

TRIGONOMETRY [ONLINE]

MAT 106 SECTION 810 SYLLABUS

SPRING SEMESTER 2024

INSTRUCTOR: Dr. Brooks Emerick
EMAIL: bemerick@kutztown.edu (best way to contact me)
OFFICE PHONE: (610) 683-4406
COURSE WEBSITE: <http://www.brooksemerick.com/mat-106>
OFFICE HOURS: Mon, Tue, and Wed 1:00 – 2:00 PM Zoom and Lytle 266
Tue and Thu 10:00 – 11:00 AM Zoom and Lytle 266
Thu 12:00 – 3:00 PM Library Book-n-Brew
or by appointment
ZOOM ID: 190-276-954

WEBASSIGN AND TEXTBOOK:

- WebAssign (REQUIRED): WebAssign: Trigonometry Digital Platform (~\$100). This access includes an electronic version of the textbook (below). When registering, use the class key: **kutztown 3115 2919**. For help on how to enroll into the course, click on the link labeled “WebAssign Registration Instructions” at: <http://www.brooksemerick.com/mat-106>
- Textbook (OPTIONAL): Trigonometry (11th Edition) by Larson. (~\$97 to purchase on Amazon; ~\$37 to rent on Amazon)

CONTENT: This course is an introduction into mathematical concepts related to properties of the trigonometric functions and their inverses. The course also covers analytical trigonometry, which involves solving trigonometric equations and using trigonometric identities. A graphing calculator is strongly suggested for this course. This course is designed for students who have two years of high school algebra. We will cover the following chapters from the textbook during this online session: Chapter 1 - Trigonometry (§1.1–1.8); Chapter 2 - Analytical Trigonometry (§2.1–2.5); and Chapter 3 - Additional Topics in Trigonometry (§3.1–3.2).

GRADES: Your grade is determined by your performance on quizzes, exams, and a comprehensive final exam. I will post all grades to D2L.

- 1) **Worksheet Check-Ins (10%)** – There are nine worksheet check-ins that make-up 10% of your total grade. You will upload your written work on the appropriate due date. Check-Ins are almost once a week (see schedule). The lowest worksheet check-in is dropped.
- 2) **Online Quizzes (20%)** – There will be six online quizzes, administered through WebAssign. I will drop the lowest quiz, making each quiz worth 4% of your overall grade. Each quiz is available for a 57 hour period, but must be finished during a 45-minute continuous span. The 57 hour window for each quiz is given below:

i) Quiz 1: Jan 31 at 3 PM – Feb 2 at 11:59 PM. To cover Sections 1.1–1.2.

- ii) Quiz 2: **Feb 7 at 3 PM – Feb 9 at 11:59 PM**. To cover Sections 1.3–1.4.
 - iii) Quiz 3: **Feb 28 at 3 PM – Mar 5 at 11:59 PM**. To cover Sections 1.5–1.6.
 - iv) Quiz 4: **Mar 6 at 3 PM – Mar 8 at 11:59 PM**. To cover Sections 1.7–1.8.
 - v) Quiz 5: **Apr 3 at 3 PM – Apr 5 at 11:59 PM**. To cover Sections 2.1–2.3.
 - vi) Quiz 6: **Apr 10 at 3 PM – Apr 12 at 11:59 PM**. To cover Sections 2.4–2.5.
- 3) **Online Exams (50%)** – There will be three online exams, administered through WebAssign. The sum of the three exams will total 50% of your overall grade (the two lower scores are worth 15% each, the highest score is 20%). Each exam is available for a 57 hour period, but must be finished during a 90-minute continuous span. The 57 hour window for each exam is given below:
- i) Exam I: **Feb 14 at 3 PM – Feb 16 at 11:59 PM**. To cover Chapter 1; Sections 1.1–1.4.
 - ii) Exam II: **Mar 20 at 3 PM – Mar 22 at 11:59 PM**. To cover Chapter 1; Sections 1.5–1.8.
 - iii) Exam III: **Apr 19 at 3 PM – Apr 21 at 11:59 PM**. To cover Chapter 2; Sections 2.1–2.5.
- 4) **Final Exam (20%)** – A 120-minute final exam will be administered through WebAssign. It will be available for an 66 hour window from **May 1 at 3:00 PM to May 3 at 11:59 PM**. Content: 70% of the final exam will cover Sections 3.1 and 3.2 and the remaining 30% will cover early material from Chapters 1 & 2.

Percentages are subject to minor modification. Any such changes will be communicated in a timely manner.

INTERNET ACCESS: It is your responsibility to have a reliable Internet connection at all times while this course is in session. If you fail to do so and miss a quiz or exam, no makeup will be arranged. *Do NOT use a tablet or phone to complete online assignments.*

WEBASSIGN ENROLLMENT: Print the tutorial entitled “WebAssign Registration Instructions” on the course webpage to have next to you if you need help. Visit [WebAssign](#) and click on “Enroll with Class Key” in the upper-right corner of the page. Enter the class key for this course, which is **kutztown 3115 2919**. Follow the right side of the tutorial that you printed out to purchase an access code. If you have any technical issues, contact the [WebAssign Tech Support](#) for assistance. NOTE: You may want to take advantage of the grace period before purchasing a WebAssign account. This way, when you are certain that you want to continue with the class, you can pay for complete WebAssign access after the grace period is over.

WORKSHEET CHECK-INS AND SUGGESTED PROBLEMS: I will frequently post on the course webpage a listing of blank worksheets for each section that will be covered in the course. These worksheets are graded. Frequently, about once a week (see schedule), you will be responsible for writing out the solutions to the worksheets. **You must upload your solutions using a photo generated from the GeniusScan app, CamScanner, or other scanning software to D2L by the due date.** Worksheets that are submitted late are automatically a zero once the solutions are posted. **Worksheets are graded on effort, neatness, and completeness.** I will only check to see that you are doing the worksheets, giving maximal effort, and writing out solutions in a coherent manner.

I will not mark specific problems right or wrong. Each assignment is based out of 5 points. After the due date, next to the link for the blank worksheets will be another link that has the written out solutions. **It is up to you to check your answers with the posted solutions.** This way, you can check your answers and see the solution written out fully so that you can understand the methods used to arrive at the answer. Also, I will post a listing of suggested problems from the back of each section of the textbook so that you know what types of problems can potentially be put on the quizzes and exams. The worksheets will contain several (but not all) problems from this listing of suggested problems. WebAssign quizzes and exams consist of problems taken *only* from these posted suggested problems.

ONLINE QUIZZES: There are a total of seven online quizzes, for which only the top six scores will be recorded. Quizzes are open notes and open book. Quizzes account for 20% of your overall grade and are administered through [WebAssign](#). Every quiz is available for a 57 hour period but each quiz has a 45-minute timer unless otherwise specified. On a quiz day, finish your quiz in any 45-minute continuous window within the 57 hour period. Quizzes typically open on Wednesdays at 3:00 PM and close on Fridays (two days later) at 11:59 PM. **Note: quizzes close one minute before midnight on Fridays.**

The specific dates and content of the quizzes are listed above and on the schedule. Once you begin the quiz, you must finish it within 45 minutes – your quiz auto-times out. After you answer each question, click on the “Save Assignment Progress” button. If the notice “Saving...” does not go away, reload the web page. Do NOT wait until the last seconds to submit your quiz. Once you have answered all the questions, be sure to hit the “Submit Assignment” button. Makeup quizzes are not given. Contact the [WebAssign Tech Support](#) if you have any technical issues. For specific guidelines on how to take the online quiz, please click on “Quiz Guidelines” on the course webpage. *Do NOT use a tablet or phone to take the quiz.*

ONLINE EXAMS: There are a total of three online exams and they account for 50% of your overall grade. They are administered through [WebAssign](#). Every exam is available for a 57 hour period but each exam has a 90-minute timer unless otherwise specified. On an exam day, finish your exam in any 90-minute continuous window. Similar to quizzes, exams typically open on Wednesdays at 3:00 PM and close on Fridays (two days later) at 11:59 PM. **Note: quizzes close one minute before midnight on Fridays.**

The specific dates and content of the exams are listed above and on the schedule. Once you begin the exam, you must finish it within 90 minutes – your exam auto-times out. After you answer each question, click on the “Save Assignment Progress” button. If the notice “Saving...” does not go away, reload the web page. Do NOT wait until the last seconds to submit your exam. Once you have answered all the questions, be sure to hit the “Submit Assignment” button. Contact the [WebAssign Tech Support](#) if you have any technical issues. For specific guidelines on how to take the online exam, please click on “Exam Guidelines” on the course webpage. *Do NOT use a tablet or phone to take the quiz.*

Makeup exams are given based on KU Policy ACA-016. If you are going to miss an exam, notify me prior to the exam’s start date and time. You will need to provide a publicly verifiable signed document that supports your request for a makeup. There is no guarantee that your request for a makeup will be granted. Makeup exams will be arranged during the final week of the course. There is no makeup exam if you forget or misread the date or time of an exam. The score for a

missed exam is zero.

ONLINE FINAL EXAM: There is a single, cumulative final exam worth 20% of your overall grade. The final is administered through [WebAssign](#). The final exam has an 120-minute timer unless otherwise specified, and will be available to take between 3 PM on May 1 and 11:59 PM on the last day of class (May 3). Once you begin the final exam, you must finish it within 120 minutes – your exam auto-times out. After you answer each question, click on the “Save Assignment Progress” button. If the notice “Saving...” does not go away, reload the web page. Do NOT wait until the last seconds to submit your exam. Once you have answered all the questions, be sure to hit the “Submit Assignment” button. Contact the [WebAssign Tech Support](#) if you have any technical issues. For specific guidelines on how to take the final exam, please click on “Final Exam Guidelines” on the course webpage. *Do NOT use a tablet or phone to take the final exam.*

Makeup final exam is given based on KU Policy ACA-016. If you are going to miss the exam, notify me prior to the exam’s start date and time. You will need to provide a publicly verifiable signed document that supports your request for a makeup. There is no guarantee that your request for a makeup will be granted. Makeup final exam will be arranged at the convenience of the instructor.

ACADEMIC DISHONESTY: I do not tolerate academic dishonesty. In particular, you must work alone on all quizzes and exams. I reserve the right to ask you to submit all written work for this course. You are required to abide by the Student Code of Conduct outlined in the most recent policies and procedures in the Key Student Handbook (www.kutztown.edu/TheKey). Refer to Policy ACA-027. Violations of the policy will be handled by the Office of Academic Honesty in the Dean of Students Office.

DISABILITIES: The [Disability Services Office](#) (DSO) is located at 215 Stratton Administration Building. If you have already disclosed a disability to the DSO and are seeking accommodations, please feel free to speak with me privately so that I may assist you.

GRADING SCALE:

Grade	Percentage
A	[92%, 100%]
A-	[90%, 92%)
B+	[88%, 90%)
B	[82%, 88%)
B-	[80%, 82%)
C+	[76%, 80%)
C	[70%, 76%)
D	[60%, 70%)
F	[0%, 60%)