APPENDIX C

COLLEGE OF MICRONESIA-FSM

COURSE OUTLINE COVER PAGE

Statistics	Division of Natural Sciences and Mathematics MS 150
Course Title	**Department and Number**

Course Description: A one semester course designed as an introduction to the basic ideas of data presentation, descriptive statistics, linear regression, and inferential statistics including confidence intervals and hypothesis testing. Basic concepts are studied using applications from education, business, social science, and the natural sciences. The course uses spreadsheet software for both data analysis and presentation.

Course Prepared by: Dana Lee Ling Campus/site: National site

Course Type	Hours Per Week	No. of weeks	Total Hours	Divisor	Semester Credits
Lecture	3	× 16	= 48	/16	= 3
			Total Semester Credits		= 3

(Hours per week × number of weeks = total hours) (Total hour/divisor = semester credits)

```
Divisors
Lecture:    /16  Lect/Lab:    /16  Co-op education /30 Workshop: /48
Practicum: /48
Internship: /48  Field study: /48  Studio:         /48 Lab:      /48
```

Purpose of Course: Degree requirement X
Degree elective X
Certificate
Other

Prerequisite Course: ESL 089 Reading V & Any 100 level or higher mathematics course

Signatures

Chairperson, Curriculum Committee: _____ Date: _____

President, COM-FSM: _____ Date: _____

Appendix B

College of Micronesia-FSM

COURSE OUTLINE FORMAT

I. Learning Outcomes

A. **Program Learning Outcomes:**
Define mathematical concepts, calculate quantities, estimate solutions, solve problems, represent and interpret mathematical information graphically, and communicate mathematical thoughts and ideas.

B. **Course Learning Outcomes:**

1. Calculate basic statistics
2. Represent data sets using charts and histograms
3. Solve problems using normal curve and t-statistic distributions including confidence intervals for means and hypothesis testing
4. Determine and interpret p-values
5. Perform a linear regression and make inferences based on the results

II. Course contents:

1. Populations and samples
2. Visualizing data
3. Measures of Middle and Spread
4. Paired Data and Scatter Diagrams
5. Probability
6. Probability Distributions
7. Introduction to the Normal Distribution
8. Normal Distribution and Z-Values
9. Confidence Intervals for the mean
10. Hypothesis Testing for the mean
11. Inferences about sample means

III. Textbook: Introduction to Statistics Using OpenOffice.org Calc, 2007.

IV. Reference materials:
Data Analysis with Microsoft Excel. Berk and Carey, Duxbury Press, 1998

V. Required course materials: In-class access to a computer with OpenOffice.org

VI. Instructional materials/equipment and cost for the college:
Large screen computer display technology that can viewed with the lights on, routine classroom supplies.

VII. Methods of Instruction: The course will be taught by lecture, class discussion, and the use of spreadsheet software for problem solving and computer simulations. This course will be taught in a computer laboratory classroom. Also, students will be encouraged to utilize the computer labs outside of class for homework assignments.

VIII. Evaluation: Methods of measurement will include class participation, homework, quizzes, tests, midterm, and final examinations. A final percentage will be calculated by dividing the total points earned by the the total points possible. Grades will be assigned according the following: 90-100% A; 80-89% B; 70-79% C; 60-69% D, below 60% F.

IX. Credit-by-examination: None.

X. Attendance policy: As per the current college catalog.
XI. Academic honesty policy: As per the current college catalog.