



Pensacola State College District Syllabus  
MGF 1130\_P1606  
Mathematical Thinking

**Instructor:** Jenica Harris

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**Semester Hours:** 3 credit hours

**Prerequisite(s):** None

**Corequisite(s):** None

**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.

**Semester Offered:** Fall, Spring, Summer.

**Course Designation:** Meets AA General Education Core, Mathematics requirement.

**General Education Core Course Standard:** Per Florida Statute 1007.25,  
"Mathematics courses must afford students a mastery of foundational mathematical and computation models and methods by applying such models and methods in problem solving."

**Textbook:** Thinking Mathematically; Robert F. Blitzer; 9780138274917; 8th; Pearson; 2023

**Supplemental 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.

**Course Learning Outcomes:**

1. Students will determine efficient means of solving a problem through the 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.

## Methods of Evaluation

Grading Scale:	Final Grade Calculation:	
A 90-100	36 Access Pearson Homework- unlimited attempts 10 pts each	360 pts
B 80-89	5 Unit Tests- 1 attempt 120 pts each	600 pts
C 70-79	1 Midterm Exam- 1 attempt	650 pts
D 60-69	1 Final Exam- 1 attempt	750 pts
F Below 60	<u>Practice Tests- 3 attempts and Discussions</u>	<u>40 pts</u>
	<b>Total</b>	<b>2400 pts</b>

## 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.

**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:

<https://catalog.pensacolastate.edu/content.php?catoid=2&navoid=47#academic-honesty>

**Student Email Accounts:** Pensacola State College provides an institutional email account to all students enrolled in courses for credit. This institutional email account is the official method of communication, and students must use this account 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.

**Flexibility:** 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.

**ADA Statement:** Students with a disability that qualifies under the American with Disabilities Act Amendments Act of 2008 (ADAAA) must self-identify with the Student Resource Center for ADA Services (SRC/ADA). Disabilities covered by the ADAAA may include learning, psychiatric, physical disabilities, or chronic health disorders. Students can contact SRC/ADA if they are not certain whether a medical condition/disability qualifies. SRC/ADA is located on the Pensacola campus in building 6, room 603, [ADA-services@pensacolastate.edu](mailto:ADA-services@pensacolastate.edu), 850-484-1637. Students may also complete the online intake form in the ADA Services app within the PSC apps dashboard.

**Equity Statement:** Pensacola State College does not discriminate against any person on the basis of race, ethnicity, national origin, color, gender/sex, age, religion, marital status, pregnancy, disability, sexual orientation, gender identity, or genetic information in its educational programs, activities, or employment. For inquiries regarding Title IX and the College's nondiscrimination policies, contact the Dean of Students 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 building exit closest to each of their classrooms, as well as all alternative building exits in case circumstances require using a different route.

**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.