



Stony Brook University

MAT517 – Technology in Math Education
Hybrid Syllabus
Spring 2022

Part 1: Course Overview

Course Information

Credit hours: 3

Course Meeting Time

Mondays and Wednesdays 2:40-4:20pm

Prerequisites: none

Required Course Textbook: none

Course Description

This course covers online graphing tools, creating documents using mathematical notation, creating a webpage, educational videos, lecture slides and working with grading applications.

Course Delivery Mode and Structure

This will be a **hybrid** course. All assignments will utilize internet technologies. All our **Wednesday** meetings will be over Zoom and selected **Monday** meetings will be as well. [See “Technical Requirements” section for more information.] Relevant course materials and resources will be posted on Blackboard.

Assignments

See [Assessment and Grading](#) section below and Curriculum for more information. Expect to spend at least 3 hours/week on average working on course work outside of the classroom. Note: the amount of homework assigned will not be consistent from week to week.

Presentation

Much more information will be given in the coming weeks on this 20-minute presentation, done at the end of the semester, geared towards a secondary or collegiate classroom.

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Instructor Information

Instructor name: Deb Wertz Krieg

Instructor's Stony Brook email: debra.krieg@stonybrook.edu

Instructor's phone number: n/a

Instructor's time zone: Eastern Standard Time

Q&A Sessions/Zoom Personal Meeting Room

[click here for Prof Wertz Krieg's contact card](#)

Every week office hours are held for you to ask about material, assignments and/or general course questions. Click on link(s) above to find time slots as well as the Zoom link(s). No appointment necessary. If you are unavailable during the scheduled times, send an email to request meeting at a different time.

How We Will Communicate

Regular, professional and respectful communication is essential in online classes. Review the [Online Communication Guidelines](#) carefully and contact me with any questions you may have.

To make sure you are receiving all communication in this course:

- Log into Blackboard once a day, check announcements.
- Regular announcements will be posted in Blackboard: most (not all) are also sent to your SB email.
- For personal/private issues, email me directly. If you use Blackboard's **email tool** from the course site, it will automatically include your full name, course name and section when you send me an email. **Please allow between 24-48 hours for an email reply** although I generally reply within 6 hours.
- Your Stony Brook University email must be used for all University-related communications. All instructor correspondence will be sent to your SBU email account. **Plan on checking your SBU email account regularly for course-related messages.** To log in to Stony Brook Google Mail, go to <http://www.stonybrook.edu/mycloud> and sign in with your NetID and password.

How to Succeed in this Course

Keep track of all due dates and plan ahead.

There are multiple university offices and help desks that are available to assist you with everything from advising, tutoring, accessibility, online-specific support and much more.

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Part 2: Grading, Attendance and Late Work Policies

Assessment and Grading

In this course, your letter grade will be assessed based on the following weights:

Activity/Assignment	Percentage
Assignments	45%
Presentation	40%
Discussion and Participation	15%

Letter Grades: Course grades are determined based on the breakdown of the class's weighted average (see weights above) and your mastery of the material. There are no predetermined cutoffs for course grades. Grades are decided based on performance not a bell-shaped curve. For example, there is not a limit on the number of A's given.

Collaboration:

Students are encouraged to work together and use resources outside the classroom appropriately. But copying without attribution is plagiarism and will not be tolerated, and will be reported immediately for [academic dishonesty](#) (see below).

Part 3: Course Schedule

Curriculum will be regularly updated to show the pacing of topic introduction as well as project due dates, meeting place (in-person or Zoom) and University deadlines. The Curriculum is posted on Blackboard under Resources.

Topics to be covered will be selected from the following list:

- using graphing calculator tools
- developing webpage
- slide creation and presentation
- video creating, editing, posting
- teaching synchronously online
- using grading software
- creating documents that contains mathematical notation
- getting the most from online homework platforms

Unforeseen events will make schedule changes necessary. Any changes will be clearly noted on the Curriculum plus you will be notified via your SB email address through Blackboard Announcements.

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Part 4: Technical Requirements

Having a reliable computer and Internet connection throughout the semester is expected especially in technology related course. **Caution!** You will be at a disadvantage if you attempt to complete all coursework on a smartphone or tablet. It may not be possible to submit the required files.

Blackboard doesn't always function properly in the Safari browser and the app doesn't have all the functionality that you'll find using a laptop, desktop, etc.

If you need to borrow a device, please visit [SBU's Laptop Loan Program](#).

Technical Assistance:

If you need technical assistance at any time during the course or to report a problem with Blackboard you can:

- Phone: 631-632-9800 M-F 9:00-5:00 (device support, Wi-Fi, software, hardware, logins)
- Submit a help request ticket: <https://it.stonybrook.edu/services/itsm>
- Email blackboard@stonybrook.edu

Part 5: Course Learning Objectives

Upon completion of this course, students will be able to:

1. Use LaTeX to create documents containing mathematical notation.
2. Utilize online calculator platforms as learning tools in the classroom.
3. Develop a webpage for posting CV, links, data, etc.
4. Use presentation software both in the classroom and for creation of learning resources.
5. Create video learning resources.
6. Develop learning resources as well as provide statistical data via charts and tables using spreadsheets.

QPS Learning Objectives:

1. Interpret and draw inferences from mathematical models such as formulas, graphs, tables, or schematics.
2. Represent mathematical information symbolically, visually, numerically, and verbally.
3. Employ quantitative methods such as algebra, geometry, calculus, or statistics to solve problems.

Attendance Policy

You are expected to attend every class and submit major graded coursework as scheduled. If you are unable to attend class(es) and/or complete major graded coursework as scheduled due to extenuating circumstances, contact me as soon as possible. You may be requested to provide documentation to support your absence and/or may be referred to the Student Support Team for assistance. Students will be provided reasonable accommodations for missed assignments or projects due to significant illness, tragedy or other personal emergencies. Please note, all students must follow Stony Brook, local, state and Centers for Disease Control and Prevention (CDC) guidelines to reduce the risk of transmission of COVID. For questions or more information [click here](#).

Part 6: University and Course Policies

University Policies

Student Accessibility Support Center Statement

If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact the Student Accessibility Support Center, Stony Brook Inion Suite 107, (631) 632-6748, or at sasc@stonybrook.edu. They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential.

Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and the Student Accessibility Support Center. For procedures and information go to the following website: <https://ehs.stonybrook.edu/programs/fire-safety/emergency-evacuation/evacuation-guide-people-physical-disabilities> and search Fire Safety and Evacuation and Disabilities.

Academic Integrity Statement

You must pursue your academic goals honestly, honorably and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Looking for solutions using a browser during the exam is wrong as well. *In doing these things, you risk losing scholarships, financial aid and the ability to graduate with honors.*

Note: when it appears that collaboration between students has occurred, **both** students will be reported.

Faculty is required to report any suspected instances of academic dishonesty to the Academic Judiciary.

For more comprehensive information on academic integrity, including categories of academic dishonesty please refer to the academic judiciary website at http://www.stonybrook.edu/commcms/academic_integrity/index.html

Important Note: Any form of academic dishonesty, including cheating and plagiarism, will be reported to the Academic Judiciary.

Critical Incident Management

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of University Community Standards any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures. Further information about most academic matters can be found in the Undergraduate Bulletin, the Undergraduate Class Schedule, and the Faculty-Employee Handbook.

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Course Policies

Understand When You May Drop This Course:

If you need to drop or withdraw from the course, it is your responsibility to be aware of the tuition liability deadlines listed on the registrar's [Academic Calendar](#). Before making the decision to drop/withdraw you may want to [contact me or] refer to the University's policies:

- [Undergraduate Course Load and Course Withdrawal Policy](#)
- [Graduate Course Changes Policy](#)

Incomplete Policy:

Under emergency/special circumstances, students may petition for an incomplete grade. Circumstances must be documented and significant enough to merit an incomplete. If you need to request an incomplete for this course, contact me for approval as far in advance as possible. You should also read the University's policies that apply to you:

[Undergraduate Bulletin](#)

[Graduate Bulletin](#)

Course Materials and Copyright Statement:

Course material accessed from Blackboard, Zoom, Echo 360, VoiceThread, etc. is for the exclusive use of students who are currently enrolled in the course. Content from these systems cannot be reused or distributed without written permission of the instructor and/or the copyright holder. Duplication of materials protected by copyright, without permission of the copyright holder is a violation of the Federal copyright law, as well as a violation of Stony Brook's Academic Integrity.