



School of Arts and Sciences

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Fall 2025  
Math 1113-ABP Pre -Calculus  
crn 80873

**Semester Fall 2025**

**Instructor:** Gyuheui Choi

**Office location:** Science Lecture Building room 171

**Office telephone:** 678-623-1291 cell) 404-985-7375

**Online office hours:** gchoi@atlm.edu

**Email address:** [gchoi@atlm.edu](mailto:gchoi@atlm.edu)

**Class Meeting :** 9:00am – 10:15 am, MW at  
BLDG 900-Room 104

**\*Note:** Please use the internal course e-mail for general correspondence. I provide my external e-mail address for emergencies only. I cannot answer questions, accept assignments, or discuss grades via external e-mail so please use it for emergencies only.

**Response Time:** Unless you are notified otherwise, I will work to respond to all student questions and emails within 24 hours during the week and within 48 hours during the weekend.

**Course Delivery Method:**

This section of Precalculus Math1113 is a **in-person lecture**.

**MyMathLab** [\\_choi56449](#)

**\*Note:** This course may transition to an online format at any point in the semester in compliance with the University System of Georgia and CDC guidelines in order to ensure the safety of our students and faculty.

**Important Dates**

**Holiday(s):** Labor Day, Sept 1

Thanks Giving day, Nov 27-28

**Attendance Verification:** 8/22 - 27

**Last Day to Reinstate:** September 8/28 – 9/2

**Last Day to Withdraw without Penalty:** Oct 20

**Last Day of Class:** Dec 6

**Final Exam:** December 9= 11

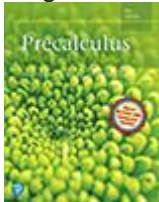
**Registration Start Date:** October 13

**Please read this syllabus carefully, and check with the instructor if you have any questions. Students are responsible for the information contained in this syllabus.**

**Credit Hours: 3**

**Course Description:** This course is designed to prepare students for calculus, physics, and related technical subjects. Topics include an intensive study of algebraic and transcendental functions accompanied by analytic geometry. Prerequisite: A grade of C or better in College Algebra (MATH 1111) or satisfactory performance on a mathematics exemption examination or permission of the instructor.

Original Materials:



**Precalculus: A Right-Triangle Approach, MyLab Math Revision with Corequisite Support 5th Edition**

Author(s): Beecher, Judith | Penna, Judith | Bittinger, Marvin  
Textbook ISBN-13: 9780321969552

To register for Pre-Calculus:

1. Go to <https://mlm.pearson.com/enrollment/choi56449>
2. Sign in with your Pearson student account or create your account. For Instructors creating a Student account, do not use your instructor credentials.
3. Select any available access option, if asked. » Enter a prepaid access code that came with your textbook or from the bookstore. » Buy instant access using a credit card or PayPal. » Select Get temporary access without payment for 14 days.
4. Select Go to my course.
5. Select Pre-Calculus from My Courses. If you contact Pearson Support, give them the course ID: choi56449

**Note:** All homework is done in MyMathLab which requires a code.  
A code comes with the e-text or with a new edition of the text.

**Course id is choi56449**

**The Text, the e-text, and all other resource materials can be purchased**

**from the campus bookstore.**

**The following General Education Quantitative/Mathematical Learning Outcomes pertain to this class:**

**Students successfully completing MATH 1113 should be able to** Use mathematical operations and concepts to solve problems related to practical situations.

This general education outcome will be assessed via specific items on in-class exams. The course is primarily lecture based. It will also incorporate discussions, problem-solving, and group activities.

### **Program Learning Objectives and Outcomes**

<b>Program</b>	<b>Course Assessed</b>	<b>PLO</b>	<b>Assessment Measure</b>
Mathematics	Math 1113	<p>1. Construct, analyze, and interpret mathematical and statistical models.</p> <p>2. Use appropriate technology and software for solving and for mathematical and statistical problems</p>	<p>1. An airplane is flying at an altitude of 2000 ft toward Atlanta International Airport, in Atlanta, GA. The straight-line distance from the airplane to the airport is <math>d</math> feet. Express <math>\theta</math>, the angle of depression, as a function of <math>d</math> using inverse of Trigonometric Functions.</p> <p>2. Find x-intercept of <math>f(x) = 2x^2 - 8x - 3</math> by using <b>Graphing Calculator (TI 83 or higher)</b></p>

- 1.
2. Finding the sum, difference, product, quotient of functions.
3. Forming the composition of two or more functions.
4. Manipulating and graphing as applied to the following types of functions:
  - linear
  - quadratic
  - polynomial
  - rational
  - greatest integer
  - absolute value
  - general piecewise
  - exponential
  - logarithmic
  - trigonometric
5. Finding the inverse of a function.

### Properties of functions:

Students should show proficiency in analyzing the following properties of functions:

1. Odd/even, symmetry,
2. increasing, decreasing
3. One-to-one.

### Properties of specific functions:

Students should show proficiency in

1. Solving equations involving exponential and logarithmic expressions
2. Using trigonometric identities to simplify trigonometric expressions..
3. Solving triangles by using Law of Sines and Law of Cosines.
4. Be able to apply sum - difference formulae, and double angle formulae.

### Sequences and series:

Students should show proficiency in:

1. Finding the sum of an arithmetic series.
2. Finding the sum of a geometric series.

### COURSE OUTLINE

**Required Textbooks:** Precalculus A Right Triangle Approach 5<sup>th</sup> ed by Beecher, Pena, Bittinger

Week	Chapter/ Sections	Topic	Exams
1-3	1.5	Linear Equations ,Functions, Zeros.Applications	<b>Exam 1 Sections: 1.5, 1.6, 2.1, 2.2, 2.3, 2.4.</b>
	1.6	Solving Linear Inequalities	
	2.1	Increasing, Decreasing, and Piecewise Functions. Applications	
	2.2	The Algebra of Functions	
	2.3	The Composition of Functions	
	2.4	Symmetry and Transformations	

4	3.2	Quadratic Equations, Functions, Zeros, and Models	<b>Exam 2 Sections: 3.2, 3.3, 3.5, 5.1, 5.2, 5.3, 5.4, 5.5.</b>
	3.3	Analyzing Graphs of Quadratic Functions	
	3.5	Solving Equations and Inequality with Absolute Value	
5,6,7	5.1	Inverse Functions	
	5.2	Exponential Functions and Graphs	
	5.3	Logarithmic Functions and Graphs	
	5.4	Properties of Logarithmic Functions	
	5.5	Solving Exponential and Logarithmic Equations	
8,9	6.1	Trigonometric Functions of Acute Angles	<b>Exam 3 Sections: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6.</b>
	6.2	Applications of Right Triangles	
	6.3	Trigonometric Functions of Any Angle	
	6.4	Radians, Arc Length, and Angular Speed	
	6.5	Circular Functions: Graphs and Properties	
	6.6	Graphs of Transformed Sine and Cosine Functions	
10, 11,12	7.1	Identities: Pythagorean and Sum and Difference	<b>Exam 4 Sections: 7.1, 7.2, 7.3, 7.4 7.5, 8.1, 8.2, 11.1, 11.2.</b>
	7.2	Identities: Cofunction, Double-Angle, and Half-Angle	
	7.3	Proving Trigonometric Identities	
	7.4	Inverses of The Trigonometric Functions	
	7.5	Solving Trigonometric Equations	
	8.1	The Law of Sines	
	8.2	The Law of Cosines	
13,14	11.1	Sequences and Series	
	11.2	Arithmetic Sequences and Series	
15	<b>Comprehensive Final Exam</b>		

## GRADE ASSESSMENT

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**The final grade will be based on the following criteria:**

<ul style="list-style-type: none"> <li><b>Grade Computation:</b> MyMathLab Homework = 15 % Teacher Assignments and Quizzes = 10% Four Unit Exams = 60% Comprehensive Final Exam = 15%</li> </ul> <p><b>Note:</b> The score on the final exam will replace the lowest exam score from exam 1 through exam 4.</p>	<ul style="list-style-type: none"> <li><b>The Grading Scale:</b> A = 90% + B = 80-89% C = 70-79% D = 60-69% F = Below 60%</li> </ul>
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**Note: Any grade dispute in this class should be done this semester, spring 2019.**

**Bring any grade dispute to my attention this semester. After spring 2019 grade disputes are not allowed.**

**Missed Exams:** Make-up exams will be given only with the permission of the instructor or the Division Chairperson. Documentation is required for an excused absence from an exam, otherwise a score of "0" will be awarded. Not being ready for an exam is not a valid reason for a make-up exam. Make up exam should be taken within one week of scheduled exam date otherwise a grade of Zero will be given

**Course Delivery Method:** This course is primarily lecture-based. Nonetheless it will incorporate discussions and problem-solving activities. External to the classroom, software such as Maple , and Desire2Learn will be available for students to experiment with in order to broaden their mathematical horizons.

**Attendance Policy:** As a college student, you are expected to attend all class sessions on time. Be aware that much of the material may be new and that the results of absences historically become evident on quizzes and exams. You are responsible for everything which include but not limited to quizzes, exams, homework, and announcements. Also be aware that the instructor will cover topics and methodologies that do not appear in the text.

**→KEEP ALL COPIES OF YOUR WITHDRAWAL PAPERWORK←**  
**Failure to complete the withdrawal process will result in a grade of F\* for the class.**

## **CLASSROOM MANAGEMENT POLICIES**

- **Student Behavior**

Students are expected to respect the rights of other students, the instructor, guest lecturers, etc.; and students are expected to adhere to the codes of conduct and ethics as set forth in the *AMSC Student Handbook*. Get in touch with the instructor at the **first** sign of trouble. Being a college student entails a lot of responsibility, discipline, and hard work.

- **Cell Phone Policy**— Cell phones are not allowed in the classroom or laboratory setting unless they are kept on mute or vibrate and out of sight. This especially includes using the phone as a calculator for any purpose during class or on an exam. Talking on the phone and text messaging during class is disruptive and therefore strictly prohibited. Students are expected to adhere to the codes of conduct and ethics as set forth in the AMSC Student Handbook. **The penalty for a ringing phone or for answering the phone in the classroom can vary: It** may include a verbal reprimand, or dismissal from the class. Please be courteous to others and respect the learning environment at Atlanta Metropolitan State College.

## **DISABILITY ACT**

Atlanta Metropolitan College is committed to providing support for all students and making their college experience an enriching opportunity. In compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990, the Office of Disability Services located on the second floor of the Academic Building in room 228 oversees the coordination of services for students with documented disabilities. The Coordinator of Disability Services collaborates with faculty and staff to offer provisions for reasonable accommodations to students who meet the requirements. Accommodations cannot be provided until a reasonable accommodation plan is in place. To the greatest extent possible, all college representatives shall observe confidentiality.

## **ENSURING YOU ARE IN THE CORRECT CLASSES**

Also, students are ultimately responsible for ensuring that the course(s) in which they enroll are included in the approved degree plan and program map for their program of study. Students **must** periodically check their enrollment status in this course during the semester. The student is responsible for determining changes, if any in enrollment status and taking necessary steps (e.g., pursuing re-instatement in this course) as outlined in the AMC catalog.

## **Student Responsibility for Accurate Information**

The student is responsible for submitting valid, accurate contact information, including an active AMSC email address to the instructor by the end of the first week of the course. Students can obtain an Atlanta Metropolitan State College Student email address in the Academic Support Center on the third floor of the Library Building.

**ACADEMIC MISCONDUCT POLICY:** Academic Misconduct or Cheating takes many different forms. Although different instructors assign various penalties, academic misconduct is grounds for expulsion from the college. Examples of academic misconduct include, but are not limited to, copying exam answers from others; using notes, calculators, dictionaries and books during examinations or assignments without the authorization of the instructor; handling in someone else's work as one's own; or any deceptive act that interferes with the instructors effort to accurately evaluate a student's academic performance.

## **PROTOCOL For Issues Between Student and Professor**

There is proper protocol for communicating issues you may have with an AMSC instructor related to the grading policy or other course management concerns. Should you have a problem/concern/complaint/etc. that you feel needs to be addressed, you should **FIRST** have a private conference with the instructor concerning the issue. If the issue cannot be resolved at the instructor's level, the next person to talk with is the Mathematics Department Head. If the issue is still not resolved, then the student will be notified as to the next step in the process until final resolution is made in accordance with the grievance procedures outlined in the AMSC Student Handbook and the Academic Catalog. In order to have your concern addressed, **please follow this protocol.**

## **Long-Term Emergency Closure of the College: Plan for Continuation of Instruction**

In the event of an emergency that forces the college to close for an extended period, students **must** contact the instructor of this class within 48 hours using the contact information (e.g., email address on the syllabus, D2L email, or telephone number on the syllabus) to obtain directions for continuing the course. The instructor will provide directions for the transmission and submission of course assignments and course assessments, including due dates. If the instructor for the course cannot be reached within the specified period of time (within 48 hours), the Depart Head or Dean of the division responsible for the course can be reached at the email address posted on the college's website.

## **Computer Hardware & Software Requirements:**

One of the challenges many encounter with enrolling in and completing an online course is the accessibility to the required and recommended software and hardware. Different institutions, and even different courses within the same institution, have varying technology requirements. Check your hardware and software systems to determine its compatibility with the online course you have selected.

## **Minimum hardware recommendations to take online courses:**

D2L System Requirement

Internet Connection:

- Ethernet Network required
- Wireless Network required

Operating System Requirements

- PC:
  - Compatible Operating System:
  - Web Browser: Firefox, Chrome
- Mac:
  - Compatible Operating System:
  - Web Browser: Firefox, Chrome, Safari

Hardware requirements:

Minimum Technical Specifications for Hardware:

- A processor of 2GHz or faster
- 4GB RAM or greater
- 500 GB of Hard Drive space
- Monitor and video card with a minimum resolution of 1024x768
- Keyboard and mouse

Minimum Technical Specifications for Computer Peripherals:

- Speakers
- Headphones
- Microphone
- Webcam

### **Software requirements:**

Browser Requirements/Supported Browsers

Compatible Browsers:

- [Apple Safari](https://support.apple.com/downloads/safari) - <https://support.apple.com/downloads/safari> (Mac)
- [Google Chrome](https://www.google.com/chrome/) - <https://www.google.com/chrome/> (Mac or PC)
- [Mozilla Firefox](https://www.mozilla.org/en-US/firefox/new/) - <https://www.mozilla.org/en-US/firefox/new/> (Mac or PC)

Application Software

- Microsoft Office 2016 (Word, Excel, PowerPoint) (Mac or PC)
- [Adobe Reader](https://get.adobe.com/reader/) - <https://get.adobe.com/reader/>

Plug-ins

- [Java](https://www.java.com/en/download/) - <https://www.java.com/en/download/>
- [Adobe Flash Player](https://get.adobe.com/flashplayer/) - <https://get.adobe.com/flashplayer/>
- [Windows Media Player](https://www.microsoft.com/en-us/download/details.aspx?id=20426) - <https://www.microsoft.com/en-us/download/details.aspx?id=20426>
- [Apple QuickTime](https://support.apple.com/downloads/%2523quicktime) - <https://support.apple.com/downloads/%2523quicktime>
- [Microsoft Silverlight](https://www.microsoft.com/getsilverlight/Get-Started/Install/Default) - <https://www.microsoft.com/getsilverlight/Get-Started/Install/Default>

**Accessibility:** Wi-Fi is also available for use in the campus parking lots.

### **American Disability Act (ADA) Statement:**

Atlanta Metropolitan College is committed to providing support for all students and making their college experience an enriching opportunity. In compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990, The Department/Office of Counseling and Accessibility Services, located in the Student Services & Success Center, building 650-Suite 252, oversees the coordination of services for students with documented disabilities. The Coordinator of Disability Services collaborates with faculty and staff to offer provisions for reasonable accommodations to students who meet the requirements. It is the policy and practice of AMSC to make all Web information accessible to students with disabilities. If you, as a student with a disability, have difficulty accessing any part of the course materials for this class, please notify the instructor immediately.

Accommodations cannot be provided until a reasonable accommodation plan is in place. To the greatest extent possible, all college representatives shall observe confidentiality.



### **Office of Counseling and Accessibility Services:**

The Office of Counseling and Accessibility Services operates under the Americans with Disabilities Act (ADA) laws in order to assist in leveling the playing field for students who have disabilities with those who do not.

The amended ADA, otherwise known as ADAAA defines “disability” as a physical or mental impairment that substantially limits one or more major life activities. If you feel that you have a disability or impairment that may limit your academic functioning, please contact Dr. Dorothy Williams, the Coordinator of Counseling and Accessibility Services at 404-756-4016 or at <https://www.atlm.edu/students/counseling-and-disability-services.aspx>.

The Coordinator of Counseling and Accessibility Services reviews all accommodation requests. In order to receive accommodations, the student’s illness or disability must be verified in writing by a physician, psychiatrist, or some other health care provider or specialist. Students choosing to access disability support services should contact the Coordinator as soon as possible after acceptance to AMSC. Please be aware that late notifications may result in complications for establishing accommodations in a timely fashion.

### **Withdrawal:**

- **Withdrawal from a course is solely the responsibility of the student.**  
Instructors will not initiate student withdrawals. A student who wished to withdraw from a course **MUST** submit a completed Withdrawal Form (Schedule Reductions Form) to the Registrar’s Office before mid-term in order to receive a grade of “W” for the course.
- Students are ultimately responsible for ensuring that the course(s) in which they enroll are included in the approved degree plan and program map for their program of study. Students **MUST** periodically check their enrollment status in this course during the semester. The student is responsible for determining changes, if any in enrollment status and taking necessary steps (e.g. pursuing re-instatement in this course) following those outlined in the AMSC catalog.

### **Attendance Policy:**

- Attendance and participation discussions are required.
- Students are required to log into the class regularly.
- There are no make-up exams.

### **Time Commitment:**

Students can expect to spend 3 hours per week on this course. Consult the course calendar and your instructor to be sure you are on schedule, keeping up with the material and taking quizzes on time.

Expectations for this course as follows:

- Log in regularly to check messages from your instructor and other students.
- Check the course calendar, D2L email, and AMSC email regularly.
- Read, study, and complete all assignments for each lesson by the due date.

### **Conduct**

You are expected to refrain from profanity, crudeness, and slurs of any kind. You are also expected to treat your fellow students and instructor just as you would in the traditional classroom. Proper conduct applies to all forms of communication in the course. The penalty for not complying with these guidelines is removal from the course.

**Late Policy:**

Late Assignments: Assignments turned in after the due date and time will be subject to a **10** point decrease of the earned grade.

Late Quizzes: Quizzes completed after the due date and time will be subject to a **10** point decrease of the earned grade.

Late Discussions: Discussions posted after the due date and time will be subject to a **10** point decrease of the earned grade.

**Enrollment Status:**

Students are ultimately responsible for ensuring that the course(s) in which they enroll are included in the approved degree plan and program map for their program of study. Students **must** periodically check their enrollment status in this course during the semester. The student is responsible for determining changes, if any in enrollment status and taking necessary steps (e.g. pursuing re-instatement in this course) following those outlined in the AMSC catalog.

**Class Cancellation:**

- Procedure regarding long-term emergency closure of the college (attendance policy): In the event of an emergency that forces the college to close for an extended period, students **MUST** contact the instructor of this class within 48 hours using the contact information (e.g., email address in BrightSpace/D2L) on the syllabus to obtain directions for continuing the course. The instructor will provide directions for the transmission and submission of course assignments and course assessments, including due dates.
- The student is responsible for submitting valid, accurate contact information, including an active AMSC email address to the instructor by the end of the first week of the course. Students can obtain an Atlanta Metropolitan State College Student email address in the Academic Support Center on the third floor of the Library Building.
- If the instructor for the course cannot be reached within the specified period (within 48 hours), the Dean of the School responsible for the course can be reached at the email address posted on the college's website.

**Abandoning a Course:** Abandoning a course should be avoided at all cost. Abandoning a course instead of following official drop procedures will result in a grade of —F at the end of the course. It is the student's responsibility to initiate and complete the withdrawal process.

**Academic Honesty:**

- Only the epitome of professionalism is expected of each student. Cheating or the abetment of cheating is not tolerated
  - Per page 91-93 of the 2019-2020 Atlanta Metropolitan State College Catalogue the Penalties for Academic Misconduct states:
    - In cases where a student is found guilty of cheating or exhibiting academic misconduct involving an instructor-generated assignment or examination, the instructor may impose a penalty.
    - Types of penalties may include, but are not limited to, the instructor assigning a grade of "F" for the assignment, the instructor not accepting the work, the student being assigned additional work, or the student receiving a grade reduction for the assignment.
    - **The maximum penalty the instructor may impose is a grade of "F" for the course.**

### **Methods of Assessments:**

- **Reading Assignments:** Students are expected to read assigned textbook pages/chapters prior to the beginning of class and before the material is covered in lecture. **Be sure that you understand all diagrams and read captions under pictures.** It will be to your benefit to stay organized and don't get behind.
- The purpose of examinations is to determine how well students have mastered the material. There will be **five (5) unit exams** in addition to a final exam. The exams will cover the material presented in the lecture and via audio visual resources.
- ***All exams must be taken on the assigned date and at the assigned time.*** The other classroom assignments will include end of chapter review questions and problems.
- Quizzes will be given periodically to determine if the assigned reading is being done. **They are normally given at the beginning of class, and at the instructor's discretion.** These quizzes may be announced or unannounced. They will cover either material previously discussed or materials, which the students should have read. All quiz grades will be averaged and will equal a major exam grade. A quiz will be given approximately **ONCE** per week. Missed quizzes **CANNOT** be made up.
- Students will complete critical thinking exercises. Students will additionally participate in class discussions demonstrating knowledge learned from these exercises. Assignments **WILL NOT** be accepted after due date and a grade of **"0"** will be given for that assignment.
- Proctored Final Exam.

### **Frequently Asked Questions and Helpful Links**

<b>I need:</b>	<b>LINK</b>
D2L/BrightSpace Student Orientation	<a href="https://www.atlm.edu/downloads/advisement/Brochure%20-%20Student%20Orientation%20to%20Desire2Learn.pdf">https://www.atlm.edu/downloads/advisement/Brochure%20-%20Student%20Orientation%20to%20Desire2Learn.pdf</a>
For help with password and other technical support issues	<a href="https://d2lhelp.view.usg.edu/">https://d2lhelp.view.usg.edu/</a>
ADA Accommodations	<a href="https://www.atlm.edu/students/counseling-and-disability-services.aspx">https://www.atlm.edu/students/counseling-and-disability-services.aspx</a>
Academic Support and Advising	<a href="https://www.atlm.edu/academics/CAAS.aspx">https://www.atlm.edu/academics/CAAS.aspx</a>
To Make a Student Complaint	<a href="https://atlm-advocate.symplicity.com/public_report/index.php/pid810499?">https://atlm-advocate.symplicity.com/public_report/index.php/pid810499?</a>
To Make a Grade Appeal	<a href="https://www.atlm.edu/downloads/advisement/CAAS%20Grade%20Appeal%20Brochure.pdf">https://www.atlm.edu/downloads/advisement/CAAS%20Grade%20Appeal%20Brochure.pdf</a>

To Withdraw from a Course	<a href="https://www.atlm.edu/downloads/Registrars_Office_Forms/Withdrawal%20Form%202018.pdf">https://www.atlm.edu/downloads/Registrars_Office_Forms/Withdrawal%20Form%202018.pdf</a>
To Request a Hardship Withdrawal	<a href="https://www.atlm.edu/downloads/advisement/CAAS%20Hardship%20Withdrawal%20Application%20-%20June%202017.pdf">https://www.atlm.edu/downloads/advisement/CAAS%20Hardship%20Withdrawal%20Application%20-%20June%202017.pdf</a>
To Know the Campus Carry/HB 280 Policy	<a href="https://www.usg.edu/hb280/additional_information">https://www.usg.edu/hb280/additional_information</a>

	AI Resources	Students must indicate an AI resource in case it is applied or used for the assignments
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***Disclaimer:*** Information contained in this syllabus and schedule was, to the best knowledge of the instructor, considered correct and complete when distributed for use at the beginning of the semester. This syllabus should be considered only a guide for instructor and students, not a formal contract between Atlanta Metropolitan State College and any student. The instructor reserves the right, acting within the policies and procedures of AMSC, to make changes in course content or instructional techniques.