**Instructor Information**

**Name:** Alok Pandey

**Biography:** After finishing my Masters degree in Mathematics (Operation Research emphasize) from New Mexico Tech, in 1990, I came to Las Vegas and became Programmer/Analyst in the Computer Sciences Corporation. Academics attracted me to UNLV in 1993 when I joined it as a statistician/Programmer. At UNLV I started teaching Finite math course as part-time instructor and in 1997, joined CSN as full-time instructor in the Computer Information Technology (CIT) department. I am native of India and did my Baccalaureate degree in Math, Physics, Statistics and Master of Science degree in Statistics from Allahabad University, India.

**E-Mail:** You can send me an email from the Canvas system, and I will prefer that mode for hybrid sections, especially when you have a question about an online graded quiz/test. Also, if you decide to use my outside of the Canvas system email, please use: alok.pandey@csn.edu Please use “**Math120-hybrid**” followed by your topics in subject line. I will try to answer all emails within 24 hours except on weekends and Fridays.

**Phone:** 702.651.4793. I will not be able to return any calls made from a long distance phone number.

**Office/Mailbox:** Room 2708, Morse Technology building, CSN Cheyenne campus. I don’t have mailbox but if you need to drop a letter or something, please leave with any of the secretaries in my office area and they will deliver it to me.

**Office Hours:**

<table>
<thead>
<tr>
<th>Section</th>
<th>Time</th>
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<tbody>
<tr>
<td>Cheyenne Campus</td>
<td>Tue/Th: 12:30 – 1:30 pm</td>
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<td>Mon, Wed: 9:30 – 12:30</td>
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*For ONLINE classes: we can also meet online or by appointment.*

**Course Information**

**Title:** Fundamentals of College Mathematics, Course number: Math 120

**Prerequisite:** MATH 095 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

**Location(s):** These two sections are in hybrid format, which means that we will meet and discuss problems but all the reading and doing will be student’s responsibilities. These two sections will meet once a week.

- Section 2003 - Room C-1684,
- Section 2004 - Room C-1684

**Time and Days:**

- Section 2003: Tuesday: 11:00 am – 12:20 pm
- Section 2004: Thursday: 11:00 am - 12:20 pm
Textbook: *When are we ever going to use this stuff?, 5th Edition*, by Matovina & Yates. A coil-bound, black & white, printed version of the text can be purchased in any of the CSN Bookstores. A full-color, online version of the text can be found for free by following the above link or click here to get to the e-book. Please don’t try to print this book. It will cost you more money to “xerox” it than to buy a book.

Description: Topics include problem solving, sets, probability, statistics, geometry, and consumer mathematics. It may include logic, mathematical systems, measurement, and graph theory. Course is broad in scope, emphasizing applications.

Outcomes: Upon completion of this course, the student should be able to:

a. Determine the probability and odds of an event.
b. Determine the expected value of an event.
c. Read, create and understand tree diagrams.
d. Work with basic statistical operations.
e. Identify, interpret, and create various statistical graphs and plots.
f. Calculate perimeters and areas.
g. Work with congruent and similar triangles.
h. Solve problems involving simple and compound interest.
i. Perform basic calculations with installment buying and mortgages.
j. Apply and extend all concepts.

Method of Instructions: **Hybrid class:** Students enrolled in these sections will be doing most of the reading themselves. However, their questions will be answered in the class. I want to use the class time to:

1. Answer questions, and clearing any confusion on any topics. In absence of questions I will cover some topic.
2. All exams and quizzes will be given online. Students will be expected to read the text, do the suggested homework problems, and ask questions. Questions appearing on the Quizzes/Exams will come from the material covered in the textbook and/or in the class materials.

Pop-up blocker: Various features in this course, including the required online quizzes, make use of pop-up windows. Thus, to be able to participate in these you MUST disable any "Pop-Up Blocker" software installed on your computer.

Computer Lab at the CSN It is understood that most of you will probably do online quizzes and tests at home on your computers. **Technical problems on your behalf will NOT serve as a valid excuse for missing due dates.** If you are having problems with your computer, feel free to use any computer in the Computer Labs. All information about the computer labs can be found online at [http://www.csn.edu/pages/444.asp](http://www.csn.edu/pages/444.asp).

Calculators: A scientific calculator is required for this class.
CSN’s policy: You can find most of the CSN’s catalog and other policies by visiting following webpage: http://www.csn.edu/pages/2566.asp

ADA Notice: The college’s Disability Resource Center offers accommodations to help students with documented disabilities with their academic pursuits. To learn more about the Americans with Disabilities Act, please visit: http://www.csn.edu/pages/2566.asp

Students with any kind of documented disabilities will need to contact a campus Disability Resource Center (DRC) at following numbers: Cheyenne 651-4045; Charleston 651-5089; Henderson 651-3086. Please visit following webpage for more information about CSN’s disability resource center: http://www.csn.edu/pages/544.asp.

Academic Honesty: Academic dishonesty of any kind will not be tolerated. Any incident of academic dishonesty will be reported to the College, and the most serious course of action will be recommended. For more information on what is considered academic dishonesty, please review the academic integrity policy.

Library Services: Bring your topic or assignment to one of the workshops on the basics of locating and citing quality information and receive in-depth assistance with a librarian. Check out the schedule at http://www.csn.edu/LibraryWorkshops or call 651-5729 for more information.

Withdrawal: Once you are in the class after the withdrawal period, you will get an earned letter grade as your final grade. I will not be able to give ‘W’ grade – this means you must officially withdraw from the course if you want to drop the course.

Changes: The instructor reserves the right to change the course syllabus, schedule, and course policies as necessary. Students will be given appropriate notification in the event of any change.

Attendance: I will not take a roll call. However, it is your responsibility to know what material was covered the class and what instructions were given. On rare occasions I may move the due dates of quizzes and/or exams and I will announce it only in the class. You are responsible for all the information missed due to your absence from the class.

Safety or Risk: Math is NOT considered a risky subject and does not require any safety precautions. All jokes aside, you must be aware of safety procedures CSN follows. CSN has installed emergency phones in all classrooms and phone booths throughout the campus.

Grading Policies

Homework: All questions, at the end of each section of the textbook, will be your homework and you are expected to do them. These assignments are there for your benefit. No textbook assignment will be submitted for grading. We will discuss homework problems in the class and/or during the office hours as per the need of the class. I have noticed that those students who do all the problems have earned much better grades in the class.

Syllabus Quiz: You begin the course by taking a 10-point quiz over the information and policies laid out in this syllabus. You MUST get a perfect score on the Syllabus Quiz (SQ) before you are allowed to take further quizzes. If you do not get a perfect score, review your answers.
and this Syllabus, and then retake the Syllabus Quiz. Any Quiz and/or Exam missed due
to a failure to take or get a perfect score on the Syllabus Quiz will be scored as a zero,
and no make-up work will be allowed or offered for any reason. As an added benefit,
the points earned on the SQ will be included in your Course Grade calculation. Both
sections will take this quiz online on canvas.

Chapter
Quizzes and
makeup:

There will be twelve 10-points, chapter Quizzes, labeled Q1-Q12. Quiz completion
deadlines are listed in the Course calendar. Questions appearing on the Quizzes/Exams
will come from the material covered in the textbook and/or in Supplemental Materials
provided in the course. Any Quiz not taken by the specified deadline will be scored as a
zero. Each Quiz must be completed within the posted time limit. Unless approved by the
instructor, answers saved after time has expired will not be accepted. At the end of the
term, your lowest Quiz score will be dropped, and the total of all points earned on the
remaining graded Quizzes will be included in your Course Grade calculation.

Exams:

There will be three exams. Each exam will cover two chapters of the text and will be
worth 60 points and will have 20 questions of equal value. Questions appearing on the
Exams will come from the material covered in the textbook and/or in Supplemental
Materials provided in the course. Any Exam not taken by the specified deadline will be
scored as a zero. Each Exam must be completed within the posted time limit. At the end
of the term, the total of the points earned on the three exams will be used in your
Course Grade calculation.

Missed Quizzes
or Exams:

There are no acceptable excuses for missing (or failing to complete) a Quiz or Exam. This
includes technical difficulties (or other computer problems), children, illness, traffic
court, vacations, or any other legitimate (or imaginary) problems. Quizzes and Exams
either are available for an extended period of time or their dates have been announced
early enough so that students can make appropriate arrangements to complete the
required work. Thus, any missed Quiz or Exam will be scored as a zero and any partially
completed Quiz or Exam will be scored, as is. Furthermore, no make-up work of any
kind will be offered.

NOTE: This policy does not conflict with the Religious Holidays policy. Observance of a
religious holiday allows the student to reschedule any corresponding work, and
rescheduling something in advance is significantly different than making up missed
work.

Computer
Grading:

All ungraded quizzes or exams will be displayed as zero. It is important to note that
some of the quizzes and exams in this course will be completed online, and graded by
the computer. You must double check your mistakes and in those cases computer may
have made mistake (like rounding error), please let me know ASAP. You are more than
welcome to use your calculator, textbook, and any course notes you feel will help, but
you are expected to complete the work without any assistance from another person.
With that in mind, you will be 100% accountable for the answers you provide, and, thus,
no partial credit will be awarded for incorrect answers.

Also, since the computer will perform the grading in this course, you are to provide your answers with no attempt to show any work or intermediate step(s). Any attempt to show work as to how you arrived at a specific answer will be viewed by the computer as unnecessary and, hence, your answer will be deemed incorrect. However, if you save your work on paper it may be useful when you review your work.

As it is possible for the computer to fail to recognize alternate forms of correct answers (Example: If the correct answer is the number "10," an answer of the word "ten" may be marked wrong by the computer), it will be in your best interests to review every Quiz & Exam after it has been graded. If you wish to question the grading of a particular answer, you are encouraged to do so. If you have an answer and if you believe it was incorrectly marked wrong, it is your responsibility to contact the instructor for a possible adjustment to your score.

Your quiz and exams’ results will be available soon after the deadline for the corresponding quiz or exam, as mentioned in the calendar or course schedule, is over.

Extra Credit: Absolutely no extra credit will be offered in this course. Simply put, those in need of additional points should be spending their time studying the requisite material for the course. And, those who do not need to put in the extra time studying will not be in need of the extra points.

Time Limits: Each of the Chapter Quizzes and Exams in this course have time limits AND deadlines. Posted deadlines have priority over time limits. For example, if the Quiz has a time limit of 30 minutes and a deadline of 8 PM on a specified date, and you begin the Quiz at 7:45 PM on that due date, it will get cut off at 8 PM, thereby giving you only 15 minutes to do the Quiz.

Calculation: Point totals will be rounded to the nearest hundredth of a point, and no +/- grades will be issued.

Grades will consist of:

<table>
<thead>
<tr>
<th>Syllabus Quiz:</th>
<th>10</th>
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<tbody>
<tr>
<td>11 Highest Chapter Quizzes:</td>
<td>110</td>
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<tr>
<td>Three exams:</td>
<td>180</td>
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<tr>
<td>Total Points:</td>
<td>300</td>
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Grades will be assigned as:

- 270.00-300.00 points: A
- 240.00-269.99 points: B
- 210.00-239.99 points: C
- 180.00-209.99 points: D
- Below 180 points: F

This means quizzes are 40% and exams are worth 60% of the total grade.

Tips For Success

Ask for Help: If you find yourself falling behind or become even the slightest bit confused, seek help immediately! Feel free to call or e-mail me at any time. You should receive a response within 24 hours.
Tutoring: Each student receives free tutoring for each class in which they are registered. Additionally, there is an open Math Resource Centers on the Charleston, Cheyenne, and Henderson Campuses. These Centers are staffed with tutors and instructors, and their use is free of charge. Visit [http://sites.csn.edu/math/mrc.htm](http://sites.csn.edu/math/mrc.htm) for more information.

Do not wait for deadlines: Do not wait until the last minute to begin a quiz or exam. You are strongly advised to complete each quiz and exam at least a day or two before the deadline. That way, if you run into a technical problem, there will be enough time to resolve the issue before the actual deadline. Remember, no make-up work will be offered, for any reason.

Affirmations: Stop saying "I am not good at math." The more you say it, the more likely you are to fail. Instead, start telling yourself "I can do this." Also, Don't get discouraged by mistakes; profit by them. Always take the time to review your work and graded quizzes. The best way to start reducing the number of careless mistakes is to identify the kind of mistakes you are prone to making. That way, you know what to look for when working future problems.
Math120, Spring-15, Pandey

**Math-120 Material Schedule** (Subject to change with prior notice)

<table>
<thead>
<tr>
<th>Date</th>
<th>Reading/Material covered in the class</th>
<th>Assignment &amp; Quiz &amp; Exams</th>
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<tbody>
<tr>
<td>Week 1 (Jan 20 - 24)</td>
<td>Read Syllabus, Familiarize with the syllabus. Start reading first chapter of the Text-Section-1.1, 1.2, 1.3 (percent, markup, mark down, and Simple &amp; Compound interest )</td>
<td>Syllabus Quiz: ASAP (online) Assignment: Page 23-26 (all problems)</td>
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<td>Assignment: Page 33–37 (all problems)</td>
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<tr>
<td>Week 2 (Jan 25– 31)</td>
<td>Installment buying &amp; Credit Card (Section 1.4, 1.5). Technical stuff at the end of Ch-1</td>
<td>Assignment: Pages 46- 50 (all problems)</td>
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<td>Assignment: Pages 59-63 (all problems)</td>
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<td>Quiz 1 Due, Fri, 1/30, 8PM</td>
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<tr>
<td>Week 3 (Feb 1 – 7)</td>
<td>Sets and Venn Diagram giants (2.1), Set concepts, subsets and cardinality (2.2, &amp; 2.3)</td>
<td>Assignment: Pages 79-81 (all problems)</td>
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<td></td>
<td></td>
<td>Assignment: Pages 90-93(all problems)</td>
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<td>Quiz 2 Due, Fri, 2/6, 8PM</td>
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<tr>
<td>Week 4 (Feb 8 – 14)</td>
<td>Venn Diagrams, its applications (2.4, &amp; 2.5) Technical stuff at the end of Ch-2</td>
<td>Assignment: Pg: 103-105 (all problems)</td>
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<td>Assignment: Pg: 113-116 (all problems)</td>
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<td>Quiz 3 Due, Fri, 2/13, 8PM</td>
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<tr>
<td>Week 5 (Feb 15 – 21)</td>
<td><strong>No class this week. Quiz-4 Due, Wed 2/18, 8PM</strong></td>
<td>Exam 1 (Chap 1 &amp; 2) Due Sat 2/21</td>
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<tr>
<td>Week 6 (Feb 22 – 28)</td>
<td>Statistics’s giants (3.1), Mean, median, range, and mode (3.2), Percentile and Quartile, boxplot (3.3)</td>
<td>Assignment: pg: 131-133 (all problems)</td>
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<td>Assignment: pg: 140-143 (all problems)</td>
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<td>Quiz 5 Due, Fri, 2/27, 8PM</td>
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<td>Week 7 (Mar 1 - 7)</td>
<td>Boxplot(3.3), Pretty Pictures (3.4), Is anything Normal (3.5), and Lies (3.6) Technical stuff at the end of ch-3</td>
<td>Assignment: Pg 150–52 (all problems)</td>
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<td>Assignment: Pg:164-69(all problems)</td>
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<td>Assignment: Pg:174-76(all problems)</td>
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<td>Quiz 6 Due, Fri, 3/6, 8PM</td>
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<td>Week 8 (Mar 8 – 14)</td>
<td>Probability : giants (4.1) and Counting on you (4.2)</td>
<td>Assignment: pg: 196-98 (all problems)</td>
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<td>Quiz 7 Due, Fri, 3/13, 8PM</td>
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<td>Week 9 (Mar 16 – 22)</td>
<td><strong>No classes – Spring Break</strong></td>
<td>Exam 2 (Chap 3 &amp; 4) Due, Sat, 4/4, 8PM</td>
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<tr>
<td>Week 10 (Mar 22 – 28)</td>
<td>Simple Probability and Odds (4.3), Compound Probability (4.4) and expected value (4.5) Technical stuff at the end of ch-4</td>
<td>Assignment: pg: 208-14 (all problems)</td>
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<td>Assignment: pg: 224-28 (all problems)</td>
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<td>Assignment: pg: 239-41 (all problems)</td>
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<td>Quiz 8 Due, Fri, 3/28, 8PM</td>
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<tr>
<td>Week 11 (Mar 29 – Apr 4)</td>
<td><strong>Review Chapter 3 &amp; 4 Exam 2 (Chap 3 &amp; 4) Due, Sat, 4/4, 8PM</strong></td>
<td>Assignment: pg: 267-73 (all problems)</td>
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<tr>
<td>Week 12 (Apr 5 – 11)</td>
<td>Geometry: giants (5.1), Right and similar triangle (5.2)</td>
<td>Assignment: pg: 281–83 (all problems)</td>
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<td>Quiz 9 Due, 4/10, 8PM</td>
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<td>Week 13 (Apr 12 – 18)</td>
<td>Polygons, perimeter, area and Circles (5.3, 5.4 and 5.5) Technical stuff at the end of ch-5</td>
<td>Assignment: pg: 292-96 (all problems)</td>
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<td>Assignment: pg: 300-02 (all problems)</td>
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<td>Quiz 10 Due, Fri, 4/17, 8PM</td>
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<td>Week 14 (Apr 19 – 25)</td>
<td>Voting and apportionment: 6.1, winner is (6.2)</td>
<td>Assignment: pg: 379-86 (All)</td>
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<td>Quiz-11 Due, Fri, 4/24, 8PM</td>
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<td>Week 15 (Apr 26 – May 2)</td>
<td>Dummies and dictators (6.3), who gets the bigger (6.4 &amp; 6.5) Technical stuff at the end of ch-6</td>
<td>Assignment: all questions at the end of sections 6.3, 6.4 and 6.5</td>
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<td>Quiz-12 Due, Fri, 5/1</td>
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<tr>
<td>Week 16 &amp; Final’s week</td>
<td>Exam-3</td>
<td>Due, Sat 5/1</td>
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