

Math 10, Nature of Math

Section 8059, Summer 2021

Course Description

A survey course in mathematical concepts and mathematics in culture. Topics to include mathematical reasoning and four additional topics selected from number theory, probability, statistics, mathematical modeling, contemporary applications, geometry, and the history of mathematics.

Prerequisites/Corequisites

Completion of MATH 161 or MATH 154 or MATH 156 or MATH 155 or AB705 placement into [Math Tier 1 or higher](#).

Course Outline and Student Learning Outcomes

A course outline and student learning outcomes (SLOs) for Math 10 can be found at the following URL:

[Math 10 Course Outline](#)

Course Modality and General Expectations

This course is synchronous. You are expected to participate in Zoom Meetings during each regularly scheduled class time. You need a strong and stable internet connection. You should be able to participate in Zoom meetings, view content in Canvas, and work in the online homework environment all at the same time.

Instructor Contact

- **Instructor:** Chad Griffith
- **Office Hours by email:** MTWTh 3:10 – 4:00 PM (or by appointment)
- **Email:** cgriffith@santarosa.edu
- **Class Location:** Online through Zoom Meetings
- **Class Times:** MTWTh 1:00 – 3:10 PM

Required Materials

Textbook:

- Viewing Life Mathematically with Hawkes Learning Courseware
 - Hawkes Learning Courseware is required. Details for purchasing are in module zero.
 - *Viewing Life Mathematically: A Pathway to Quantitative Literacy* by Kim Denley and Mike Hall. By purchasing Hawkes Learning Courseware, you automatically get a copy of the e-textbook.

Required Technology:

- A computer with an internet connection is required:
 - You need to participate in Zoom room class sessions during regularly scheduled class time.
 - You need to access the Canvas course shell regularly.
 - You need to be able to work with the Hawkes Learning online environment.
- A scientific calculator or scientific calculator App is required. In this class I will demonstrate ClassCalc.
 - [ClassCalc](#) is free online calculator software that can be used through an internet browser or the app can be installed on your phone.
- Scanner App is required. Each assignment requires you to upload written work as **one single .pdf file that is small in size (less than 2 MB)**.
 - There are free apps for your phone that let you scan multiple-page documents as a single pdf file. Here are links to a few options:
 - iphone:
 - [genius scan](#)
 - [adobe scan](#)
 - android:
 - [adobe scan](#)
 - [clear scan](#)

Homework

Each class you will be assigned lecture videos to watch. You are to take notes of these videos. Your notes should include any definitions and examples covered in the video. You will scan your notes and upload them to that lecture video assignment page. Your collection of lecture video notes will be worth 8% of your total grade.

Problem Sets

Each class we will focus on exercises assigned from the Hawkes Learning environment. You will be assigned several problems in class to work on each day. To receive full-credit for that day's problem sets, all supporting work you created to solve those problems will be scanned and uploaded to that day's Canvas assignment page. Your problem sets are worth 17% of your total final grade.

Exams

Weekly Exams

There will be an exam given at the end of each week that covers the material covered in class that week. Your two lowest exam grades will be dropped, and your four best exam scores will combine to make your midterm exam average. Each of the four weekly exams will be worth 15% of your grade. Each weekly exam occurs on Thursday.

Final Exam

The final exam is scheduled for Tuesday July 27. The final exam is worth 15% of your grade.

Grading Policy

Student grades are based on performance in each of the categories shown in the table below. At the end of the semester, a final score is determined by weighting the category scores with the percentages given.

<u>Category</u>	<u>Percentage of Semester Grade</u>
Video Lecture Notes	8%
Problem Sets	17%
Midterm Average	60% (15% for each weekly exam)
Final Exam	15%

The final semester score is then converted to a letter grade for the semester using this scale.

A: 90 or better

B: 80 – 89

C: 70 – 79

D: 60 – 69

F: less than 60

Credit/Non-credit students need a minimum C grade (70) for credit.

Getting Help

Free tutoring services are available at the [SRJC Tutorial Center](#) and the [Math Tutoring Lab](#). I am available during office hours which will occur through Zoom Meetings, so drop into my Zoom office hours if you have math questions or need help with other problems related to this course.

Attendance Policy and Drops:

Sonoma County Junior College District attendance policy is as follows. *Students are expected to attend all sessions of the course in which they are enrolled. Any student may be dropped from any class when that student's absences exceed ten percent (10%) of the total hours of class time.*

If you decide to discontinue this course, it is your responsibility to officially drop it. Do not assume the instructor will drop you automatically.

Standards of Conduct

Students who register in SRJC classes are required to abide by the SRJC Student Conduct Standards. Violation of the Standards is basis for referral to the Vice President of Student Services or dismissal from class or from the College. See the [Student Code of Conduct](#).

Tentative Course Schedule

Course Schedule

WEEK	TOPIC
Week 1	Introduction to Class
Week 2	Set Theory
Week 3	Logic
Week 4	Mathematical Modeling
Week 5	Fourth of July Observed (No Class)
Week 6	Monday July 5)
Week 7	Geometry
Week 8	Probability
Week 9	Statistics
Week 10	Review
Week 11	Final Exam Tuesday July 27