

Math 3060 schedule, Fall 2013

| Date   | Topic                      | Section | Notes |
|--------|----------------------------|---------|-------|
| Aug 22 | sequences                  | 11.1    |       |
| 23     | "                          |         |       |
| 26     | series                     | 11.2    |       |
| 27     | integral test              | 11.3    |       |
| 29     | comparison test            | 11.4    |       |
| 30     | limit comparison test      | "       |       |
| Sep 2  | alternating series         | 11.5    |       |
| 3      | root test, ratio test      | 11.6    |       |
| 5      | review                     | 11.7    |       |
| 6      | "                          |         |       |
| 9      | "                          |         |       |
| 10     | <b>TEST 1</b>              |         |       |
| 12     | power series               | 11.8    |       |
| 13     | "                          |         |       |
| 16     | functions as power series  | 11.9    |       |
| 17     | "                          |         |       |
| 19     | Taylor series              | 11.10   |       |
| 20     | the remainder              | "       |       |
| 23     | manipulating Taylor series | "       |       |
| 24     | "                          |         |       |
| 26     | applications               | 11.11   |       |
| 27     | review                     |         |       |
| 30     | "                          |         |       |
| Oct 1  | <b>TEST 2</b>              |         |       |
| 3      | parametric curves          | 10.1-.2 |       |
| 4      | polar curves               | 10.3-.4 |       |

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|-------|--------------------------|---------|-------|
| 14    | 3D coordinates & vectors | 12.1-.2 |       |
| 15    | dot product              | 12.3    |       |
| 17    | cross product            | 12.4    |       |
| 18    | lines and planes         | 12.5    |       |
| 21    | "                        |         |       |
| 22    | quadrics (Mathematica)   | 12.6    |       |
| 24    | "                        |         |       |
| 25    | vector functions         | 13.1-.2 |       |
| 28    | arc length               | 13.3    |       |
| 29    | TNB                      | 13.4    |       |
| 31    | multivariable functions  | 14.1    |       |
| Nov 1 | limits                   | 14.2    |       |
| 4     | review                   |         |       |
| 5     | <b>TEST 3</b>            |         |       |
| 7     | partial derivatives      | 14.3    |       |
| 8     | tangent planes           | 14.4    |       |
| 11    | the chain rule           | 14.5    |       |
| 12    | directional derivatives  | 14.6    |       |
| 14    | max/min                  | 14.7    |       |
| 15    | "                        |         |       |
| 18    | multiple integrals       | 15.1    |       |
| 19    | "                        |         |       |
| 21    | iterated integrals       | 15.2    |       |
| 22    | <b>EXIT EXAM</b>         |         |       |
| 25    | double integrals         | 15.3    |       |
| 26    | "                        |         |       |
| Dec 2 | review                   |         |       |
| 3     | <b>TEST 4</b>            |         |       |
| 5     | review for final         |         |       |
| 6     | review for final         |         |       |