2014

MATH 120-06 Elementary Functions

Jack Butz

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MATH 120-06, ELEMENTARY FUNCTIONS

Spring Term Jan. 13-May 9 HAILSTONES 19 10:00-11:15 AM TR
Final Exam: Thursday, May 8, 8:30—10:20 AM
Exam Review Study Day: May 5, 9:00—10:00 AM
No Class: Jan. 20, Mar. 3-7, Apr. 17-21

Instructor: Jack Butz Office, Hinkle Hall 131 Phone: 745-3516
Email butzj1@xavier.edu ML 4441
Office Hours: Tues./Thurs. 12:00-2:00 PM
Mon./Wed. 9:00-11:00 AM
By appointment also

Textbook: Functions & Change, 5th ed. Crauder, Evans, Noell

Calculator: Each student must have a TI-83 or 84 calculator. It is the only one that may be used on tests. It is essential that you learn how to use it.

Grading:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Range</th>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>96-100</td>
<td>Test Average</td>
<td>80% (20% per test)</td>
</tr>
<tr>
<td>A-</td>
<td>93-95</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>90-92</td>
<td>Final Exam</td>
<td>20%</td>
</tr>
<tr>
<td>B</td>
<td>87-89</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-</td>
<td>84-86</td>
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<td></td>
</tr>
<tr>
<td>C+</td>
<td>81-83</td>
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<td>C</td>
<td>78-80</td>
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<td>69-71</td>
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<td>66-68</td>
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<tr>
<td>F</td>
<td>00-65</td>
<td></td>
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</tr>
</tbody>
</table>

The grade is determined as follows:
For you “to earn credit….the student is required to attend classroom and laboratory exercises regularly and promptly.” You are allowed three unexcused absences.
Attendance will be taken and used in computing final grades. Exceeding three absences will result in a full letter reduction of the final grade.

Tests:
Feb. 13, Mar. 20, Apr. 10, Apr. 29, Final Exam, May 8 (see above).
Except for the exam, these dates are tentative and could change.
Hats and hoods must be removed during a test or the final exam.
Please do not ask to take your final exam on a different date. Both the Department Chair and Dean of A&S must give written approval.

Objectives: From the XU Catalog: The Xavier University admission requirement of two units of high school mathematics is assumed (my emphasis) for all mathematics courses.
ELEMENTARY FUNCTIONS 3 cr.hrs.
Polynomial, exponential and logarithmic functions their properties, graphs and real-world applications will be studied. It is excellent preparation for MT 150.

Learning Goals This course fulfills core curriculum requirements.
Test Makeup: The instructor does not routinely give make-up tests. If you miss one test, then the comprehensive final exam becomes 40% of your final grade. Any missed tests beyond one will result in a grade of zero for that test. Missing the final exam will result in a grade of zero on the exam. A medical emergency, funeral, university sponsored events, etc. are judged on a case-by-case basis. You will need extensive documentation to receive a make-up test/exam. If you are an athlete, I need your official schedule form. You do not have the option of dropping the lowest test grade.

MATERIAL TO BE COVERED
Material will include but not necessarily be limited to the following chapters. Problems are assigned as we go.
Handouts might accompany a lesson.
Surprise Homework Quizzes (SHQs) will be given as a means of grade enhancement.
An explanation of how they are graded and how they apply to your final grade will be given to you.

CHAPTER ONE    FUNCTIONS
CHAPTER TWO    GRAPHICAL AND TABULAR ANALYSIS
CHAPTER THREE   STRAIGHT LINES AND LINEAR FUNCTIONS
CHAPTER FOUR   EXPONENTIAL FUNCTIONS
CHAPTER FIVE   A SURVEY OF OTHER COMMON FUNCTIONS

Addendum The instructor reserves the right to modify or change dates, procedures, etc. at any time except for items under “grading.” Usually changes will be given to you at the beginning of class along with most announcements. That is why it is important for you to attend class and be on time.

Classroom Etiquette
Cell phones should be turned OFF before your class begins. If you leave class to take a call, you need not bother returning. Your professor does not take kindly to your sending or receiving text messages during class or listening to music. Do not offend him, lest he asks you to leave the classroom and charges you with an unexcused absence. Be on time for class. Kindly clean up after yourself—bottles, paper, cups, etc. Do not get up to leave class during the lecture unless you have cleared leaving with Prof. Butz or you experience sudden illness. Otherwise you will be charged with an unexcused absence. Laptop computers are not permitted unless you have documentation from the LAC that you are legally entitled to one as an accommodation.

Academic Dishonesty Student Academic Dishonesty (SAD), aka cheating, will be reported to the Dean of Arts & Sciences. SAD includes but is not limited to the unauthorized use of notes, cheat sheets, cell phones, items stored in the memory of the TI-83/4, and the like. Such behavior will result in an automatic zero for that test/exam and your referral to the Dean.