opportunity to learn to know the liberating influence of beauty in the realm of the spirit for your own personal joy and to the profit of the community to which your later work belongs.”

-- Albert Einstein



FREQUENTLY ASKED QUESTIONS

The following questions are asked dozens of times every semester, in spite of already having been answered in the syllabus. Therefore, students who ask any of the following questions will be referred to this section of the syllabus for quick reference.

1) “I JUST GOT THE MONEY FOR THE MYMATHLAB ACCESS CODE. CAN YOU EXTEND THE HOMEWORK DEADLINES FOR ME?”

IVC faculty and staff do fully understand and recognize the financial difficulties experienced by many students on our campus. For this very reason, financial aid disbursements are disseminated in 3 separate payments. The first of these disbursements takes place before the start of each semester, SPECIFICALLY for the purpose of having money for textbooks and any other necessary supplies for classes. If you spend that first financial aid disbursement on something else and consequently lack the funds to purchase textbooks and other necessary supplies, then you have constructed your own barrier to your own success.

When you enroll in a college course, you should only do so with the full intention of obtaining all necessary supplies for the course in a timely manner (i.e, within the first week). The money for your course supplies is every bit as important as the money for the tuition fees that allowed you to enroll in the course. **You cannot miss the first few weeks of homework in any math class, and expect to pass that class. Period.**

2) “CAN I MAKE UP THE GROUP WORK I MISSED WHEN I WAS ABSENT?”

No, class work is collected as part of the attendance policy. “Attendance” means being physically (and mentally) there in class. The points earned are for being present in class, engaged and participating. Therefore, you cannot earn the points if you are not present in class. If you only miss 1 or 2 classes, then that will not have any significant impact on your grade. If you routinely miss class, or attend only the first or second half of classes, then it will have a significant impact on your grade. If attending class regularly is problematic for you, then you should withdraw from this section of Math 91 and take it at a different time.

3) “CAN I TAKE THE QUIZ NOW SO I CAN LEAVE EARLY?”

No. The answer is no, regardless of the reason, including but not limited to:

“I have to get to an appointment.”

“I have to go pick up my kids.”

“I have to catch the bus.”

“I have to go to work.”

“I’m not feeling well.”

Etc.

One of the primary reasons that Math 91 has a less-than-50% success rate is the excessively poor attendance habits of Math 91 students. If this class conflicts with your work schedule, bus schedule, childcare arrangements, etc., then you should drop this section and take Math 91 at a different time. Math 91 is offered at a variety of different day/time slots.

True emergencies should be extremely rare, not several times per semester. Every student will have the opportunity to make up ONE missed quiz by taking the universal make-up quiz at the end of the semester. If you have more than one extreme emergency during a single semester, then you are likely better off withdrawing from Math 91 and taking it at a later time when you are able to devote the proper amount of time and commitment.

4) (End of semester): “IS THERE ANYTHING I CAN DO TO RAISE MY GRADE?”

Yes – invent a time machine, go back, and do the work and studying that you should have done the first time around. Your grade is a reflection of the work that you have done throughout the entire semester.