MATH 1325 Syllabus
Brookhaven College

Instructor Information
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Course Information
Course Title: Calculus for Business & Social Sciences
Course Number: MATH 1325
Section Number: 25401
Semester/Year: Summer 2020
Class Meeting Time/Location: Online – Go to class in Ecampus to get started

Required Course Materials
1. WebAssign Website: Students must purchase access to WebAssign as all homework is completed
   online at this site. Use the following class key when registering: brookhaven.dcccd 7510 3514
2. Mathematical Applications for Management, Life and Social Science, 12e, Harshbarger
   ISBN: 978-1337625340. IMPORTANT: Students do not need to purchase a separate paper text, as
   MyLabMath includes an electronic text.
3. TI Graphing calculator is required and should be brought to class. TI-84 PLUS calculator
   recommended. NO TI-89 OR TI-92 OR TI-NSPIRE.

Graded Work
The tables below provide a summary of the graded work in this course and an explanation of how your final
course grade will be calculated.

Summary of Graded Work

<table>
<thead>
<tr>
<th>Assignments</th>
<th>Details</th>
<th>Total %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Tests</td>
<td>5 Tests Lowest test grade is dropped</td>
<td>60%</td>
</tr>
<tr>
<td>WebAssign Homework</td>
<td>1 Assignment per section</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>Cumulative at end of term</td>
<td>20%</td>
</tr>
</tbody>
</table>

Final Grade

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100%</td>
<td>A</td>
</tr>
<tr>
<td>80-89%</td>
<td>B</td>
</tr>
<tr>
<td>70-79%</td>
<td>C</td>
</tr>
<tr>
<td>60-69%</td>
<td>D</td>
</tr>
<tr>
<td>0-59%</td>
<td>F</td>
</tr>
</tbody>
</table>

Key Dates
Instructor may adjust schedule during semester
Course Prerequisites
MATH 1314 or MATH 1324

Course Description
This course is the basic study of limits and continuity, differentiation, optimization and graphing, and integration of elementary functions, with emphasis on applications in business, economics, and social sciences. This course is not a substitute for MATH 2413. This course is cross-listed as MATH 1425. The student may register for either MATH 1325 or MATH 1425 but may receive credit for only one of the two. (3 Lec).

Student Learning Outcomes
Upon successful completion of this course, students will:
1. Apply calculus to solve business, economics, and social sciences problems.
2. Apply appropriate differentiation techniques to obtain derivatives of various functions, including logarithmic and exponential functions.
3. Solve application problems involving implicit differentiation and related rates.
4. Solve optimization problems with emphasis on business and social sciences applications.
5. Determine appropriate technique(s) of integration.
6. Integrate functions using the method of integration by parts or substitution, as appropriate.
7. Solve business, economics, and social sciences applications problems using integration techniques.

MATH 1325 is a Tier I course in the Quantitative Reasoning learning category. Knowledge and skills that are important to your success in other college courses will be introduced and reinforced in Tier I. The Quantitative Reasoning category promotes the application of mathematics to increase your ability to solve “real-world” problems. When you are quantitatively literate, you can use logic and critical thinking in new way. DCCCD Core Curriculum Description

Texas Core Objectives
The College defines essential knowledge and skills that students need to develop during their college experience. These general education competencies parallel the Texas Core Objectives for Student Learning. In this course, the activities you engage in will give you the opportunity to practice two or more of the following core competencies:

1. Critical Thinking Skills - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
2. Communication Skills - to include effective development, interpretation, and expression of ideas through written, oral, and visual communication
3. Empirical and Quantitative Skills - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
4. Teamwork - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
5. Personal Responsibility - to include the ability to connect choices, actions, and consequences to ethical decision-making
6. Social Responsibility - to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

Institutional Policies
Institutional Policies relating to this course can be accessed using the link below. These policies include information about tutoring, Disabilities Services, class drop and repeat options, Title IX, and more. Brookhaven Institutional Policies (http://www.brookhavencollege.edu/syllabipolicies)

Instructor’s Right to Modify
The instructor has the right to add, delete, or revise segments of this course syllabus.