

College of Science (CSC)

North Science 135

25800 Carlos Bee Boulevard, Hayward CA 94542

2015-2016 CSCI EETF Assessment Year End Report, June 2016

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Only four students submitted the assessment, and one student failed to respond to three

#### D. Summary of Assessment Results

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## **Pre-Post Test Assessment**

This assess a number of detailed specific skills including such things as conducting a suitable literature search, formulating a hypothesis, identifying and critiquing research designs and statistical procedures, etc. These learning outcomes are based on the American Psychological Association's "Guidelines for Learning Outcomes for the Undergraduate Psychology Major." Students summarize a research paper from a peer-reviewed journal being careful to answer specific questions (see below). Student performance is then assessed for each item using a five point scale. This assignment is administered during our introductory methods course in our curriculum (Psyc 2020) and also during one of our senior laboratory capstone courses (Psyc 480X). In between those two courses, all students would have taken our major experimental methods course (Psyc 3100). This provides feedback on the effect of the Department's strategy of providing students with intensive hands-on research experience in classes with a small student-faculty ratio substantially on students' essential scientific thinking and methodological skills.

10 Specific Areas Assessed in Psyc 2020 and Psyc 480X.

1. APA Reference Format
2. Identify Hypothesis
3. Identify Researcher's Rationale
4. Identify Data Collection Methods/Study Design
5. Identify All Important Variables
6. Reliability & Validity of All Measures
7. Identify Data Analysis Techniques (Statistics)
8. Appropriateness of Data Analysis Results to Hypothesis
9. Critique of Entire Research Report
10. Conduct Literature Search



## Scoring Pre-Post Test Student Assessment Assignment

Is reference complete and in APA format?

0	1	2	3	4
NOT AT ALL		PARTALLY CORRECT		CORRECT