

Chaminade University of Honolulu
Course Syllabus

COURSE NAME AND NUMBER: PSY 315, Behavioral Sciences Statistics

CREDIT HOURS: 3

TIMES AND LOCATIONS: Monday, 5:30 – 9:40 at Kaneohe Marine Base;

INSTRUCTOR: Frank Palacat

OFFICE: UH – Windward Community College; Na'auao 120;

COMMUNICATIONS:

Phone: **236-9219**

e-mail address: palacatf@hawaii.edu

OFFICE HOURS: MW: 10:30–11:30pm, TTh: 11:00 – 12:00am and by appointment

CATALOG COURSE DESCRIPTION

The focus of this course is on understanding basic statistical topics in behavioral science research methodology. Topics which will be covered include: frequency distributions, graphical representations, measures of central tendency, variability, normal curve, derived scores, correlation, regression, statistical inference, and various hypothesis tests including t-tests and chi-square tests.

I. STUDENT LEARNING OUTCOMES:

Student will demonstrate an understanding of:

1. the scientific method
2. the relationship between statistics and psychology
3. descriptive statistics and inferential statistics
4. statistical tables
5. central tendency
6. how to utilize statistical formula
7. standard scores, correlation, t-test, regression, ANOVA
8. hypothesis testing in a research context.

II. COURSE REQUIREMENTS:

To assess student learning outcomes each student will do:

A. EXAMS (600 pts or 60% of total grade):

Complete three (3) of four (4) exams covering assigned readings, class activities, discussions, lectures, videos, and handouts. Each Exam will consist of questions in the form of multiple Choice, True False, Fill in the Blank, and Short Answers.

Exam Dates:

Exam 1 – Week 3

Exam 2 – Week 6

Exam 3 – Week 9

Exam 4 – Week 10

Covering Material from:

Chapters 1 - 4

Chapters 5 - 10

Chapters 11 – 13 & 15 - 16

Chapters 1 - 16

Do not miss exams. Fairness in testing depends on students having equal preparation opportunities. Consequently, make-up tests will be allowed **ONLY** in the event of a genuine family or medical **EMERGENCY**. Routine appointments are not emergencies, and should be scheduled outside of class hours. In case of emergencies, it is the responsibility of the student to contact the instructor. **Make-up exams will be given at the end of the semester.**

B. CLASS ACTIVITIES/ ATTENDENCE (200 pts or 20% of total grade):

Each student is expected to participate in specific activities each week. Activities are designed to complement information in the text. Most activities will require preparation outside of class and sharing the work product in class group discussion. It is important to **plan ahead**; make certain you complete the work required outside of class so you are ready to share with the class when the topic is discussed. Because the activities are planned in-class group learning opportunities, there are no make up opportunities for these activities.

Each student is viewed as a Learner/Peer Teacher. Your shared observations, knowledge, skills, questions, and responsive listening are valued and contribute to a positive learning environment. Consequently, it is important that every student attend class to contribute her or his share to the interactive learning that is an important part of every class. **To receive credit** for participation, each student will need **to participate**.

Unexcused absences equivalent to more than a week of classes may lead to a grade reduction for the course. Long-term unexcused absence may lead to loss of financial aid. Any absence of two weeks or more must be reported to the Associate Provost and the Records Office by the instructor. Federal regulations require continued attendance for continuing payment of financial aid. If attendance is not continuous, financial aid may be terminated.

C. HOMEWORK ASSIGNMENTS (200 pts or 20% of total grade):

There will be 8 homework assignments from the text and 2 SPSS assignments. Each assignment is worth 20 points each. See tentative schedule for due dates.

III. MODE OF INSTRUCTION:

Lectures, discussions, assigned readings, participation, group projects, community field observations, role-playing, and peer teaching. Although the main concepts in statistics will be covered, not all-important information from your text will necessarily be discussed in class. The text and class activities are mutually complementary, meaning they overlap. Students are responsible for the information presented in both domains.

***What to do if you have a learning difficulty**

If you have a learning problem or disability (difficulties in one or more of the following: reading, writing, spelling, hearing, speaking, seeing, attention, concentration, or other) please let me know at the beginning of the semester. Do the same if English is your second language. Chaminade will provide assistance for any student with documented disabilities. Any student who believes he/she may need accommodations in this class must contact **Dr. Don Kopf, 735-4845** or **Dr. June Yasuhara, 739-4603**, at the Counseling Center (office next to Security) in order to determine if the student meets the requirements for documented

disability in accordance with the Americans with Disabilities Act. We can work out a plan to insure you have an equal opportunity to succeed in this class. Anyone who puts adequate time and effort into this class can make a good grade.

IV. ASSESSMENT:

<u>Source</u>	<u>Possible Points</u>
Exams (3x200)=	600 points
Participation in Class Activities =	200 points
<u>Homework Assignment =</u>	<u>200 points</u>
Total =	1000 points

900 - 1000 points = A
 800-899 points = B
 700- 799 points = C
 600 - 699 points = D
 <600 points = F or N

V. TEXTBOOK AND EQUIPMENT:

- Gravetter and Wallnau. Essentials of Statistics for the Behavioral Sciences. Fifth Edition. Wadsworth. 2005.
- Kirkpatrick & Feeney. A Simple Guide to SPSS for Windows: For Versions 8.0 to 11.0. Revised Edition. With the Student Version of SPSS 11.0 CD. Wadsworth. 2003.
- Hand-held calculators that will be able to **AT-LEAST** calculate means and standard deviations.

Tentative Schedule

<u>WEEK :</u>	<u>CHAPTERS / ACTIVITY</u>
1	Introduction, Ch. 1 - 2
2	HW 1-2, Ch 3 – 4
3	SPSS Activity
4	HW SPSS, 3 – 4, Review, Exam 1 (1-4) , Ch 5 – 6
5	HW 5 – 6, Ch 7 – 8
6	HW 7 – 8, Ch 9 – 10
7	HW 9 – 10, Review, Exam 2 (5 – 10) , Ch 11- 12
8	HW 11 – 12, Ch 13 & 15
9	HW 13 & 15, Review, Exam 3 (11 - 13 & 15)
10	HW SPSS, Exam 4 (1-15)

MARIANIST EDUCATIONAL VALUES

The five characteristics of a Marianist Education are:

1. Educate for Formation in Faith

Catholic Universities affirm an intricate relationship between reason and faith. As important as discursive and logical formulations and critical thinking are, they are not able to capture all that can be and ought to be learned. Intellectual rigor coupled with respectful humility provide a more profound preparation for both career and life. Intellectual rigor characterizes the pursuit of all that can be learned. Respectful humility reminds people of faith that they need to learn from those who are of other faiths and cultures, as well as from those who may have no religious faith at all.

2. Provide an Excellent Education

In the Marianist approach to education, “excellence” includes the whole person, not just the technician or rhetorician. Marianist universities educate whole persons, developing their physical, psychological, intellectual, moral, spiritual and social qualities. Faculty and students attend to fundamental moral attitudes, develop their personal talents and acquire skills that will help them learn all their lives. The Marianist approach to education links theory and practice, liberal and professional education. Our age has been deeply shaped by science and technology. Most recently, information and educational technologies have changed the way faculty and students research and teach. At Marianist Universities, two goals are pursued simultaneously: an appropriate use of information technology for learning, and the enhancement of interaction between students and teachers. As Catholic, Marianist Universities seek to embrace diverse peoples and understand diverse cultures, convinced that ultimately, when such people come together, one of the highest purposes of education is realized: a human community that respects every individual within it.

3. Educate in Family Spirit

Known for their strong sense of community, Marianists have traditionally spoken of this sense as “family spirit.” Marianist educational experience fosters the development of a community characterized by a sense of family spirit that accepts each person with loving respect, and draws everyone in the university into the challenge of community building. Family spirit also enables Marianist universities to challenge their students, faculty and staff to excellence and maturity, because the acceptance and love of a community gives its members the courage to risk failure and the joy of sharing success.

4. Educate for Service, Justice, and Peace

The Marianist approach to higher education is deeply committed to the common good. The intellectual life itself is undertaken as a form of service in the interest of justice and peace, and the university curriculum is designed to connect the classroom with the wider world. In addition, Marianist universities extend a special concern for the poor and marginalized and promote the dignity, rights and responsibilities of all people.

5. Educate for Adaptation to Change

In the midst of rapid social and technological change, Marianist universities readily adapt and change their methods and structures so that the wisdom of their educational philosophy and spirituality may be transmitted even more fully. “New times call for new methods,” Father Chaminade often repeated. The Marianist university faces the future confidently, on the one hand knowing that it draws on a rich educational philosophy, and on the other fully aware for that philosophy to remain vibrant in changing times, adaptations need to be made.

Selected from *Characteristics of Marianist Universities: A Resource Paper*,
Published in 1999 by Chaminade University of Honolulu, St. Mary's University and
University of Dayton

Each of these characteristics is integrated, to varying degrees, in this course.