This class has mandatory online homework and a group administered common departmental final exam. This exam is given **Dec 5 10:00-12:00**. Calculators will not be allowed during the final exam. For more information on these and other policies, read this syllabus in detail and view the course information posted in the ‘Course/Final Exam Info’ section at https://faculty.unlv.edu/bellomo/CourseInfo/CourseInfo.html.

CLASS INFORMATION:
- Semester and Year: Fall 2015
- Course Number: Math 132
- Course Section: 1001
- Lecture Times: MW 4:00-5:15
- Lecture Location: BEH 242

INSTRUCTOR INFORMATION:
- Name: Gary Phelps
- Office Location: CDC 710
- Office Phone: 702-895-5173
- Email: phelpsg2@unlv.nevada.edu
- Instructor Web Page: faculty.unlv.edu/gphelps
- Office Hours: 11:00-12:30 MW
- Dept Phone: (702) 895-3567
- Dept Web Page: http://www.unlv.edu/math
- Other:

COURSE DESCRIPTION:
- Logic, sets, probability, matrices, and linear programming, and their application to the analysis of business and social science problems. 3 credits.

PREREQUISITES for the COURSE:
- A minimum score of 24 on the ACT, or a minimum score of 560 on the SAT, or a C or better in Math 124 or Math 126 or equivalent.

COURSE MATERIALS:
- **Required Account:** UNLV Web Campus assigned homework
- **Suggested Calculator:** A non-programmable, non-graphing, non-scientific calculator is recommended for classroom use. For the final exam, a calculator will be provided for you; see “calculator policy” for additional details.

SPECIAL NOTE:
- During full semesters (fall and spring), students enrolled in Math 095 through Math 182 are required to attend a mandatory presentation regarding the online evaluations, tutor clinic and other tutoring options offered. Your instructor will provide you with specific details.
EVALUATION AND GRADE ASSIGNMENT:

<table>
<thead>
<tr>
<th>Weight</th>
<th>Item</th>
</tr>
</thead>
</table>
| 10% or 15% | Online Homework
[10% for on-campus classes -or- 15% for distance education classes] |
| 30%   | Cumulative Final Exam*                                               |
| 45%   | 3 hour exams                                                         |
| 15%   | In class Quizzes and homework                                       |

* The Final Exam for all Math 132 sections will be a 2-hour comprehensive common exam administered on Dec 5, 2015 at 10:00-12:00. The auditorium location will be announced towards the end of the semester. All students must attend – absolutely no make-ups or re-scheduling allowed. No formula cards or calculators allowed (a calculator will be provided for you).

Letter grades will be assigned according to the following scale: A 93-100, A- 90-92.9, B+ 87-89.9, B 83-86.9, B- 80-82.9, C+ 77-79.9, C 73-76.9, C- 70-72.9, D+ 67-69.9, D 63-66.9, D- 60-62.9, F below 60.

Extra credit will not be permitted on final grades, or the final examination.

LEARNING OUTCOMES:

Chapter 1
• Graph linear equations
• Find intersection points

Chapter 4
• Graph systems of linear inequalities
• Solve linear programming problems in two variables

Chapter 2
• Solve systems of equations
• Find the reduced row echelon form of any matrix
• Solve story problems pertaining to the above

Chapter 3
• Perform matrix algebra
• Find the inverse of a matrix

Chapter 5
• Solve linear programming problems using the Simplex Method

Chapter 7
• Describe and find sizes of sets
• Learn basic counting principles using permutations and combinations
• Describe a sample space and assign probabilities
• Calculate probability using properties of probability
• Calculate expected values
• Solve story problems pertaining to the above

Chapter 8
• Calculate conditional probabilities
• Determine if two events are independent
• Calculate probability using counting principles and independence of events
• Calculate probabilities using Bayes Theorem and the Binomial Probability Model
• Solve story problems pertaining to the above

Appendix A
• Apply the Binomial Theorem
TOPICAL OUTLINE/SAMPLE PROBLEMS/EXAM HINTS:
A topical outline and sample set of written homework problems can be found online (https://faculty.unlv.edu/bellomo/CourseInfo/CourseInfo.html). This includes hints for each exam and the final. You are strongly encouraged to review this handout.

COURSE SCHEDULE:

CLASS POLICIES:
ATTENDANCE:
Attendance is a mandatory component of all on-campus classes, and will be taken daily.

CALCULATOR/TECHNOLOGY:
Calculators will not be permitted on the final exam, however a basic 4 function calculator will be provided for you. At no time during classroom instruction or assessments may you use cell phones, laptops, ipods (or similar such devices), nor are you permitted to share a device with another student.

ACADEMIC INTEGRITY:
Academic integrity is a legitimate concern for every member of the campus community; all share in upholding the fundamental values of honesty, trust, respect, fairness, responsibility and professionalism. By choosing to join the UNLV community, students accept the expectations of the Academic Misconduct Policy and are encouraged when faced with choices to always take the ethical path. Students enrolling in UNLV assume the obligation to conduct themselves in a manner compatible with UNLV’s function as an educational institution. An example of academic misconduct is plagiarism. Plagiarism is using the words or ideas of another, from the Internet or any source, without proper citation of the sources. See the Student Academic Misconduct Policy (approved December 9, 2005) located at: http://studentconduct.unlv.edu/misconduct/policy.html

While the UNLV Department of Mathematical Sciences encourages students to collaborate with peers, there is a distinction between verbal collaboration and copying. Specifically – it is not acceptable to “divide” work, and it is not acceptable to use another persons’ hard work (current or former student, teaching assistant, or tutor) as your own. Further, if you feel you are being misguided, it is your responsibility to report this to your instructor before testing, so they can correct the situation and give you proper clarification.

Academic dishonesty will not be tolerated; the College of Sciences emphasizes zero tolerance for academic dishonesty. All acts of academic dishonesty may result in: automatic zero on the assignment, F in the course, disciplinary review, revoking of degree, probation, expulsion, etc.

HOMEWORK:
Online homework is mandatory for this course. Information about how to log on will be provided by your instructor the first day of class. Additional sample homework problems can be found on the DMS website at www.unlv.edu/math. See flyer on my website: faculty.unlv.edu/gphelps.

MAKE-UP POLICY:

ASSESSMENTS/TESTING:
Test days you will arrive on time, and minimize the amount of clutter you bring into the classroom. Leave all electronic devices in your home or automobile; if it is necessary to carry them for emergency purposes, they should be turned OFF before the assessment begins. If you create a disturbance with an electronic item (even in vibrate mode) you may receive a zero on that assessment. Bring a photo id to all tests (especially the final exam), you may be asked to provide proof of identification. Formula cards will not be permitted on the final exam; a calculator will be provided for you.

TUTORING:
Tutoring through the Department of Mathematical Sciences is available for this course – this includes Coaching Labs and Course Specific Labs held in CBC-C323, and a walk in tutoring clinic held in CDC-7. For more information including location and hours please call (702) 895-3567 or email math@unlv.edu. Additional free and pay tutoring is available in the Academic Success Center, http://academicsuccess.unlv.edu/tutoring.

UNIVERSITY POLICIES:
(1) The Disability Resource Center (DRC) determines accommodations that are “reasonable” in promoting the equal access of a student reporting a disability to the general UNLV learning experience. In so doing, the DRC also balances instructor and departmental interests in maintaining curricular standards so as to best achieve a fair evaluation standard amongst students being assisted. In order for the DRC to be effective it must be considered in the dialog between the faculty and the student who is requesting accommodations. For this reason faculty should only provide students course adjustment after having received this “Academic Accommodation Plan.” If faculty members have any questions regarding the DRC, they should call a DRC counselor.

UNLV complies with the provisions set forth in Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. The DRC is located in the Student Services Complex (SSC-A), Room 143, phone (702) 895-0866, fax (702) 895-0651. For additional information, please visit: http://drc.unlv.edu/.

(2) Any student missing class quizzes, examinations, or any other class or lab work because of observance of religious holidays shall be given an opportunity during that semester to make up missed work. The make-up will apply to the religious holiday absence only. It shall be the responsibility of the student to notify the instructor no later than the last day of late registration of his or her intention to participate in religious holidays which do not fall on state holidays or periods of class recess. This policy shall not apply in the event that administering the test or examination at an alternate time would impose an undue hardship on the instructor or the university which could have been avoided. For additional information, please visit: http://catalog.unlv.edu/content.php?catoid=4&navoid=164

(3) The University requires all members of the University Community to familiarize themselves and to follow copyright and fair use requirements. You are individually and solely responsible for violations of copyright and fair use laws. The university will neither protect nor defend you nor assume any responsibility for employee or student violations of fair use laws. Violations of copyright laws could subject you to federal and state civil penalties and criminal liability, as well as disciplinary action under University policies. Additional information can be found at: http://www.unlv.edu/committees/copyright/.

(4) By policy, faculty and staff should e-mail students’ Rebelmail accounts only. Rebelmail is UNLV’s Official e-mail system for students. It is one of the primary ways students receive official university communication such as information about deadlines, major campus events, and announcements. All UNLV students receive a Rebelmail account after they have been admitted to...

4 of 5 (Math 132, Draft Date: 8.25.2015)
the university. Students’ e-mail prefixes are listed on class rosters. The suffix is always @unlv.nevada.edu.

(5) One-on-one or small group assistance with writing is available free of charge to UNLV students at the Writing Center, located in CDC-3-301. Although walk-in consultations are sometimes available, students with appointments will receive priority assistance.

Appointments may be made in person or by calling 895-3908. The student’s Rebel ID Card, a copy of the assignment (if possible), and two copies of any writing to be reviewed are requested for the consultation. More information can be found at: http://writingcenter.unlv.edu/

(6) The grade of I (Incomplete) can be granted when a student has satisfactorily completed all course work up to the withdrawal date of that semester/session but for reason(s) beyond the student’s control, and acceptable to the instructor, cannot complete the last part of the course, and the instructor believes that the student can finish the course without repeating it. A student who receives an I is responsible for making up whatever work was lacking at the end of the semester. If course requirements are not completed within the time indicated, a grade of F will be recorded and the GPA will be adjusted accordingly. Students who are fulfilling an Incomplete do not register for the course but make individual arrangements with the instructor who assigned the I grade.

GUIDELINES FOR COURTESY AND RESPECT:
I would like to welcome all students into an environment that creates a sense of community pride, courtesy, and respect; we are here to work cooperatively and to learn together.

In order to create a smooth and harmonious learning community, please make every attempt to come to all the class sessions, to come to class on time, and to stay until the end of the meeting. There may be a time when you are unavoidably late for class. In that case, please come into the room quietly and choose a seat closest to the entrance. Once the class session has begun, please do not leave the room and then re-enter unless it is an emergency.

It is important that we are all able to stay focused on the class lecture/discussion. For this reason, only one person at a time in the class should be speaking. Side conversations are distracting for surrounding students and for the professor. All electronic devices should be turned off BEFORE entering the room. You must have instructor permission for use of a laptop, and it is only to be used for instructional purposes.

As you can see, simple norms of courtesy should be sufficient to have our class run in the best interests of all. Any student considered to be a distraction to the learning environment may be asked to leave the classroom at any time. Any student who is continually a distraction to the learning environment may be administratively dropped. Thank you in advance for your cooperation.

OTHER INSTRUCTOR POLICIES: