

**PSYCHOLOGY 230
SPRING, 2017**

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**M.C. DUST, Ph.D.
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865-1416

**HOURS: MON & WED
11 -12**

M & W 3

p.m. by appointment

STATISTICS FOR BEHAVIORAL SCIENCES

Descriptive statistics, frequency distributions, measures of variation, probability and decision-making, problems of estimation and tests of hypotheses, linear regression and correlation. Emphasis will be placed on the interpretation and application of statistical analysis in the social sciences.

3 Credit Hours

Prerequisite: Mathematics 103.

TEXT: Privitera, G.J. (2015, 2nd Ed.) *Statistics for the Behavioral Sciences*. Sage Publications: Thousand Oaks, CA.

COURSE OBJECTIVES:

1. To understand the content and process of descriptive and inferential statistics (assessed by quizzes and homework).
2. To show how statistics has a deep impact on diverse modern life, as well as using statistics effectively in everyday life (assessed by quizzes and homework and in-class projects).
3. To help students appreciate how statistics provides the facts behind theories in the social sciences (assessed by quizzes).
4. To acquire critical thinking and analytical skills used in the behavioral and social sciences, to reason statistically= (assessed by quizzes and homework).
5. To help students apply the appropriate techniques in statistics through the use of real life examples (assessed by homework and in-class projects)
6. To help students understand that statistics education is in the middle of a revolution.
7. To understand that statistics is a tool for research (assessed by homework).
8. Utilize IBM/SPSS as a statistical tool (homework).

STATISTICAL ASSUMPTIONS

Memorization of formulas is not required, although your professor would hope that some of the more commonly used ones might stay with you. You are expected to know (memorize, if necessary) the assumptions underlying the concepts/techniques discussed in class.

MATHEMATICAL BACKGROUND

Mathematical sophistication is not required, but you should know the four basics of addition, subtraction, multiplication and division. You should also know how to add, multiply, subtract, and divide signed numbers. You should know the order of operations. A calculator is recommended. The calculators recommended are the TI series, such as the 30 II XS. If you already have a calculator with a square root key on it, do not buy a new one. **THREE DECIMAL POINTS** should be used in your computations which should then be rounded back to **TWO** decimal points.

HOMEWORK

Homework can be completed with fellow students. However, it is never wise to just copy as you will be taking quizzes alone. All work is to be shown. **ANSWERS** are **NOT** enough.

In your homework, computational errors will be penalized slightly. In other words, you will be given partial credit if you approach a problem correctly and make an error in computation. Full credit will be given for computational accuracy and the correct approach.

If you do a SPSS assignment (IBM/SPSS), and the data are entered correctly, then the answers are correct. Therefore, it is imperative that you be careful when entering data.

Homework is NOT accepted late. If you miss class, you will receive a **A0** for that homework. Plan ahead!

ATHLETES: If you have a game, homework is to be in my box BEFORE the game.

eMail: Homework is NOT accepted via email.

TUTORING CENTER

Tutoring is open to all students at Calumet College of St. Joseph. (Library). The telephone number is; 219-473-4287.

CCSJ ALERT

There is an emergency communications system that transmits messages via text, email, and voice platform. Those students registered with the system will receive incident specific messages notifying them of the situation.

In addition, you can check other media for important information, such as school closings:

Internet: <http://www.ccsj.edu>

Radio: WAKE – 1500 AM, WGN – 720 AM, WIJE – 105.5 FM, WLS – 890 AM, WZVN – 107.1 FM, WBBM News Radio 78

TV Channels: 2, 5, 7, 9, 32

COURSE INFORMATION

Other Useful Texts:

There are other useful introductory texts in statistics that might be of help, authors such as Aron, Aron, and Coups, Downie and Heath, Sprinthall, and Ferguson, Takane, and Gravetter. For more advanced applications, see authors such as Kirk, Kerlinger and Lee, Cohen and Cohen, and Holland are useful.

Attendance:

Statistics should not be missed. Therefore, students who miss class will be asked to drop the class. If you continue to miss after the drop date, you will receive a **F**. You are allowed the equivalent of 1 week of absence.

Tardiness:

Roll will be taken at each and every class. If you are not in your seat when roll is taken, you will be marked absent. Being late is rude and disruptive to the class and other students.

Exiting Class:

Students are to remain in their seats until class is dismissed.

Cell Phones and Electronic Devices:

There are NO cell phones or electronic devices allowed in class. They are to be turned off and put away. If they are not, you will be asked to leave the class. There will be no texting.

Academic Integrity:

Academic misconduct includes but is not limited to cheating, encouraging academic dishonesty, fabrication, plagiarism, bribes, favors, threats, grade tampering, non-original work, and examination by proxy. If an incident of academic misconduct occurs, the instructor has the option to notify the student and adjust grades downward, award a failing grade for the semester, or seek further sanctions against the student.

Disability Services

Disability Services strives to meet the needs of all students by providing academic services in accordance with the Americans with Disabilities Act (ADA) guidelines. If you believe that you need a “reasonable accommodation” because of a disability, contact the Disability Services coordinator at 219-473-4349 or Room 100E. This service is not “retroactive”.

Make-Ups

Make-ups for any exams are at the discretion of the instructor. Do not assume that you will be allowed to make work up. All serious illnesses require a doctor's note.

Withdrawals:

The instructor would appreciate it if you notify her of your withdrawing. Do NOT assume that the instructor will withdraw you! a written request detailing the reason(s) for the withdrawal must be filed with the registrar. The Registrar must receive the written request for withdrawal by the last day of classes prior to the final examination period specified in the catalogue. Phone number is: 219-473-4211 or 773-721-0202, ext. 211. Please make note of the refund schedule.

Incompletes:

Incompletes cannot be given by the instructor for non-attendance or poor grades.

Athletes:

Please notify the instructor if you are an athlete and in what sport.

Evacuation:

In case of an emergency such as a fire, all students are to immediately leave the classroom

and the building. The instructor will see that all students have safely evacuated. If you need help, please indicate this to the instructor. Also, please note the placards at the front of the room for emergency situations and procedures to be followed.

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Grades:

Homework: 70% of the grade.

Quizzes: 30% of the grade

Quizzes: there will be 13 quizzes. You may miss 1 or drop the lowest grade if you do all 13

Grading Scale

100 – 92 A

91 – 90 A-

89 – 88 B+

87 – 82 B

81 – 80 B-

79 – 78 C+

77 – 72 C

71 – 70 C-

69 – 68 D+

67 – 62 D

61 – 60 D-

IBM/SPSS: this will be the bulk of homework assignments. Consequently, you should have a thumb drive so you can save your work. IBM/SPSS cannot be done except at Calumet College.

You can only PRINT the results at Calumet College as you must have the program to do so.

I found a website where you can buy it for **6 months**, if that is your choice.

www.onthehub.com/spss/ \$39.99 + \$4.99 to download or the Grad Pack for \$54.99

They are reliable and you can trust them.

I am not responsible if you go to this site and purchase it.

SCHEDULE

January 9	Introduction
	Chapter 1 Statistics
January 11	Chapter 1 Statistics/ SPSS/IBM Program
January 18	Chapter 2 Frequency Distributions
January 23	Chapter 2 Frequency Distributions
January 25	Chapter 3 Central Tendency
January 30	Chapter 3 Central Tendency
February 1	Chapter 4 Variability
February 6	Chapter 4 Variability
February 8	Chapter 5 Probability (Pgs. 130-147)
February 13	Chapter 6 Probability (Pgs. 166-187)
February 15	Chapter 6 Probability (Pgs. 166-187)
February 20	Chapter 8 Introduction to Hypothesis Testing
February 22	Chapter 8 Introduction to Hypothesis Testing

**February 27 &
March 1**

SPRING BREAK

March 6	Chapter 8 Introduction to Hypothesis Testing
March 8	Chapter 9 One Sample "t" Test/2 Sample Ind. "t"
March 13	Chapter 9 One Sample "t" Test/2 Sample Ind. "t"
March 15	Chapter 10 Related Samples "t" Test
March 20	Chapter 10 Related Samples "t" Test
March 22	Chapter 12 ANOVA 1 Way Between Subjects
March 27	Chapter 12 ANOVA 1 Way Between Subjects
March 29	Chapter 14 Two-factor ANOVA
April 3	Chapter 14 Two-factor ANOVA
April 5	Chapter 17 Chi-Square Statistic
April 10	Chapter 17 Chi-Square Statistic
April 12	Chapter 15 Correlation
April 17	Chapter 15 Correlation
April 19	Wrap Up

