

Math 1B — Calculus II (Summer 2025)

Instructor: Gül Yaylı | yayligul@fhda.edu | Canvas Inbox (preferred)

Office Hours (Zoom): Thu 7:45–8:45 PM • Fri 10:00–11:00 AM

Class Meetings (Zoom): Mon–Thu 5:30–7:30 PM PT (June 30 – August 7, 2025)

Course Description

Math 1B is the second course in the calculus sequence. Topics include advanced integration techniques and applications, differential equations, parametric/polar curves, and infinite sequences and series. Students strengthen problem-solving and mathematical reasoning while modeling real-world situations.

Important Dates

- First Class: Mon June 30, 2025
- Independence Day (no class): Thu July 4
- Midterm 1: Thu July 17
- Midterm 2: Thu July 31
- Final Exam: Thu Aug 7 (5:30–7:30 PM)
- Drop with Refund by Jul 2 • Drop w/o “W” by Jul 7 • Drop with “W” by Aug 2

Required Materials

- Textbook: Stewart, Clegg, Watson — Calculus: Early Transcendentals, 9e (ISBN 978-1-337-61392-7) — Online copy: Free Textbook
- WebAssign: Student purchase required; 14-day grace period. Available online or at De Anza College Bookstore.
- Calculator: Basic scientific calculator (e.g., TI-30) allowed on exams. Graphing calculators not allowed. Useful free tools (not for exam use):
 - Desmos: <https://www.desmos.com/>
 - WolframAlpha: <https://www.wolframalpha.com/>
- Course Site (Canvas): <https://deanza.instructure.com/>

Grading

- WebAssign Homework: 15% (unlimited attempts)
- Weekly Quizzes: 20% (5 quizzes; lowest dropped)
- Midterms (2): 40% (lowest may be replaced by final if higher)
- Comprehensive Final: 25%

Letter grades: A 90–100% | B 80–89% | C 70–79% | D 60–69% | F < 60%

Policies

Attendance: Active participation in Zoom lectures and discussions is expected.

Academic Integrity: All submitted work must represent your own understanding. Foothill–De Anza Academic Integrity Policy applies.

Make-Up Work: Granted only for documented emergencies (contact instructor within 24 hours).

Accessibility: If you have accommodations from DRC, submit documentation within the first week.

Weekly Calendar

Week 1: Ch. 6 — Applications of Integrals (areas, volumes); start Ch. 7

Week 2: Ch. 7 — Techniques of Integration

Week 3: Finish Ch. 7, Improper Integrals, Midterm 1

Week 4: Ch. 9 — Differential Equations & Parametric Curves

Week 5: Ch. 10 — Polar Coordinates & Conics, Midterm 2

Week 6: Ch. 11 — Infinite Series; Review & Final Exam

Support & Resources

- STEM Center tutoring (drop-in & appointments)
- Math Success Center
- Counseling & Advising
- Mental Health Services

Student Learning Outcomes

- Analyze definite integrals graphically, numerically, analytically, and verbally using correct notation.
- Formulate and use the Fundamental Theorem of Calculus.
- Apply definite integrals to problems in analytic geometry and the sciences.

Syllabus Updates

The instructor reserves the right to modify dates or policies. Changes will be announced on Canvas at least 48 hours in advance.

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:

F	10:00 AM - 11:00 AM	Zoom
TH	7:45 PM - 8:45 PM	Zoom