CALCULUS II  
(MATH 1552, SECTION 11)

Course Information
- **Course**: Math 1552, Section 11  
- **Text**: Calculus (early transcendentals), 7th ed.  
- **Author**: James Stewart  
- **Course Content**: Chapters 7, 10-13, and Section 14.3.  
- **Classroom**: 136 Lockett Hall  
- **Time**: 11:30 - 12:20pm TWThF

Instructor Information
- **Instructor**: Xiaoliang Wan  
- **Office**: 136 Lockett Hall  
- **Office Hours**: WF 1:00 - 2:00pm, or by appointment  
- **Phone**: 578-6367  
- **email**: xlwan@math.lsu.edu  
- **Web page**: http://www.math.lsu.edu/~xlwan/teaching.html

Course Description
This course is a four (4) hour second calculus course designed for math, science and engineering majors and certain other technical majors. It satisfies four hours of the General Education Analytical Reasoning requirement because it includes the following area learning objective: “LSU graduates will employ scientific and mathematical models in the resolution of laboratory and real-world problems.”

As a 4-credit course, students are expected to have eight hours of coursework outside of class per week, for a minimum time commitment of 12 hours per week.

Graded Work
- **Final Exam**: Comprehensive 25%  
- **Exams**: Three hourly exams 60%  
- **In-Class Quizzes**: varies 15%

**The Final Exam**: The Final exam will take place 7:30-9:30am on Wednesday May 4. There will be no early final exam exceptions. Any makeups will take place on the following Monday, May 9.

**Exams and in-class quizzes**: There will be three in-class tests: February 16, March 15, April 19. There will be in-class quiz every Tuesday starting from January 19, 2016. Homework will be assigned each week on my website but not be collected. You are encouraged to work on homework problems together. The lowest quiz grade will be dropped.
**CALCULUS II** (MATH 1552, SECTION 11)

**Calculators and Collaboration:** On in-class quizzes and exams you may only use a scientific calculator that does not do graphs or symbolic manipulation, such as solving equations and symbolically calculating derivatives and integrals. Work on in-class exams must be your own work with no assistance from anyone else. During an exam, attempts to look at other students’ exams and the use of crib sheets or formula sheets will be considered to be a violation of the LSU Code of Student Conduct and will be reported to the Student Advocacy and Accountability Office.

**Grading Scale**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>98+</td>
</tr>
<tr>
<td>A</td>
<td>93-98</td>
</tr>
<tr>
<td>A-</td>
<td>90-93</td>
</tr>
<tr>
<td>B+</td>
<td>87-90</td>
</tr>
<tr>
<td>B</td>
<td>83-87</td>
</tr>
<tr>
<td>B-</td>
<td>80-83</td>
</tr>
<tr>
<td>C+</td>
<td>77-80</td>
</tr>
<tr>
<td>C</td>
<td>73-77</td>
</tr>
<tr>
<td>C-</td>
<td>70-73</td>
</tr>
<tr>
<td>D+</td>
<td>67-70</td>
</tr>
<tr>
<td>D</td>
<td>63-67</td>
</tr>
<tr>
<td>D-</td>
<td>60-63</td>
</tr>
<tr>
<td>F</td>
<td>0-59</td>
</tr>
</tbody>
</table>

**Exam Schedule**

Exam 1: Tuesday February 16  
Exam 2: Tuesday March 15  
Exam 3: Tuesday April 19  
Final Exam: Wednesday May 4 (7:30-9:30am, in our usual classroom)

**Topics Covered**

A partial list of basic skills you should acquire during the course.

1. Techniques of integration, numerical integration, improper integration  
2. Parametric curves and polar coordinates; areas and lengths determined by parametric and polar curves  
3. Infinite sequences and series, convergence tests, power series and Taylor series  
4. Vectors in two and three dimensions; lines and planes in space  
5. Analytic geometry of conic sections and quadric surfaces  
6. Calculus of vector-valued functions; arclength, curvature and motion in space  
7. Calculation of partial derivatives