

**Syllabus**  
Quantitative Literacy  
MA 101 WEB Course (4 Credits)

**Term:** Fall 2024 WEB

**Instructor:** Mrs. Addie Goymerac (Mrs. G)

**E-Mail:** agoymera@nmu.edu

**Office Hours: Jamrich 2236 Monday and Wednesday from 11-11:50.** Times by appointment as well. We can meet via Zoom as needed!

**Optional Textbook:** David Lippman, Math in Society, 2.5e Electronic version available for free: [opentextbookstore.com/mathinsociety](https://opentextbookstore.com/mathinsociety)

Websites for this class:

- Educat: [educat.nmu.edu](https://educat.nmu.edu)
- My Open Math: [myopenmath.com](https://myopenmath.com) (this is a free program!)
  - **Course name:** MA101 Fall 2024 WEB
  - The course ID: **238459**
  - The enrollment key: **mathisawesome**

**Course Description:** This interdisciplinary course covers a range of mathematical concepts and techniques that will be useful for informed citizens in our information-laden society. The primary focus will be on preparing students to use quantitative reasoning in a principled manner when identifying, formulating, and solving real-world problems.

### Learning Outcomes

- Recognize, use, and apply mathematical thinking to solve problems that are part of everyday life such as:
  - Consumption and finance: borrowing, taxation, personal finance
  - Art and nature: Fibonacci sequence, golden ratio, geometric transformations
  - Statistics and probability: numerically and graphically summarizing data, measures of central tendency, measuring uncertainty and basic probability
  - Graph theory: Euler paths and Hamiltonian circuits, Traveling Salesperson Problem, networks, and scheduling
- Interpretation: Explain information presented in mathematical forms (e.g., equations, graphs, diagrams, tables, words).
- Representation: Convert relevant information into various mathematical forms (e.g., equations, graphs, diagrams, tables, words).
- Calculation: Identify and perform appropriate calculations and communicate results.
- Application / Analysis: Make judgments and draw appropriate conclusions based on the quantitative analysis of data, while recognizing the limits of this analysis.
- Communication: Express quantitative evidence in support of the argument or purpose of the work (in terms

### Learning Activities

#### Learner-Instructor Interaction

- Multiple projects are submitted by students for instructor feedback. Students will interact through this back and forth feedback with instructor (via EduCat and email) and resubmission of projects.
- Multiple asynchronous discussion board exchanges on varying course topics.

- Weekly Key Questions are submitted by students for instructor feedback via EduCat.
- General Discussion Forum is pinned to the top of the course. Students post general questions and instructor responds.
- Students submit homework in online program and instructor gives feedback on problems missed.

### **Learner-Learner Interaction**

- Multiple asynchronous discussion board exchanges on varying course topics. Students are required to post a general comment and required a minimum of 1 response to a fellow classmate on each topic.
- Students do required peer reviews of classmate projects throughout the course. After the review, students must comment and explain their review on 4 fellow classmate's projects, which are posted on the students' blogs.
- Students do some projects in small groups and interact via google docs, google slides, EduCat discussion forums, email, etc.

### **Learner-Content Interaction**

- Students submit homework in online program outside of EduCat.
- Students submit projects and assignments via EduCat.
- Students construct a class blog on Wordpress.com and post projects there as well.
- Students watch outside videos linked in EduCat for group discussions.
- Students complete multiple asynchronous discussion board exchanges in EduCat.
- Students do research for projects and discussions via the internet.
- Students complete peer feedback via Google Docs.

**Prerequisites:** B- grade or better in **MA080** or satisfactory score on math placement exam.

**Technical skills:** Student must be able to navigate websites including Educat, and [www.myopenmath.com](http://www.myopenmath.com). They must use and check their **@nmu.edu** email daily. They must know how to use a scanner to scan a multiple page document into one PDF and post this document into Educat. CamScanner is an app for smartphones. The "Notes" app on an iPhone can easily scan as well. The library on campus has a great scanner.

**Technology requirements:** Computer with internet access, access to scanner (phone apps sufficient), scientific calculator (the one on your school laptop works great for this class). Does not have to be a graphing calculator.

**Grades:** Grades are based on the following scale

93-100%	A	80-83%	B-	67-69%	D+
90-92%	A-	77-79%	C+	64-66%	D
87-89%	B+	74-76%	C	60-63%	D-
84-86%	B	70-73%	C-	0-59%	F

Your grade has the following components:

Participation/Key Questions:	10%
MyOpenMath Homework:	40%
Projects:	40%
Final Exam:	10%

Units will involve some or all of the following: online homework, Key Questions, forum discussions, as well as inquiry-based projects that are designed to authentically explore the subject matter of each unit.

**Communication with classmates and teacher:**

- Use the “General Discussion Forum” in EduCat to communicate with the class.
- Always remember to use professional language, spelling, and punctuation within electronic communications. No abbreviations or sarcasm. When communicating electronically, people cannot necessarily interpret sarcasm and may not know abbreviations/acronyms.
- Always use respect when discussing matters that may have varying opinions/viewpoints (both electronically and face-to-face). You may not always agree with someone else’s point of view, and differing opinions are useful in promoting productive discussions. However, just because you may not agree with someone else’s opinion, that is no excuse to be rude or disrespectful.
- Communication via e-mail must be done through your NMU address. The teacher will not respond to communication sent from any other e-mail addresses. Please remember that you should address me in a professional manner (i.e. Mrs. Goymerac or Mrs. G) and sign using your full name. Please also include the class time that you are in in the subject line, as I teach multiple sections and it is easier for me to access your information.

**Late Policy:** All assignments will earn 0 if not done by the due date. Email me if there are extenuating circumstances that affect your academic performance.

**Disability needs:** If you have a need for disability-related accommodations or services, please inform the Coordinators of Disability Services in the Dean of Students Office at 2001 C. B. Hedgcock Building (906-227-1737 or [disability@nmu.edu](mailto:disability@nmu.edu)). Reasonable and effective accommodations and services will be provided to students if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state, and university guidelines.

**Academic Integrity:** Students are expected to do their own work and follow the university academic honesty policy. This policy can be found in the student handbook. See link here: <http://www.nmu.edu/dso/studenthandbook>

**Important dates:**

**Drop:** Last day to drop a class with no course record and 100% refund is Tues., September 3 by 5 pm. Drop procedure: <http://www.nmu.edu/records/adddropprocedure>

**Withdrawals:** Last day for course withdrawal is December 6 by 5 pm. I recommend withdrawal for any student earning below 60% later in the course. A W grade and an F grade have the same effect on your full time status and may affect your financial aid. The difference is that an F grade hurts your GPA, but a W grade does not. It always benefits you to get a W, instead of an F.

**Random links I am required to share with you:**

Privacy Statement and Accessibility for www.zoom.us <https://zoom.us/privacy>,  
<https://zoom.us/accessibility>

Student Handbook: <https://www.nmu.edu/dso/studenthandbook>

Health Center <http://webb.nmu.edu/HealthCenter/>

Online Student Services <http://www.nmu.edu/online/>

Computer Help Desk (IT) <http://it.nmu.edu/helpdesk>

Disability Services <http://www.nmu.edu/disabilityservices/home-page>

Veterans Services <http://www.nmu.edu/veterans/veteran-student-services>

Dean of Students <http://www.nmu.edu/dso/home-page>

Olson Library <http://library.nmu.edu/>

Counseling Center <http://www.nmu.edu/counselingandconsultation/home-page>

Writing Center <http://www.nmu.edu/writingcenter/home-page>

Financial Aid <http://www.nmu.edu/financialaid/home>

Everything else offered on this website: <http://www.nmu.edu/students>