Spring 2015: Section 101A-02 (061958), 5 credits

DAYS / TIME: Mon, Tue, Wed, Thur 10:45 am - 12:00 pm

INSTRUCTOR: Priya Babu

E-MAIL: PBabu@ohlone.edu

Prerequisites: Passing grade in Precalculus or the equivalent.


ISBN: 978-0321570567

Content: Chapters 1 to 5

Calculator: Graphing calculator can be used as a supplement.

Websites:

Sample Tests: http://www.ohlone.edu/instr/math/101atests

Calculator Help: http://www2.ohlone.edu/people2/joconnell/ti

Catalog Description:
This course includes a review of functions and graphs; elements of analytic geometry, limits, continuity, differentiation of algebraic, trigonometric, logarithmic, exponential, and inverse trigonometric functions, applications of the derivative, and introduction to integration and some applications of the definite integral.

Counselor Information:

MATH 101A is the beginning course of the calculus sequence, applicable to a variety of majors (most especially mathematics, engineering, and the sciences). It is important that students be well prepared for this course by successfully completing a precalculus course (such as MATH 188 here at Ohlone) or the equivalent.
**Student Learning Outcomes**

The student will:

1. Manipulate and evaluate mathematical expressions involving limits and derivatives at the intermediate level.
2. Apply differential calculus to problems involving related rates and optimization at the intermediate level.
3. Use the methods of calculus to analyze the qualitative behavior of graphs of two-dimensional functions at the mastery level.
4. Manipulate and evaluate mathematical expressions involving integration at the beginning level.
5. Use technology to analyze functions found in differential calculus at the intermediate level.

**Grading:**

- **A** 100% - 90%  
  Assignments - 15%
- **B** 89.9% - 80%  
  Tests - 55%
- **C** 79.9% - 65%  
  Final - 30%
- **D** 64.9% - 55%

**Homework:** The assigned homework is the minimum work that should be done every day to reinforce the concepts learnt. Homework will not be collected.

**Assignments:** Should be turned in on the date printed on the assignment. It should be done neatly with appropriate work shown. Answers only will not be accepted. Students can submit one day late with no points deducted. Assignments submitted later than that will not be accepted. Two lowest scores will be dropped.

**Tests/ Finals:** There will be five chapter tests during the semester. One make-up test may be given along with the finals depending on the reason for missing a test. The final exam will cover all the material discussed during the semester.

**Academic Dishonesty:** This includes, but is not limited to: cheating, copying work of others, permitting others to copy your work, submitting work done by others, and altering work after grading and submitting it for re-grading. You are expected to be aware of Ohlone Board policy on this matter. See [http://www.ohlone.edu/org/board/policy/chapter7reg.htm#r7.8.4](http://www.ohlone.edu/org/board/policy/chapter7reg.htm#r7.8.4)

**Dropping:** If you want to drop the class, do so according to the procedure listed in the schedule of classes. Failure to do so may result in a grade of F for the course.
Tutoring: Free tutoring is available in the Math Learning Center NC 1102.

Mental Health and Stress Management:

The staff and faculty of Ohlone College are here to see you succeed academically and care about your emotional and physical health. You can learn more about the broad range of confidential student services, including counseling and mental health services available on campus by visiting the Student Health Center in building 7 or http://stepupohlone.org/oncampus-resources/. The Crisis Support Services of Alameda County offers a 24-Hour Crisis Line: 1-800-309-2131.

IMPORTANT DATES:

Jan 26 - First day of class

Feb 8 - Last day to DROP a semester length classes without a “W” and receive refund

Feb 5 - Last day to DROP a class without a “W”

Feb 16 - President’s Day - Holiday

Mar 23 to Mar 29 - Spring Break

Apr 24 - Last day to DROP a class with a W (letter grades issued after that)

May 14 - Last day of class

May 18 - FINAL EXAM - 9:30 am to 11:30 am
<table>
<thead>
<tr>
<th>DATE</th>
<th>SEC.</th>
<th>DATE</th>
<th>SEC.</th>
<th>DATE</th>
<th>SEC.</th>
<th>DATE</th>
<th>SEC.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon</td>
<td></td>
<td>Tue</td>
<td></td>
<td>Wed</td>
<td></td>
<td>Thu</td>
<td></td>
</tr>
<tr>
<td>1/26</td>
<td>Intro</td>
<td>1/27</td>
<td>1.1</td>
<td>1/28</td>
<td>1.2</td>
<td>1/29</td>
<td>1.3</td>
</tr>
<tr>
<td>2/2</td>
<td>1.3</td>
<td>2/3</td>
<td>1.4</td>
<td>2/4</td>
<td>1.4</td>
<td>2/5</td>
<td>review</td>
</tr>
<tr>
<td>2/9</td>
<td>Test 1</td>
<td>2/10</td>
<td>2.1</td>
<td>2/11</td>
<td>2.2</td>
<td>2/12</td>
<td>2.3</td>
</tr>
<tr>
<td>2/16</td>
<td>Holiday</td>
<td>2/17</td>
<td>2.3</td>
<td>2/18</td>
<td>2.4</td>
<td>2/19</td>
<td>2.5</td>
</tr>
<tr>
<td>2/23</td>
<td>2.6</td>
<td>2/24</td>
<td>2.6</td>
<td>2/25</td>
<td>2.7</td>
<td>2/26</td>
<td>review</td>
</tr>
<tr>
<td>3/2</td>
<td>Test 2</td>
<td>3/3</td>
<td>3.1</td>
<td>3/4</td>
<td>3.2</td>
<td>3/5</td>
<td>3.3</td>
</tr>
<tr>
<td>3/9</td>
<td>3.4</td>
<td>3/10</td>
<td>3.5</td>
<td>3/11</td>
<td>3.5</td>
<td>3/12</td>
<td>3.6</td>
</tr>
<tr>
<td>3/16</td>
<td>3.6</td>
<td>3/17</td>
<td>3.7</td>
<td>3/18</td>
<td>3.7</td>
<td>3/19</td>
<td>3.8</td>
</tr>
<tr>
<td>3/30</td>
<td>3.9</td>
<td>3/31</td>
<td>3.10</td>
<td>4/1</td>
<td>3.10</td>
<td>4/2</td>
<td>review</td>
</tr>
<tr>
<td>4/6</td>
<td>Test 3</td>
<td>4/7</td>
<td>4.1</td>
<td>4/8</td>
<td>4.2</td>
<td>4/9</td>
<td>4.3</td>
</tr>
<tr>
<td>4/13</td>
<td>4.4</td>
<td>4/14</td>
<td>4.4</td>
<td>4/15</td>
<td>4.5</td>
<td>4/16</td>
<td>4.6</td>
</tr>
<tr>
<td>4/20</td>
<td>4.7</td>
<td>4/21</td>
<td>4.8</td>
<td>4/22</td>
<td>4.8</td>
<td>4/23</td>
<td>review</td>
</tr>
<tr>
<td>4/27</td>
<td>Test 4</td>
<td>4/28</td>
<td>5.1</td>
<td>4/29</td>
<td>5.1</td>
<td>4/30</td>
<td>5.2</td>
</tr>
<tr>
<td>5/4</td>
<td>5.3</td>
<td>5/5</td>
<td>5.4</td>
<td>5/6</td>
<td>5.4</td>
<td>5/7</td>
<td>5.5</td>
</tr>
<tr>
<td>5/11</td>
<td>review</td>
<td>5/12</td>
<td>Test 5</td>
<td>5/13</td>
<td>review</td>
<td>5/14</td>
<td>review</td>
</tr>
<tr>
<td>5/18</td>
<td>FINALS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

-------------------------------------------------------------------
--------------------------