



Master of Science

Information Technology and Administrative Management

General Course Syllabus

ADMG 545 Research and Statistical Analysis of Data 4 Credits

Course Description

Introduces research design and the use of statistical software to collect and analyze data to improve organizational decisions. The focus is on applying statistical tools to find answers to practical IT and administrative management questions.

Co- or prerequisite: ADMG 501



Learner Outcomes

Demonstrate, use, and explain basic statistical terms, sampling, distribution, and concepts

Select and apply appropriate descriptive statistics, measures, and tools to collect and analyze data

Research and write a literature review

Properly state, test, and interpret hypotheses

Develop conclusions and recommendations based on data collection

Assessments

The student will complete assignments to demonstrate knowledge and application of descriptive statistics.

The student will complete readings and assignments to demonstrate selection and application of statistical techniques.

The student will complete an appropriate literature review.

The student will complete an assignment(s) to demonstrate ability to state, test, and interpret hypotheses.

The student will complete an assignment(s) to demonstrate ability to properly interpret data to write appropriate conclusions and recommendations.

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Design and implement an action research plan based on organization information needs

The student will complete an action research report.

Present an action research project

The student will complete an appropriate verbal presentation of the action research project.

Specific course faculty and materials vary by quarter. Current information can be found on MyCWU and Canvas LMS.

ITAM classes are often offered in online, hybrid, or traditional formats. Visit my.cwu.edu for complete details.

University Policy on Academic Integrity

Academic Integrity is a standard set for this course. Students are expected to complete all of their coursework and assignments using their original words and ideas and will properly cite the words and ideas of others. Students are also expected to be honest in their interactions with the instructor. A student found to have not upheld these expectations is subject to failing this course and shall be subject to disciplinary action or sanction.

[WAC 106-125-020](#) defines the term “academic dishonesty” in all its forms including cheating, plagiarism, and fabrication. This can include:

- cheating on tests;
- copying from another student’s test paper;
- using materials during a test not authorized by the person giving the test;
- collaboration with any other person during a test without authority;

- knowingly obtaining, using, buying, selling, transporting, or soliciting in whole or in part the contents of an un-administered test or information about an un-administered test;
- bribing any other person to obtain an un-administered test or information about an un-administered test; substitution for another student or permitting any other person to substitute for oneself to take a test;
- plagiarism, which shall mean the appropriation of any other person's work and the unacknowledged incorporation of that work in one's own work offered for credit;
- collusion, which shall mean the unauthorized collaboration with any other person in preparing work offered for credit.

University Policy on Special Needs

Central Washington University is committed to creating a learning environment that meets the needs of its diverse student body. If you anticipate or experience any obstacles to learning, contact Disability Services to discuss a range of available options. Student Disability Services is located in Hogue 126. Call 509.963.2214 or email ds@cwu.edu for more information. www.cwu.edu/disability-support

CWU Writing Center

Central Washington University is a community of scholars and writers who are supported by the University Writing Center. Peer consultants guide students of all disciplines and all levels toward communication that will be effective in a global and diverse environment. <http://www.cwu.edu/learning-commons/university-writing-center>

Diversity at CWU

CWU expects every member of the university community to contribute to an inclusive and respectful culture for all in its classrooms, work environments, and at campus events.