Prerequisite Placement into the course via ACT score and MPE exam, or DMA 096C with a grade of C or better.

Professor Dr. David K. Neal   COHH 4108   745-6213   david.neal@wku.edu

Office Hrs MW 2:05 – 2:50;   TR 1:30 – 2:15; or by appointment.

Text No text is required. Course notes, exercises, and practice exams will be provided in pdf format at **http://people.wku.edu/david.neal/183/**

Calculator The TI-83+ or 84+ is required. Most calculations will be done with built-in calculator functions. Please bring your calculator to each class.

Course Description **MATH 183** is an introduction to the theory and application of statistics. Topics include descriptive statistics; basic probability, normal and t-distributions; confidence intervals and hypothesis tests for means and proportions and for differences of means and proportions; chi-square tests; correlation; regression.

MATH 183 counts toward the major in Middle Grades Mathematics but it does not count as credit toward the general mathematics major or minor. MATH 183 does satisfy the Colonnade Quantitative Reasoning requirement. It is recommended for science and nursing students who need non-calculus based statistics.

MATH 183 is not a remedial class. It is a university-level MATH course taught in the Ogden College of Science and Engineering; therefore, it is rigorous and demanding. You should think carefully about whether or not this is the right class for you in terms of your needs, desires, and academic abilities. You probably should not attempt a class that would be over your head, or that would require more effort than you are willing or able to put forth in order to earn the grade that you desire.

Attendance Policy

WKU policy states that "Registration in this course obligates you to be regular and punctual in class attendance." Therefore, attendance is required and students are expected to attend class. Please do not ask to be excused from class in order to do other academic or personal activities.

Testing Procedure

There will be approximately 30 pages of test material throughout the semester usually given one or two pages at a time as a quiz at the end of class, with a final quiz/short test during the final exam period. You must be in class to take these quizzes. If you miss class, then you will get a 0 for that quiz. That should never be a problem since you are required to attend class.   Your final grade will be the average of all these quizzes along with any other small ancillary assignments I may happen to give.

Grading Scale

A: Final Average $\geq 93\%$ B: $85\% \leq$ Final Average $< 93\%$

C: $75\% \leq$ Final Average $< 85\%$ D: $70\% \leq$ Final Average $< 75\%$

There will be no curve to the above grading scale.

Learning Outcomes

Quantitative Reasoning courses teach students to interpret, illustrate, and communicate mathematical and/or statistical ideas. Students will learn to model and solve such problems. In general, successful students will demonstrate the ability to:

1. Interpret information presented in mathematical and/or statistical forms.
2. Illustrate and communicate mathematical and/or statistical information symbolically, visually and/or numerically.
3. Determine when computations are needed and execute the appropriate computations.
4. Apply an appropriate model to the problem to be solved.
5. Make inferences, evaluate assumptions, and assess limitations in estimation modelling and/or statistical analysis.

Specifically, successful students in this section will demonstrate proficiency in the ability to correctly work problems and properly explain and/or interpret results in each of the various statistical topics that are included in the course.

Withdrawal Date

March 9, 2018 is the last day to withdraw from the course with a grade of W or to change enrollment from credit to audit.

Mathematics Tutor Lab

For extra help in the class, tutors may be available in the Math Lab in COHH and in the Student Learning Center. Please check at these facilities for the specific times and availability of tutors.

ADA Accommodation Statement

In compliance with University policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Student Accessibility Resource Center located in Downing Student Union, 1074. SARC can be reached by phone number at 270-745-5004 [270-745-3030 TTY] or via email at sarc.connect@wku.edu . Please do not request accommodations directly from the professor or instructor without a faculty notification letter (FNL) from The Student Accessibility Resource Center.

Title IX Misconduct/Assault Statement

Western Kentucky University (WKU) is committed to supporting faculty, staff and students by upholding WKU's Title IX Sexual Misconduct/Assault Policy (#0.2070) at https://wku.edu/eoo/documents/titleix/wkutitleixpolicyandgrievanceprocedure.pdf

and WKU's Discrimination and Harassment Policy (#0.2040) at https://wku.edu/policies/hr_policies/2040_discrimination_harassment_policy.pdf.

Under these policies, discrimination, harassment and/or sexual misconduct based on sex/gender are prohibited. If you experience an incident of sex/gender-based discrimination, harassment and/or sexual misconduct, you are encouraged to report it to the Title IX Coordinator, Andrea Anderson, 270-745-5398 or Title IX Investigators, Michael Crowe, 270-745-5429 or Joshua Hayes, 270-745-5121.

Please note that while you may report an incident of sex/gender based discrimination, harassment and/or sexual misconduct to a faculty member, WKU faculty are "Responsible Employees" of the University and **MUST** report what you share to WKU's Title IX Coordinator or Title IX Investigator. If you would like to speak with someone who may be able to afford you confidentiality, you may contact WKU's Counseling and Testing Center at 270-745-3159.