# Math1D  Calculus IV
## Winter 2025, Section 31, CRN 38473

## INSTRUCTOR INFORMATION

| | |
|---|---|
| Instructor | MISAKO VAN DER POEL |
| Email | **van_der_poelmisako@fhda.edu**<br>Please following the format of the subject line stated below.<br>**"Math 1D-31: _____"**<br>You write your inquiry after the colon. |
| Class Hour | **Tuesday & Thursday: 4:00pm–6:15pm at E33** |
| Office Hours | Monday - Thursday: 6:15pm–6:40pm at E33 |

You are expected to attend all classes.
You are expected to check our Canvas page to see announcements and week module regularly.

---

For this course, **all you need to do is**:

1. **Attending** all classes.

2. Using **Study Sheets** posted in **Canvas**:

3. Completing **Homework assignments** in **MyOpenMath.**

4. Taking **Quizzes** in **Canvas**.

5. Taking **Midterms** and **Final Exam** in class.

---

## PREREQUISITES
Math 1C (with a grade of C or better) or equivalent. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as Second Language 272 and 273

## MATERIALS
- (Free) Textbook: Calculus Vol III Opensax:
  https://openstax.org/details/books/calculus-volume-3
  (Calculus: Early Transcendentals, by James Stewart, Thomson/Brooks/Cole, 9th. Ed(**Optional**)
- Use of **MyOpenMath** (Free) **is required** to complete homework assignments.

## CALCULATORS
The TI-83, TI-83 plus, TI-84, or TI-84 plus are recommended for the students.
Download:  TI-SmartView™ Emulator Software for the TI-84 Plus Family
https://education.ti.com/en/software/details/en/FFEA90EE7F9B4C24A6EC427622C77D09/sda-ti-smartview-ti-84-plus
**TI Emulator Apps**  For iPhone: GraphNCalc83 (free)      For Android: Wabbit EMU (free)
Free online graphing tool such as https://www.desmos.com/  or  https://www.wolframalpha.com/ .

you can use online calculator via website as DESMOS (https://www.desmos.com)
or GeoGebra (https://www.geogebra.org).

# CANVAS

You are expected to check our Canvas page frequently to see
- **Modules:** A new module will be created every week, and all the lectures and the assignments will be listed in each module.
- **Files:** Formula Sheets or any documents will be posted on the Files tab.
- **Announcements:** Emergencies, date change, change of plans, and etc.

# READING or WATCHING VIDEOS

In general, you should do the assigned reading section or watching video before the topics come up in class or in the homework. Throughout the quarter, I'll always assume that you've done all of the reading section or watching video.

---

## ALL ASSIGNMENTS (Homework, Quiz, and Exam)

**Late Submission = Zero Credit**

Regardless of why you missed it;
- **Late submissions are not acceptable**, and there is **no exception**.
- **Do not ask for any extensions**.
- Submission of each homework and quiz assignment is due at **11:59pm** on each due date.

---

# ATTENDANCE / PARTICIPATIENT
- You are expected to attend all classes, arrive on time, and stay for the entire class.
- Your participation will be checked in Canvas on each day.
- Each attendance is worth **1 point** as a participation.

# STUDENT CONTRACT
- Please read "Student Contract" carefully and write your signature (do NOT type your name) and date. And then upload it into "Assignments" in Canvas by Jan 19.

# SCORE SHEET
- You will record all scores in the score sheet which will be uploaded into "Assignments" in Canvas by March 23.

# HOMEWORK
- Homework will be assigned in MyOpenMath weekly and **no late work** will be accepted.
- **No extensions** will be granted.
- you will have at most 3 versions of each problem and 3 attempts are allowed for each problem . (This means that you will have at most 9 attempts on each homework problem.)
- **Three homework assignments with lowest percentage will be dropped**.
- Submissions are due at **11:59pm** on each due date.

To create an account in MyOpenMath follow these steps:
- Click here: https://www.myopenmath.com/
- Click "Register as a new student"
- Course Name: Math1D Winter 2025
- Use Course ID: **248789**
- Use Enrollment Key: **da1d31**

## QUIZZES

Quizzes will be assigned in CANVAS and **no late quiz** will be accepted. For each quiz:

- **No extensions** will be granted.
- **One submission** is allowed for each question.
- Use any materials including textbook and notes.
- Submissions are due at **11:59pm** on each due date.
- Each quiz is worth **5 points.**
- **Three lowest scores will be dropped** at the end of the course.

## EXAMS

- There will be **two** exams (90 min-exams).
- Each exam is worth **120 points**.
- All the exams are **closed-book.**
- **PENCILS ONLY** must be used.
- You may use **one 8.5 X 11 inch sheet of handwritten notes (one side**).
- **NO calculator, phones**, and **other aids** are allowed.
- There are **no dropped exams.**
- If the percentage of the lowest of your exam scores is lower than that of your final exam score, then the percentage of the lowest exam will be replaced by that of your final exam. (Note that the final exam score will NOT be replaced in this manner).

*Missed Exam*: There are **no make-up exams**, regardless of why you missed it**.** If you are unable to take the exam at the scheduled time due to illness or an emergency, then then your percentage from the final exam will be used to compute your score for the missed exam. If a second exam is missed, you will get a zero.

## FINAL EXAMS

- There will be a mandatory comprehensive final exam worth **200 points**.
- Final exam must be taken on March 27, Thursday at 4:00pm-6:00pm.
- The final will cover all the material discussed during the quarter.
- Missing the final will result in a grade of "F" for the course.
- It is **closed book**.
- **PENCILS ONLY** must be used.
- You may use **one 8.5 X 11 inch sheet of handwritten notes (both sides**).
- **No calculator** is allowed.
- **No phones**, and **other aids** are allowed.
- There are **no make-up final exams**, regardless of why you missed it**.**

## GRADES

Your grade will be based upon the total points earned, according to the following:

| Participation/ Attendance | | 20 pts |
|---|---|---|
| *Homework*-MyOpenMath<br>**Three lowest percentages** will be dropped. | | 100 pts |
| Quiz- CANVAS          (5 pts each)<br>**Three lowest scores** will be dropped. | | 40 pts |
| *Midterms*          (120 pts each) | | 240 pts |
| *Final Exam*          (200 pts) | | 200 pts |
| Total | | 600 pts |

| Points | | Percentage |
|---|---|---|
| 558 – 600 | **A** | 93%-100% |
| 534 – 557 | **A-** | 89%-92.9% |
| 516 – 533 | **B+** | 86%-88.9% |
| 498 – 515 | **B** | 83%-85.9% |
| 474 – 497 | **B-** | 79%-82.9% |
| 444 – 473 | **C+** | 74%-78.9% |
| 414 – 443 | **C** | 69%-73.9% |
| 396 – 413 | **D+** | 66%-68.9% |
| 378 – 395 | **D** | 63%-65.9% |
| 360 – 377 | **D-** | 60%-62.9% |
| Below 360 | **F** | Below 60% |

## TIME COMMITMENT

The De Anza College catalog advises students to do at least two hours studying outside of class for each credit hour. That means you should be spending at least four hours on each homework assignment (reviewing the notes, reading the textbook, doing the homework problems, watching videos related to the course material, etc.).

## STUDENT RESPONSIBILITIES

1. It is your responsibility to keep up with the material even if you miss class.
   **Note: I will not answer any Math questions over email.**
2. Students are responsible for any material covered and any announcements made in their Absence. It is your responsibility to find and use the all materials posted in CANVAS.
3. You are expected to attend all classes. If you miss class, please send me an email explaining the reason.
4. It is your responsibility to submit all assignments on time.
   **Note: There are no make-ups and no extensions will be granted.**
5. If you plan on dropping the class, it is your responsibility to use "MyPortal" online, or contact Admissions and Records office.
6. It is your responsibility to record all the scores you have earned, using a "Score Sheet."
7. Please type "**Math1D-31**" in the subject line when you contact me by email.
   **Your email will not be read** without the course and section number in the subject line.

## TUTORIAL HELP

- **SSC tutoring links and schedules:** go to the SSC homepage and click on the yellow link to add yourself to **SSC Resources Canvas**. Once there, click on Modules then the SSC area for your course. https://www.deanza.edu/studentsuccess/
- **Support for online learning:** If you'd like to speak with someone about motivation and organization strategies for online classes, we encourage you to talk with a peer tutor or SSC staff member.  We get it and are going through the same things, so let's support each other!
- **Need after-hours or weekend tutoring?** See the Online Tutoring page for information about NetTutor (via Canvas) or Smarthinking (via MyPortal).

## ACADEMIC MISCONDUCT

Academic dishonesty will not be tolerated. If a student is found cheating on an exam, plagiarizing on writing assignments, or violating other codes of academic integrity, he or she will receive a failing grade for the course and may be reported to the college for an appropriate action. See section on Academic integrity in your current schedule of classes catalog.
Please refer to https://www.deanza.edu/policies/academic_integrity.html

## DISABILITY SUPPORT SERVICES

For information or questions about eligibility, support services or accommodations to disability (physical or learning disability) see contacts below:
Disability Support Service (DSS): Student Services Building (408) 864-8753;TTY (408) 864-8748
Educational Diagnostic Center (EDC): Learning Center West 110; (408) 864-8839
Special Education Division: 864-8407; www.deanza.edu/specialed
The application process can be found here: https://www.deanza.edu/dsps/dss/applynow.html

| Winter 2025 | Math 1D  Tentative Course Schedule | |
|---|---|---|
| | Section Number used in **Stewart textbook** | **Section #  in OpenStax** |
| **Week 1**<br>**Jan 7 & 9** | Review for Math1A, 1B, and 1C<br>14.1: Functions of Several Variables<br>14.2: Limits and Continuity | <br>**4.1**<br>**4.2** |
| **Week 2**<br>**Jan 14 & 16** | 14.3: Partial Derivatives<br>14.4: Tangent Planes and Linear Approximations<br>14.5: The Chain Rule | **4.3**<br>**4.4**<br>**4.5** |
| **Week 3**<br>**Jan 21 & 23** | 14.6: Directional Derivatives and the Gradient Vector<br>14.7: Maximum and Minimum Values<br>14.8: Lagrange  Multipliers | **4.6**<br>**4.7**<br>**4.8** |
| **Week 4**<br>**Jan 28 & 30** | 14.8: Lagrange Multipliers<br>15.1:  Double Integrals over Rectangles<br>15.2:  Double Integrals over General Regions | **4.8**<br>**5.1**<br>**5.2** |
| **Week 5**<br>**Feb 4 & 6** | <span style="color:red">Exam 1 (14.1-14.8 & 15.1 – 15.2) on Feb 4 (4:00pm)</span><br>15.3: Double Integrals in Polar Coordinates<br>15.4 Applications of Double Integrals | <br>**5.3**<br>**5.6** |
| **Week 6**<br>**Feb 11 & 13** | 15.4 Applications of Double Integrals<br>15.5: Surface Area<br>15.6: Triple Integrals | **5.6**<br><br>**5.4** |
| **Week 7**<br>**Feb 18 & 20** | 15.7: Triple Integrals in Cylindrical Coordinates<br>15.8: Triple Integrals in Spherical Coordinates<br>15.9: Change of Variables in Multiple Integrals | **5.5**<br>**5.5**<br>**5.7** |
| **Week 8**<br>**Feb 25 & 27** | 16.1:  Vector Fields<br>16.2: Line Integrals<br>16.3: The Fundamental Theorem for Line Integrals | **6.1**<br>**6.2**<br>**6.2** |
| **Week 9**<br>**Mar 4 & 6** | <span style="color:red">Exam 2 (15.3 – 15.9 & 16.1 – 16.3) on Mar 4 (4:00pm)</span><br>16.4: Green's Theorem<br>16.5: Curl and Divergence | <br>**6.4**<br>**6.5** |
| **Week 10**<br>**Mar 11 & 13** | 16.5: Curl and Divergence<br>16.6: Parametric Surfaces and Their Areas<br>16.7: Surface Integrals | **6.5**<br><br>**6.6** |
| **Week 11**<br>**Mar 18 & 20** | 16.8: Stokes' Theorem<br>16.9: The Divergence Theorem<br><span style="color:red">**Last day of class on Mar 20**</span> | **6.7**<br>**6.8** |
| **Week 12** | **Final Exam** on <span style="color:red">**March 27**</span> at <span style="color:red">**4:00pm – 6:00pm**</span> | |

## IMPORTANT DAYS TO REMEMBER

| Jan 19,  Saturday | Last day to add quarter-length classes |
|---|---|
| Jan 19,  Saturday | Last day to drop for a full refund or credit. |
| Feb 28,  Friday | Last day to drop with a "W" |

**Student Learning Outcome(s):**

• Apply analytic, graphical and numerical methods to study multivariable and vector-valued functions and their derivatives, using correct notation and mathematical precision.
• Use double, triple and line integrals in applications, including Green's Theorem, Stokes' Theorem and Divergence Theorem.
• Synthesize the key concepts of differential, integral and multivariate calculus.

**Office Hours:**

M,T,W,TH    06:15 PM    06:40 PM    In-Person    Room E33