# Foreign Language Assessment Report Fall 2018 

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## 1 INTRODUCTION

Florida SouthWestern's Foreign Language Department employs a common course assessment to measure student progress in course level objectives, a practice shown to be effective in establishing data driven instruction (Hall, 2010). Courses included in assessment are: FRE 1120 Elementary French I, FRE 1121 Elementary French II, SPN 1120 Beginning Spanish I, and SPN 1121 Beginning Spanish II. Through achievement of the courses students will acquire and demonstrate competency in speaking, writing, reading comprehension and listening comprehension in standard Spanish or French at the beginner's level. The assessment outcomes outlined below define the method of assessment for each course assessment as well as measure current Student Learning Outcomes (SLOs) and identify areas for future SLOs to be assessed. Additionally, the plan provides information on achievement levels of dual enrollment (concurrent) artifacts compared with traditional, as well as online artifacts compared with traditional artifacts as highlighted in the course level assessment plan. This report provides achievement analysis for both spring 2018 as well as longitudinal studies, where applicable.

For additional detail or further analysis not provided in this report, please contact Dr. Joseph F. van Gaalen, Asst. VP, IR, Assessment \& Effectiveness (ifvangaalen@fsw.edu; x16965).

## 2 French

### 2.1 FRE 1120

During the fall 2018 term, three sections of FRE 1120 were offered. An assessment first piloted in AY 2017-18 was used in two sections of FRE 1120 accounting for 26 artifacts, or $27 \%$ of the population. The assessment utilizes a combination quiz and disposition survey. In the assessment, the students are asked for their relative levels of confidence in translating a given topic in conjunction with performing brief translations of the same topic. Each of five disposition survey questions are tethered to two questions in which students are asked to (1) translate French by answering a question written in French using an English response and (2) translate French by answering a question written in French using a French response. The resulting assessment consists of 15 questions comprised of five survey questions and 10 achievement related questions. In form, the assessment measures achievement as well as alignment with student confidence of a given topic. Note that in one instance, the scoring was altered. It is important that scoring is consistent in an assessment such as this, so it may be important to review this area.

### 2.1.1 Descriptive Statistics, Learning Outcomes, and Objectives

The lead French faculty has identified five areas of interest for evaluation. Given that it the assessment is currently in pilot phase, no achievement objectives have yet been set. The Learning Outcomes (LOs) are:
> LO 1: Reading/Writing Introductions
> LO 2: Reading/Writing Daily Activities
$>$ LO 3: Reading/Writing Hobbies
$>$ LO 4: Reading/Writing Physical Appearances
$>$ LO 5: Reading/Writing Indoor and Outdoor Spaces
Each LO consists of two questions. The first, worth one point, requires a translation from French using English responses. The second, worth two points, requires comprehension of French using French responses. Each question can be scored at half-point intervals. The result is a combined maximum score of 15 points. Results exhibit mean scores across the five LOs ranging from 2.3 to 2.7. The highest scoring area is LO 5, with a mean score of 2.7/3.0. The lowest is LO 4 at 2.3/3.0. It is important to note that each LOs in this study are arranged in order of advancement for the course. LO 1 is encountered early in the term with each LO encountered sequentially to LO 5, which is studied near the term's end.


Figure 1. Mean scores by SLOs for FRE 1120.

### 2.1.2 Exploratory Analysis \& Significance Testing

### 2.1.2.1 Dual Enrollment (Concurrent) to Traditional Comparison

No dual enrollment (concurrent) sections of the course were run during fall 2018 so no comparison study between dual enrollment and traditional courses could be completed.

### 2.1.2.2 Online to Traditional Comparison

While an online section of the course was offered in fall 2018 , the sample size is limited. As a result, no comparison could be made.

### 2.1.2.3 Comparison by Campus/Site

While courses were offered at more than one location in fall 2018, data was only collected with a reasonable sample size from one location. As a result, no cross-site comparison could be completed.

### 2.1.3 Data Distribution \& Longitudinal Studies

### 2.1.3.1 Data Distribution

A distribution of combined (total) scores from the 10 achievement questions is shown below in Figure 2. Scores are centered on $15 / 15$ with a strong negative skew meaning scores are tending strongly towards higher values (Starkweather, 2010). In total, $73 \%$ of artifacts score $13 / 15$ or higher and $24 \%$ total $8 / 15$ or lower.


Figure 2. Distribution of combined (total) scores for assessment.
One of the strengths of a combined disposition survey and achievement assessment is the way in which the data can be analyzed. Survey questions that gauge confidence in a topic can now be compared with the results of achievement in that topic to better describe how student confidence varies with student strengths and weaknesses. Figure 3 exhibits the percent of artifacts with correct answers for each question (defined as 1a - translate French by answering a question written in French using an English response, 1b - translate French by answering a question written in French using a French response, and so on) based on student response to the confidence of that particular topic. For example, LO 1a and 1b are coupled with a survey question regarding confidence in reading and writing introductions. Similarly, LO $2 a$ and $2 b$ are coupled with a survey question regarding confidence in reading and writing in daily activities.

Results for LO1b exhibit no negative responses ("Disagree" or "Strongly Disagree"). Positive responses for LOs $2,3,4$, and 5 range from 50-60\%. LO 3 exhibits the highest negative responses at 52\% (Figure 3).


Figure 3. Comparison of \% correct based on response to related disposition survey item. Sample size (Strongly Agree / Agree / Disagree / Strongly Disagree) for LO 1: 17/12/0/0, LO 2: 12/17/0/0, LO 3: 13/15/1/0, LO 4: 20/9/0/0, and LO 5: 11/16/2/0.

Another way of gauging achievement based on disposition survey responses is through a scatter plot as shown in Figure 4 below. These results yield a clearer sense of just how many students self-report a strong understanding of the topic and yet do not appear to be capable of demonstrating it. In this study, 3 of 26 students report strong to very strong confidence in their skillset and yet did not achieve results comparable to that confidence. The highest of those three scoring $8 / 15$, or $53 \%$. Similarly, 2 of 26 students self-reports a lack of confidence despite scoring a $10 / 15,67 \%$, and $15 / 15$, or $100 \%$, respectively.


Figure 4. Scatter plot of combined (total) scores based on general response to survey questions.

### 2.1.3.2 Longitudinal Study

The assessment for FRE 1120 is in its first phase for fall 2018. As further data is collected in coming terms, this section will track achievement through time and highlight strengths, weaknesses and any long term trends following data collection for spring 2019.

### 2.2 FRE 1121

In FRE 1121, a 'readiness' mini-test (assessed, but not for a grade in the course) was intended to be administered on the first day of classes (Spring 2019) by the Office of Academic Assessment as a means of exploring the strengths and weaknesses uncovered in the Spring 2018 Foreign Languages Assessment Report. Results would have assisted in determining the preparedness of FRE 1120 students for FRE 1121 as well as coordinating the skills learned by students across course sections, campuses, and instructors. Unfortunately, the readiness mini-test was still in development as of January, 2019, and so the administration process could not occur. The readiness mini-test is now developed and ready for first implementation in fall 2019.

## 3 Spanish

### 3.1 SPN 1120

### 3.1.1 Descriptive Statistics, Learning Outcomes, and Learning Objectives

During the fall 2018 semester 16 sections of SPN 1120 Beginning Spanish I were offered. Of those, artifacts from a common final were collected from 14 sections. Two sections did not report data. A total of 335 students were enrolled in SPN 1120. Of those, 212 artifacts were collected representing a sample size of $63 \%$ of the population.

Using a common course assessment, the FSW Spanish faculty defined three areas of interest for evaluation that apply to SPN 1120. The Student Learning Outcomes (SLOs) and their objectives or measures of success are:
> SLO 1: Students will be able to understand spoken Spanish. The faculty established measure of success for this SLO is for $80 \%$ of students to demonstrate competency with a score of $70 \%$ or better in the oral comprehension exam sections (Section I).
> SLO 2: Students will be able to understand written Spanish. The faculty established measure of success for this SLO is for $80 \%$ of students to demonstrate competency with a score of $70 \%$ or better in the reading comprehension exam sections (Section II and III).
> SLO 3: Students will be able to write effectively in the Spanish language. The faculty established measure of success for this SLO is for $80 \%$ of students to demonstrate competency with a score of $70 \%$ or better in the writing competency exam sections (Section IV and V ).

The faculty established measure of success for SLO 1, $80 \%$ of students scoring $70 \%$ or higher in Section I, was not met as results exhibit $61 \%$ of artifacts score $70 \%$ or higher in the oral competency exam section (Section I) (Table 1). The faculty established measure of success for SLO 2, 80\% of students scoring 70\% or higher in Sections II and III, was partially met. Results exhibit 44\% of artifacts scored 70\% or higher in Section II and $81 \%$ of artifacts scored $70 \%$ or higher in Section III. The faculty established measure of
success for SLO 3, 80\% of students scoring 70\% or higher in Sections IV and V, was nearly met. Results exhibit $57 \%$ of artifacts scored $70 \%$ or higher in Section IV and $80 \%$ of artifacts scored $70 \%$ or higher in Section V. For a graphical representation of SLO achievement, see Figure 5.

| $\mathrm{n}=212$ | Section I (Oral) | Section II (Reading) | Section III (Reading) | Section IV (Written) | Section V (Written) | Combined (Overall) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Goal ------------------80\% of artifacts scored $\geq 70 \%$ for all sections |  |  |  |  |  |  |
| \% above 70\% | 61\% | 44\% | 81\% | 57\% | 80\% |  |
| Mean (as \%) | 73\% | 66\% | 83\% | 70\% | 79\% | 71\% |
| Median (as \%) | 73\% | 66\% | 87\% | 73\% | 85\% | 73\% |
| Section Score Max | 15 | 60 | 15 | 15 | 20 | 125 |
| Section Mean | 10.9 | 39.4 | 12.5 | 10.4 | 15.9 | 89.1 |
| Section Median | 11 | 39.8 | 13 | 11 | 17 | 91.4 |

Table 1. Percentage of student achievement level as per SLOs (SPN 1120).


Figure 5. SLO achievement for SPN 1120 by exam section (Percentage of student achievement level as per SLOs). Purple denotes having met objective.

### 3.1.2 Exploratory Analysis \& Significance Testing

Multiple comparisons of artifact scores across varying formats, campuses, and student types were made to more thoroughly detail the assessment data. Each course was divided into appropriate subgroups such as by campus or enrollment status to perform the analysis. Where possible, additional methods of analysis were conducted to provide a broader picture of these comparisons.

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

No dual enrollment (concurrent) sections of the course were run during fall 2018 so no comparison study between dual enrollment and traditional courses could be completed.

### 3.1.2.2 Online to Traditional Comparison

During the fall 2018 semester, three online sections reported data. From those course sections, 41 total online artifacts were collected from SPN 1120 and 171 traditional artifacts were collected from SPN 1120. A comparison of basic statistics is provided in Table 2. Online artifacts mean scores are 6.1 lower
than traditional artifacts. Differences in the means were tested for significance using a Welch's t-test according to standard methods (Davis, 1973; McDonald, 2009; Wilkinson, 1999) and were found to not be statistically significantly different. Therefore, we cannot reject the null hypothesis that the differences in the means of the online and traditional artifacts are equal to 0 , and we cannot conclude this with a $95 \%$ confidence that the differences in scores are not solely due to chance.

Effect size was calculated using a method devised by Rosenthal and Rosnow (1991) for meta-analytical purposes in potential comparisons with other institutions (Lipsey and Wilson, 1993). The results exhibit what Cohen (1988) would consider a small effect size. In other words, non-overlap score distribution from online artifacts to traditional artifacts is approximately $17 \%$. For a graphical representation of this see Figure 6.

| $\mathbf{d f} \mathbf{= 2 1 0}$ |  |  |
| ---: | ---: | :---: |
| Online mean | 66.4 |  |
| Online standard deviation | 21.82 |  |
| Traditional mean | 72.5 |  |
| Traditional standard deviation | 16.34 |  |
| - | Effect size | 0.23 |
| p-value | 0.101 |  |

Table 2. Comparison of mean scores (as \%) for online and traditional artifacts. Positive effect sizes indicate a higher mean score for traditional artifacts.


Figure 6. Score distribution for online (purple) and traditional (aqua) artifacts of SPN 1120.

### 3.1.2.3 Comparison by Campus/Site

Of the 212 artifacts collected from SPN 1120, 37 originated from the Charlotte campus, 25 from the Collier campus, 41 from FSW Online, and 109 from the Thomas Edison (Lee) campus. Scores by rubric dimension varied greatly across campuses. The Collier campus exhibits the highest mean scores in all sections of the exam across all sites. A comparison of mean scores by rubric dimension is provided in Table 3 and Figure 7.

|  | Section I | Section II | Section III | Section IV | Section V | Combined Score |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rubric Max | 15 | 60 | 15 | 15 | 20 | 125 |
| Charlotte | 9.3 | 37.6 | 11.2 | 10.8 | 15.5 | 84.4 |
| Collier | $\mathbf{1 3 . 4}$ | $\mathbf{4 3 . 9}$ | $\mathbf{1 4 . 4}$ | $\mathbf{1 3 . 3}$ | $\mathbf{1 6 . 4}$ | $\mathbf{1 0 1 . 5}$ |
| FSW Online | 10.0 | 39.0 | 11.8 | 7.5 | 14.7 | 83.0 |
| Thomas Edison (Lee) | 11.2 | 39.2 | 12.7 | 10.8 | 16.3 | 90.2 |

Table 3. Comparison of mean scores by site for SPN 1120. Bold denotes highest mean score in that dimension among all sites. Rubric dimensions identified in SLOs in blue.


Figure 7. Comparison of mean score of exam sections by site.

### 3.1.3 Data Distribution \& Longitudinal Study

### 3.1.3.1 Data Distribution

A histogram depicting the distribution of scores across each exam section is shown in Figure 8. All sections exhibit peaks above $90 \%$ except for Section II, which peaks at $50-59 \%$. Section II also continues to exhibit more widely distributed scores. Section II exhibits a peak of $15 \%$ at $\geq 90 \%$ while other sections range from $31 \%$ to $44 \%$.


Figure 8. Histogram of SPN 1120 exam sections scores for fall 2018. Purple - Section I, Brown - Section II, Green - Section III, Blue - Section IV, and Red - Section V.

To describe the behavior of the section scores based on overall achievement, a color map, or binary raster image, was created by calculating the mean scores for each exam section as a function of combined score (Figure 9). The color represents the mean section score achieved overall score as shown in the $x$-axis as a percentage.

A review of the colormap in Figure 9 shows that Section II remains the lowest performing compared to other sections between the ranges of $70-100 \%$. For example, in the $80-84 \%$ range, the mean score for Section II is $70 \%$, while the other four sections range from $82-88 \%$. This disparity is not present at $60-$ $64 \%$ and below. Additionally, Section III is over performing at the lowest overall scores. At the 50-54\% range, the Section III mean score is $71 \%$, whereas other sections range from $44 \%-56 \%$.

|  | Section <br> I | Section <br> II | Section <br> III | Section <br> IV | Section <br> V |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{2 9 5 \%}$ | $98 \%$ | $94 \%$ | $100 \%$ | $99 \%$ | $97 \%$ |
| $90-94 \%$ | $91 \%$ | $88 \%$ | $97 \%$ | $91 \%$ | $92 \%$ |
| $85-89 \%$ | $92 \%$ | $75 \%$ | $95 \%$ | $84 \%$ | $90 \%$ |
| $80-84 \%$ | $85 \%$ | $70 \%$ | $88 \%$ | $82 \%$ | $87 \%$ |
| $\mathbf{7 5 - 7 9 \%}$ | $73 \%$ | $66 \%$ | $87 \%$ | $73 \%$ | $84 \%$ |
| $70-74 \%$ | $66 \%$ | $57 \%$ | $87 \%$ | $7 \%$ | $80 \%$ |
| $65-69 \%$ | $67 \%$ | $61 \%$ | $73 \%$ | $54 \%$ | $77 \%$ |
| $60-64 \%$ | $61 \%$ | $48 \%$ | $70 \%$ | $62 \%$ | $68 \%$ |
| $\mathbf{5 5 - 5 9 \%}$ | $50 \%$ | $46 \%$ | $77 \%$ | $40 \%$ | $69 \%$ |
| $\mathbf{5 0 - 5 4 \%}$ | $46 \%$ | $44 \%$ | $71 \%$ | $45 \%$ | $56 \%$ |
| $\langle\mathbf{5 0 \%}$ | $25 \%$ | $38 \%$ | $47 \%$ | $17 \%$ | $42 \%$ |


| Scale |
| :--- |
| $100 \%$ |
| $90 \%$ |
| $80 \%$ |
| $70 \%$ |
| $60 \%$ |
| $50 \%$ |
| $40 \%$ |
| $30 \%$ |

Figure 9. (Top) Colormap of mean scores for each exam section based on overall scoring bin for SPN 1120. An exam section with hotter colors (reds) compared with other sections means section achievement is stronger in that area than others. An exam section with colder colors (blues) compared with other sections means section achievement is weaker in that area than others.

### 3.1.3.2 Longitudina/ Study

Further description of achievement over time in SPN 1120 is provided in Table 4 and Figure 10. Both demographics of students and student count vary by semester it may be more reasonable to compare like semesters (Fall vs. Fall, Spring vs. Spring) (see http://www.fsw.edu/facultystaff/assessment/history for further details). In 11 terms, Sections I through V for fall 2018 rank $10^{\text {th }}, 9^{\text {th }}, 9^{\text {th }}, 11^{\text {th }}$, and $7^{\text {th }}$, respectively.

|  | Section <br> Max | $\begin{gathered} \hline \text { Fall } \\ 2013 \\ \mathbf{n}=58 \\ \hline \end{gathered}$ | Spring 2014 <br> $\mathrm{n}=90$ | $\begin{gathered} \text { Fall } \\ 2014 \\ \mathbf{n}=93 \\ \hline \end{gathered}$ | Spring 2015 $\mathrm{n}=73$ | $\begin{gathered} \hline \text { Fall } \\ 2015 \\ \mathbf{n}=122 \\ \hline \end{gathered}$ | Spring 2016 <br> n=141 | $\begin{gathered} \hline \text { Fall } \\ 2016 \\ \mathbf{n}=240 \\ \hline \end{gathered}$ | Spring 2017 <br> $\mathrm{n}=89$ | $\begin{gathered} \text { Fall } \\ 2017 \\ \mathbf{n}=266 \end{gathered}$ | Spring 2018 $\mathrm{n}=107$ | $\begin{gathered} \hline \text { Fall } \\ 2018 \\ \mathbf{n}=212 \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Section I (Oral) | 15 | 12.1 | 12.4 | 11.8 | 11.5 | 10.8 | 11.5 | 11.9 | 11.9 | 11.9 | 12.0 | 10.9 |
| Section II (Reading) | 60 | 40.4 | 45.1 | 40.5 | 39.8 | 41.8 | 38.4 | 39.8 | 41.0 | 41.1 | 43.7 | 39.4 |
| Section III (Reading) | 15 | 12.0 | 13.2 | 12.8 | 12.8 | 12.4 | 13.3 | 12.8 | 13.0 | 12.9 | 12.8 | 12.5 |
| Section IV <br> (Written) | 15 | 10.6 | 11.7 | 11.1 | 10.9 | 11.5 | 10.5 | 10.9 | 11.0 | 11.5 | 11.6 | 10.4 |
| Section V (Written) | 20 | 16.2 | 16.8 | 16.5 | 16.4 | 15.2 | 15.7 | 15.2 | 16.7 | 15.4 | 16.4 | 15.9 |
| Combined (Overall) | 125 | 91.3 | 99.2 | 92.8 | 91.4 | 91.6 | 89.5 | 90.6 | 93.6 | 92.8 | 96.6 | 89.1 |

Table 4. Comparison of mean scores for SPN 1120 for fall 2013 through fall 2018.
Because some exam sections have different maximum scores ( 15,20 , and 60 ), to see which of the five sections of the exam exhibits the strongest achievement it may be best to relate them in terms of percent. As a percentage, Section III consistently exhibits the highest mean scores over time ranging from $80 \%$ to $89 \%$. Section II is consistently the lowest over time ranging from $64 \%$ to $75 \%$. The remaining sections, I, IV, and V, have consistently traded places as either the $2^{\text {nd }}$ highest scoring, or $2^{\text {nd }}$ lowest, throughout the time period of the study.


Figure 10. Comparison of mean scores (as percentage) for SPN 1120 through time from fall 2013 through fall 2018.

### 3.2 Entrance Skills Study

In the spring 2016 term, a brief assessment was piloted in two sections of SPN 1121 on the Thomas Edison campus prior to entering into any engaged study in the course. The purpose of the assessment was to assess student skills and retention of materials from SPN 1120 prior to beginning SPN 1121. The assessment consists of a 15 -minute reading comprehension quiz mirroring that which is seen in Section II of the SPN 1120 common final exam. The study compared study skill level based on the instructor they had for the previous course (SPN 1120) in an effort to align student skill level upon entry into SPN 1121. The pilot program for this study was first included in the fall 2015 assessment report. This program continues and was most recently administered at the beginning of spring 2019, before the writing of this report and is included here. The assessment has now been administered in all traditional sections of SPN 1121 beginning with summer 2016 through spring 2019 on the Charlotte, Collier, and Thomas Edison campuses. Results of the cumulative study are shown in Figure 11.

In concept, upon entry to SPN 1121, all students should have at least a passing score (or nearly so) of the final exam from SPN 1120. The entrance skills study exhibits a range of mean scores across instructor that is diminished since previous years (Figure 11). Results exhibit achievement levels based on previous instructor spanning as low as 13.8/30 (up from 12.5/30 following fall 2018) to as high as 21.6/30 (down
from 21.9/30 following fall 2018). This is a substantially decreased range from the earliest studies where the range was $7.2 / 30$ to $25.3 / 30$.


Figure 11. Comparison of achievement in entrance skills study assessment by instructor. Green dashed line denotes fall 2018 mean score for Section II of SPN 1120 (section of exam the entrance skills assessment is based).

### 3.3 SPN 1121

### 3.3.1 Descriptive Statistics, Learning Outcomes, and Learning Objectives

Six sections of SPN 1121 Beginning Spanish II were offered in fall 2018. Of those, artifacts were collected from a common final from 6 of 6 sections. A total of 100 students were enrolled in SPN 1121. Of those, 67 artifacts were collected representing a sample size of $67 \%$.

Using a common course assessment, the FSW Spanish faculty defined the same three areas of interest for evaluation that apply to SPN 1121 as those used for SPN 1120. For details on each SLO, see 3.1.1. The only difference between SPN 1121 and SPN 1120 in terms of measuring these outcomes is that the exam sections differ slightly and are noted in Table 5 below.

The faculty established measure of success for SLO 1, 80\% of students scoring 70\% or higher in Section I, was not met as results exhibit $57 \%$ of artifacts score $70 \%$ or higher in the oral competency exam section (Section I) (Table 5, Figure 12). The faculty established measure of success for SLO $2,80 \%$ of students scoring $70 \%$ or higher in reading only sections, Sections II, and VI, was not met. Results exhibit $39 \%$ of
artifacts scored $70 \%$ or higher in Section II and $31 \%$ of artifacts scored $70 \%$ or higher in Section VI. The faculty established measure of success for SLO 3, 80\% of students scoring $70 \%$ or higher in writing only sections, Sections V and VII, was nearly met. Results exhibit 57\% of artifacts scored $70 \%$ or higher in Section V and 79\% of artifacts scored $80 \%$ or higher in Section VII.

| $\mathrm{n}=67$ | Section I (Oral) | Section II (Reading) | $\begin{gathered} \hline \text { Section III } \\ \text { (Read// } \\ \text { Write) } \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Section IV } \\ \text { (Read/ } \\ \text { Write) } \\ \hline \end{gathered}$ | Section V (Writing) | Section VI <br> (Reading) | $\begin{gathered} \text { Section } \\ \text { VII } \\ \text { (Writing) } \end{gathered}$ | Combined (Overall) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Goal $80 \%$ of artifacts scored $\geq 70 \%$ for all sections |  |  |  |  |  |  |  |  |
| \% above Goal | 57\% | 39\% | 61\% | 54\% | 57\% | 31\% | 79\% |  |
| Mean (as \%) | 69\% | 58\% | 70\% | 68\% | 68\% | 56\% | 80\% | 68\% |
| Median (as \%) | 73\% | 63\% | 73\% | 73\% | 71\% | 60\% | 88\% | 70\% |
| Section Score Max Possible | 15 | 15 | 40 | 15 | 12 | 15 | 20 | 132 |
| Section Mean | 10.4 | 8.7 | 27.9 | 10.2 | 8.2 | 8.3 | 15.9 | 89.6 |
| Section Median | 11 | 9.5 | 29 | 11 | 8.5 | 9 | 17.5 | 92.0 |

Table 5. Percentage of student achievement level as per SLOs (SPN 1121).


Figure 12. SLO achievement for SPN 1121 by exam section (Percentage of student achievement level as per SLOs). Purple denotes having met objective.

### 3.3.2 Exploratory Analysis \& 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.

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

No dual enrollment (concurrent) sections of the course were run during fall 2018 so no comparison study between dual enrollment and traditional courses could be completed.

### 3.3.2.2 Online to Traditional Comparison

During the fall 2018 semester, two online sections reported data. From those course sections, 22 total online artifacts were collected from SPN 1121 and 45 traditional artifacts were collected from SPN 1121. A comparison of basic statistics is provided in Table 6. Online artifacts mean scores are 0.1 lower than traditional artifacts. Differences in the means were tested for significance using a Welch's t-test according to standard methods (Davis, 1973; McDonald, 2009; Wilkinson, 1999) and were found to not be statistically significantly different. Therefore, we cannot reject the null hypothesis that the differences in the means of the online and traditional artifacts are equal to 0 , and we cannot conclude this with a $95 \%$ confidence that the differences in scores are not solely due to chance.

Effect size was calculated using a method devised by Rosenthal and Rosnow (1991) for meta-analytical purposes in potential comparisons with other institutions (Lipsey and Wilson, 1993). The results exhibit what Cohen (1988) would consider a small effect size. In other words, non-overlap score distribution from online artifacts to traditional artifacts is approximately $0.5 \%$. For a graphical representation of this see Figure 13.

| $\mathbf{d f}=\mathbf{6 5}$ |  |
| ---: | :---: |
| Online mean | 67.8 |
| Online standard deviation | 19.13 |
| Traditional mean | 67.9 |
| Traditional standard deviation | 17.47 |
| Effect size | -0.004 |
| p-value | 0.986 |

Table 6. Comparison of mean scores (as \%) for online and traditional artifacts. Positive effect sizes indicate a higher mean score for traditional artifacts.


Figure 13. Score distribution for online (purple) and traditional (aqua) artifacts of SPN 1121.

### 3.3.2.3 Comparison by Campus/Site

While three sites reported data, the third site, Charlotte, only has a sample size of $n=5$. As a result, the comparison would not be of much interpretive value. As a result, the only two sites in which a comparison would be included are Thomas Edison (Lee) and FSW Online. Results of this comparison are exhibited in 3.3.2.2 (see above).

### 3.3.3 Data Distribution \& Longitudinal Study

### 3.3.3.1 Data Distribution

A histogram depicting the distribution of scores across each exam section is shown in Figure 14. Sections I, IV, V, and VII exhibit peaks centered on $\geq 90 \%$. Section II exhibits a peak at $60-69 \%$. Section III exhibits a peak at 70-79\%. And finally, Section VI exhibits a peak at $<30 \%$.


Figure 14. Histogram of SPN 1121 exam sections scores for fall 2018. Purple - Section I, Brown - Section II, Green - Section III, Blue - Section IV, Red - Section V, Orange - Section VI, and Black - Section VII.

To describe the behavior of the section scores based on overall achievement, a color map, or binary raster image, was created by calculating the mean scores for each exam section as a function of combined score (Figure 15). The color represents the mean section score achieved overall score as shown in the $x$-axis as a percentage.

A review of the colormap in Figure 15 shows several trends. First, Section VII exhibits a strong performance at lower overall scores. For example, in the 55-59\% range, Section VII exhibits a mean
score of $78 \%$, while other sections range from $38 \%-68 \%$. Second, Sections II and VI exhibit the weakest performance at mid-range scores. For example, in the range of 60-64\%, Sections II and VI exhibit scores of $48 \%$ and $35 \%$, while other sections range from $57 \%-77 \%$. And third, at high scores ( 85 or higher) all sections score fairly evenly. In the $85-89 \%$ range, section mean scores range from $81 \%$ to $93 \%$, a range of $12 \%$ points. By comparison, in the $75-79 \%$ range, section mean scores range from $60-95 \%$, or a range of $35 \%$ points.

|  | Section <br> I | Section <br> II | Section <br> III | Section <br> IV | Section <br> V | Section <br> VI | Section <br> VII |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{\geq 9 5 \%}$ | $97 \%$ | $93 \%$ | $93 \%$ | $95 \%$ | $97 \%$ | $96 \%$ | $99 \%$ |
| $\mathbf{9 0 - 9 4 \%}$ | $93 \%$ | $87 \%$ | $85 \%$ | $93 \%$ | $90 \%$ | $93 \%$ | $99 \%$ |
| $85-89 \%$ | $91 \%$ | $81 \%$ | $89 \%$ | $91 \%$ | $92 \%$ | $82 \%$ | $93 \%$ |
| $80-84 \%$ | $83 \%$ | $64 \%$ | $84 \%$ | $92 \%$ | $86 \%$ | $76 \%$ | $83 \%$ |
| $\mathbf{7 5 - 7 9 \%}$ | $85 \%$ | $75 \%$ | $69 \%$ | $82 \%$ | $81 \%$ | $60 \%$ | $95 \%$ |
| $70-74 \%$ | $71 \%$ | $70 \%$ | $74 \%$ | $71 \%$ | $78 \%$ | $54 \%$ | $86 \%$ |
| $65-69 \%$ | $67 \%$ | $63 \%$ | $67 \%$ | $68 \%$ | $61 \%$ | $62 \%$ | $81 \%$ |
| $60-64 \%$ | $74 \%$ | $48 \%$ | $68 \%$ | $76 \%$ | $57 \%$ | $35 \%$ | $77 \%$ |
| $\mathbf{5 5 - 5 9 \%} \%$ | $68 \%$ | $41 \%$ | $62 \%$ | $54 \%$ | $61 \%$ | $38 \%$ | $78 \%$ |
| $\mathbf{5 0 - 5 4 \%}$ | $60 \%$ | $27 \%$ | $74 \%$ | $51 \%$ | $44 \%$ | $36 \%$ | $71 \%$ |
| $\langle\mathbf{5 0 \%}$ | $27 \%$ | $13 \%$ | $36 \%$ | $22 \%$ | $35 \%$ | $23 \%$ | $41 \%$ |


| Scale |
| :---: |
| $100 \%$ |
| $90 \%$ |
| $80 \%$ |
| $70 \%$ |
| $60 \%$ |
| $50 \%$ |
| $40 \%$ |
| $30 \%$ |

Figure 15. (Top) Colormap of mean scores for each exam section based on overall scoring bin for SPN 1121. An exam section with hotter colors (reds) compared with other sections means section achievement is stronger in that area than others. An exam section with colder colors (blues) compared with other sections means section achievement is weaker in that area than others.

### 3.3.3.2 Longitudinal Study

Further description of achievement over time in SPN 1121 is provided in Table 7 and Figure 16). Both demographics of students and student count vary by semester. It may be more reasonable to compare like semesters (Fall vs. Fall, Spring vs. Spring). (see http://www.fsw.edu/facultystaff/assessment/history for further details). In 11 terms, Sections I through VII for fall 2018 rank $11^{\text {th }}, 10^{\text {th }}, 9^{\text {th }}, 10^{\text {th }}, 5^{\text {th }}, 11^{\text {th }}$, and $5^{\text {th }}$, respectively.

|  | Section <br> Max | $\begin{gathered} \text { Fall } \\ 2013 \\ \mathbf{n}=10 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Sp } \\ 2014 \\ \mathbf{n}=115 \end{gathered}$ | $\begin{gathered} \text { Fall } \\ 2014 \\ \mathrm{n}=25 \end{gathered}$ | $\begin{gathered} \text { Sp } \\ 2015 \\ \mathbf{n}=58 \end{gathered}$ | $\begin{gathered} \text { Fall } \\ 2015 \\ \mathbf{n}=17 \end{gathered}$ | $\begin{gathered} \hline \text { Sp } \\ 2016 \\ \mathbf{n}=109 \end{gathered}$ | $\begin{gathered} \text { Fall } \\ 2016 \\ \mathrm{n}=42 \end{gathered}$ | $\begin{gathered} \hline \text { Sp } \\ 2017 \\ \mathbf{n}=140 \end{gathered}$ | $\begin{gathered} \text { Fall } \\ 2017 \\ \mathbf{n}=45 \end{gathered}$ | $\begin{gathered} \hline \text { Sp } \\ 2018 \\ \mathrm{n}=136 \end{gathered}$ | $\begin{gathered} \text { Fall } \\ 2018 \\ \mathbf{n}=67 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Section I (Oral) | 15 | 11.5 | 12.3 | 11.9 | 12.2 | 11.5 | 10.7 | 11.5 | 11.8 | 10.6 | 12.2 | 10.4 |
| Section II (Reading) | 15 | 9.5 | 9.6 | 10.7 | 10.6 | 10.6 | 9.5 | 9.8 | 8.6 | 9.1 | 9.3 | 8.7 |
| Section III (Read/Write) | 40 | 34.2 | 32.3 | 30.0 | 31.1 | 29.9 | 30.8 | 25.9 | 29.2 | 27.3 | 29.0 | 27.9 |
| Section IV (Read/Write) | 15 | 9.5 | 11.4 | 10.6 | 11.4 | 11.3 | 10.5 | 10.7 | 10.3 | 11.8 | 11.2 | 10.2 |
| Section V <br> (Writing) | 12 | 7.5 | 5.7 | 9.5 | 8.5 | 8.1 | 8.3 | 7.2 | 7.9 | 8.1 | 8.4 | 8.2 |
| Section VI <br> (Reading) | 15 | 9.6 | 10.3 | 11.6 | 10.7 | 9.9 | 9.0 | 9.7 | 8.7 | 10.2 | 10.1 | 8.3 |
| Section VII (Writing) | 20 | 14.2 | 15.4 | 16.1 | 16.4 | 16.4 | 14.6 | 15.6 | 15.1 | 15.7 | 16.7 | 15.9 |
| Combined (Overall) | 132 | 96.0 | 97.0 | 100.5 | 100.9 | 97.7 | 93.5 | 90.3 | 91.6 | 92.8 | 96.9 | 89.6 |

Table 7. Comparison of mean scores for SPN 1121 for fall 2013 through fall 2018.


Figure 16. Comparison of mean scores (as percentage) for SPN 1121 through time.

## 4 CONCLUSIONS

Florida SouthWestern's Foreign Language Department employs a common course assessment in both French and Spanish courses to measure student progress in course level objectives in an effort to improve instruction. What follows is a drilldown of findings for both disciplines (French and Spanish) for the fall 2018 assessment.

### 4.1 French

A drill-down of FRE 1120 results are as follows:

1. A newly developed assessment first piloted in spring 2018 was used in two sections of FRE 1120 accounting for 26 artifacts, or $27 \%$ of the population. The assessment utilizes a combination quiz and disposition survey.
2. In a study of Learning Outcome (LO) achievement, results exhibit mean scores across the five LOs ranging from 2.3 to 2.7. The highest scoring area is LO 5 , with a mean score of 2.7/3.0. The lowest is LO 4 at 2.3/3.0. It is important to note that each LOs in this study are arranged in order of advancement for the course. LO 1 is encountered early in the term with each LO encountered sequentially to LO 5 , which is studied near the term's end.
3. No comparison of dual enrollment (concurrent) to traditional artifacts was completed because no dual enrollment sections were offered during fall 2018.
4. While an online section of the course was offered in fall 2018, the sample size is limited. As a result, no comparison could be made.
5. While courses were offered at more than one location in fall 2018, data was only collected with a reasonable sample size from one location. As a result, no cross-site comparison could be completed.
6. In a study of score distribution by section, scores are centered on $15 / 15$ with a strong negative skew meaning scores are tending strongly towards higher values. In total, $73 \%$ of artifacts score $13 / 15$ or higher and $24 \%$ total $8 / 15$ or lower.
7. In a study of achievement based on disposition survey question response, results for LO1b exhibit no negative responses ("Disagree" or "Strongly Disagree"). Positive responses for LOs 2, 3,4 , and 5 range from $50-60 \%$. LO 3 exhibits the highest negative responses at $52 \%$.
8. In an additional study of achievement based on disposition survey question response, results yield a clearer sense of just how many students self-report a strong understanding of the topic and yet do not appear to be capable of demonstrating it. In this study, 3 of 26 students report strong to very strong confidence in their skillset and yet did not achieve results comparable to that confidence. The highest of those three scoring $8 / 15$, or $53 \%$. Similarly, 2 of 26 students self-reports a lack of confidence despite scoring a $10 / 15,67 \%$, and $15 / 15$, or $100 \%$, respectively.
9. The assessment for FRE 1120 is in its first phase for fall 2018. As further data is collected in coming terms, this section will track achievement through time and highlight strengths, weaknesses and any long term trends following data collection for spring 2019.

A drill-down of FRE 1121 results are as follows:

1. In FRE 1121, a 'readiness' mini-test (assessed, but not for a grade in the course) was intended to be administered on the first day of classes (Spring 2019) by the Office of Academic Assessment as a means of exploring the strengths and weaknesses uncovered in the Spring 2018 Foreign Languages Assessment Report. Results would have assisted in determining the preparedness of FRE 1120 students for FRE 1121 as well as coordinating the skills learned by students across course sections, campuses, and instructors. Unfortunately, the readiness mini-test was still in development as of January, 2019, and so the administration process could not occur. The readiness mini-test is now developed and ready for first implementation in fall 2019.

### 4.2 SPANISH

A drill-down of SPN 1120 results are as follows:

1. During the fall 2018 semester 16 sections of SPN 1120 Beginning Spanish I were offered. Of those, artifacts from a common final were collected from 14 sections. Two sections did not report data. A total of 335 students were enrolled in SPN 1120. Of those, 212 artifacts were collected representing a sample size of $63 \%$ of the population.
2. Achievement of $80 \%$ of artifacts scoring $70 \%$ or better (SLO 1): Achievement was not met as results exhibit $61 \%$ of artifacts score $70 \%$ or higher in the oral competency exam section (Section I).
3. Achievement of $80 \%$ of artifacts scoring $70 \%$ or better (SLO 2): Achievement was partially met. Results exhibit 44\% of artifacts scored 70\% or higher in Section II and 81\% of artifacts scored $70 \%$ or higher in Section III.
4. Achievement of $80 \%$ of artifacts scoring $70 \%$ or better (SLO 3): Achievement was nearly met. Results exhibit $57 \%$ of artifacts scored $70 \%$ or higher in Section IV and $80 \%$ of artifacts scored $70 \%$ or higher in Section V.
5. No dual enrollment (concurrent) sections of the course were run during fall 2018 so no comparison study between dual enrollment and traditional courses could be completed.
6. In a comparison of online to traditional artifacts, online artifacts scores are 6.1 lower than traditional. Results were not statistically significantly different.
7. In a cross-campus comparison study, the Collier campus exhibits the highest mean scores in all sections of the exam across all sites.
8. In a study of score distribution by section, all sections exhibit peaks above $90 \%$ except for Section II, which peaks at $50-59 \%$. Section II also continues to exhibit more widely distributed scores. Section II exhibits a peak of $15 \%$ at $\geq 90 \%$ while other sections range from $31 \%$ to $44 \%$.
9. In a study of section score distribution based on overall score, Section II remains the lowest performing compared to other sections between the ranges of $70-100 \%$. For example, in the $80-84 \%$ range, the mean score for Section II is $70 \%$, while the other four sections range from 82$88 \%$. This disparity is not present at $60-64 \%$ and below. Additionally, Section III is over performing at the lowest overall scores. At the $50-54 \%$ range, the Section III mean score is $71 \%$, whereas other sections range from 44\%-56\%.
10. In a longitudinal study of data distribution through time, in 11 terms, Sections I through V for fall 2018 rank $10^{\text {th }}, 9^{\text {th }}, 9^{\text {th }}, 11^{\text {th }}$, and $7^{\text {th }}$, respectively.
11. In a study assessing student skills and retention of materials from SPN 1120 prior to beginning SPN 1121, results exhibit achievement levels based on previous instructor spanning as low as 13.8/30 (up from 12.5/30 following fall 2018) to as high as 21.6/30 (down from 21.9/30 following fall 2018). This is a substantially decreased range from the earliest studies where the range was $7.2 / 30$ to $25.3 / 30$.

A drill-down of SPN 1121 results are as follows:

1. Six sections of SPN 1121 Beginning Spanish II were offered in fall 2018. Of those, artifacts were collected from a common final from 6 of 6 sections. A total of 100 students were enrolled in SPN 1121. Of those, 67 artifacts were collected representing a sample size of $67 \%$.
2. Achievement of $80 \%$ of artifacts scoring $70 \%$ or better (SLO 1): Achievement not met as results exhibit $57 \%$ of artifacts score $70 \%$ or higher in the oral competency exam section (Section I).
3. Achievement of $80 \%$ of artifacts scoring $70 \%$ or better (SLO 2): Achievement was not met. Results exhibit 39\% of artifacts scored 70\% or higher in Section II and 31\% of artifacts scored $70 \%$ or higher in Section VI.
4. Achievement of $80 \%$ of artifacts scoring $70 \%$ or better (SLO 3): Achievement was nearly met. Results exhibit $57 \%$ of artifacts scored $70 \%$ or higher in Section V and $79 \%$ of artifacts scored $80 \%$ or higher in Section VII.
5. No dual enrollment (concurrent) sections of the course were run during fall 2018 so no comparison study between dual enrollment and traditional courses could be completed.
6. In a comparison of online to traditional artifacts, online artifacts score 0.1 lower than traditional. Results were not statistically significantly different.
7. While three sites reported data, the third site, Charlotte, only has a sample size of $n=5$. As a result, the comparison would not be of much interpretive value. As a result, the only two sites in which a comparison would be included are Thomas Edison (Lee) and FSW Online. The results of that comparison are shown in item \#6 above.
8. In a study of score distribution by section, Sections I, IV, V, and VII exhibit peaks centered on $\geq 90 \%$. Section II exhibits a peak at $60-69 \%$. Section III exhibits a peak at $70-79 \%$. And finally, Section VI exhibits a peak at < 30\%.
9. In a study of section score distribution based on overall score, several trends are present. First, Section VII exhibits a strong performance at lower overall scores. For example, in the 55-59\% range, Section VII exhibits a mean score of $78 \%$, while other sections range from $38 \%-68 \%$. Second, Sections II and VI exhibit the weakest performance at mid-range scores. For example, in the range of $60-64 \%$, Sections II and VI exhibit scores of $48 \%$ and $35 \%$, while other sections range from $57 \%-77 \%$. And third, at high scores ( 85 or higher) all sections score fairly evenly. In the $85-89 \%$ range, section mean scores range from $81 \%$ to $93 \%$, a range of $12 \%$ points. By comparison, in the $75-79 \%$ range, section mean scores range from $60-95 \%$, or a range of $35 \%$ points.
10. In a longitudinal study of data distribution through time, in 11 terms, Sections I through VII for fall 2018 rank $11^{\text {th }}, 10^{\text {th }}, 9^{\text {th }}, 10^{\text {th }}, 5^{\text {th }}, 11^{\text {th }}$, and $5^{\text {th }}$, respectively.

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