## Calculus 1 MATH 2413 Fall 2025

| | | | OpenStax textbook section and links to short videos | PLTL on Tues/Thurs | WeBWorK |
|---|---|---|---|---|---|
| Wk 1 | Tue | Sep 2 | Syllabus and Intro | Intro | |
| | Thu | Sep 4 | 2.2 The Limit of a Function (L1*) | Practice on Functions | 2.2 |
| | Fri | Sep 5 | 2.3 The Limit Laws (L2*) | | 2.3, 2.3b |
| Wk 2 | Tue | Sep 9 | 2.2 Infinite Limits and Vertical Asymp (L2*) | 2.2: **L1*** | 2.2b |
| | Thu | Sep 11 | 4.6 Limits at Infinity & Horizontal Asymp | 2.3, 2.2, 4.6: **L2*** | 4.6 |
| | Fri | Sep 12 | | | |
| Wk 3 | Tue | Sep 16 | 2.4 Continuity (L3) | 2.4: **L3** | 2.4 |
| | Thu | Sep 18 | 3.1 Defining the Derivative (DM1, DM2) | 3.1: **DM1** | 3.1, 3.1b |
| | Fri | Sep 19 | | | |
| Wk 4 | Tue | Sep 23 | 3.2 The Derivative as a Function (DM4) | 3.1: DM2 (nonTest) | 3.2, 3.2a |
| | Thu | Sep 25 | 3.3 Differentation Rules & 3.5 Derivatives of Trig Functions (DS2*) | 3.2: DM4 (nonTest) | 3.3, 3.3b, 3.3c |
| | Fri | Sep 26 | **Exam 1: 2.2, 2.3, 4.6, 2.4, 3.1 (L1*, L2*, L3, DM1)** | | |
| Wk 5 | Tue | Sep 30 | 3.3 The Product Rule and the Quotient Rule (DS2*) | 3.3, 3.5: **DS2*** | 3.3, 3.3b, 3.3c |
| | Thu | Oct 2 | 3.4 Derivatives as Rates of Change (DA1) | 3.4: **DA1**; practice 3.6 | 3.4 |
| | Fri | Oct 3 | | | |
| Wk 6 | Tue | Oct 7 | 3.6 The Chain Rule (DS3*) & 3.7 Derivs of Inverse Trig Fcns | 3.6: **DS3*** | 3.6, 3.6b |
| | Thu | Oct 9 | 3.9 Derivatives of Exp and Log Functions (DS4) | 3.5, 3.6, 3.9: **DS4** | 3.9 |
| | Fri | Oct 10 | | | |
| Wk 7 | Tue | Oct 14 | 3.8 Implicit Differentiation (DS5) | 3.8: DS5 (nonTest) | 3.8 |
| | Thu | Oct 16 | 4.1 Related Rates (DA5) | 4.1: **DA5** | 4.1 |
| | Fri | Oct 17 | **Exam 2: 3.2, 3.3, 3.6, 3.7, 3.9 (DS2*, DA1, DS3*, DS4)** | | |
| Wk 8 | Tue | Oct 21 | 3.1 Tangent Lines (DM5*) | 4.2: **DM5*** | 4.2 |
| | Thu | Oct 23 | Application of Tangent Lines --4.2 Linear Approx 4.3 Maxima and Minima (DA2*) | 4.3: **DA2*** | 4.3 |
| | Fri | Oct 24 | | | |
| Wk 9 | Tue | Oct 28 | 4.5 Derivatives and the Shape of a Graph (DA4a, DA4b*) | 4.5: **DA4a** | 4.5, 4.5b |
| | Thu | Oct 30 | | 4.5: **DA4b*** | |
| | Fri | Oct 31 | 4.4 The Mean Value Theorem | MVT-WW only | 4.4 |
| Wk 10 | Tue | Nov 4 | 4.7 Applied Optimization Problems (do not test) | WW problems; not LT | 4.7 |
| | Thu | Nov 6 | 4.8 Indeterminate Forms and L'Hôpital's Rule (L5) | 4.8: L5 (nonTest) | 4.8 |
| | Fri | Nov 7 | **Exam 3: 4.1-4.5 (DA5, DM5, DA2*, DA4a, DA4b*)** | | |
| Wk 11 | Tue | Nov 11 | 4.10 Antiderivatives (FTC1) and IVPs (FTC2) | 4.10: FTC1 | 4.10 |
| | Thu | Nov 13 | 5.1 Approximating Areas (FTC4) | 4.10: **FTC2** | 5.1 |
| | Fri | Nov 14 | | | |
| Wk 12 | Tue | Nov 18 | 5.2 The Definite Integral (FTC3*) | 5.1: FTC4 (nonTest) | 5.2 |
| | Thu | Nov 20 | 5.3 FTC, Part 2 (FTC5*) | 5.2: **FTC3*** | 5.3 |
| | Fri | Nov 21 | | | |
| Wk 13 | Tue | Nov 25 | 5.4 Integration Formulas & Net Change Theorem (FTC6) | 5.3: **FTC5*** | 5.4 |
| | Thu | Nov 27 | ***Thanksgiving Holiday (No Classes)*** | 5.4: FTC6 (nonTest) | 5.5, 5.6 |
| | Fri | Nov 28 | ***Thanksgiving Holiday (No Classes)*** | | |
| Wk 14 | Tue | Dec 2 | 5.5 Substitution Rule with Indefinite Integrals (FTC8) | 5.5 &5.6: **FTC8** | |
| | Thu | Dec 4 | 5.6 Indefinite Integrals Involving Exp and Log Functions | Do Exam 4 review | |
| | Fri | Dec 5 | | | |
| Wk 15 | Tue | Dec 9 | **Exam 4: 4.10, 5.1-5.6 (FTC2, FTC3*, FTC5*, FTC8)** | | |
| | Thu | Dec 11 | ***No Class*** | | |
| | Fri | Dec 12 | ***No Class - Carnival Day*** | | |
| Wk 16 | Wed | Dec 17 | ***Last Carnival Day for GML classes 3:30-5:15pm*** | | |