

MATH 106, SUMMER 2017

JAMES M. MURPHY

- COURSE:** Calculus I (Bio. and Soc. Sci.)
- LOCATION/TIME:** MTuWThF 10:00 - 12:00 PM in **Latrobe 120**.
- INSTRUCTOR:** James M. Murphy, jmurphy@math.jhu.edu, Kreiger, 411 (office hours: F, 3:00-5:00 pm, Krieger 204 and by appointment). Course notes and materials may be found on the following webpage: www.math.jhu.edu/~jmurphy
- DESCRIPTION:** The course studies differential and integral calculus. The emphasis will be on developing intuition and computational skills, though theory will also be discussed. We work through the basic ideas of limits, derivatives and, integrals, while developing applications of these concepts. The course concludes with a discussion of Taylor expansions.
- TEXTS:**
- *Calculus for Biology and Medicine*, 3rd Edition, Claudia Neuhauser.
 - *Notes taken in class.*
- PREREQUISITES:** Students should be at ease with college algebra, trigonometric functions, exponential and logarithmic functions.
- APPROXIMATE SCHEDULE:** Homework problems are assigned from the textbook, but will not be graded. These questions form the material for the weekly quizzes. The schedule below is approximate, but gives a good sense of the pace of the course.
1. Week of May 29: **1.1-1.3; 2.1-2.2; 3.1**
 2. Week of June 5: **3.2-3.5; 4.1-4.8**
 3. Week of June 12: **5.1-5.8**
 4. Week of June 19: **6.1-6.3, 7.1-7.2**
 5. Week of June 26: **7.3, 7.6**
- ASSIGNMENTS:**
- **Quizzes:** Four quizzes will be given on June 2, June 9, June 16, and June 23. The *top three scores* each contribute 10% to the final grade. The questions will come directly from homework assignments.
 - **Midterm:** One midterm exam will be given on June 14. It is worth 30% of the final grade.
 - **Final Exam:** One final exam will be given June 29. It is worth 40% of the final course grade.

REMARKS:

- There are no makeup exams.
- No homework is graded, but all quiz questions will come from from homework questions.
- Four quizzes are given, but only the best three scores count. In effect, each student's lowest quiz score is dropped.
- Working in groups on homework and to study is strongly encouraged. Working together is perhaps the fastest way to make progress on challenging questions.
- Cheating will not be tolerated. Anyone suspected of academic dishonesty will be pursued to the fullest extent of JHU policy.