



UC San Diego

Policy & Procedure Manual

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I&R SERVICES

Section: 130-1.2 SUPPLEMENT I-A ATTACHMENT A

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SUPPLEMENT I-A ATTACHEMENT A

LEARNING RESOURCES CENTER TEST ANALYSIS SERVICE

- I. LRC provides computer-assisted test-scoring and test evaluation services on a recharge basis:**
 - A.** For Medical School core courses.
 - B.** For other campus-wide courses as work load and time permit.
- II. Testing services are primarily for multiple choice exams. Scores from faculty graded essays or short answer type exams can be accommodated by special arrangement (allow extra time).**
 - A.** Maximum of 5 choices per question.
 - B.** Maximum of 240 questions per test.
 - C.** Maximum of 400 students per test.
 - D.** Program is capable of providing a defined range of values for questions, as well as eliminating individual questions from exams at the time of processing.
 - E.** Alternative correct answers can also be allowed for selected questions.
- III. Student performance is indicated on a computer printout.**
 - A. Student scores:**
 1. Listed in decreasing order of performance. Also listed separately, ascending identification numbers.
 2. Raw score, number of responses, percent correct and relationship of score to mean are also given for each student.
 - B. Overall statistics are also presented.**
 1. Number of students present, number of questions asked, number of points possible, as well as mean and median score are given.
 2. The standard deviation of percent scores is given, as is a histogram depicting the class curve for that particular exam.

IV. Test Analysis Section

- A.** Overall item (question) analysis is presented for each question.
 - 1. Shows question number, correct answer, percent of students making correct choice, number of students answering each possible response, the discrimination index for that question and the amount of points given.
- B.** Overall item analysis is also compared with the upper and lower 25% groups showing the same data as for the overall analysis.
- C.** In addition to individual question analysis, three histograms are also presented.
 - 1. Distribution of question discrimination histogram plots discrimination between upper and lower quartiles for each question.
 - 2. Question efficiency histogram indicates a rescaling of discriminability index regardless of proportion responding correctly.
 - 3. Correlation index histogram representing extent to which high scorers answer correctly and low scorers answer incorrectly, using all students as population.

V. In addition to testing analysis services, a course analysis is also offered.

- A.** Overall statistics for all computer-assisted tests scored during any one course are available. Request this service before first test in series.
 - 1. Available to all Medical School core courses on a recharge basis.
 - 2. Limited availability to other recognized UCSD courses on a recharge basis.
 - 3. Overall statistics consist of number of tests given, number of students enrolled in course, greatest number of students present, number of questions given in course and number of points possible for course.
 - 4. In addition, a histogram is presented showing the overall curve.
- B.** Overall statistics are also presented test by test, and student by student.
 - 1. Statistics given test by test are number of students present, number of questions given, number of points possible, mean score, median score, and standard deviation.
 - 2. Statistics given student by student are raw score, percent correct, number of responses, and relationship of percent score to mean.

VI. Scheduling of Test-Processing

- A.** All test dates should be scheduled with the LRC as soon as possible after commencement of quarter.
 - 1. Test-processing can usually be accomplished within 24-48 hours of receipt.
 - 2. Special requests such as surveys, data entry, additional statistical analysis, etc. will require more time.
- B.** If individual test scores are to be combined to create a quarter-end final grade ("Courseanalysis"), this must be requested before the first test is processed.

VII. Recharge Rates for Test-Processing

Please contact the Learning Resource Center, Ext. 44123, for the "per form" or "per card" rate, labor rate, and material charge.