CASPER COLLEGE COURSE SYLLABUS

Problem Solving, Math 1000-R02

Semester/Year: Fall 2015

Lecture Hours: 3	**Lab Hours**: 0	**Credit Hours**: 3
Class Time: 11:00-11:50 am	**Days: TWTh**	**Room: PS 109**

Instructor's Name: Debra Swedberg

Instructor's Office: PS 343 ($7^3 = 343$)	**Office Phone: (307) 268 2251 (with voice messaging available)**	**Email:swedberg@caspercollege.edu**

Office Hours: 9:00 -9:50 am (F); 10:00 -10:50 am (M-F); 11:00 -12:00 (F in MLC, PS 104); 12:00-1:00 pm (M & W) and other times are available by appointment.

Course Description: Focuses on the strategies of problem solving. Topics in the course are taken from financial mathematics, set theory, logic, probability, statistics, and discrete mathematics.

Statement of Prerequisites: A "C" or better in MATH 0920 or MATH 0924; or an ACT score of 21 or better; or a COMPASS placement score in the Algebra domain of 40-65, within the past year.

Goal: For each student to have personal responsibility for attending and participating in class, completing homework, asking questions, passing tests, and succeeding in this class.

Outcomes for Casper College Graduates:

1. Demonstrate effective oral and written communication
2. Use the scientific method
3. Solve problems using critical thinking and creativity
4. Demonstrate knowledge of diverse cultures and historical perspectives
5. Appreciate aesthetic and creative activities
6. Use appropriate technology and information to conduct research
7. Describe the value of personal, civic, and social responsibilities
8. Use quantitative analytical skills to evaluate and process numerical data

COURSE OBJECTIVES: Students should:

1. Be able to apply simple financial formulas to solve problems involving compound interest, annuities, loans, 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 a greater appreciation for the beauty, utility and significance of mathematics as a liberal art.

Methodology: This course format is called "Course Redesign". What that means is that it you are able to move as quickly as you can, however a minimum schedule must be maintained to complete the course material; your primary instruction modality is your computer through an online system called MyMathLab, in which you will watch videos, complete your homework, quizzes and exams. This course requires that you be self-motivated and self-disciplined to stay on topic. It isn't for everyone but works GREAT for those who are. You will access all of the course material through your MyMathLab code, **swedberg77767**.

Evaluation Criteria: This is a mastery based course. This means that you must master the material in each section before you are allowed to move onto the next section. The requirements to pass an item are as follows: HW 80%; Quizzes 75%; Exams 70% (these exams are password protected and must be taken in the presence of a proctor; details listed below). Your grade in this class will be determined by the amount of work that you do. Let me explain:

This course has 14 modules. Each module has 2-3 sections. Each section has a power point and/or online video lecture (**BYOH:** bring your own headphones), homework assignment, and quiz. The minimum requirement for each section is to pass the quiz with a 75% score. Two attempts are allowed. IF you don't pass the quiz after two attempts, all the homework for the section is required with a minimum score of 80%. The quiz will be reopened for another attempt (75% score required again). After all the section quizzes are passed with 75%, a module pretest is required. A module pretest needs to get passed at 70%. Finally a module test has to be taken and passed with 70%. Module tests 1-10 must be taken in class or at the Academic Testing Center* and all notes are allowed. The homework assignments, quizzes, pretests, and Module tests 11-14 can be done anywhere.

Grading: Your grade will be determined by your weekly progress and your incompleteness* penalty. Please plan to attend class. Those who have been successful in this format also attend class every day! Notice that is not only helpful that you work outside of class; it will impair your grade if you do not.

*Incompleteness Penalty is defined as follows: if you do not finish 10 modules then you will be assigned a final grade of F.

Required Text, Readings, and Materials: MyMathLab Code; textbook is optional, as there is an online, electronic copy of this textbook. This course is based on Thinking Mathematically, 6/e by Robert Blitzer, Pearson Publishing.

Class Policies: Last Date to Change to Audit Status or to Withdraw with a W Grade:

Thursday, November 12th is the last day to withdraw from this class.
It is strongly observed!

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.

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.

Calendar or schedule indicating course content: The schedule for the prescribed minimum pace to complete this course follows.

Let's make this a GREAT SEMESTER!?!??!

Attend CLASS – Complete the Modules – Get your questions answered!

Week #	Module Schedule*	Minimum Due Date
1	Log in and Set up	8/24/15
2	#1 (1.1, 8.1)	8/31/15
3	#2 (8.3,8.4)	9/7/15 (Labor Day – no class)
4	#3 (8.5,8.6)	9/14/15
5	#4 (11.1,11.2)	9/21/15
6	#5 (11.3,11.4)	9/28/15
7	#6 (11.5,11.6)	10/5/15
8	#7 (11.7,11.8)	10/12/15
9	Fall BREAK!	10/19 & 10/20 off; 10/21-10/22/15 class
10	#8 (12.1,12.2)	10/26/15
11	#9 (12.3,12.4)	11/2/15
12	#10 (12.5,12.6)	11/9/15 (last day to WD 11/12)
13	#11 (9.1,9.2,9.3)	11/16/15
14	#12 (10.1,10.2)	11/23/15 (Thanksgiving)
15	#13 (10.3,10.4)	11/30/15
16	#14 (10.5,10.6)	12/7/15
17	Finals Week	12/14/15 (Finals Week only if you need to catch up)

Remember the best ability anyone can possess is respons – "ability"!!

*Refer to MML schedule to verify what is entailed within each Module listed above.