Syllabus

MATH 115 XX  Quantitative Methods for Decision Making, 4 hrs, 4 crs  Spring 2009

Prerequisites: Math 102, the equivalent, or placement examination.

| Instructor | [Type your name here] | Phone | [Type your phone number here] |
| Office | [Type your office location here] | E-mail | [Type your e-mail address here] |
| Office Hours | [Type your office hours here] | Course Schedule | [Type course schedule here] |

Required Text

Course Description
Functions, systems of linear equations, matrices, elementary linear programming; elementary calculus, mathematics of finance; and related topics. [ Math 115 is a Writing Enhanced general education course.]

Learning Objectives
- Understand basic properties and applications of equations, functions, inequalities, and graphs
- Apply basic techniques in mathematics of finance, systems of linear equations, matrices, linear programming; and elementary calculus in decision making
- Write legible lines for quantitative reasoning

Grading Policy
[ Course Grade: [Homework/Exercises(xx%) + Tests(yy%) + Final(zz%) ]
Students are expected to do the homework assignments timely, which are assessed through quizzes and tests.
Final exam is cumulative, given during the final exam period as described in Schedule of Classes. ]

Academic Integrity Policy
[ Academic dishonesty is prohibited. Penalties include failing grade, suspension, and expulsion:
http://web.cuny.edu/academics/info-central/policies/academic-integrity.pdf
No use of cellphone or any communications device during class and exam hours; No cheating, no act of plagiarism in any forms or media. Students are required to follow the CUNY policy on academic integrity, which is available on the CUNY site above. A brief description of the policy is also included in the Schedule of Classes booklet. ]

Accommodations for Learning Disabled
[ Special arrangement can be made for students with verification letter from the Office in 1G02.
http://york.cuny.edu/student-development/ossd ]

Requirements
( Class attendance; A working CUNY portal account and a valid email address in the college eSIMS. )
# Course Outline

<table>
<thead>
<tr>
<th>Week</th>
<th>Chapter and Topic</th>
<th>Sections</th>
<th>Hours</th>
<th>[Required Reading/Notes]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Review of Algebra</td>
<td>1.1 – 1.7</td>
<td>4</td>
<td>1.1 – 1.7 [ Pretest ]</td>
</tr>
<tr>
<td>2</td>
<td>2. Graphs and Equations</td>
<td>2.1 – 2.5</td>
<td>4</td>
<td>2.1 – 2.4 [HW Quiz]</td>
</tr>
<tr>
<td>3, 4</td>
<td>3. Functions and Graphs</td>
<td>3.1 – 3.7</td>
<td>8</td>
<td>3.1 – 3.7 [HW Quiz/Test 1]</td>
</tr>
<tr>
<td>5</td>
<td>4. Exponential and Logarithmic Functions</td>
<td>4.1 – 4.4</td>
<td>4</td>
<td>4.1 – 4.3 [HW Quiz]</td>
</tr>
<tr>
<td>6, 7</td>
<td>5. Mathematics of Finance</td>
<td>5.2 – 5.4</td>
<td>8</td>
<td>5.2 – 5.4; [Case 5, HW Quiz/Test 2]</td>
</tr>
<tr>
<td>8, 9</td>
<td>6. Systems of Linear Equations and Matrices</td>
<td>6.1 – 6.5</td>
<td>8</td>
<td>6.1 – 6.5; [Case 6, HW Quiz]</td>
</tr>
<tr>
<td>10, 11</td>
<td>7. Linear Programming</td>
<td>7.1 – 7.3</td>
<td>6</td>
<td>7.1 – 7.3 [HW Quiz/Test 3]</td>
</tr>
<tr>
<td>11, 12, 13</td>
<td>11. Differential Calculus</td>
<td>11.1 – 11.7</td>
<td>10</td>
<td>11.1 – 11.7 [HW Quiz/Test 4]</td>
</tr>
<tr>
<td></td>
<td>12. Applications of the Derivatives</td>
<td>12.1 – 12.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Optional topics; Reviews</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Final Exam (Cumulative)</td>
<td></td>
<td>2</td>
<td>[Date from Schedule of Classes]</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>58</strong></td>
<td></td>
</tr>
</tbody>
</table>

## Homework and Exercises

[Read the book, study/review class examples, and do exercises. Work timely on course assignments.]

## Learning Resources

1. Math Tutoring: Academic Achievement Center, 3H13, 718-262-2831, -2303, email: aac@york.cuny.edu
2. IT Helpdesk: located in 2E03, the drop-in lab. 718-262-5300, email: helpdesk@york.cuny.edu
4. Blackboard site: [http://lmsprod.cuny.edu](http://lmsprod.cuny.edu), support: [http://york.cuny.edu/it/acet/blackboard](http://york.cuny.edu/it/acet/blackboard)
5. Academic Calendar: [http://york.cuny.edu/registrar/academic-calendar?searchterm=academic+calendar](http://york.cuny.edu/registrar/academic-calendar?searchterm=academic+calendar)
6. WAC Writing Center: 1C18, 718-262-2494; On Writing Enhanced Courses:
   [http://york.cuny.edu/wac/resources-for-faculty/wi-and-we/writing-enhanced](http://york.cuny.edu/wac/resources-for-faculty/wi-and-we/writing-enhanced)
7. College Library: 3G01, [http://york.cuny.edu/library](http://york.cuny.edu/library), for books reserved, workshops on information literacy, the Internet, Blackboard, etc.
8. Microcomputer Center: located in C201, Classroom Building; drop-in lab: C201A
9. York Bulletin can be searched or downloaded from the College website: [http://york.cuny.edu/search?SearchableText=york+bulletin](http://york.cuny.edu/search?SearchableText=york+bulletin)
10. Student Development/Counseling, and Disability Accommodations Request: 1G02, 718-262-2272
12. Scholarship Center: [http://york.cuny.edu/centers-institutes/scholarships](http://york.cuny.edu/centers-institutes/scholarships)