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Ads Book Preface Many students in the behavioral sciences view the required statistics course as an intimidating obstacle that has been placed in the middle of an otherwise interesting curriculum. They want to learn about human behaviorâ€”not about math and science. As a result, the statistics course is seen as irrelevant to their education and career goals. However, as long as the behavioral sciences are founded in science, knowledge of statistics will be necessary. Statistical procedures provide researchers with objective and systematic methods for describing and interpreting their research results. Scientific research is the system that we use to gather information, and statistics are the tools that we use to distill the information into sensible and justified conclusions. The goal of this book is not only to teach the methods of statistics, but also to convey the basic principles of objectivity and logic that are essential for science and valuable for decision making in everyday life. Those of you who are familiar with previous editions of *Statistics for the Behavioral Sciences* will notice that some changes have been made. Over the years, they have provided honest and useful feedback. Their hard work and perseverance has made our writing and teaching most rewarding. We sincerely thank them. We begin with descriptive statistics, and then examine a variety of statistical procedures focused on sample means and variance before moving on to correlational methods and nonparametric statistics. Information about modifying this sequence is presented in the *To The Instructor* section for individuals who prefer a different organization. Each chapter contains numerous examples, many based on actual research studies, learning checks, a summary and list of key terms, and a set of 20â€”30 problems. Ancillaries Ancillaries for this edition include the following. Through paths of dynamic assignments and applications that you can personalize, real-time course analytics, and an accessible reader, MindTap helps you turn cookie cutter into cutting edge, apathy into engagement, and memorizers into higher-level thinkers. As an instructor using MindTap you have at your fingertips the right content and unique set of tools curated specifically for your course, such as video tutorials that walk students through various concepts and interactive problem tutorials that provide students opportunities to practice what they have learned, all in an interface designed to improve workflow and save time when planning lessons and course structure. The control to build and personalize your course is all yours, focusing on the most relevant material while also lowering costs for your students. Stay connected and informed in your course through real time student tracking that provides the opportunity to adjust the course as needed based on analytics of interactivity in the course. The learning objectives are correlated with the discussion topics, student activities, and media tools. You can create multiple test versions in an instant and deliver tests from your LMS in your classroom.

Chapter 2 : Statistics for the Behavioral Sciences by Frederick J. Gravetter

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A major in statistics and a minor in any of the other related areas, such as mathematics, computer science, agriculture, biological sciences or social sciences provide a good blend of training suitable for many jobs in industry, government and academic institutions. It is becoming increasingly important for those in other disciplines to have good familiarity with basic statistical techniques and inference procedures. Two undergraduate minors are offered, one in applied statistics and the second in statistics. A graduate certificate in statistics is also available. A mathematics and statistics double major, the pre-actuarial science option and a degree in behavioral statistics are offered at the undergraduate level. The department provides opportunities to study both applied and theoretical aspects of statistics. Computers are extensively used in statistics instruction, and statistical software packages and programs are utilized in various courses. Data analysis is an important aspect in applied statistics courses. Career Opportunities There are excellent opportunities in statistics. Major corporations and most government agencies continually look for talented individuals with this type of education. Since even greater job opportunities are open to those with advanced statistical training, many undergraduates proceed directly to graduate work in statistics. Many students combine statistics with areas such as business, education, economics or biology. Career opportunities are varied. Statisticians work closely with other scientists and researchers to develop new statistical techniques, adapt existing techniques, design experiments and direct analyses of surveys and retrospective studies. News and World Report. The Facilities The campus has several computer clusters connected to the campus network and the Internet. Computer consultants are available to assist students if programming help is needed. Statistics Curriculum For a statistics major, 12 to 15 credits in mathematics, three to seven credits in computer science and 22 to 25 credits in statistics are required. A minor in one of the following areas is also required: Students interested in biostatistics may minor in biological sciences, approved by the chair of the Department of Biological Sciences. A student interested in business statistics may minor in business administration. Pre-Actuarial Option A joint degree with mathematics with a pre-actuarial science option is also available. Behavioral Statistics Requirements The behavioral statistics degree is a joint effort between the Department of Statistics and the Department of Psychology. Students wishing to obtain a degree in behavioral statistics should consult with an advisor in both departments. Employment opportunities include working with medical or Medicare data. Graduates of this program are expected to have good quantitative reasoning skills and strong people skills. Bioinformatics, Geostatistics, Machine Learning Statistics Plan of Study Please note this is a sample plan of study; actual student schedules will vary depending on start year, individual goals, applicable transfer credit, and course availability. Students are encouraged to work with their academic advisor on a regular basis to review degree progress and customize their own plan of study.

Chapter 3 : Behavioral Statistics

STATISTICS, SCIENCE, AND OBSERVATIONS By one definition, statistics consist of facts and figures such as average income, crime rate, birth rate, baseball batting averages, and so on. These statistics are usually informative and time saving because they condense large quantities of information into a few simple figures.

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