



Mathematical Thinking - Section Syllabus

MGF1130_D9135

Summer 2026, A-session

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Final Exam Date: exam window is 3 August through 5 August 2026

Last Date of Drop/Add: 14 May 2026

Last Date for Student to Withdraw: 13 July 2026

Course Description: In this course, students will utilize multiple means of problem solving through student-centered mathematical exploration. The course is designed to teach students to think more effectively and increase their problem solving ability through practical application and divergent thinking. This course is appropriate for students in a wide range of disciplines/programs. Please note: MGF1130 and MGF1131 are not sequential courses. Either one may be taken first without loss of continuity or comprehension.

Semester Hours: 3

Prerequisites: Placement at the college level or completion of the appropriate exit-level developmental course(s) with a grade of C or better.

Offered: FA, SU, SP

Distribution: Meets AA General Education Core, Natural Sciences requirement

Required Textbooks and Instructional Materials: Thinking Mathematically; Robert F. Blitzer; 9780138274917; 8th; Pearson; 2023

Supplemental Textbooks and Instructional Materials: scientific calculator

Special Requirements: There is a \$24.99 Lab Fee for Distance Learning courses and NO Lab Fee for Hybrid courses. Distance Learning and Hybrid Sections require a MyMathLab access code. Use of MyMathLab in face-to-face sections is at the discretion of the instructor. Contact your instructor to determine if MyMathLab is required. For sections NOT requiring MyMathLab the textbook listed is required.



Methods of Evaluation:

At minimum, the instructor will cover content which aligns with statewide and institutional learning outcomes for the course. The instructor will measure student performance using the following:

Grade calculation: Your final grade is based on your (1) 4 chapter tests, (2) homework, (3) On-Line Portfolio, (4) On-line projects, (5) midterm grade and (6) final exam grade.

Points break-down:	Downloaded tests	80 pts [20 pts. ea.]
	Homework	250 pts
	On-Line Projects	20 pts*
	On-Line Portfolio	50 pts**
	Mid-term	200 pts
	<u>Final exam</u>	<u>400 pts</u>
	Total	1000 pts

Grading Scale:

Table 1 Grading scale

900 – 1000 (90 – 100 %) A	880 – 899 (88 – 89 %) B+
800 – 879 (80 – 87 %) B	780 – 799 (78 – 79 %) C+
700 – 779 (70 – 77 %) C	680 – 699 (68 – 69 %) D+
600 – 679 (60 – 67 %) D	0 – 599 (0 – 59 %) F

*On-line Projects will be available to download in Canvas > Modules > Projects.

**Make sure you read over the pages posted in Canvas for clarification regarding your Portfolio.

Evaluation of student progress towards achieving the stated learning outcomes and performance objectives is the responsibility of the instructor, within the policies of the College and the department. Detailed explanations are included in the course supplementals developed by the instructor for each section being taught.



Student Expectations: (information that you provide/change/not provide)

Students enrolled in this course can expect the following:

1. clearly identified course objectives;
2. productive class meetings;
3. a positive learning environment;
4. opportunities for appropriate student participation;
5. effective instruction;
6. positive and appropriate interactions;
7. assistance with meeting course objectives during and beyond class hours;
8. evaluation of student performance and appropriate and timely feedback; and
9. clear and well-organized instruction.

General Education Student Learning Outcomes:

Critical Thinking: The student analyzes, evaluates, and, if necessary, challenges the validity of ideas, principles, or data in order to develop informed opinions, probable predictions, or defensible conclusions.

Scientific and Mathematical Literacy: The student properly identifies and applies scientific or mathematical principles and methods.

Information Literacy: The student effectively locates, evaluates, and applies information from a variety of sources.

Course Learning Outcomes:

1. Students will determine efficient means of solving a problem through investigation of multiple mathematical models.
2. Students will apply logic in contextual situations to formulate and determine the validity of logical statements using a variety of methods.
3. Students will apply mathematical concepts visually and contextually to represent, interpret and reason about geometric figures.
4. Students will recognize the characteristics of numbers and utilize numbers along with their operations appropriately in context.
5. Students will analyze and interpret representations of data to draw reasonable conclusions.



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<u>Date</u>	<u>Section</u>	
13 May – 1 Jun	Ch. 3.1 – 3.8 [Logic]	[closes 2359 hours (11:59pm) 1 Jun]
	Test 1 (3.1 – 3.8)	[available for print out from Canvas 28 May] [due NLT 2359 hours (11:59pm) on 3 Jun]
2 Jun - 15 Jun	Ch. 5.1 – 5.7 [Number Theory]	[closes 2359 hours (11:59pm) 15 Jun]
	Ch. 9.1 – 9.3 [Measurement]	[closes 2359 hours (11:59pm) 15 Jun]
	Test 2 (3.1 – 3.8, 9.1 – 9.3)	[available for print out from Canvas 11 Jun] [due NLT 2359 hours (11:59pm) 17 Jun]
16 Jun – 22 Jun	Study/prep for Mid Term Exam	[All Portfolio uploads for chapters 1, 2, 3, 9 due NLT 2359 hours (11:59pm) 22 Jun]
23 Jun – 25 Jun	Proctored Mid Term Exam taken via Proctorio or at a testing location (Ch. 3, 5, 9)	
26 Jun – 6 Jul	Ch. 10.1 – 10.7 [Geometry]	[closes 2359 hours (11:59pm) 6 Jul]
	Test 3 (10.1 – 10.7)	[available for print out from Canvas 2 Jul] [due NLT 2359 hours (11:59pm) 8 Jul]
7 Jul – 20 Jul	Ch. 11.1 – 11.8 [Counting Methods & Probability]	[closes 2359 hours (11:59pm) 20 Jul]
	Test 4 (11.1 – 11.8)	[available for print out from Canvas 16 Jul] [due NLT 2359 hours (11:59pm) 22 Jul]
21 Jul – 3 Aug	Ch. 12.1 – 12.5 [Statistics]	[closes 2359 hours (11:59pm) 3 Aug]

Portfolio FX uploads are due NLT 2359 hours (11:59pm) Monday 3 August 2026. Remember you may earn ½ credit back if you forgot parts of your Portfolio at the Mid Term Check ONLY. Second half is full credit.

Same as Mid Term. Remember you must take the Proctorio FX Practice quiz in advance of the Final Exam confirming you can access Proctorio and whether you are taking your exam via Proctorio or at the Test Center. Failure to notify me defaults to taking your exam at the Test Center. Out of Town students not choosing Proctorio - verify your proctor has been vetted & remember you are responsible for scheduling to take your exam. All final exams must be completed no later than 2359 hours (11:59pm) 5 August 2026.

3 Aug – 5 Aug Proctored Final Exam taken via Proctorio or at a testing location [Ch. 3, 5, 9 – 12]

NOTE: 14 May 2026 last day to drop w/refund
13 July 2026 last day to withdraw w/out refund



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Table 2 Required Statements

Academic Dishonesty Statement	Pensacola State College is committed to upholding the highest standards of academic conduct. All forms of academic dishonesty, to include plagiarism and cheating, are prohibited. Penalties for academic dishonesty include but are not limited to one or more of the following: the awarding of no credit on the assignment, a reduction in the course grade, or the assignment of a final course grade of F and removal from the course. See the College Catalog for more details: Academic Integrity
ADA Statement	Students with a disability that falls under the Americans Students with a disability that falls under the Americans with Disability Act Amendments Act of 2008 or Section 504 of the Rehabilitation Act should contact the Student Resource Center for ADA Services to discuss academic accommodations. Appropriate academic accommodations are determined on an individual basis with careful consideration of the course learning outcomes and the documentation of the disability. For more information, students should visit the Student Resource Center for ADA Services on the Pensacola campus in building 6, room 603; call 850-484-1637; email ADAservices@pensacolastate.edu ; or complete the online intake form in the ADA Services app within the MyPSC apps dashboard.
Emergency Statement	In the case of severe weather or other emergency, the College administration maintains communication with appropriate state and local agencies and makes a determination regarding the cancellation of classes. Notices of cancellation will be made through the College's PSC Alert system and on the College's website.
Flexibility Statement	It is the intention of the instructor to accomplish the objectives specified in the course syllabus. However, circumstances may arise which prohibit the fulfilling of this endeavor. Therefore, this syllabus is subject to change. When possible, students will be notified of any change in advance of its occurrence.
Nondiscrimination Statement	Pensacola State College does not discriminate against any person on the basis of race, color, ethnicity, religion, sex (as defined by applicable federal and state law), national origin, age, disability, genetic information, pregnancy, or marital status in its educational programs, activities, or employment. For inquiries regarding the College's nondiscrimination policies, contact the Civil Rights Compliance Officer at (850) 484-1759, Pensacola State College, 1000 College Blvd., Pensacola, Florida 32504.
Security Statement	Pensacola State College is committed to encouraging all members of the College community to be proactive in personal safety measures. In case of emergency, students should ensure that they are aware of the



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	building exit closest to each of their classrooms, as well as all alternative building exits in case circumstances require using a different route.
Student Email Statement	Pensacola State College provides an institutional email account to all students enrolled in courses for credit. PirateMail is the official method of communication, and students must use PirateMail when communicating with the College. In cases where companion software is used for a particular class, email may be exchanged between instructor and student using the companion software.