Math 120 – Quantitative Reasoning
Syllabus – Fall 2018 (Web)

Instructor: Kelvin Holmes
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Office: Hume Hall 222
Office Hours: MW 10:00-11:00
TH 12:30 – 1:30
F 9:00 – 10:00
All Other Times by Appointment

SOFTWARE (REQUIRED): Hawkes Learning Systems, Viewing Life Mathematically
You must purchase an access code at the book store or one can be purchased on the website: learn.hawkeslearning.com upon registration.

COURSE DESCRIPTION
This is a semester course in Quantitative Reasoning. Topics include set theory, statistical reasoning, logical statements and arguments, personal business applications, estimations, and approximation.

COURSE OBJECTIVES – STUDENTS WHO SUCCESSFULLY COMPLETE MATH 120 WILL BE ABLE TO:

• Using Polya’s problem solving steps in estimation
• Using deductive reasoning in estimation
• Estimating using graphs
• Develop an understanding of set operations
• Use Venn Diagrams to represent sets and solve problems with sets
• Solve problems involving survey analysis
• Construct truth tables and statements using logic symbols
• Determine the validity of formal arguments
• Identify common fallacies in arguments
• Distinguish between sampling techniques
• Interpret different types of graphs
• Calculate numerical descriptors of data, such as measures of center, variance, and standard deviation
• Create a budget
• Calculate sales prices and discounts
• Calculate percentage increase/reduce
• Calculate simple and compound interest
• Understand present and future value
• Understand savings plans
• Calculate annual percentage yield, monthly payments, and credit card payments

HOMEWORK
An applied math course is not a spectator sport; it requires active participation and repetitive PRACTICE. You can “study,” you can “review,” and you can watch someone do examples; however, above all else, you must PRACTICE. The homework assignments that have been created for each section of material are intended to prepare you for the unit tests. They are VERY useful and powerful tools, as the unit tests will be built from these assignments. It is suggested that you do ALL of them not just for the points that they contribute to your overall grade, but also to maximize your test scores!

• You must complete the “COURSE AGREEMENT CONTRACT” in Hawkes (from any computer) before you have access to any homework assignment, quiz, practice test, or test.
• Homework is assigned for each section covered, and will count as 10% of your overall grade.
• Please see the course calendar for due dates. All homework is due by the start of the testing dates for that unit.
• Read through the “Learn” mode (or the eBook for a deeper presentation) of each section (watch the videos!).
• Work through the “Practice” mode of each section (utilize the tutor tab when needed!).
When you have gone through “Learn” and “Practice,” complete the assignment in the “Certify” mode.
You should keep a “homework” notebook of all problems worked for your review and for potential questions.
In order to receive credit for homework, it must be done in the “CERTIFY” mode.
Each “Certify” assignment contains the same question set as the respective “Practice.”
Questions will be similar in format to the examples in class.
Homework assignments will be done in web-based Hawkes. Homework can be completed at any location of your choice (Home, JAC Lab, Library, Weir Hall, etc.).
Each assignment is an “all or nothing” proposition. You must answer 70% of the questions in an assignment correctly in order to “Certify” and receive credit for that assignment.
You have 2 attempts at each question before it is considered a “Strike.”
Accruing more “Strikes” than allowed in the “Certify” mode will force you to restart the assignment from the beginning.
Assignments must be submitted by 11:59pm on the posted due date to receive full credit.
Late homework incurs a 50% penalty.
Assignments can still be completed up until the Sunday before final exams, late penalty still being applied.
Any non-submitted homework assignment will be given a grade of zero (0).

At least one homework scores will be dropped.

REVIEW TESTS
A review test will be created for each of the unit tests as well as for the final exam. Like the homework, these practice tests are VERY useful and powerful tools. Each unit test will be built directly from its respective practice test (practice tests are built directly from the quizzes). It is suggested that you work EACH of them prior to the actual test. In addition to gaining essential practice, you will receive BONUS POINTS based on your practice test scores.

Please see the course calendar within Hawkes for due dates/times.

Review tests are untimed (you should time yourself to get used to a clock—about 90 minutes should be the max).

Questions will be similar in format to the examples in class, homework, and quizzes.

Review tests will be taken in web-based Hawkes.

Review tests can be completed at the location of your choice (Home, JAC Lab, Library, Weir Hall, etc.).

You have an unlimited number of attempts for each test, achieving mastery to get full credit.

Practice tests must be submitted by the posted deadlines to receive credit.

Your practice test average can add up to a total of three (3) percentage points to your overall course grade.

Quizzes

There will be quizzes during the semester.

Pre-requisite: The corresponding homework for each quiz must be certified before you can attempt the quiz.

Quizzes have a sixty (60) minute time limit.

You will be allowed two (2) attempts per quiz; only your best score is recorded.

You have the ability to review the first attempt before using the second attempt.

Questions will be similar in format to the examples in class and homework problems.

Quizzes can be taken at a place of your convenience.

Tutors in the Mathematics Lab CANNOT help you on quizzes.

You must arrive at the correct answer to receive credit; partial credit will only be awarded in rare circumstances (and only if you use both attempts).

Quizzes must be completed by the posted deadlines to receive credit.

Your quiz average will count as 15% of your overall grade.

If a quiz is missed for ANY reason, a grade of zero (0) will be given.

THERE ARE NO MAKE-UP QUIZZES GIVEN FOR ANY REASON.

At least one quiz grade will be dropped
TESTS
- There will be four (4) unit tests during the semester.
- Tests will have a sixty minute (60) time limit.
- Please see the course calendar for sections covered and dates.
- Questions will be similar in format to examples in class, homework, quizzes, and the practice tests on Hawkes.
- All exams are proctored. They must be taken at the designated proctoring location: JAC Math lab, a regional branch, or through Proctur U.
- You must arrive at the correct answer to receive credit; partial credit will only be awarded in rare circumstances.
- Each test will count as 12.5% (for a total of 50%) of your overall grade.
- If a test is missed for ANY reason, a grade of zero (0) will be given.
- THERE ARE NO MAKE-UP TESTS GIVEN FOR ANY REASON.
- Any student who must miss a scheduled test due to an official University function must reschedule and take the test at a time BEFORE the test is scheduled to be given (this includes the final exam). NO OTHER rescheduling will be allowed. Signed documentation on University letterhead is required.
- The lowest of the four unit test grades will be dropped.

FINAL EXAM
- There will be a comprehensive final exam in this course.
- The final exam review will be built from the four unit tests AND quizzes.
- There will be a two-hour (120 minute) time limit on the final exam.
- You must arrive at the correct answer to receive credit; partial credit will only be awarded in rare circumstances.
- The final exam will count as 25% of your overall grade (38.75% if higher than the lowest unit test grade).

ATTENDANCE POLICY
It is the philosophy of both the Department of Mathematics and the University that regular class attendance is conducive to learning and mastering the material, and as such, we suggest attending each and every class; however, we realize that this is an unrealistic expectation of some students. The attendance policy for this class is as follows:

- Students are allowed a cumulative total of three (3) absences without penalty.
- Students who accumulate more absences than allowed will have one (1) percentage point deducted from their final average for each absence above the limit.
- There is no such thing as an “excused” absence, other than having to miss class for an official University function.
- If you must miss due to an official University function, then you must inform the instructor beforehand, and documentation must be provided by the convening authority.
- It is the student’s responsibility to make sure that their attendance record is correct.
- Quizzes are used to determine whether or not you are present.
- Failure to take a quiz or a test will result in an absence for that week.
- Note: Students who do not complete the discussion posts within the first two weeks of the semester may be dropped from the roll!
• TUTORING: Mathematics tutoring (FREE!) will occur in the J.D. Williams Library Commons. The Commons is on the bottom floor of the J.D. Williams Library. No appointment is necessary. A deskworker is stationed near the reference desk and can point you in the direction of a tutor. Tutoring hours are listed below, along with a map of the 1st floor of the Library.

- Monday: 10am-8pm  
- Tuesday: 10am-8pm  
- Wednesday: 10am-8pm  
- Thursday: 10am-8pm  
- Friday: 10am-2pm

TESTING

- Students in Math 120 will take all tests in Hawkes in the Mathematics Lab at the Jackson Avenue Center. If you are not able to make it to the Math Lab in Oxford, you can schedule your test at one of the Ole Miss branch locations or through Proctor U.
- If you are registered through SDS at the Oxford campus, you will take your tests in Hume 221.
- Tests will run on Wednesday, Thursday, and Friday on test weeks during regular lab hours.
- In order to take a test, students must schedule an appointment. The lab will not accept walk-ups. Test scheduling is done at http://ummathlab.appointy.com/.
- Note that you must use your olemiss.edu email address when you register.
For assistance with scheduling/rescheduling, email: mathlab@olemiss.edu.

In order to avoid disturbing other test takers, students MUST be on time for their appointment (10 minutes early would be better). If a student is more than 5 minutes late, their appointment will be cancelled and they will not be allowed to enter the lab. The student will then have to go back to appointy and reschedule their test.

If you do not have a commuter or park & ride parking sticker, you may utilize the OUT Shuttle (Bronze Line). Please see http://www.oxfordms.net/visitors/transit/bus-routes-a-schedules.html. The Bronze Line runs every 5-10 minutes between JAC and Paris-Yates Chapel. Other stops are Guyton Hall and the ROTC building.

Each student is required to bring his or her Ole Miss ID card to the lab so that you can get checked in.

Absolutely no cell phones, laptops, or food are allowed in the Math Lab testing area.

Math Lab Hours: Monday-Thursday 9:00am-7:00pm; Friday 9:00am-5:00pm

Cell phones and smart watches must be turned off and stowed during tests.

CALCULATORS
A scientific calculator is sufficient for this course. We suggest the TI-30XS Multiview calculator. Graphing calculators are not allowed in this course as well as any calculator with Computer Algebra System and/or a QWERTY key board. This includes, but is not limited to, TI-89, TI-92, Casio Algebra FX 2.0, and TI Multi-View calculators. Note that calculators might not be allowed on certain tests.

ELECTRONIC DEVICES
Cell phones, laptops, pagers, and other electronic devices shall be silenced and stowed during lectures. The instructor reserves the right to remove any student caught using these devices during a lecture.

ACADEMIC MISCONDUCT
The following statement is the policy of the Department of Mathematics regarding cheating:

Offenses: Cheating on any exam or quiz, theft or attempted theft of exam questions, possession of exam questions prior to the time for examination, the possession of a cell phone, or the use of a personal calculator on tests shall all be offenses subject to appropriate penalties. Furthermore, the presence of any mathematics (review tests, etc.) during tests shall be subject to the appropriate penalty.

Penalties: The penalty for commission of any offense set out above is a zero (0) on the exam in question, and a recommendation of failure in the course to the Academic Discipline Committee. Furthermore, if you are found guilty of cheating, then the penalty could also include, subject to the approval of the Chancellor, dismissal or suspension from the University. Please note that any grade of zero (0) given for cheating will not be replaced if the Academic Discipline Committee does not follow the recommendation of course failure.

WITHDRAWAL DEADLINE
Monday, March 4th is the course withdrawal deadline. After the Course Withdrawal Deadline, courses dropped will be recorded on University records, and the W grade will be recorded if the student is not failing the course at the time of withdrawal; otherwise the grade recorded will be an F. After the course withdrawal deadline, a student may drop a course only in cases of extreme and unavoidable emergency as determined by the academic dean; dropping a course after the deadline will not be permitted because of dissatisfaction over an expected grade or because the student is changing his or her major.

SPECIAL NEEDS
Disability Access and Inclusion: The University of Mississippi is committed to the creation of inclusive learning environments for all students. If there are aspects of the instruction or design of this course that result in barriers to your full inclusion and participation, or to accurate assessment of your achievement, please contact the course instructor as soon as possible. Barriers may include, but are not necessarily limited to, timed exams and in-class assignments, difficulty with the acquisition of lecture content, inaccessible web content, and the use
of non-captioned or non-transcribed video and audio files. If you are approved through SDS, you must log in to your Rebel Access portal at https://sds.olemiss.edu to request approved accommodations. If you are NOT approved through SDS, you must contact Student Disability Services at 662-915-7128 so the office can: 1. determine your eligibility for accommodations, 2. disseminate to your instructors a Faculty Notification Letter, 3. facilitate the removal of barriers, and 4. ensure you have equal access to the same opportunities for success that are available to all students.

To receive accommodations on tests, SDS accommodations must be requested no later than 5:00pm on the Friday before a test week begins.

OTHER NOTES

- If a student wishes to discuss the grading policy, the testing policy, or wishes to have any conversation regarding the instructor of the course, please make an appointment with the course supervisor in the Department of Mathematics.
- An "I" grade will not be given without the permission of the Department of Mathematics.

A LAST WORD

- Keep up! You will need to be comfortable with the material from the beginning of the course to be successful in the end.
- Try reading the sections ahead of time to get an idea of the material before class. After class, read back over the section for understanding and work through “Practice.”
- Make use of all of the resources provided within Hawkes and on Blackboard (such as videos and PowerPoints).
- You can stop by anytime during my office hours or email me to set up an appointment at another time. Help will be much more effective if you know what it is that you don’t understand, and if you bring specific questions from lecture or from Hawkes!
- When communicating via email, please include your course and the days/time your class meets.
- All emails will be answered within two (2) business days. I reply to emails at various times throughout the day, but I generally do not reply after 7:00 p.m. (nor on weekends).

OVERALL GRADE

The following scale will be used to determine your overall grade:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage Necessary</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 – 100%</td>
</tr>
<tr>
<td>A−</td>
<td>88 – 89.99%</td>
</tr>
<tr>
<td>B+</td>
<td>86 – 87.99%</td>
</tr>
<tr>
<td>B</td>
<td>80 – 85.99%</td>
</tr>
<tr>
<td>B−</td>
<td>78 – 79.99%</td>
</tr>
<tr>
<td>C+</td>
<td>76 – 77.99%</td>
</tr>
<tr>
<td>C</td>
<td>70 – 75.99%</td>
</tr>
<tr>
<td>C−</td>
<td>68 – 69.99%</td>
</tr>
<tr>
<td>D</td>
<td>60 – 67.99%</td>
</tr>
<tr>
<td>F</td>
<td>0 – 59.99%</td>
</tr>
</tbody>
</table>

Where Test Avg. = (Add the 4 highest of the tests and Final Exam) ÷ 4

Percentage = 0.50*(Test Avg.) + 0.25*(Final Exam) + 0.10*(HW Avg.) + 0.15*(Quiz Avg.) + 0.03*(Review Test Avg.)
Student Directions

Instructor Name: Kelvin Holmes

Section Name: Math 120 – Section (choose correct section)

Create Your Hawkes Account
Go to learn.hawkeslearning.com and click New User to create an account.

   Enter your Access Code in the New User Setup page.
2. Fill out the form with your information or confirm the preloaded information.
3. Set your password, time zone, and security questions.
4. Add a profile image.

Enroll in Your Course
Select your instructor and section from the drop-down menus and click Enroll.

You are now ready to complete assignments for this course!

Explore Your Course
Watch the Video Tour located under the profile menu to learn more about Hawkes.

- The Dashboard includes your course information and the mini To-Do List.
- The To-Do List shows you when you need to complete homework or take a test.
- The Navigation Toolbar contains links to important tools such as your grades, eBooks, the notifications center, and messages.

Complete Your Homework
Each lesson involves three phases: Learn, Practice, and Certify. Use Learn and Practice to learn the concepts and work out practice problems. When you feel confident in the material, move to Certify to complete your homework.

For additional help, go to http://www.hawkestv.com to watch videos on every lesson.

Get Help
If you have any questions about registering your email address and password, enrolling in your course, or using the site, please contact Hawkes Technical Support.

Phone: 800.426.9538
Phone Hours: Monday - Friday, 8:30am - 10:00pm ET
Online Chat Support: http://www.hawkeslearning.com/chat
Chat Hours: 24 hours a day, 7 days a week
Technical Support Email: support@hawkeslearning.com