Instructor Information

Instructor: Alison Passmore

Office Hours: By appointment
Phone: 501-771-8100
Email: passmorea@nrlsd.org or apassmore@uaptc.edu

*All emails and telephone calls will receive a response within two business days.

Chair: Denise Hammett (501)812-2874 dhammett@uaptc.edu

Dean: Dr. Marico Bryant Howe (501)812-2342 mbryanthowe@uaptc.edu

*If your emails and telephone calls do not receive a response within two business days, the appropriate chain of command is above.

Course Information

Class meets according to the NLRHS A/B schedule in A223.

Catalog Description

3 Credit Hours

Study of trigonometric functions, identities, equations and applications.

PREREQUISITE: Students enrolled in MATH 1303 must meet one of the following requirements:

- MATH 1302 (College Algebra) with a grade of “C” or better
- A score of 26 or higher on the mathematics section of the ACT
- A score of 70 or higher on the COMPASS Algebra Placement Test
- A score of 86 or higher on the Accuplacer College Level Placement Test
Course Materials

Disclaimer: UA-PTC will not guarantee materials purchased anywhere other than the UA-PTC bookstore. The purchase of codes for the online environment should be purchased through the UA-PTC bookstore or directly when registering for the online environment by following the instructions supplied by your instructor. Please take a picture of your code for safe keeping as lost codes cannot be replaced.

ISBN: 9780134765426

Calculator: A TI-83 or 84 calculator is required for the course.

If you have been awarded financial aid but have not received funds, you can take your schedule down to the UA-PTC bookstore and they will charge your books to your account. This will allow you to purchase your book early and will alleviate you getting behind this semester.

Mission Statement

University of Arkansas – Pulaski Technical College provides access to high-quality education that promotes student learning and enables individuals to develop to their fullest potential.

Institutional Learning Outcomes and General Education

UA-PTC supports a college-wide institutional learning assessment program which concerns effective instructional methods and promotes student learning achievement by assessing:

1. Information Literacy
2. Technology Literacy
3. Communication
4. Critical Thinking
5. Quantitative Reasoning
6. Cultural Awareness
7. Professionalism

For more information, please consult the following website: [https://uaptc.edu/sla](https://uaptc.edu/sla)

Department / Program Learning Outcomes
The mission of the math department is to prepare students with the mathematical knowledge and understanding necessary for students to accomplish their educational goals. The math department aims to teach, advise and consult on any mathematical related matter whether a student wishes to successfully transfer to a four year college, gain entrance into the workforce, enhance their personal skills or further their lifelong learning pursuit.

Upon successful completion of the required math courses,

DLO #1: Students will demonstrate the ability to use symbolic, graphical, numerical and written representations of mathematical ideas.
DLO #2: Students will use mathematical reasoning and, when appropriate, a general problem solving process to solve problems.
DLO #3: Students will learn mathematics through modeling real-world situations.
DLO #4: Students will use appropriate technology to enhance their mathematical thinking and understanding, solve mathematical problems, and judge the reasonableness of their results.

**Student Learning / Course Outcomes**

The student will:

- Develop an understanding of trigonometric functions
- Use trigonometric relations in solving problems including circular motion
- Develop an understanding of complex numbers and their trigonometric representation
- Use appropriate technology
- Demonstrate an understanding of trigonometric identities, equations, and applications

Students will demonstrate the ability to

1. Work with degree and radian measure
2. Find coterminal angles
3. Find arc lengths and areas of sectors
4. Solve problems using linear and angular velocities
5. Solve problems using right-triangle trigonometry
6. Use appropriate technology with trigonometric functions
7. Use the definitions of trigonometric functions
8. Recognize domain and range of trigonometric functions
9. Use graphs of trigonometric functions
10. Work with inverse trigonometric functions
11. Verify and use trigonometric identities
12. Solve trigonometric equations
13. Use the Law of Sines and the Law of Cosines to solve triangles
14. Perform vector operations
15. Work with complex numbers in trigonometric form

Policies

Report a Complaint or Concern

UA-PTC takes very seriously complaints and concerns regarding the institution. Most complaints or concerns of a specific nature should be initiated and resolved at the campus level through normal college processes whenever possible. UA - Pulaski Technical College receives and resolves complaints using a variety of methods. To report a complaint or concern, please follow the link below.

https://www.uaptc.edu/report-a-concern-complaint

UA-PTC Attendance Policy

Education at UA-PTC requires students’ active involvement in the learning process. Thus, students are expected to attend all classes and actively engage in all learning assignments and/or opportunities provided in their classes. Class attendance should be treated as mandatory by all students as attendance will be taken by all instructors during the first two weeks of class.

Departmental Attendance Policy

Agencies granting financial assistance may be notified of the violation of the attendance policy by students receiving financial aid.

Attendance is taken starting the first day of the semester and throughout the semester. Teachers have the right to count students as absent if they arrive late to class, leave class early, or go in and out of the classroom during class time. Teachers have the right to lower a student’s grade based on excessive absences as outlined in the syllabus for the course. Instructors set the attendance policy for courses and students must follow those policies.

Any student who does not attend class before the roster certification date will be considered a “no show” according to the campus attendance policy and will be reported as such and dropped from the class. Students who were dropped because they had not attended class, will not be
allowed back into the course during that specific term; refunds are automatically added to the student's account for being reported as Never Attending a class. Instructors set the policies for counting students as “no shows” in the online environment and it is the student’s responsibility to follow those policies.

Regular and consistent attendance should be maintained in order to be successful in this course. Excessive tardiness and/or absences are considered discourteous to the instructor and the learning environment and can be a detriment to successful course completion. Students who are absent for any portion of a class session miss important information from lectures, class discussions, handouts and assessments, and can easily fall behind on the material. As mastery is a basis for progression, students will need to be present each day for the entire class session. Following an unavoidable absence, the student has the responsibility for completing all activities missed as allowed by the instructor. Instructors in the online environment establish the attendance policies and the requirements for success and it is the student’s responsibility to adhere to those policies.

**Drop Date:** The last day to drop a course or withdraw from the college is **Wednesday, April 17, 2019. A student should consult with their instructor and financial aid (if applicable) before submitting a drop form.** A student can request to drop or withdraw by visiting the student services office on any campus or by submitting a written, faxed request. Faxed requests can be sent to (501) 812-2316 and must contain the student's name and student ID number, a statement of which course you wish to drop or a statement that you are withdrawing from all courses, your signature, and a copy of your state-issued photo identification. Instructors do not have an administrative drop option and cannot drop students from courses; it is entirely the student’s responsibility to complete the process if they wish to drop from the course.

**Course Policies**

The UA-PTC Catalog rules and regulations will be enforced in this course at all times.

Please consult the following website for more information: [https://www.uaptc.edu/catalog](https://www.uaptc.edu/catalog)

Professional behavior is required. Punctual attendance and intelligent participation are expected. Particulars, as determined by the instructor, are detailed in the paragraph(s) below.

Appropriate behavior is expected for all communications, including any notes, email messages, or telephone conversations. Some guidelines for communication are included in this syllabus to help you.

**Campus Visitors Policy:** Classrooms and laboratories are restricted to currently enrolled students only. Visitors are not allowed in any classroom or laboratory where a scheduled course is being taught. At no time are children allowed in the classroom during times when scheduled courses are being taught. Additionally, when it is necessary to bring children to campus, they may never be left unattended. At all times, children remain the sole responsibility of the parent.

**Incompletes:** The requirements for awarding a grade of incomplete, “I” can be found in the College Catalog on page 31 by using the following link: [https://www.uaptc.edu/catalog](https://www.uaptc.edu/catalog).
Math Department Chair: Denise Hammett, dhammett@uaptc.edu. The department chair may be contacted as a next point of contact. The department chair will not overturn decisions made by the instructor based upon the policies or requirements of the syllabus.

Cell Phones: Please turn cell phones on vibrate mode during class time. Texting during class or doing other things on your phone or tablet or smart watch during class not related to the course is not a good idea as concepts being taught will be missed. No cell phone or other electronic devices (other than graphing calculator) can be used during tests.

Grading Policy

Letter grades will be based on the following scale:

- 90 to 100% A
- 80 to 89% B
- 70 to 79% C
- 60 to 69% D
- 0 to 59% F

Homework/Classwork/Quizzes: 25%
Regular Exams: 50%
Final Exam: 25% (Student will receive an F for the course for failure to take final exam). Final exam will also act as a replacement test for the lowest unit test score in the semester.

Course Average will be calculated as follows: (Homework/Classwork Avg * 0.25) + (Regular Tests Avg * 0.50) + (Final Exam Avg * 0.25)

* Instructors have one week to provide feedback and post grades for all assignments unless otherwise noted by a departmental policy that has been approved by the Dean of the School.

Make-up and Late Policy: Follow NLRHS handbook policy.

Academic Integrity

It is expected that all students who attend UA-PTC conduct themselves in a manner appropriate for the college experience. Academic integrity is a vital component of collegiate behavior. The UA-PTC catalog states, “The gaining of knowledge and the practice of honesty go hand-in-hand.”
The catalog also states, “The responsibility and authority of initiating discipline arising from violations of the rules against dishonesty during the process of the course are vested in the instructor of that course.”

The complete Academic Integrity Policy is in the UA-PTC code of conduct. https://www.uaptc.edu/catalog

Accommodation Policy

Services for Students with Disabilities: UA-PTC is committed to fulfilling all federal requirements as stated in the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and the American with Disabilities Amendments Act (ADAAA) of 2008. Accommodations are available to students who have documented disabilities. Students who request accommodations must register with the Disability Services Office (Main Campus: 501-812-2738 or South Campus: 501-812-2862) and must provide current and relevant documentation.

Students requesting accommodations should inform the instructor at the beginning of the course or as soon as accommodations are approved. It is the student's responsibility to provide their Accommodation Letter to the instructor. Accommodations are not retroactive and will only be provided once your instructor receives the Accommodation Letter.

Student Code of Conduct

All students are expected to abide by the UA-PTC Student Code of Conduct. For the full Student Code of Conduct, access the most current version of the UA-PTC Academic Catalog. https://www.uaptc.edu/catalog

Sexual Misconduct

No person at UA-Pulaski Technical College will, on the basis of gender, be excluded from participation in, be denied benefits of, or be subjected to sex discrimination, sexual harassment or sexual misconduct under any education program or activity. All college administrative policies and procedures regarding sex discrimination, sexual harassment, and sexual misconduct are in compliance with Title IX. Students who feel they are victims of sexual misconduct should contact the UA-PTC Title IX Deputy Coordinator for Students:

Michelle Anderson, Director of Student Life and Leadership
Campus Center Building Room 216
501-812-2756
manderson@uaptc.edu

Course Evaluations

Students may be asked to evaluate their instructor and course near the end of the semester. These student evaluations are very important to the improvement in the quality of instruction.
and course materials. All results are anonymous and shared with the faculty only after the semester is over and grades have been posted.

Information Literacy

UA-PTC is committed to the Information Literacy Competency Standards for Higher Education as established by the Association of College and Research Libraries and endorsed by the National Forum on Information Literacy. Therefore, all courses will incorporate an information literacy component so that, by graduation, all students will be able to recognize the need for information, then locate, evaluate, synthesize, and communicate information in an ethical manner. Information literacy encompasses critical thinking, research, media, technology, health, business, and visual literacy skills to produce lifelong learners who can make informed decisions in the workplace and in their personal lives.

Tentative Course Schedule

Week 1: 1.1 Angles and Radian Measure
Week 2: 1.2 Right Triangle Geometry and 2.3 Trigonometric Functions of Any Angle
Week 3: 1.4 Trigonometric Functions: The Unit Circle
Week 4: Unit 1 Test and 2.1 Graphs of Sine and Cosine
Week 5: 2.2 Graphs of other Trigonometric functions and 2.3 Inverse Trigonometric Functions
Week 6: 2.4 Applications of Trigonometric functions
Week 7: Unit 2 Test and 3.1 Verifying Trigonometric Functions
Week 8: 3.2 Sum and Difference of Formulas
Week 9: 3.3 Double Angle, Power Reducing, And Half Angle formulas and 3.4 Trigonometric Equations
Week 10: Unit 3 Test
Week 11: 4.1 Law of Sines and 4.2 Law of Cosines
Week 12: 4.3 Vectors and 4.4 The Dot Product
Week 13: 5.1 Complex Numbers and 5.2 Complex Numbers in Polar Form: DeMoivre’s Theorem
Week 14: 5.3 Polar Coordinates and 5.4 Graphs of Polar Coordinates
Week 15: Unit 4 test
Week 16: Review for Final Exam

Final Exam Schedule: Follow NLRHS senior exam schedule (May 6-May 9)

Disclaimer: This schedule is a guide for the semester. The instructor reserves the right to amend the schedule as necessary.
Course Agreement Form

Read, complete, and return to instructor:

I have read the course syllabus for Alison Passmore class at UA-Pulaski Technical College, and I understand its content. I also understand the rules for the class, and I will follow and abide by these rules, including those relating to attendance, assignments, grading criteria, plagiarism, and behavior.

________________________________________
Semester

________________________________________
Date

________________________________________
Print name

________________________________________
Signature

________________________________________
UA-PTC Email address

________________________________________
Telephone