

# Criminal Investigation/Justice Assessment Report Spring 2019

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## 1 INTRODUCTION

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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 courses included in assessment are CJE 1300 *Police Organization and Administration*, CJE 1640 *Introduction to Crime Scene Technology*, CJE 2600 *Criminal Investigation Techniques* and CJE 2671 *Latent Fingerprint Development*. 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, Asst. Vice President of Institutional Research, Assessment & Effectiveness, Academic Affairs ([jfvangaalen@fsw.edu](mailto:jfvangaalen@fsw.edu); x16965).

## 2 CJE 1300

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### 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 summer 2019 term. The outcomes related to CJE 1300 are:

- CJ PO 05.0 Summarize law enforcement administration.
- CJE 1300 LO 05.01 Appraise the impact of national patrol studies.
- CJE 1300 LO 05.02 Compare and contrast the various organizational structures of law enforcement agencies.
- CJE 1300 LO 05.03 Give examples of different departmental recruiting techniques.
- CJE 1300 LO 05.04 Define the general principles of allocation and deployment of patrol resources.
- CJE 1300 LO 05.05 Explain the concepts of criminal investigation management and supervision of cases.
- CJE 1300 LO 05.06 Discuss the importance of specialized units.
- CJE 1300 LO 05.07 Identify crime prevention techniques.
- CJE 1300 LO 05.08 Discuss the relevance of Special Operations to the administration of police services.
- CJE 1300 LO 05.09 Discuss the various technologies utilized by law enforcement agencies.

The measurement and objectives related to CJE 1300 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 summer 2019 semester, an enrollment of 16 contributed to scores tallied from 1 of 1 sections of CJE 1300. 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 4.9 to 5.0. Outcome percent scoring 80% or higher range from 99% to 100%.

Outcomes	# of Assignments Linked to Outcome	n	Mean	% Scoring 4 or Higher
CJ PO 05.0 Summarize law enforcement administration.	29	430	5.0	100%
CJE 1300 LO 05.01 Appraise the impact of national patrol studies.	11	15	4.9	100%
CJE 1300 LO 05.02 Compare and contrast the various organizational structures of law enforcement agencies.	15	430	4.9	99%
CJE 1300 LO 05.03 Give examples of different departmental recruiting techniques.	5	15	4.9	100%
CJE 1300 LO 05.04 Define the general principles of allocation and deployment of patrol resources.	15	15	4.9	100%
CJE 1300 LO 05.05 Explain the concepts of criminal investigation management and supervision of cases.	6	15	4.9	100%
CJE 1300 LO 05.06 Discuss the importance of specialized units.	14	15	4.9	100%
CJE 1300 LO 05.07 Identify crime prevention techniques.	7	15	4.9	100%
CJE 1300 LO 05.08 Discuss the relevance of Special Operations to the administration of police services.	5	15	4.9	100%
CJE 1300 LO 05.09 Discuss the various technologies utilized by law enforcement agencies.	7	15	4.9	100%

Table 1. Student achievement level by Outcome for CJE 1300.

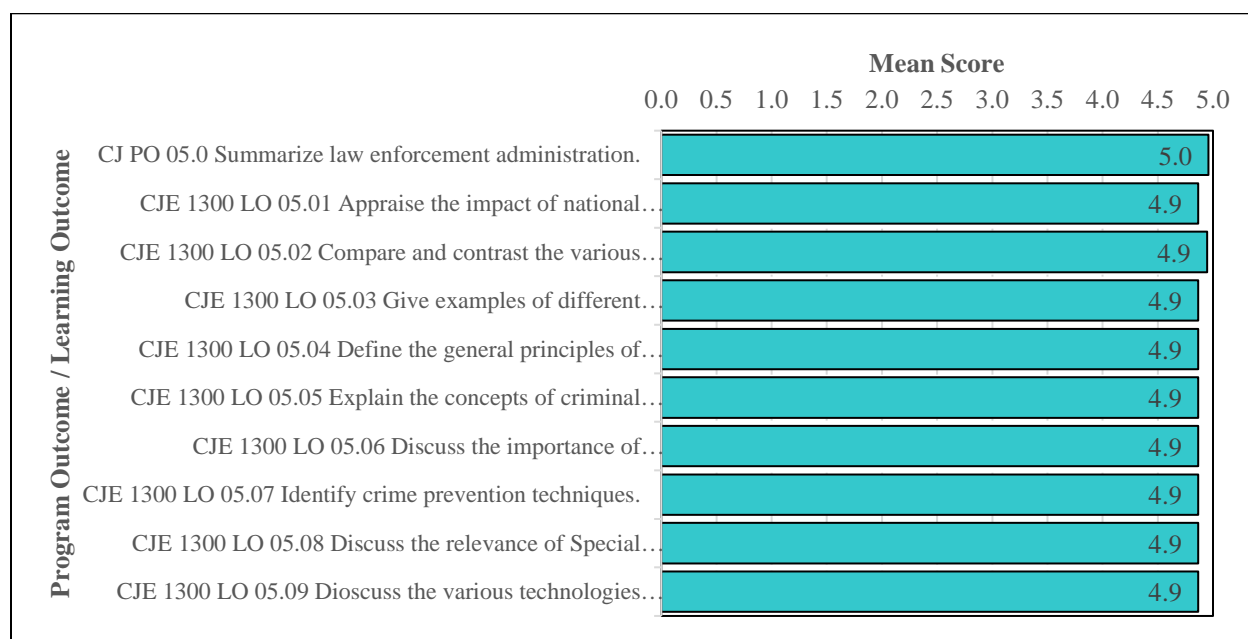


Figure 1. Bar graph of mean score by outcome for CJE 1300.

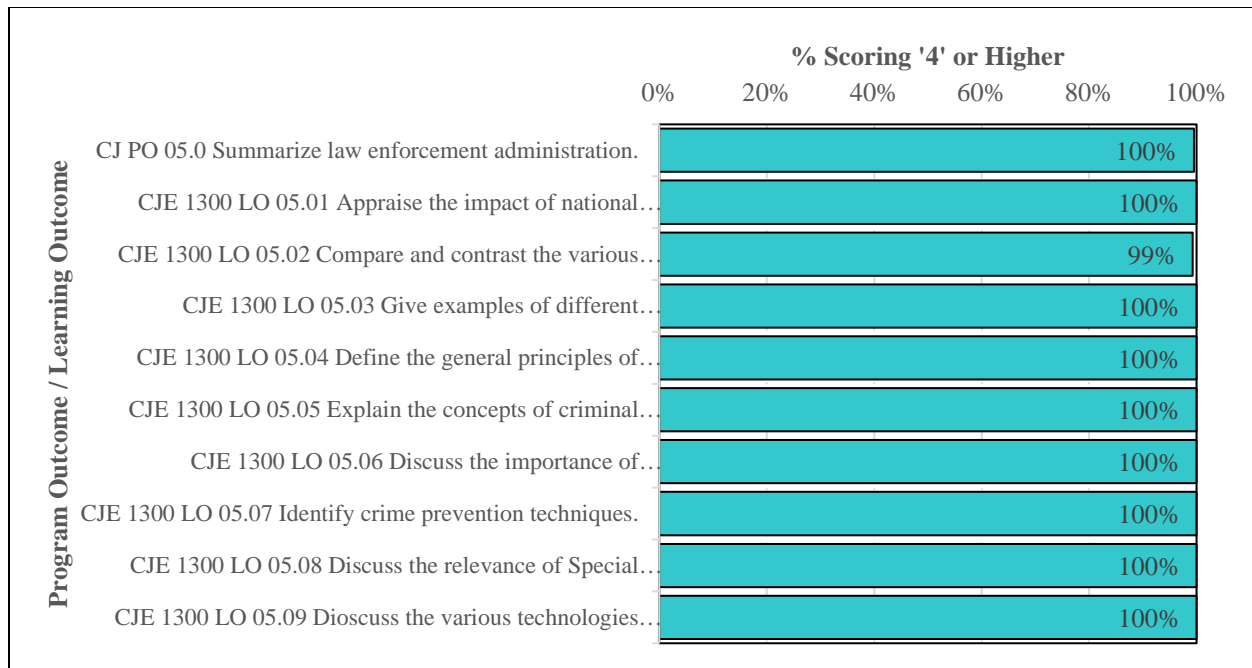


Figure 2. Bar graph of percentage of artifacts scoring '4' or higher by outcome for CJE 1300.

## 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.

### 2.2.1 Dual Enrollment (Concurrent) to Non-Dual Enrollment Comparison

No dual enrollment (concurrent) sections of the course were run during summer 2019 so no comparison study between dual enrollment and non-dual enrollment could be completed.

### 2.2.2 Online to Traditional Comparison

No traditional sections of the course were run during summer 2019, so no comparison study between online and traditional could be completed.

### 2.2.3 Comparison by Campus/Site

Only one site offered the course this term, so no comparison by site could be completed.

## 2.3 LONGITUDINAL STUDY

As further data is collected in coming summer terms, this section will track achievement through time and highlight strengths, weaknesses and any long-term trends beginning summer 2020.

## 3 CJE 1640

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### 3.1 LEARNING OBJECTIVES AND DESCRIPTIVE STATISTICS

The FSW Business faculty defined one area of interest for evaluation in support of the state framework for the summer 2019 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 summer 2019 semester, an enrollment of 14 contributed, in part, to scores tallied from 1 of 1 sections of CJE 1640. Descriptive statistics for achievement of outcomes are shown in Table 2. The graphical representation of mean scores is shown in Figure 3 and percentage of artifacts scoring '4' or higher is shown in Figure 4. 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 4.7 to 4.8. Outcome percent scoring 80% or higher range from 97% to 100%.

<i>Outcomes</i>	<i>n</i>	<i>Mean</i>	<i>% Scoring 4 or Higher</i>
CS PO 02.0 Demonstrate knowledge of collection and development of evidence.	258	4.8	100%
CJE 1640 LO 02.01 Demonstrate knowledge of the methodology used in crime scene recording and classifying physical evidence.	89	4.8	100%
CJE 1640 LO 02.02 Demonstrate abilities and skills needed in applying basic principles of crime scene investigation.	187	4.8	99%
CJE 1640 LO 02.03 Develop an understanding of the concepts of crime scene procedures.	145	4.7	100%
CJE 1640 LO 02.04 Demonstrate knowledge and skill in specialized crime scene procedures.	119	4.7	99%
CJE 1640 LO 02.05 Demonstrate ability to prepare crime scene related documents.	62	4.7	100%
CJE 1640 LO 02.06 Demonstrate ability to coordinate a crime scene investigation with other investigative personnel agencies.	54	4.7	98%
CJE 1640 LO 02.07 Demonstrate knowledge of the capabilities of a full-service crime lab.	31	4.8	100%
CJE 1640 LO 02.08 Demonstrate knowledge of the chain of custody of evidence and submission protocols.	71	4.7	100%
CJE 1640 LO 02.09 Demonstrate knowledge of appropriate comparison standards.	30	4.7	97%
CJE 1640 LO 02.10 Demonstrate knowledge of the testing of biological evidence.	9	4.8	100%
CJE 1640 LO 02.11 Demonstrate knowledge of the collection methods of biological evidence.	9	4.8	100%
CJE 1640 LO 02.12 Demonstrate knowledge of the understanding of autopsy evidence collection.	9	4.8	100%
CJE 1640 LO 02.13 Demonstrate ability to determine appropriate collection, preserving, marking, and packaging methods of crime scene evidence.	92	4.7	99%

Table 2. Student achievement level by Outcome for CJE 1640.

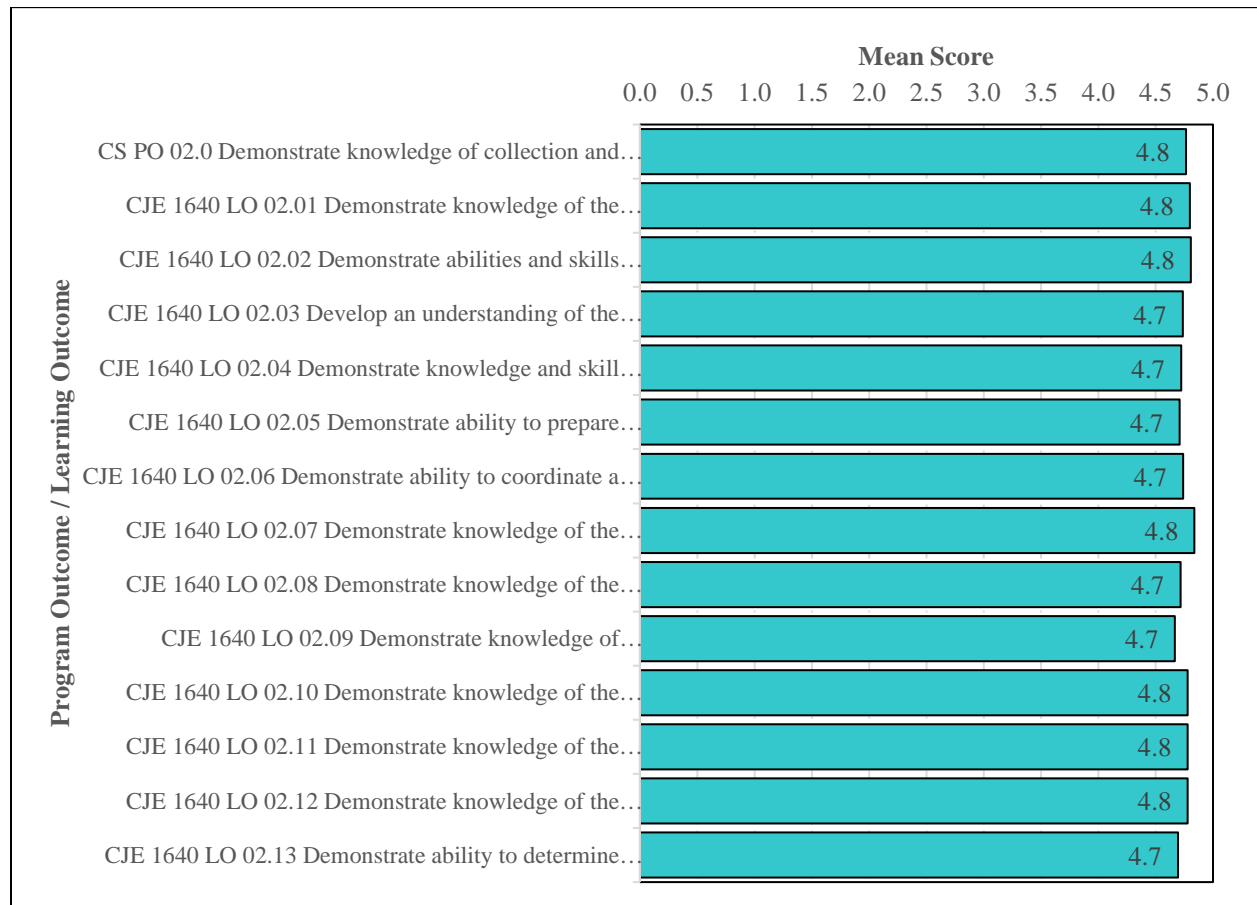


Figure 3. Bar graph of mean score by outcome for CJE 1640.

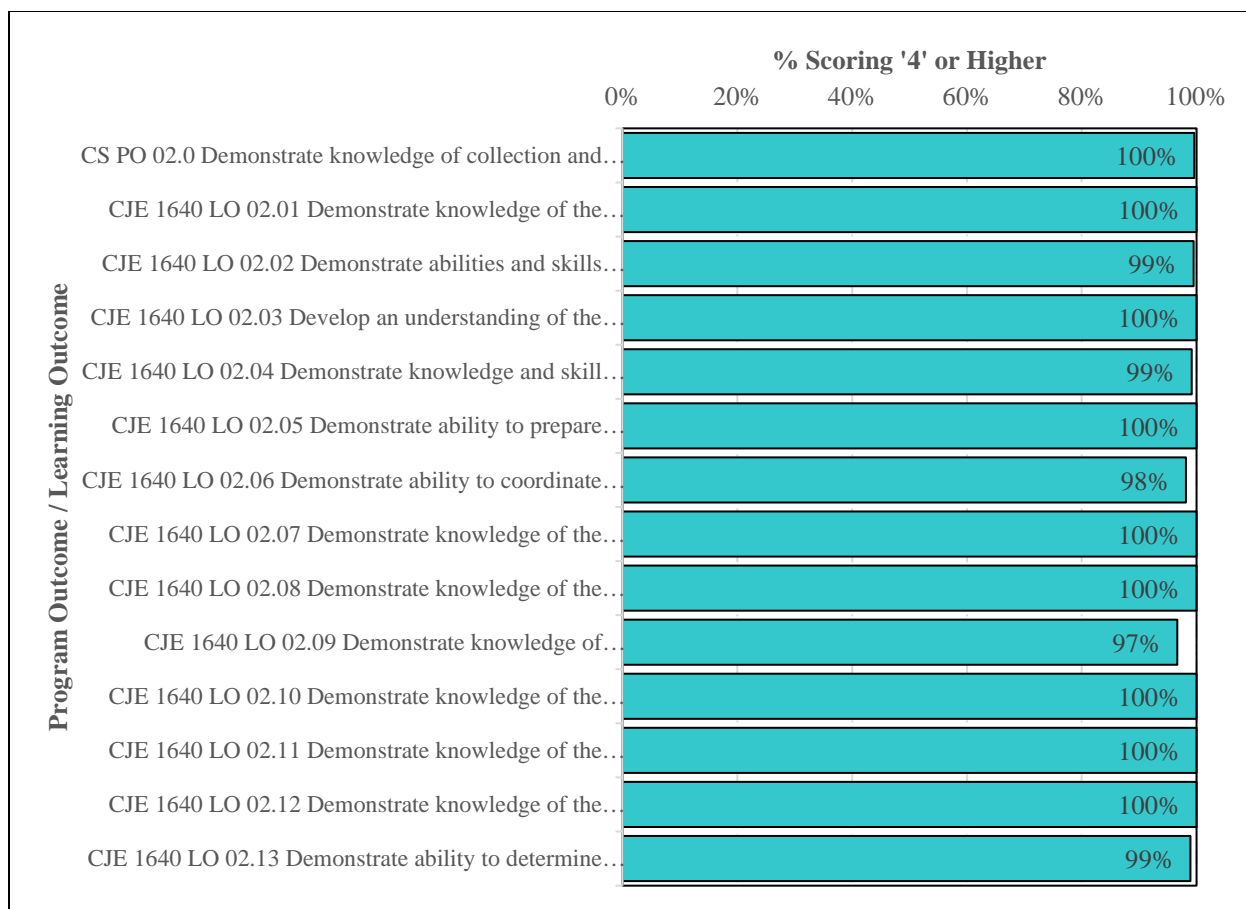


Figure 4. Bar graph of percentage of artifacts scoring '4' or higher by outcome for CJE 1640.

### 3.2 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.

#### 3.2.1 Dual Enrollment (Concurrent) to Non-Dual Enrollment Comparison

No dual enrollment (concurrent) sections of the course were run during summer 2019 so no comparison study between dual enrollment and non-dual enrollment could be completed.

#### 3.2.2 Online to Traditional Comparison

Only one section (online) of the course was run in summer 2019, so no online to traditional comparison could be made.

#### 3.2.3 Comparison by Campus/Site

Only one section (online) of the course was run in summer 2019, so no cross-site comparison could be made.

### 3.3 LONGITUDINAL STUDY

As further data is collected in coming terms, this section will track achievement through time and highlight strengths, weaknesses and any long-term trends. Because data collection issues continue to be a problem for two-thirds of the course sections, a longitudinal study is delayed until fall 2019.

## 4 CJE 2600

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### 4.1 LEARNING OBJECTIVES AND DESCRIPTIVE STATISTICS

The FSW Business faculty defined one area of interest for evaluation in support of the state framework for the summer 2019 term. The outcomes related to CJE 2600 are:

- CJ PO 03.0 Identify criminal investigation procedures.
- CJE 2600 LO 03.01 Explain investigative techniques used in solving crimes.
- CJE 2600 LO 03.02 Explain general criminal laboratory techniques.
- CJE 2600 LO 03.03 Explain the necessity for and the methods of marking and preserving evidence.
- CJE 2600 LO 03.04 Discuss the necessity for and importance of crime scene protection.
- CJE 2600 LO 03.05 Discuss the importance of evidence to court proceedings following arrest.
- CJE 2600 LO 03.06 Identify various types of investigative technology.
- CJE 2600 LO 03.07 Describe the steps of a preliminary investigation.
- CJE 2600 LO 03.08 Demonstrate ability to draw a simple crime scene sketch.
- CJE 2600 LO 03.09 Discuss principles of proper interrogation techniques.
- CJE 2600 LO 03.10 Explain the importance of police records to the investigative process.

The measurement and objectives related to CJE 2600 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 summer 2019 semester, an enrollment of 16 contributed to scores tallied from 1 of 1 sections of CJE 2600. Descriptive statistics for achievement of outcomes are shown in Table 3. The graphical representation of mean scores is shown in Figure 5 and percentage of artifacts scoring '4' or higher is shown in Figure 6. 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 4.5 to 4.8. Outcome percent scoring 80% or higher range from 89% to 96%.

<i>Outcomes</i>	<i># of Assignments Linked to Outcome</i>	<i>n</i>	<i>Mean</i>	<i>% Scoring 4 or Higher</i>
CJ PO 03.0 Identify criminal investigation procedures.	28	472	4.8	95%
CJE 2600 LO 03.01 Explain investigative techniques used in solving crimes.	28	472	4.8	96%
CJE 2600 LO 03.02 Explain general criminal laboratory techniques.	5	74	4.6	89%
CJE 2600 LO 03.03 Explain the necessity for and the methods of marking and preserving evidence.	15	218	4.7	93%
CJE 2600 LO 03.04 Discuss the necessity for and importance of crime scene protection.	12	206	4.7	92%
CJE 2600 LO 03.05 Discuss the importance of evidence to court proceedings following arrest.	8	115	4.7	93%
CJE 2600 LO 03.06 Identify various types of investigative technology.	7	108	4.7	91%
CJE 2600 LO 03.07 Describe the steps of a preliminary investigation.	4	48	4.6	92%
CJE 2600 LO 03.08 Demonstrate ability to draw a simple crime scene sketch.	11	175	4.7	93%
CJE 2600 LO 03.09 Discuss principles of proper interrogation techniques.	22	375	4.8	95%
CJE 2600 LO 03.10 Explain the importance of police records to the investigative process.	5	48	4.5	88%

Table 3. Student achievement level by outcome for CJE 2600.

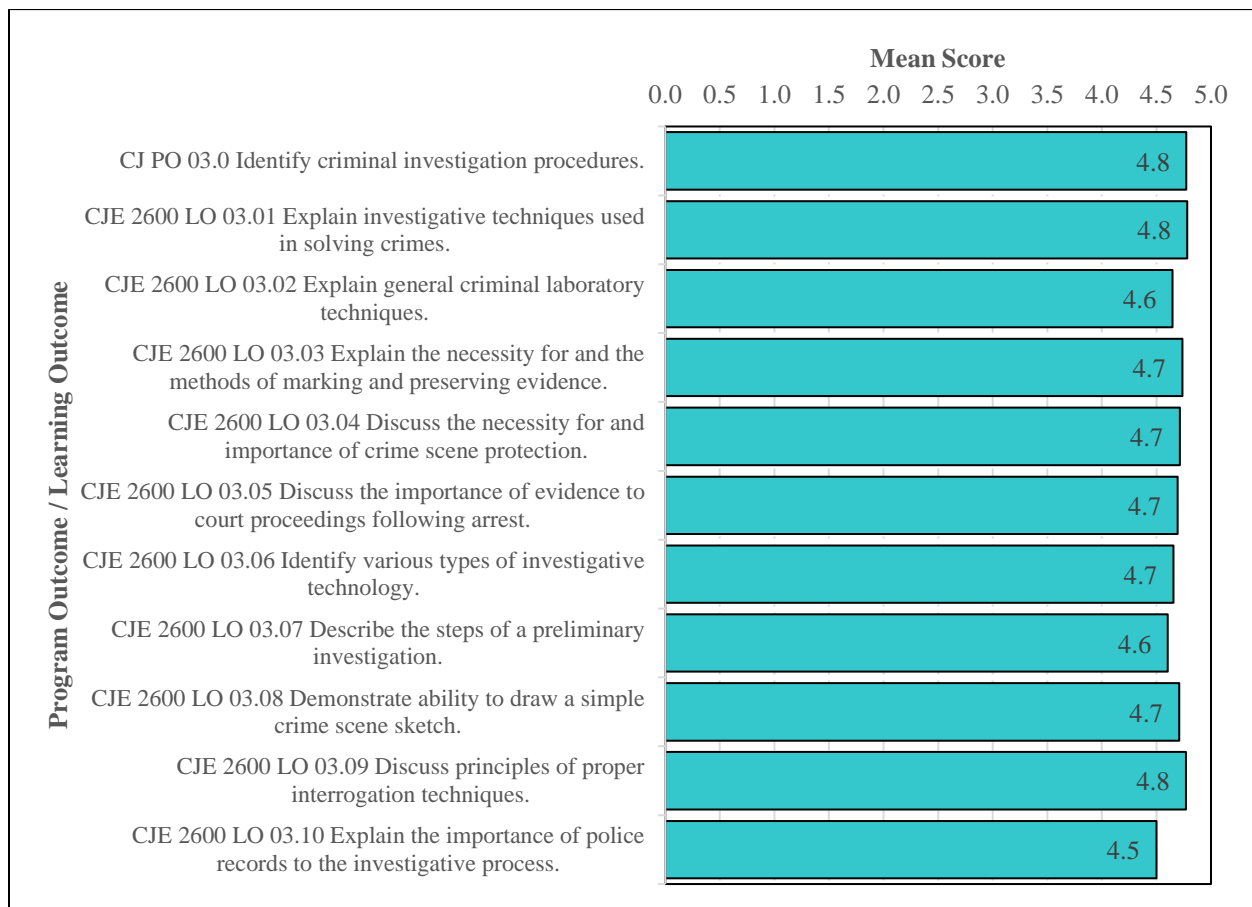


Figure 5. Bar graph of mean score by outcome for CJE 2600.



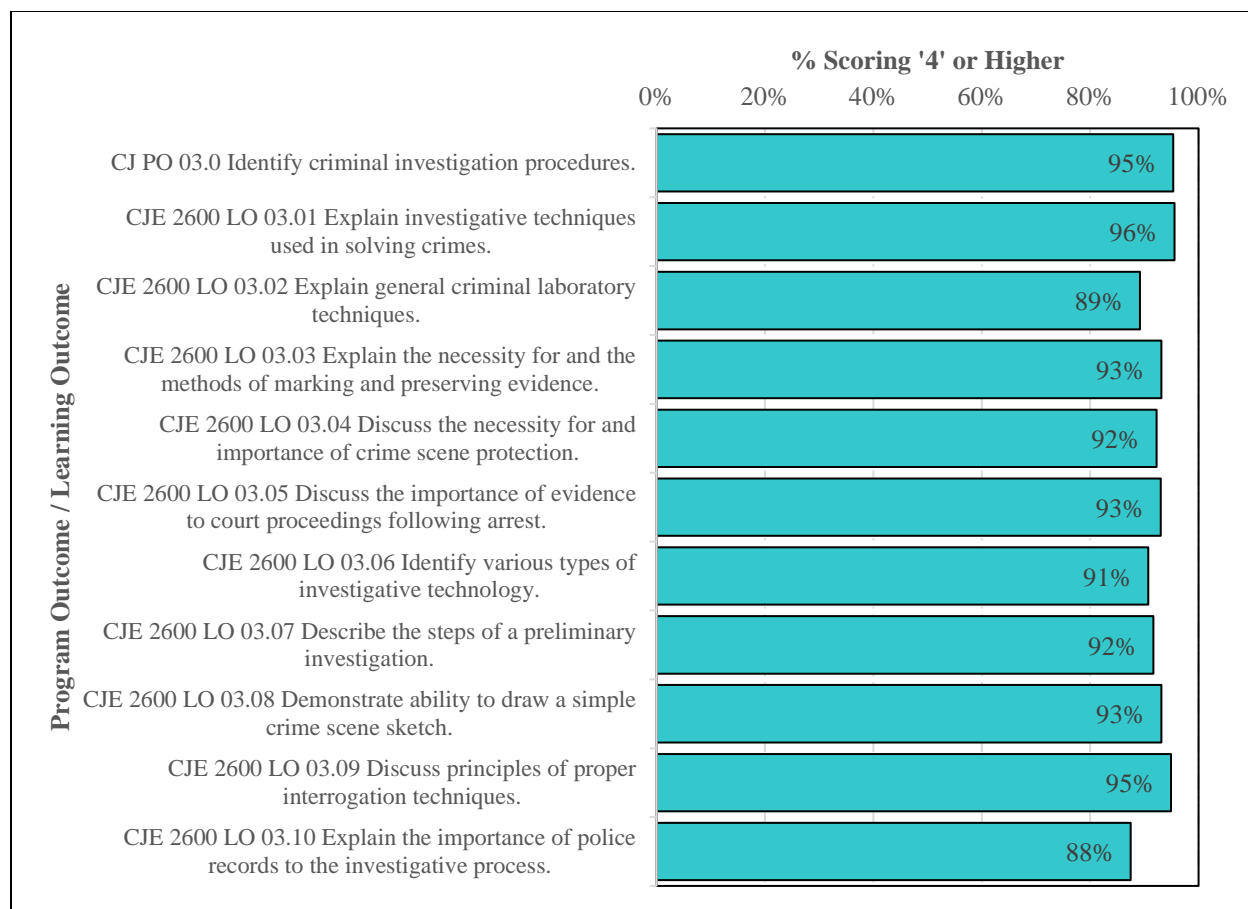


Figure 6. Bar graph of percentage of artifacts scoring '4' or higher by outcome for CJE 2600.

## 4.2 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.

### 4.2.1 Dual Enrollment (Concurrent) to Non-Dual Enrollment Comparison

No dual enrollment (concurrent) sections of the course were run during summer 2019 so no comparison study between dual enrollment and non-dual enrollment could be completed.

### 4.2.2 Online to Traditional Comparison

No traditional sections were run during summer 2019 so no comparison between online and traditional could be completed.

### 4.2.3 Comparison by Campus/Site

Only one site ran courses in summer 2019 so no cross-site comparison could be completed.

### 4.3 LONGITUDINAL STUDY

Description of achievement over time in CJE 2600 is provided in Figures 9 and 10. No LO exhibits a significant difference or trends from any other over time. Note that comparison from fall terms to spring terms is less useful as assessment reports across multiple course level and program level assessments at Florida SouthWestern State College typically exhibit substantial differences from fall to spring term and are better interpreted from fall-to-fall and spring-to-spring (see <http://www.fsw.edu/facultystaff/assessment/history> for further details).

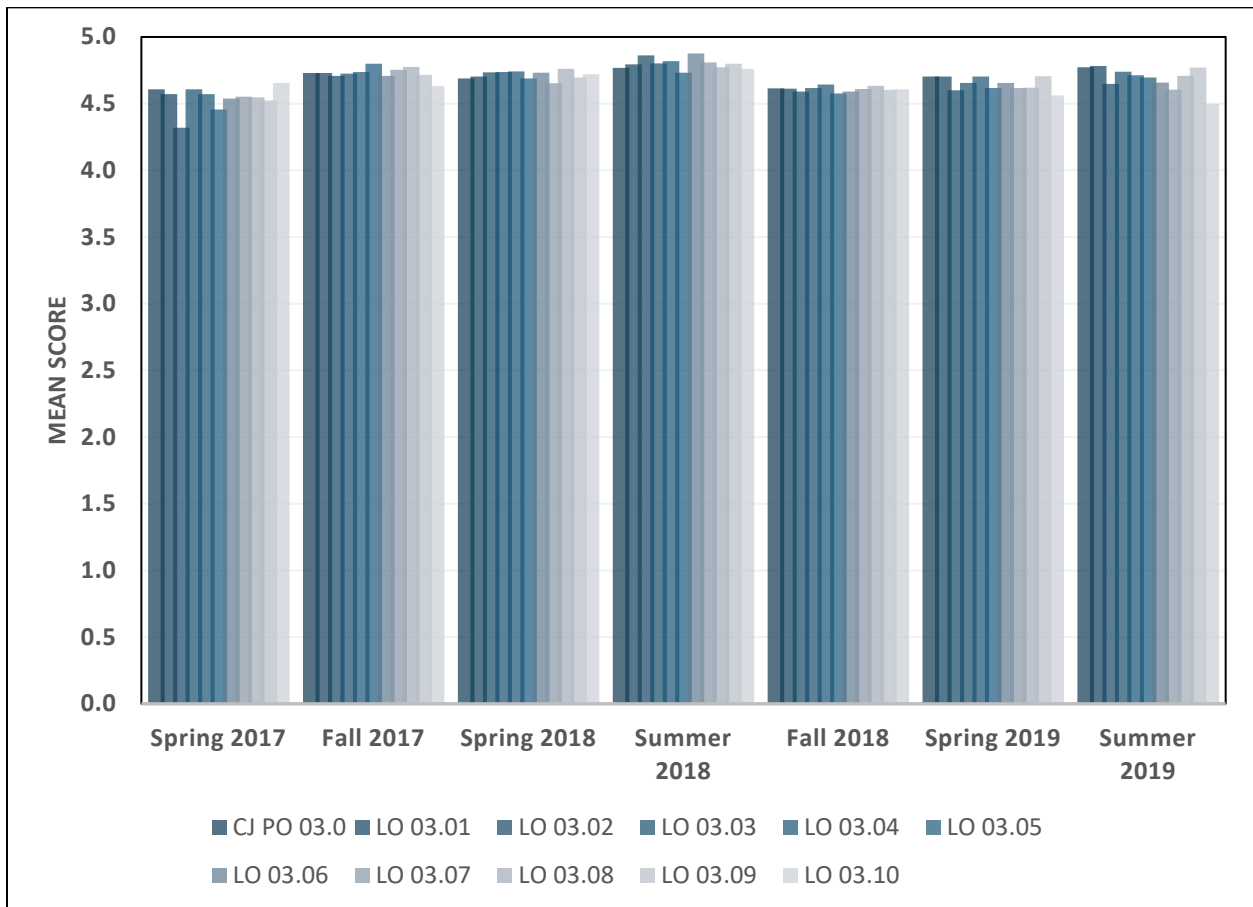


Figure 7. Bar graph of mean score by outcome for CJE 2600 over time.

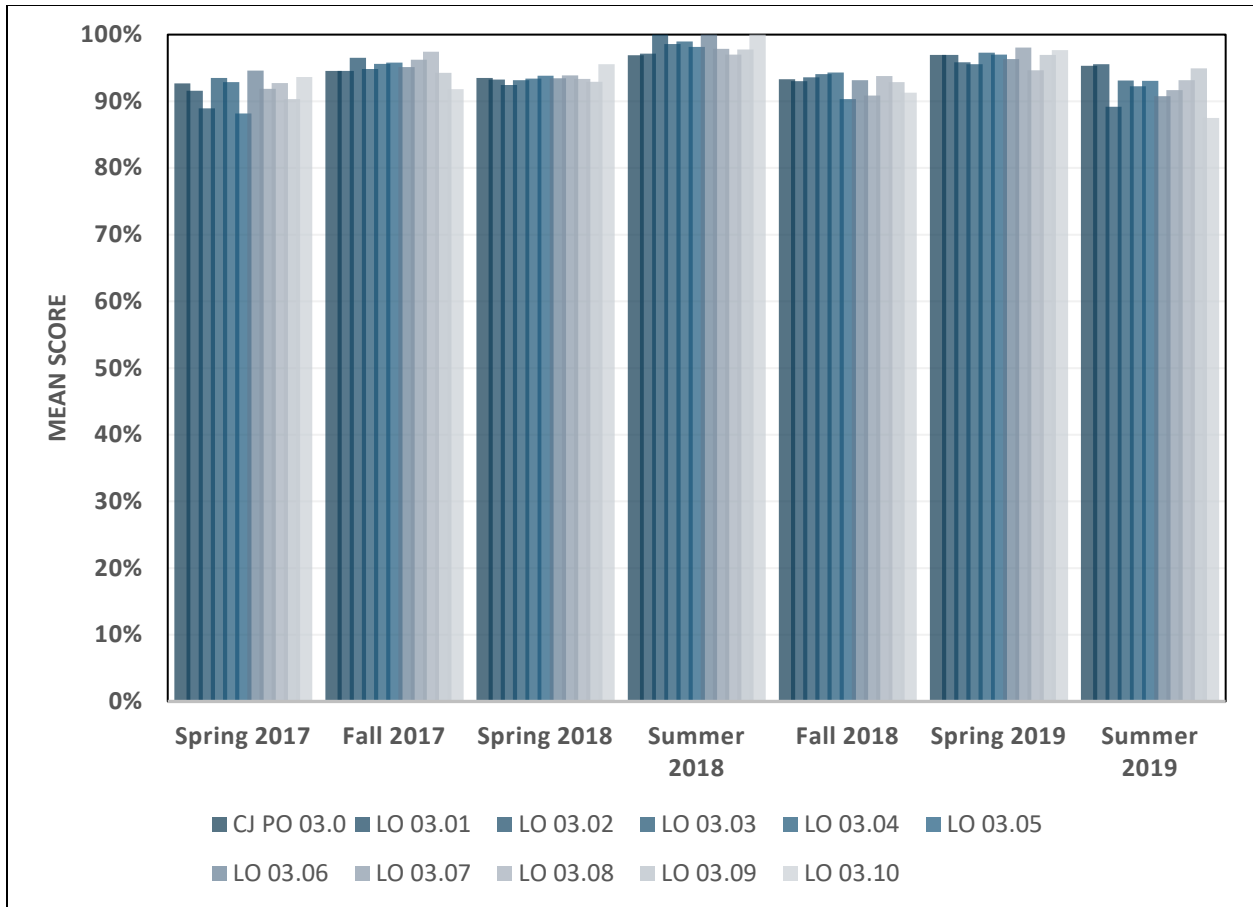


Figure 8. Bar graph of percentage of artifacts scoring '4' or higher by outcome for CJE 2600 over time.

## 5 CJE 2671

### 5.1 LEARNING OBJECTIVES AND DESCRIPTIVE STATISTICS

The FSW Business faculty defined one area of interest for evaluation in support of the state framework. The outcomes related to CJE 2671 are:

- CS PO 02.0 Demonstrate knowledge of collection and development of evidence.
- CS PO 03.0 Demonstrate knowledge of fingerprint development and preservation.
- CJE 2671 LO 03.01 Demonstrate knowledge of the techniques involved in the detection, enhancement, and recovery of latent fingerprints.
- CJE 2671 LO 03.02 Demonstrate appropriate application of processing techniques.
- CJE 2671 LO 03.05 Demonstrate ability to roll standard prints.

The measure of success related to CJE 2671 is:

- 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.

The course was not run during summer 2019, so no analysis could be completed.

## 6 CONCLUSIONS

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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 courses included in assessment are CJE 1300 *Police Organization and Administration*, CJE 1640 *Introduction to Crime Scene Technology*, CJE 2600 *Criminal Investigation Techniques* and CJE 2671 *Latent Fingerprint Development*. The assessment outcomes are intended to provide a baseline and measurement of achievement moving forward.

### 6.1 CJE 1300

A drill-down of CJE 1300 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 4.9 to 5.0. Outcome percent scoring 80% or higher range from 99% to 100%.
2. No traditional sections of the course were run during summer 2019, so no comparison study between online and traditional could be completed.
3. Only one site offered the course this term, so no comparison by site could be completed.
4. As further data is collected in coming summer terms, this section will track achievement through time and highlight strengths, weaknesses and any long-term trends beginning summer 2020.

### 6.2 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 4.7 to 4.8. Outcome percent scoring 80% or higher range from 97% to 100%.
2. Only one section (online) of the course was run in summer 2019, so no online to traditional comparison could be made.
3. Only one section (online) of the course was run in summer 2019, so no cross-site comparison could be made.
4. As further data is collected in coming terms, this section will track achievement through time and highlight strengths, weaknesses and any long-term trends. Because data collection issues continue to be a problem for two-thirds of the course sections, a longitudinal study is delayed until fall 2019.

### 6.3 CJE 2600

A drill-down of CJE 2600 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 4.5 to 4.8. Outcome percent scoring 80% or higher range from 89% to 96%.

2. No traditional sections were run during summer 2019 so no comparison between online and traditional could be completed.
3. Only one site ran courses in summer 2019 so no cross-site comparison could be completed.
4. In a longitudinal study of achievement, no LO exhibits a significant difference or trends from any other over time.

## 6.4 CJE 2671

A drill-down of CJE 2671 results are as follows:

1. The course was not run during summer 2019, so no analysis could be completed.

## 7 REFERENCES

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