

Syllabus for CS 412, Fall 2000 (as of 09nov00)

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|--|---|
| sep 5: 1-9, 13-15 | = 1.1.1-4 |
| sep 7: 16-27 | = 1.2 |
| sep 12: 27-35 | = 1.2.4cont - 1.3.2 |
| sep 14: 34-38, 41-48 | = 1.3.2cont,(skip 1.3.3), 1.4 |
| sep 19: notes | = 1.4(cont) = added: catastrophic cancellation = differentiation of programs |
| sep 21: 48-54, 59-60; 74-76, 83 | = 1.5.1, (skip 1.5.2),1.6 (briefly), = 1.7 left to you as needed; 2.0;; |
| sep 26: 76-79, 83-96, notes | = 2.1.1-3 (2.1.4 covered by 2.3.3),2.2, = substituted: polynomial interpolation |
| sep 28: 92-96, 104-106,notes | = 2.3, 2.4.1-2, 3.1.1, (skip 3.1.2) = cont: polynomial interpolation |
| oct 3: 104-106, 110-113, notes | = = added: use of matlab's ppval, mkpp, etc |
| oct 5: 110-115, notes | = 3.2-3 = added: use of matlab's spline, etc |
| oct 10: splines (cont.) | = = use of matlab's spline, other end conditions = spline curves |
| oct 12: 136-158, notes | = 4.1-4, 4.2, 4.3, 4.4.1 = substituted: material on quadrature |
| oct 17: quadrature cont. | = (rehash of differentiation of a program) |
| oct 19: 152-153, 168-182 | = 4.3.2, 5.1, 5.2.1, 5.2.3 = substituted: material on quadrature error; ma |
| oct 24: review | = |
| oct(26): (exam) | = |
| oct 31: 184-186, 209-214, 221-232 | = 5.2.5 (skip 5.3, 5.4, 5.5), 6.1, 6.3 |
| nov 02: 221-232, 240-245 | = 6.3, 7.1 = substituted: pivoting = substituted: least-squares approximation |
| nov 07: 234-238, 235-236 | = 6.4, 7.2 (skip 7.2.1-3) = substituted: condition of a matrix |
| nov 09: 254-259 | = 7.3 (skip 7.3.3-4) |
| | planned |
| nov 14: 275-293 | = 8.1 = summary: root finding |
| nov 16: | = 8.1 cont. |
| nov(21): (earned free day) | = |
| nov 28: 293-304 | = 8.2 |
| nov 30: 327-337 | = 9.1 = substituted: ode's |
| dec 5: 338-348 | = 9.2 |
| dec 7: 349-359 | = 9.3 |
| dec 12: review | = |
| dec(14): (earned free day: voluntary review??) = | |