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|---|---|---|---|
| **COURSE**: | Math 1B-27 Calculus | **QUARTER:** | Winter 2015 |
| **DAY**: | TuTh | **INSTRUCTOR**: | Millia Ison |
| **TIME**: | 4 – 6:15 p | **OFFICE PHONE**: | 864-5659 |
| **EMAIL:** | isonmillia@fhda.edu | **OFFICE NUMBER**: | S76e |

**OFFICE HOUR** : M – Th: 11:50a-12:20p**,** TuTh 6:20 – 7:20p
**COURSE PREREQUISITES**: Math 1A, or equivalent course with a grade "c" or better.
**TEXT**: Calculus: Early Transcendentals, by James Stewart, 7th edition.
**ENROLL WEB ASSIGN** : Class code: **deanza 26300576**
**EQUIPMENT**: A graphic calculator is required.
**SLO**: 1. Analyze the definite integral from a graphical, numerical, analytical and verbal approach, using correct notation and mathematical precision.
2. Formulate and use the Fundamental Theorem of Calculus.
3. Apply the definite integral in solving problems in analytical geometry and the sciences

**GRADING**:

| | | |
|---|---|---|
| WebAssign ----100 points | A: 93% - 96 % , 558 - 600 pts | C+: 76% - 79 % , 456 - 479 pts |
| 5 quizzes --------50 points | A– : 90% - 92 % , 540 - 557 pts | C: 70 % - 75 %, 420 - 455 pts |
| 3 midterms --- 300 points | B+: 87% - 89 % , 522 - 539 pts | D: 60 % - 69 %, 360 - 419 pts |
| Final exam ---- 150 points | B: 83% - 86 % , 498 - 521 pts | F: 0 % - 59 %, 0 - 359 pts |
| Total ---------- 600 points | B–: 80% - 82 % , 480 - 497 pts | |

**QUIZZES**: Thursdays. 10 points each quiz.
**MIDTERM EXAMS**: Thursdays. ( 100 points each). Scheduled dates are subject to change. Please see the next page calendar.
**FINAL EXAM**: Tuesday, March 24, 4 – 6 p
Fail to take the final exam, you will receive "F" for your grade.

**IMPORTANT NOTES** :

- No make-ups for quizzes. Absences are counted as 0's. your lowest quiz score will be dropped.
- No make-up midterm exams. Absences are counted as 0's. For special circumstances, the percent of your final exam score will be replaced for the missed midterm exam.You must contact me before or on the day of the exam.
- See the other side for the homework assignment. Exams and quizzes are to test your understanding of the classroom discussions and homework assignments. Cheating of any form on quizzes, midterm exams or final exam will be grounds for disciplinary action.

**IMPORTANT DATES:** Monday, Jan. 19 --- Last day to drop without grade on your record.
Friday, Feb. 27 --- Last day to drop with a "W".

**ATTENDANCE**: Regular attendance is required. More than 3 absences without contact me will result in a "W" or "F" for the class. Last day to drop class is Nov. 14**.** After that day, You will receive a grade for the course.

**Text: Stewart 7th edition** **MATH 1B-25 Winter 2015 Calendar** **Room E32**

| Chapter | SEC | PROBLEMS |
|---|---|---|
| Integrals | 5.1 | Areas and Distances |
| | 5.2 | The Definite Integral |
| | 5.3 | The Fundamental Theorem of Calculus |
| | 5.4 | Indefinite Integrals and the Net Change Thm |
| | 5.5 | The Substitution Rule |
| Hyp/Invhyp Functions | 3.11 | Hyperbolic Funtions |
| | Suppl | 7.6, 1-37 odd, 41, 45; 8.3, 3-23 odd, 24,27,31. |
| Applications of Integrals | 6.1 | Aresa Between Curves |
| | 6.2 | Volumes |
| | 6.3 | Volume by Cylindrical Shells |
| | 6.4 | Work |
| | 6.5 | Average Value of a Function |
| Techniques of Integration | 7.1 | Integration by Parts |
| | 7.2 | Trigonometric Integrals |
| | 7.3 | Trigonometric Substitution |
| | 7.4 | Integration of Rat'l Funct'ns by Partial Fractions |
| | 7.5 | Strategy for Integration |
| | 7.6 | Integration Using Tables and Computer |
| | 7.7 | Approximate Integration |
| | 7.8 | Improper Integrals |
| Further Applications | 8.1 | Arc Length |
| | 8.2 | Area of a Surface of Revolution |
| | 8.3 | Applications to Physics and Engineering |
| | 8.5 | Probability |
| Differential Equations | 9.1 | Modeling with Differential Equations |
| | 9.2 | 9.2 Direction Fields and Euler's Method |
| | 9.3 | 9.3 Separable Equations |
| | 9.4 | 9.4 Models for Population Growth |

All homework assignments and due dates are listed on WebAssign.

These are the least amount of exercises you need to do. If you don't master the material well afterdoing WebAssign, work with more of the similar problems in the text.

| | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|---|---|---|---|
| **Jan** | 5 | 6<br>5.1, 5.2 | 7 | 8<br>5.2, 5.3 | 9 |
| **Jan** | 12 | 13<br>5.3, 5.4 | 14 | 15<br>5.5<br>quiz 1 | 16 |
| **Jan** | 19<br>MLKing B.day<br>No school | 20<br>3.11, suppl | 21 | 22<br>Review<br>Exam 1 | 23 |
| **Jan** | 26 | 27<br>6.1, 6.2 | 28 | 29<br>6.3, 6.4<br>quiz 2 | 30 |
| **Feb** | 2 | 3<br>6.5, 7.1 | 4 | 5<br>7.2, 7.3<br>quiz 3 | 6 |
| **Feb** | 9 | 10<br>7.4, 7.5 | 11 | 12<br>Review<br>Exam 2 | 13<br>Lincoln's Birthday<br>No school |
| **Feb** | 16<br>Washington B.day<br>No School | 17<br>7.6, 7.7 | 18 | 19<br>7.8<br>quiz 4 | 20 |
| **Feb** | 23 | 24<br>8.1, 8.2 | 25 | 26<br>8.3 | 27<br>last day to drop w/W |
| **Mar** | 2 | 3<br>8.3, 8.5 | 4 | 5<br>Review<br>Exam 3 | 6 |
| **Mar** | 9 | 10<br>9.1, 9.2 | 11 | 12<br>9.3<br>quiz 5 | 13 |
| **Mar** | 16 | 17<br>9.4 | 18 | 19<br>Review<br>quiz 6 | 20 |
| **Mar** | 23 | 24<br>**Final**<br>**4p – 6p** | 25 | 26 | 27 |