CASPER COLLEGE COURSE SYLLABUS

Course: Math 1000-N1 Problem Solving

Semester: Summer 2016

Lecture Hours: 3  Lab Hours: 0  Credit Hours: 3

Class Time: Internet Course

Instructor: Kendall Jacobs  Office: PS 338

Office Phone: 268-2043  Email: kjacobs@caspercollege.edu

Office Hours: M-W-TH 9:20-10:20

If the above times don't work for you, please feel free to make an appointment- or just drop by! I am also available for office hours on Skype.

Course Description: This course focuses on the strategies of problem solving. Topics in the course are taken from financial mathematics, set theory, logic, probability, statistics, and discrete mathematics. (From Casper College Course Catalog).

Prerequisites: A grade of "C" or better in MATH 900, or an ACT score of 19 or better, or an appropriate placement test score

Goal: The purpose of this course is to help the student develop problem solving skills while studying many fundamental branches of mathematics.

Outcomes: Students who successfully complete this course should be able to:

1. Be able to apply simple financial formulas to solve problems involving compound interest, annuities, sinking funds, etc.
2. Be able to use simple financial formulas to analyze problems that require financial decisions.
3. Be able to use the empirical, experimental and subjective definitions of probability to do probability problems involving one event
4. Be able to apply the laws of probability to analyze problems involving multiple events and expected value
5. Be able to describe a data set using basic sample statistics and graphics.
6. Be able to construct an interval estimate from the normal distribution and understand it has a specified certainty of being correct.
7. Have an increased greater appreciation for the beauty, utility and significance of mathematics as a liberal art

Casper College may collect samples of student work demonstrating achievement of the above outcomes. Any personally identifying information will be removed from student work.
Materials Needed:

Text: *Thinking Mathematically* 6th edition Blitzer (2015). You may also purchase access to the multimedia text (you don’t have to have a hard copy) via course compass (cost is around $95)

Calculator: You will need a calculator – For those that have them, I will be providing resources for TI graphing calculators – however, they will not be required.

Computer/Internet: You will be required to have access to the Internet and Moodle. You may access the Internet via the Casper College Computer Labs. There will be some assignments that use spreadsheets – Excel/Works/etc. Please let the instructor know if you need help gaining access to these tools.

Methodology: This is a distance course – there are no face to face lectures. It will be YOUR responsibility to read the text, keep up with the assignments and ask for help when needed. I recommend that you study with the intent to understand and not just to get by on the exam. I will also schedule several optional live/online help sessions throughout the semester – you will be encouraged to attend. You will also be encouraged to stop by for individual help as needed. I will also offer optional live chat sessions and/or telephone conference sessions as requested.

Evaluation Criteria: Your letter grade will be based on your performance on the following:

- **Exams (approx 60%)**: Two proctored exams have been scheduled. You must take all exams at the scheduled time. Any exceptions must be approved in advance. In the event an exam is unavoidably missed, you should contact the instructor ASAP.
- **Homework/Quizzes/Explorations (approx 40%)**: Proficiency in mathematics requires practice! Each week you will have several short quizzes in My Math Lab. You will have multiple opportunities to get a good score on these quizzes. I keep your high score. In addition to my math lab assignments, there will be an occasional video quiz or other assignment. You will also be required to complete 7 Explorations – the explorations are a little more involved.

Grading Scale: You are guaranteed a traditional grading scale of 90% + A, 80-89% B, 70-79% C, 60-69% D, 59%-F. But I reserve the right to lower this without notice if I deem it necessary.

Student Rights and Responsibilities:
Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

Chain of Command: If you have any problems with this class, you should first contact the instructor to attempt to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take the matter through the appropriate chain of command starting with the Department Head/Program Director, the Dean, and lastly the Vice President for Academic Affairs.

Academic Dishonesty: (Cheating & Plagiarism) Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct for more information on this topic.
Official Means of Communication: Casper College faculty and staff will employ the student's assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly. This is also, where you will find course evaluation links during course evaluation periods.

ADA Accommodations Policy: If you need academic accommodations because of a disability, please inform me as soon as possible. See me privately after class, or during my office hours. To request academic accommodations, students must first consult with the college’s Disability Services Counselor located in the Gateway Building, Room 344, (307) 268-2557, bheuer@caspercollege.edu. The Disability Services Counselor is responsible for reviewing documentation provided by students requesting accommodations, determining eligibility for accommodations, and helping students request and use appropriate accommodations.

Last Day to Change to Audit or Withdraw: July 6, 2016 will be the last day to drop/audit this class. If you are thinking about changing your course status, please see me BEFORE this date. You will not be allowed to audit unless you have been attending class on a regular basis.

Help: I recommend you keep up with the class. If you need help, then get it . . . FAST! I will be available to help individuals during my office hours or by appointment. If you see that I’m online, feel free to invite me to the course chat room. PLEASE don't hesitate to stop by or give me a call. I want you to succeed! The Math Lab (PS 104) is also a great place to go for assistance. I will also offer an occasional Skype if there is an interest.

Math 1000-N1 SUMMER 2016

TENTATIVE SCHEDULE

<table>
<thead>
<tr>
<th>Deadlines</th>
<th>Content</th>
<th>Text Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 10</td>
<td>Mathematical Thought and Problem Solving</td>
<td>1.1</td>
</tr>
<tr>
<td>June 14</td>
<td>Patterns – Sequences – Problem Solving</td>
<td>1.2-1.3</td>
</tr>
<tr>
<td>June 17</td>
<td>Units Measurement and Geometry</td>
<td>9.1-9.3</td>
</tr>
<tr>
<td>June 21</td>
<td>Units Measurement and Geometry</td>
<td>10-2.10.5</td>
</tr>
<tr>
<td>June 24</td>
<td>Trigonometry</td>
<td>10.6</td>
</tr>
<tr>
<td>June 28</td>
<td>Financial Mathematics Part I</td>
<td>8.1-8.6</td>
</tr>
<tr>
<td>July 1</td>
<td>Exam I</td>
<td>8.1-8.6</td>
</tr>
<tr>
<td>July 8</td>
<td>Financial Mathematics Part 2</td>
<td></td>
</tr>
<tr>
<td>July 12</td>
<td>Counting – Permutations - Combinations</td>
<td>11.1-11.8</td>
</tr>
<tr>
<td>July 15</td>
<td>Probability</td>
<td>11.1-11.8</td>
</tr>
<tr>
<td>July 19</td>
<td>Probability</td>
<td>11.1-11.8</td>
</tr>
<tr>
<td>July 22</td>
<td>Descriptive Statistics</td>
<td>12.1-12.4</td>
</tr>
<tr>
<td>July 26</td>
<td>Inferential Statistics</td>
<td>12.1-12.4</td>
</tr>
<tr>
<td>July 29</td>
<td>Final Exam</td>
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IF YOU ARE HAVING TROUBLE IN THIS CLASS, PLEASE CONTACT ME AS SOON AS POSSIBLE!!!