

## MATH 2300-001: Analytic Geometry and Calculus 2, Fall 2005

UPDATE: The next two midterm exams will be at 5:15–6:45 p.m. on Wednesday, 10/5 and Wednesday, 11/9, in MUEN E0046.

### Daily outline of the course

| Day  | Sections in text | Topics  |
|------|------------------|---|
| 9/16 | 7.6              | Integration via trigonometric substitution.   |
| 9/19 | 7.7              | Integrals involving quadratic polynomials.    |
| 9/20 |                  | MOS (More of same).                           |
| 9/21 | 7.8              | The so-called “improper” integrals.           |
| 9/23 | 9.2              | Polar coordinates.                            |
| 9/26 | 9.3              | Area computations with polar coordinates.     |
| 9/27 | 9.1 and 9.3      | MOS and conic sections.                       |
| 9/28 | 9.4              | Parametric curves.                            |
| 9/30 | 9.5              | Integral computations with parametric curves. |
| 10/3 | 9.6              | Applications of conic sections.               |
| 10/4 | 9.6              | MOS.  |
| 10/5 |                  | Review for evening exam.                      |

### Homework assignments

| #  | Due  | Sect. | Problems   |
|----|------|-------|--|
| 11 | 9/20 | 7.6   | 1,2,3,4,7,11,12,15,20,28,30,42,44                              |
| 12 | 9/21 | 7.7   | 2,4,6,7,11,15,18,21,29,33,37,38,39                             |
| 13 | 9/23 | 7.8   | 1,2,3,4,6,8,11,13,17,21,27,30,33,38,39,49,50                   |
| 14 | 9/27 | 9.2   | 1-10,12,14,15,17,21,23,26,27, 29-37,40,43,46,49,50,52-54,57,58 |
| 15 | 9/28 | 9.3   | 1,4,7,9,11,12,17,18,22,32,39,40                                |
| 16 | 9/30 | 9.4   | 1,3,7,8,9,17,18,25,26,34-36                                    |
| 17 | 10/4 | 9.5   | 1,3,4,7,11,12,19,23,28,33,34                                   |
| 18 | 10/7 | 9.6   | 3,8,11,17,21,26,37,38,42,54,78,90                              |