Police/Criminal Investigation & Justice Assessment Report (Addendum)

Fall 2017

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1   INTRODUCTION

Florida SouthWestern State College's Business Department gathers a multitude of data from various courses as assessment tools in support of the Florida Department of Education Curriculum Framework. The course included in this assessment report is CJE 1640 *Introduction to Crime Scene Technology*. The assessment outcomes are intended to provide a baseline and measurement of achievement moving forward. The assessment plan also provides comparisons between dual enrollment (concurrent) and non-dual enrollment students, online versus traditional students, and by site, where possible. Where data is sufficient, additional analyses are provided including distribution studies and longitudinal studies.

For additional detail or further analysis not provided in this report, please contact Dr. Joseph F. van Gaalen, Director of Assessment & Effectiveness, Academic Affairs (jfvangaalen@fsw.edu; x16965).

2   CJE 1640

2.1   LEARNING OBJECTIVES AND DESCRIPTIVE STATISTICS

The FSW Business faculty defined one area of interest for evaluation in support of the state framework for the fall 2017 term. The outcomes related to CJE 1640 are:

- ➢ CJE 1640 LO 02.03 Develop an understanding of the concepts of crime scene procedures.
- ➢ CJE 1640 LO 02.04 Demonstrate knowledge and skill in specialized crime scene procedures.
- ➢ CJE 1640 LO 02.05 Demonstrate ability to prepare crime scene related documents.
- ➢ CJE 1640 LO 02.06 Demonstrate ability to coordinate a crime scene investigation with other investigative personnel agencies.
- ➢ CJE 1640 LO 02.07 Demonstrate knowledge of the capabilities of a full service crime lab.
- ➢ CJE 1640 LO 02.08 Demonstrate knowledge of the chain of custody of evidence and submission protocols.
- ➢ CJE 1640 LO 02.09 Demonstrate knowledge of appropriate comparison standards.
- ➢ CJE 1640 LO 02.10 Demonstrate knowledge of the testing of biological evidence.
- ➢ CJE 1640 LO 02.11 Demonstrate knowledge of the collection methods of biological evidence.
- ➢ CJE 1640 LO 02.12 Demonstrate knowledge of the understanding of autopsy evidence collection.
- ➢ CJE 1640 LO 02.13 Demonstrate ability to determine appropriate collection, preserving, marking, and packaging methods of crime scene evidence.

The measurement and objectives related to CJE 1640 are:

> ➢ Outcome 1 – The total scores measured (combined total of assignments associated with Learning Outcome or Program Outcome) average '4' or higher and that 80% of artifacts score '4' or better.

During the fall 2017 semester, an enrollment of 28 contributed to scores tallied from 2 of 3 sections of CJE 1640. One section did not have data stored in the Learning Management System (LMS). Descriptive statistics for achievement of outcomes are shown in Table 1. The graphical representation of mean scores is shown in Figure 1 and percentage of artifacts scoring '4' or higher is shown in Figure 2. The goal that the total scores measured (combined total of assignments associated with Learning Outcome or Program Outcome) average '4' or higher and that 80% of artifacts score '4' or better was met. Outcome mean scores range from 4.3 to 4.7. Outcome percent scoring 80% or higher range from 90% to 94%.

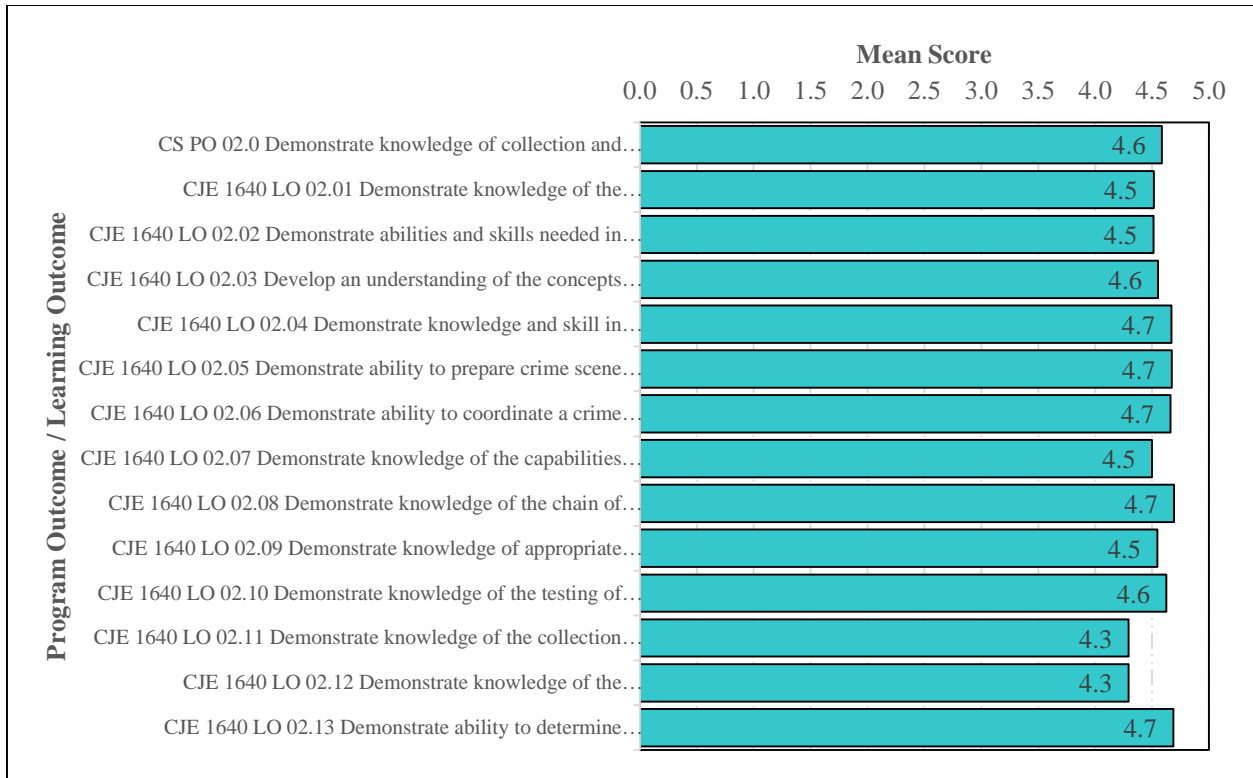| Outcomes	n	Mean	% Scoring 4 or Higher
CS PO 02.0 Demonstrate knowledge of collection and development of evidence.	1396	4.6	91%
CJE 1640 LO 02.01 Demonstrate knowledge of the methodology used in crime scene recording and classifying physical evidence.	545	4.5	90%
CJE 1640 LO 02.02 Demonstrate abilities and skills needed in applying basic principles of crime scene investigation.	933	4.5	90%
CJE 1640 LO 02.03 Develop an understanding of the concepts of crime scene procedures.	661	4.6	90%
CJE 1640 LO 02.04 Demonstrate knowledge and skill in specialized crime scene procedures.	607	4.7	93%
CJE 1640 LO 02.05 Demonstrate ability to prepare crime scene related documents.	322	4.7	94%
CJE 1640 LO 02.06 Demonstrate ability to coordinate a crime scene investigation with other investigative personnel agencies.	401	4.7	92%
CJE 1640 LO 02.07 Demonstrate knowledge of the capabilities of a full service crime lab.	140	4.5	91%
CJE 1640 LO 02.08 Demonstrate knowledge of the chain of custody of evidence and submission protocols.	597	4.7	93%
CJE 1640 LO 02.09 Demonstrate knowledge of appropriate comparison standards.	141	4.5	91%
CJE 1640 LO 02.10 Demonstrate knowledge of the testing of biological evidence.	147	4.6	94%
CJE 1640 LO 02.11 Demonstrate knowledge of the collection methods of biological evidence.	51	4.3	90%
CJE 1640 LO 02.12 Demonstrate knowledge of the understanding of autopsy evidence collection.	51	4.3	90%
CJE 1640 LO 02.13 Demonstrate ability to determine appropriate collection, preserving, marking, and packaging methods of crime scene evidence.	769	4.7	93%

Table 1. Student achievement level by Outcome for CJE 1640.

Mean Score

Program Outcome / Learning Outcome	Mean Score
CS PO 02.0 Demonstrate knowledge of collection and…	4.6
CJE 1640 LO 02.01 Demonstrate knowledge of the…	4.5
CJE 1640 LO 02.02 Demonstrate abilities and skills needed in…	4.5
CJE 1640 LO 02.03 Develop an understanding of the concepts…	4.6
CJE 1640 LO 02.04 Demonstrate knowledge and skill in…	4.7
CJE 1640 LO 02.05 Demonstrate ability to prepare crime scene…	4.7
CJE 1640 LO 02.06 Demonstrate ability to coordinate a crime…	4.7
CJE 1640 LO 02.07 Demonstrate knowledge of the capabilities…	4.5
CJE 1640 LO 02.08 Demonstrate knowledge of the chain of…	4.7
CJE 1640 LO 02.09 Demonstrate knowledge of appropriate…	4.5
CJE 1640 LO 02.10 Demonstrate knowledge of the testing of…	4.6
CJE 1640 LO 02.11 Demonstrate knowledge of the collection…	4.3
CJE 1640 LO 02.12 Demonstrate knowledge of the…	4.3
CJE 1640 LO 02.13 Demonstrate ability to determine…	4.7

Figure 1. Bar graph of mean score by outcome for CJE 1640.

% Scoring '4' or Higher

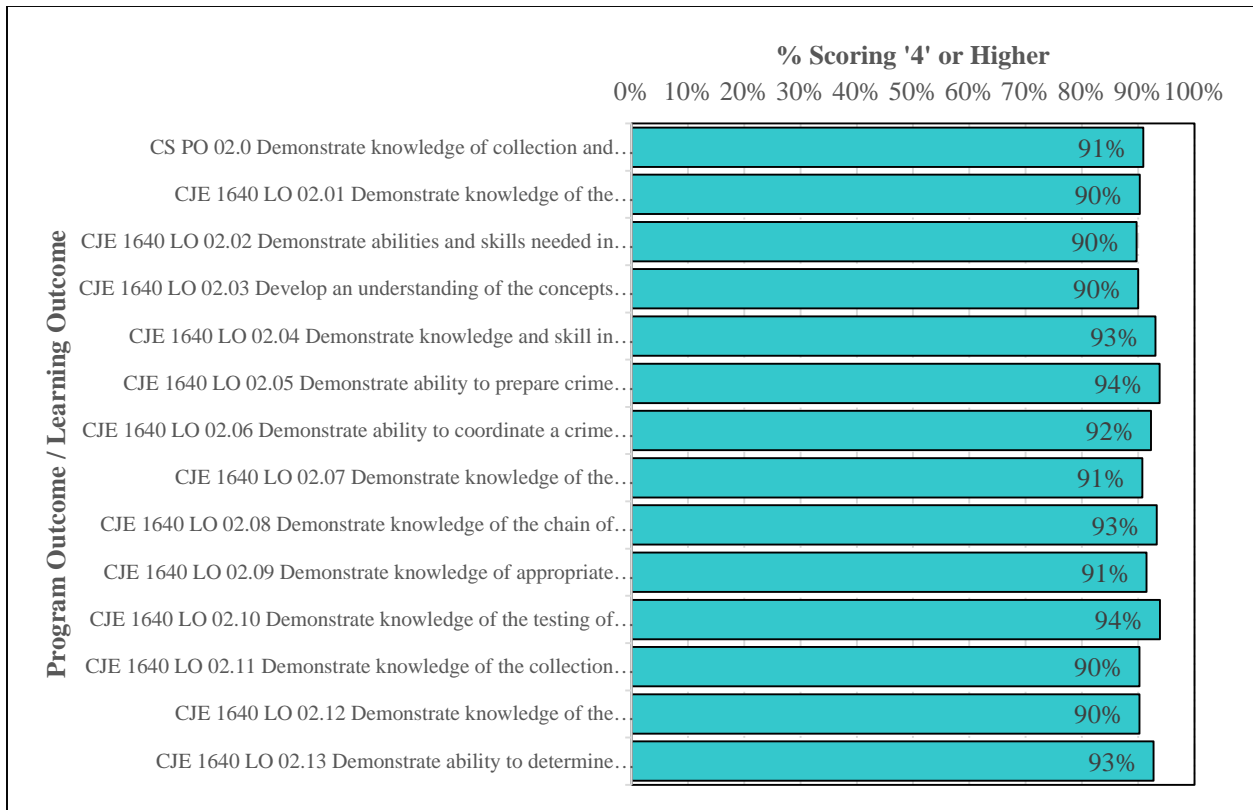| Program Outcome / Learning Outcome	% Scoring '4' or Higher
CS PO 02.0 Demonstrate knowledge of collection and…	91%
CJE 1640 LO 02.01 Demonstrate knowledge of the…	90%
CJE 1640 LO 02.02 Demonstrate abilities and skills needed in…	90%
CJE 1640 LO 02.03 Develop an understanding of the concepts…	90%
CJE 1640 LO 02.04 Demonstrate knowledge and skill in…	93%
CJE 1640 LO 02.05 Demonstrate ability to prepare crime…	94%
CJE 1640 LO 02.06 Demonstrate ability to coordinate a crime…	92%
CJE 1640 LO 02.07 Demonstrate knowledge of the…	91%
CJE 1640 LO 02.08 Demonstrate knowledge of the chain of…	93%
CJE 1640 LO 02.09 Demonstrate knowledge of appropriate…	91%
CJE 1640 LO 02.10 Demonstrate knowledge of the testing of…	94%
CJE 1640 LO 02.11 Demonstrate knowledge of the collection…	90%
CJE 1640 LO 02.12 Demonstrate knowledge of the…	90%
CJE 1640 LO 02.13 Demonstrate ability to determine…	93%

Figure 2. Bar graph of percentage of artifacts scoring '4' or higher by outcome for CJE 1640.

2.2   EXPLORATORY ANALYSIS AND SIGNIFICANCE TESTING

Multiple comparisons of artifact scores across varying formats, campuses, and student types were made, where possible, in order to add depth to the causes of the distribution of the artifacts. Each course was divided into the appropriate subgroups to perform the analysis. In cases where a subgroup is not represented in the course comparisons were not conducted and are noted for comprehensiveness.

3   CONCLUSIONS

FSW's Business Department gathers a multitude of data from various courses as assessment tools in support of the Florida Department of Education Curriculum Framework. The course included in this assessment report is CJE 1640 *Introduction to Crime Scene Technology*. The assessment outcomes are intended to provide a baseline and measurement of achievement moving forward.

3.1   CJE 1640

A drill-down of CJE 1640 results are as follows:

1. In a study of outcome achievement, "the total scores measured (combined total of assignments associated with Learning Outcome or Program Outcome) average '4' or higher and that 80% of artifacts score '4' or better", was met. Outcome mean scores range from 4.3 to 4.7. Outcome percent scoring 80% or higher range from 90% to 94%.