## LECTURE SCHEDULE, MAT 141, FALL 2000

| Week of | Sections | Holidays and Exams |
|---|---|---|
| 9/4 | P.1, P.2, P.3 | **First Lecture, Friday 9/9** |
| 9/11 | P.4, P.5, P.6, P.7 | |
| 9/18 | 1.1, 1.2, 1.3, 1.4 | **Early Exam, 8:30pm Mon 9/18** |
| 9/25 | 1.5, 2.1, 2.2 | |
| 10/2 | 2.3, 2.4, 2.5 | |
| 10/9 | 2.6, 2.7, | **Class Mon $\rightarrow$ Wed, Exam Fri 10/13** |
| 10/16 | 3.1, 3.2, 3.3 | |
| 10/23 | 3.4, 3.5, 3.6 | |
| 10/30 | 3.7, 4.1, 4.2 | |
| 11/6 | 4.3, 4.4, 4.5 | |
| 11/13 | 4.6 | **Exam Fri 11/17** |
| 11/20 | 4.7, 5.1 | |
| 11/27 | 5.2 | **Thanksgiving** |
| 12/4 | 5.3, 5.4 | |
| 12/11 | 5.5, 5.6 | |
| 12/18 | Review | **Final, 11:00-1:30 Fri 12/22** |

## HOMEWORK, MAT 141, FALL 2000

| Section: | Topic | Problems: |
|---|---|---|
| P.1 | Lines | 9,11,15,19,24,27,31,33 |
| P.2 | Functions and graphs | 5-19 odd,27,31,33,37,39,47,49, |
| P.3 | Exponentials | 1-6,27 |
| P.4 | Inverses | 1-10,11-25 odd, 29,31,41,43, |
| P.5 | Trig functions | 1, 7-17 odd, 23,25,28,31,35, |
| P.6 | Parametric equations | 1-9 odd, 21,23, 27-30, 49 |
| P.7 | Modeling Change | 1,3,7 |
| 1.1 | Rates of change | 1-17 odd, 31,33,35 |
| 1.2 | Finding limits | 1-41 odd |
| 1.3 | Limits involving infinity | 1-33 odd, 43 |
| 1.4 | Continuity | 1-25 odd, 33,37 |
| 1.5 | Tangent lines | 1-11 odd, 25 |
| 2.1 | The derivative as function | 1-19 odd,33,35,40 |
| 2.2 | The derivative as rate of change | 1,3,5,13,23,25 |
| 2.3 | Product and quotients | 1-23 odd,28 |
| 2.4 | Trig functions | 1-27 odd,35,37 |
| 2.5 | Chain rule | 1-37 odd,45,51,61,71 |
| 2.6 | Implicit differentiation | 1-25 odd,37-43 odd,49,57 |
| 2.7 | Related rates | 1-9 odd,13,15,19,27,31 |
| 3.1 | Extreme values | 1-29 odd,40,41,42,45,47,51,55 |
| 3.2 | Mean Value theorem | 1-19 odd, 25,29,31,33,35,39 |
| 3.3 | Graphing | 1-6,7-31 odd, 35,47,49,53,55 |
| 3.4 | Graphing DE's | 1-9 odd,13,15 |
| 3.5 | Optimization | 1-15 odd, 23,31,33-37 odd,46 |
| 3.6 | Linearization | 1-5,7,15,25,31,33-37 odd,46 |
| 3.7 | Newton's method | 1-5 odd, 7,8,10,26 |
| 4.1 | Indefinite integrals | 1-25 odd,31,33,35-41 odd |
| 4.2 | Substitution | 1-29 odd,33,37,45 |
| 4.3 | Finite sums | 1,3,5,9,13,15,21 |
| 4.4 | Riemann sums | 1,3,7,9,11,13,17,18,27,29,33 |
| 4.5 | Mean value and fundamental thms | 1-23 odd,29-37 odd,41,45,51 |
| 4.6 | Subsitution | 1-15 odd,11,13,17,21,23 |
| 4.7 | Numerical integration | 1-7 odd,11,13,17,21,23 |
| 5.1 | Volumes by slicing | 1,3,5,9,13,33,41,45,49,55 |
| 5.2 | Cylindrical shells | 1-13 odd,17,21,23,25,27,35 |
| 5.3 | Lengths of curves | 1-7 odd,11,13,17,29, |
| 5.4 | Work | 1-11 odd, 15,19,23,27,35 |
| 5.5 | Pressure and Forces | 1-7 odd,11,15,19 |
| 5.6 | Moments and center of mass | 1-15 odd,25,27,29,35,37 |