# Tentative schedule-calculus3I 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 0vectors in 2D, 3D | January 13th(chapter 13)-dot- cross product  |
| January 19thQuiz 1(chapter 13)-lines and planes  | January 21st(chapter 13)-Cylinders and Quadrics  |
| January 26thQuiz 2(chapter 14)-Calculus of vector valued functions, unit tangent, unit normal      | January 28th(chapter 14)-Motion in Space, length of curves |
| February 2ndQuiz 3(chapter 14)-curvature and normal vectors | February 4thchapter 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 16thQuiz 4Topics(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 23rdQuiz 5  Topics(chapter 16)-Topics(chapter 14)-   15.8: optimization with Lagrange Multipliers |  February 25th16.1, 16.2: double integrals    |
| March 2nd Spring Break    |  March 4thSpring Break  |
|  March 9thQuiz 6Topics(chapter 16)-16.4: Triple integrals   Volumes | March 11th  16.7:   Substitutions in multiple integration, Jacobians |
| March 16th  Exam 2Topics(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 23rdQuiz 7 Topics(chapter 16)-Applications: volumes, areas16.6: Integrals for mass calculations | March 25th Topics(chapter 17)-17.1, 17.2(  vector field, line integrals, Work) |
| March 30thQuiz 8 (chapter 17)-Section 17.3: conservative fields, potential functions |  April 1st (chapter 17)-Sections 17.4 Green's Theorem |
| April 6thQuiz 9((chapter 17)-Section 17.5: Divergence and Curl | April 8th(chapter 17)-Section 17.6 Surface Integrals |
| April 13thQuiz 10 Section 17.7 Stokes' Theorem |  April 15th chapter 17-Section 17.8   Divergence Theorem |
| April 20thExam3 |  April 22ndcatch up or review |
| April 27thno class | April 29thFinal Exam  |