



# NORTHWEST FLORIDA STATE COLLEGE

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## INSTRUCTOR INFORMATION

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- Professor: Allison Godwin
- Email: godwina6@nwfsc.edu
- Phone: 850-729-5219
- Office Hours: Mondays and Wednesdays from 12:30 – 3:00, Tuesday and Thursdays from 1:45 – 3:15, Mondays virtually from 7 – 9 PM
- Office Location: Niceville Campus, Building 500, Room 101B

## INSTRUCTOR COMMUNICATION

Your NWFSC email is the official communication medium of the College. Please check your College email regularly for any class and College notifications. The instructor will respond within 36 hours, Monday through Friday.

## COURSE INFORMATION

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- Course Subject and Number: MGF 1130
- Course Name and Number: Mathematical Thinking, CRN 20667
- Class Modality: Online
- Online Classroom with Gradebook: [Canvas class shell](#)
- Final Exam Due Thursday, May 7 at 11:59 PM CST

## COURSE DESCRIPTION

Through 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 vastly increase their problem-solving ability through practical application and divergent thinking. This course is appropriate for students in a wide range of disciplines/programs. This course fulfills the College-Level Communications and Computation Skills of computation requirement and must be completed with a grade of C or higher (pursuant to State Board of Education Rule 6a-10.030).

## COURSE GOALS

Students will learn how to apply mathematics in a wide variety of situations

## COURSE-LEVEL STUDENT LEARNING OUTCOMES

- Students will determine efficient means of solving a problem through investigation of multiple mathematical models.

- Students will apply logic in contextual situations to formulate and determine the validity of logical statements using a variety of methods.
- Students will apply mathematical concepts visually and contextually to represent, interpret and reason about geometric figures.
- Students will recognize the characteristics of numbers and utilize numbers along with their operations appropriately in context.
- Students will analyze and interpret representations of data to draw reasonable conclusions.

### **COURSE PREREQUISITES**

Students who are exempt from placement testing may enroll in this course with no prerequisites. Students who are NOT exempt from placement testing may meet the prerequisite through any one of the following: (1) 114 or higher on the math section of the PERT OR (2) successful completion of MAT 0022 or MAT 0028 with a grade of “C” or better or equivalent or higher mathematics course.

### **COURSE MATERIALS**

- The textbook for this course is a free online resource hosted through LibreTexts. Print options are available for purchase if students would like a physical copy of the text.
- Scientific calculator (TI 30X series is recommended)
- Binder

## **ASSIGNMENTS, GRADING SCHEME AND PROCEDURES**

### **Assignments**

The course is split into five modules: Number Theory, Problem Solving, Geometry, Set Theory, and Logic. Each module will have two homework assignments, one discussion board, one project, and one quiz. There will also be a cumulative final exam. Assignments will be due on Thursdays at 11:59 PM Central each week.

Generative Artificial Intelligence (AI) should NOT be used to complete assignments in this course. All work that is submitted must be original work. **Submitting work generated by AI will result in a zero on the assignment, with no option for a redo.**

<b>Assignment Category</b>	<b>Description</b>	<b>Percentage of Total Grade</b>
Homework Assignments	Students should read the assigned sections of the text, watch the accompanying videos, and take notes. Then they will complete a homework assignment to practice the skills learned in those sections. Students have unlimited attempts on homework questions.	15%
Discussions	Students will follow the prompt to write a discussion post about the topics from each module. They will have to reply to another student in their group. Detailed rubrics are available in Canvas.	15%

	There are also questions discussion boards in each module. Students must participate in those at least five times throughout the semester by either posting a question or by answering another student's question.	
Projects	Students will complete a project that allows for real world applications of the skills learned in the module. Detailed rubrics are available in Canvas. These will be completed on paper and then uploaded into Canvas as a PDF.	25%
Quizzes	Students will complete a 15-question quiz at the end of each module. Students have one attempt and 60 minutes to complete each quiz.	25%
Final Exam	The final exam is cumulative and will cover material from all five modules. Students have one attempt and 90 minutes to complete the final exam.	20%
<b>TOTAL</b>		<b>100%</b>

**Assignment Schedule: All assignments will be graded within one week of the due date.**

Date	Assignments Due
January 15	Syllabus Quiz Homework 1A
January 22	Optional Student Introduction Homework 1B Module 1 Discussion Post
January 29	Module 1 Discussion Reply Module 1 Project Module 1 Quiz
February 5	Homework 2A
February 12	Homework 2B Module 2 Discussion Post
February 19	Module 2 Discussion Reply Module 2 Project Module 2 Quiz
February 26	Homework 3A
March 5	Homework 3B Module 3 Discussion Post
March 12	Module 3 Discussion Reply Module 3 Project Module 3 Quiz
March 26	Homework 4A
April 2	Homework 4B Module 4 Discussion Post
April 9	Module 4 Discussion Reply Module 4 Project Module 4 Quiz
April 16	Homework 5A
April 23	Homework 5B Module 5 Discussion Post
April 30	Module 5 Discussion Reply Module 5 Project Module 5 Quiz
May 7	Final Exam

**Grading Scheme**

Grade	Range
A	90 – 100 %
B	80 – 89 %
C	70 – 79 %
D	60 – 69 %
F	59 and less %

## MAKE-UP WORK

Students have five 72-hour late passes to use throughout the semester. Late passes can be used on homework assignments, discussion posts, projects, or quizzes. Students may activate the late passes on homework assignments and quizzes through Canvas. Students must email the instructor if they wish to use a late pass on a project or discussion post.

Late work will no longer be accepted once the five late passes are used. Any unused late passes at the end of the semester will be added as extra credit points on the final exam.

**Work will not be accepted more than one week past the original due date unless there is a serious illness, injury, or family emergency. If one of these situations arises, make sure to contact the instructor as soon as possible.**

## STUDENT EXPECTATIONS AND RESOURCES

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NWFSC aims for excellence in education and scholarly pursuits. Campus policies and procedures support this goal by protecting the health, safety, welfare, and property of the College and its students. To view all campus policies, please see the [college catalog](#). Several essential policies are provided below with the corresponding link to the full policy for your review.

NWFSC POLICY	DESCRIPTION
<a href="#">Academic Integrity</a>	<p>Students are expected to behave responsibly as members of the College community and be honest and forthright in their academic endeavors. This includes the use of generative AI tools. Using genAI in any form to substantially complete an assessment is prohibited, except where explicitly allowed by the instructor.</p> <p>Any time the instructor suspects there is a violation of Academic Integrity or there is a reported Academic Integrity Incident, the instructor is required to investigate it as outlined in the Academic Integrity section of the handbook (linked to the left). The instructor will provide information to the student about the procedure, the complaint, the findings, and any consequence imposed.</p> <p>Students are also expected to behave professionally and refrain from disrupting other students' learning environments.</p>
<a href="#">Accommodations</a>	<p>The <a href="#">Accommodation Resource Center</a> at Northwest Florida State College is committed to providing equal access and opportunities for educational success to all students with disabilities as guided by the American Disabilities Act and other disability-related laws.</p>
<a href="#">Attendance</a>	<p>Regular attendance and participation in the course is expected. All students should adhere to the College calendar. For dual enrolled students, high school holidays may not be College holidays.</p>
<a href="#">Tutoring Services</a>	<p>Tutoring services are available in person and online.</p>

<a href="#"><u>Counseling Services</u></a>	All actively enrolled students can receive an initial assessment and up to five therapeutic sessions with a Behavioral Health provider at no cost to the student.
<a href="#"><u>Student Code of Conduct</u></a>	Students are expected to adhere to the rules, regulations, and policies outlined in the Student Code of Conduct.
<a href="#"><u>Student Complaints</u></a>	NWFSC desires to resolve student grievances, complaints, and concerns expeditiously, fairly, and in an amicable manner. A student who desires to resolve a grievance may initiate the resolution process using the information in the link provided to the left.
<a href="#"><u>Student Rights and Responsibilities</u></a>	All students should review the Student Rights and Responsibilities section of the Student Handbook to understand their role as a student.

## OTHER IMPORTANT INFORMATION

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### TECHNICAL SKILLS AND SPECIALIZED TECHNOLOGY FOR ONLINE COURSES

This course is entirely online. Students must provide their device(s) to access and complete this class online. In addition to baseline word processing skills and sending/receiving emails with attachments, students will be expected to search the Internet and upload/download files. If you encounter technology challenges using course resources in the Learning Management System, email the Center for Innovative Teaching and Learning at [online@nwfsc.edu](mailto:online@nwfsc.edu) or call 850-729-6464.

### EMERGENCY COLLEGE CLOSURE

This course's schedule, requirements, and procedures are subject to change in the event of unusual or extraordinary circumstances. If the College closes for inclement weather or another emergency, any exams, presentations, or assignments previously scheduled during the closure period will automatically be rescheduled for the first regular class meeting held once the college reopens. If changes to graded activities are required, students will not be penalized due to the adjustments but will be responsible for meeting revised deadlines and course requirements.

### ACADEMIC CONTINUITY PLAN

NWFSC is dedicated to protecting the health and well-being of its students, staff, and faculty. The College is dedicated to working with faculty and students to ensure timely course and program completion during emergencies. In the event of a College closure, the format of this course may be modified to enable completion of the course through other means, including but not limited to online course delivery through online classrooms. Check your RaiderNet College email and LMS classroom online for any updates.

### WELCOME TO CLASS

Thank you for choosing NWFSC for your education—and welcome to class! I'm looking forward to working with you this semester!