

## **MATH 1B** – MP1 Calculus (5 Units)

Online (Canvas) CRN: 27675

Instructor: Nahrin Rashid

Email: [rashidnahrin@fhda.edu](mailto:rashidnahrin@fhda.edu) or Canvas Inbox

Weekly in-person meetings: Monday & Wednesday 11:00 AM – 1:15 PM Room S41

Weekly online meetings: Tuesday & Thursday 11:00 AM – 1:15 PM via Zoom

Office hours via Zoom: Monday 4:45 PM to 8:00 PM or by appointment

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**Meet MPS Counselor/Coordinator:** Melissa Maturino

Email: [maturinomelissa@fhda.edu](mailto:maturinomelissa@fhda.edu)

Google Voice Number: 408.982.7307

Office: S56A |Office Phone: 408.864.8249

Melissa will be joining our class every Monday and Wednesday from 11:00 AM – 12:00 PM to answer any counseling questions that you may have.

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**Tutoring Services:** Do not wait to get extra help. Contact me or tutoring to get help!

The MPS Tutoring Services will offer online (Zoom) and in-person tutoring in Fall 2023. Please see our hours below:

Location: MPS In-person tutoring in the MESA Center – Room S54.

Hours: Tutoring is offered Monday-Thursday, 10:45 a.m.-2:30 p.m.

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**How to reach out:** If you have a question, the quickest and easiest way to contact me is via the Canvas inbox or email me [rashidnahrin@fhda.edu](mailto:rashidnahrin@fhda.edu). If you email me during my online office hours, I'll try to respond immediately. If you email me outside of my office hours, then I'll try to respond to you within 48 hours. From our course, click on "Inbox" in the left global navigation menu to access your Canvas conversations.

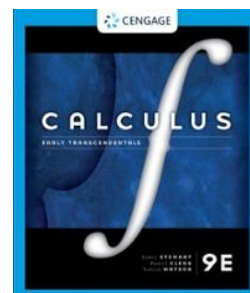
**Prerequisite:** MATH 1A or MATH 1AH

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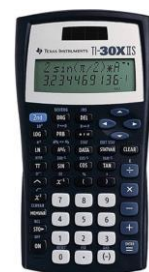
**Course Description:** This course examines the fundamentals of integral calculus.

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**Textbook:** *Calculus Early Transcendentals*; 9<sup>th</sup> edition, by James Stewart, bundle with Webassign access code. The eBook with WebAssign can be purchased for \$60 directly from Cengage.



**Calculator:** A basic scientific calculator is required for this class such as Texas Instruments TI30XIIS Scientific Calculator. TI-83 Plus/TI-84 Plus calculator recommended but not allowed on Exams. This can be a physical or an online app, such as the one at <https://www.desmos.com/scientific>.



**Software:** All homework/quizzes will be done online using WebAssign which is an internet-based software. You will need to register at [www.webassign.net](http://www.webassign.net) to use this internet-based software. You will need the class key given by me in order to self-register. **Class key for WebAssign: deanza 5435 6109**

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**Student Conduct:** You are expected to be honest and ethical at all times in the pursuit of academic goals. When completing your work on an assignment or in taking a test, be sure to do your own work. Copying or using another person's work is plagiarism or cheating, so please be sure to submit your own work. Anyone caught cheating on an exam will receive an automatic 0 and be reported to the Dean of the PSME Division.

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**Discussion on Canvas:** Even though this is an online class, you are expected to participate. Post and answer questions in Canvas weekly discussion boards. These discussions will count for 5% of your grade.

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**Homework:** Plan to log in to WebAssign daily. Homework will be assigned a few times a week and will have a due date. All homework must be submitted by 10:00 AM on the due date. You must set up an account by Friday, September 29 or you will be dropped from the class. If you have a homework problem you are not able to complete, you can send me your questions on WebAssign by clicking on “Ask my Instructor” or ask me during office hours. At the end of the quarter your lowest homework score will be dropped. Homework will count for 15% of your term grade. Please do not procrastinate! You can request extension on the homework up to five times during the quarter. **Class key for WebAssign: deanza 5435 6109**

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**Quizzes:** There will be a quiz every week via WebAssign assigned intermittently throughout the term to test your skills on the concepts we are covering in class and online. Once you start the quiz, you will have 1 hour to complete it, and you will get two attempts on each quiz. **NO** make-up quiz will be given. These quizzes will count for 20% of your grade.

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**Midterms:** There will be four proctored exams during the quarter in-person on WebAssign. Each exam will have two parts: on WebAssign and a handwritten portion which will be in-person. Once you start the WebAssign portion of the exam, you will have 2 hours to complete it. These exams will be completed online and will contain the materials covered in the lectures, online, and in the book. If you are unable to take an exam for any reason, **a makeup exam will not be given.** To compensate for this, I will drop your lowest exam score. These exams will count for 40% of your term grade.

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**Final Examination:** If you do not take the final exam, you **WILL NOT** receive a passing grade. There will be a comprehensive final examination on **Monday, December 11 11:30 AM to 1:30 PM.** This test will count for 20% of your term grade.

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**Accessibility Accommodations:** If you have a documented disability and wish to discuss academic accommodations, or if you would need assistance in the event of an emergency evacuation, please inform me as soon as possible.

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### **Important Dates**

- The last day to add classes is Saturday, October 7.
- The last day to drop for a full refund and without a “W” is Sunday, October 8.
- Veterans Day holiday – no classes; offices closed is Friday, November 10
- The last day to drop classes with a “W” is Friday, November 17.
- Thanksgiving holiday – no classes; offices closed, November 23-26
- Last day to request “Pass/No Pass” is the last day the class meets for the term.
- Final Exam Week – December 11-15.

### **Grade Breakdown**

<b>A+: 99% and above</b>	<b>B+: 87 - 89%</b>	<b>C+: 77 - 79%</b>	<b>D: 63 - 66%</b>
<b>A: 93 - 98%</b>	<b>B: 83 - 86%</b>	<b>C: 70 - 76%</b>	<b>D-: 60 - 62%</b>
<b>A-: 90 - 92%</b>	<b>B-: 80 - 82%</b>	<b>D+: 67 - 69%</b>	<b>F: &lt; 60%</b>

### Tentative Schedule for Math 1B, Fall 2023

<b>Week 1</b>	<b>Section 5.1, Section 5.2</b>
<b>Week 2</b>	<b>Section 5.3, Section 5.4, Section 5.5</b>
<b>Week 3</b>	<b>Section 6.1, Section 6.2</b> <b>Exam 1: Wednesday, October 11 (Section 5.1 – 5.5)</b>
<b>Week 4</b>	<b>Section 6.3, Section 6.4*, Section 6.5*</b>
<b>Week 5</b>	<b>Section 7.1, Section 7.2</b>
<b>Week 6</b>	<b>Section 7.3, Section 7.4</b> <b>Exam 2: Monday, October 30 (Section 6.1 – 6.5) PSME computer lab 44</b>
<b>Week 7</b>	<b>Section 7.5, Section 7.6, Section 7.7</b>
<b>Week 8</b>	<b>Section 7.8, Section 8.1</b> <b>Exam 3: Wednesday, November 15 (Section 7.1 – 7.5) PSME computer lab 48</b>
<b>Week 9</b>	<b>Section 8.5*, Section 9.1</b>
<b>Week 10</b>	<b>Section 9.2, Section 9.3</b>
<b>Week 11</b>	<b>Section 10.2*</b> <b>Exam 4: Monday, December 4 (Section 7.6 - 7.8 &amp; 8.1, 8.5) PSME computer lab 44</b>
<b>Week 12</b>	<b>Finals Week</b> <b>Final Exam: Monday, December 11 11:30 to 1:30 (Comprehensive) PSME computer lab 44</b>

*This syllabus is subject to change at the instructor's discretion.*

Section 6.4\* Select one or more applications to Physics from this section.

Section 6.5\* Select one or more applications to Mathematics from this section.

Section 8.5\* Select one or more applications to other areas from this section.

Section 9.4\* Natural growth is required, logistics growth is optional.

Section 10.2\* Integration including area and arc length required, differentiation is covered in Math 1A

**Student Learning Outcome(s):**

- Analyze the definite integral from a graphical, numerical, analytical, and verbal approach, using correct notation and mathematical precision.
- Formulate and use the Fundamental Theorem of Calculus.
- Apply the definite integral in solving problems in analytical geometry and the sciences.

**Office Hours:**

M      04:45 PM      08:00 PM      Zoom