University of Detroit Mercy  
College of Engineering and Science  
Department of Mathematics and Computer Science  
Math 111: Mathematical Analysis I  
Course MTH 111 - 03

Days/Time: M.W. 5:15 – 6:30 p.m.  
Location: 134 Engineering  
Instructor: Clarence B. Wilson  
Office: 326 Engineering  
Phone: (313) 993 – 1060  
Email: wilscb@udmercy.edu  
Course webpage: http://eng-sci.udmercy.edu/personal/wilsoncb/index.html  
Office hours: 4 - 5 p.m. M W or by appointment.  
Prerequisites: A "C" or better in MTH 101 or Placement  

Course Description: This course encourages students to investigate mathematical ideas and processes both algebraically and graphically. The studies are inclusive of topics in college algebra including functions and their graphs, solving equations and inequalities, solving systems of equations, matrix techniques, conics and applications.

At the completion of this course, the student will:

- Students will demonstrate the ability to solve polynomial, rational, exponential, and logarithmic equations (symbolically and graphically).
- Students will demonstrate the ability to simplify rational, exponential, logarithmic expressions.
- Students will demonstrate an understanding the distinctions between the behavior and graphs of polynomial, rational, exponential, and logarithmic functions.
- Students will be able to use a graphing calculator to generate graphs of various functions and be able to interpret appropriate information from these graphs.
- Students will demonstrate the understanding of and ability to manipulate conic sections.
- Students will demonstrate an understanding of and ability to work with matrices and some of their applications.
Grading: There will be weekly quizzes, three exams and a final. The final grade will be computed as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>16.(\frac{2}{3})%</td>
</tr>
<tr>
<td>Exam 1</td>
<td>16.(\frac{2}{3})%</td>
</tr>
<tr>
<td>Exam 2</td>
<td>16.(\frac{2}{3})%</td>
</tr>
<tr>
<td>Exam 3</td>
<td>16.(\frac{2}{3})%</td>
</tr>
<tr>
<td>Final</td>
<td>33.(\frac{1}{3})%</td>
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Requirements and Evaluation:

- Homework will not be collected but you are responsible for the content of problems assigned for testing purposes. A selection of odd numbered problems will be assigned each week.
- Each of three exams will count as 50 points for a total of 150 points. The final exam will count as 100 points and will be comprehensive. Quizzes will weekly during the semester, for a total of 10 quizzes during the semester. Points for the quizzes will be five points each for a total of 50 points.
- Exams will be announced one week before testing date.

Make up quizzes will not be given for any reason!
All make up exams will be given during the last day of schedule class!

Attendance Policy
I do not take attendance for grading purposes. Most students cannot be successful in a mathematics course without 100% attendance.

Class Cancellation Policy:
If a class is missed due to weather or instructor’s absence, anything planned for that class will occur during the next class session

Classroom Etiquette
Please turn the sound off on your cell phone. Excessive noise will not be tolerated. Disruptive behavior will not be tolerated.

Honesty is admirable! Cheating will result in a grade of F for all parties involved.

HELPFUL STUDY HINTS:
Read the assign sections before coming to class. Try a few problems using the patterned examples in the text. All odd numbered problems will be assigned. Do these after each class session using the patterned examples and class notes for guidance before coming to the next session. Ask for assistance when the need arises for understanding the immediate and previously taught lesson.
Homework:
Homework is intended to test and further your understanding of concepts and procedures learned in class. Study your homework, don't just try to complete it to hand something in!
You will receive homework via Blackboard, with assignments for each chapter.
Expect to spend 1-3 hours per night on homework.
Attempt the homework for the section that is covered in class that day.
Mark the problems you had trouble with and bring those questions to the next class.
The next class day questions will be answered on the homework, the following class, Quiz questions will come directly from the homework.

DO NOT POSTPONE getting help on material you found difficult!

Grading Scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>300 - 278</td>
</tr>
<tr>
<td>A-</td>
<td>277 - 279</td>
</tr>
<tr>
<td>B+</td>
<td>268 - 260</td>
</tr>
<tr>
<td>B</td>
<td>259 - 248</td>
</tr>
<tr>
<td>B-</td>
<td>247 - 239</td>
</tr>
<tr>
<td>C+</td>
<td>238 - 230</td>
</tr>
<tr>
<td>C</td>
<td>229 - 209</td>
</tr>
<tr>
<td>D</td>
<td>208 - 194</td>
</tr>
<tr>
<td>F</td>
<td>193 - 0</td>
</tr>
</tbody>
</table>

Final Exam
Monday April 24 5:00 - 6:50 p.m.