# Tentative schedule-calculus3 I reserve the right to change this schedule at any time.

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| Wednesdays | Fridays-Out-of-class |
| January 12th (chapter 13)- Diagnostic quiz-Quiz 0 vectors in 2D, 3D | January 13th (chapter 13)- dot- cross product |
| January 19th Quiz 1 (chapter 13)- lines and planes | January 21st (chapter 13)- Cylinders and Quadrics |
| January 26th Quiz 2 (chapter 14)- Calculus of vector valued functions, unit tangent, unit normal | January 28th (chapter 14)- Motion in Space, length of curves |
| February 2nd  Quiz 3 (chapter 14)- curvature and normal vectors | February 4th chapter 15-  (Multivariable functions graphs and level curves |
| February 9th   Exam 1 (on chapters 13 and 14.)  (chapter 15)- 15.2 (limits) | February 11th   (chapter 15)- 15.3 (limits, partial derivatives) |
| February 16th Quiz 4 Topics(chapter 15)-   15.4 (chain rule),  15.5 (Directional derivatives and gradients) | February 18th   Topics(chapter 15)-   15.6, 15.7: (Tangent planes, Normal lines, (   optimization Max-Min,) |
| February 23rd Quiz 5   Topics(chapter 16)- Topics(chapter 14)-    15.8: optimization with Lagrange Multipliers | February 25th 16.1, 16.2: double integrals |
| March 2nd  Spring Break | March 4th Spring Break |
| March 9th Quiz 6  Topics(chapter 16)- 16.4: Triple integrals    Volumes | March 11th   16.7:   Substitutions in multiple integration, Jacobians |
| March 16th   Exam 2  Topics(chapter 16)- 16.3(double Integral in polar, triple integrals in cylindrical or spherical coordinates) | March 17th  Topics(chapter 16)- 16.5(double Integral in polar, triple integrals in cylindrical or spherical coordinates) |
| March 23rd Quiz 7  Topics(chapter 16)- Applications: volumes, areas 16.6: Integrals for mass calculations | March 25th  Topics(chapter 17)- 17.1, 17.2(  vector field, line integrals, Work) |
| March 30th Quiz 8  (chapter 17)- Section 17.3: conservative fields, potential functions | April 1st  (chapter 17)- Sections 17.4 Green's Theorem |
| April 6th Quiz 9 ((chapter 17)- Section 17.5: Divergence and Curl | April 8th (chapter 17)- Section 17.6 Surface Integrals |
| April 13th  Quiz 10  Section 17.7 Stokes' Theorem | April 15th  chapter 17- Section 17.8   Divergence Theorem |
| April 20th Exam3 | April 22nd catch up or review |
| April 27th no class | April 29th Final Exam |