



### Course Information

Course Number: EDG6931

Course Title: Technology and Data Analysis for School Leaders

Credit Hours: 3

Pre-requisites: This course should be taken the first semester of study in the Educational Leadership Program

Instructor: Zafer Unal

Office Hours: by Appointment

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### Course Description & Content

This course presents a systematic survey of current research principles, methods and practices in education and learning technologies. Content will focus on the role of research in acquiring and disseminating information, methods of constructing hypothesis, developing research designs, selecting procedures for observation and measurement and applying appropriate technology. Other topics include reviewing evaluation studies, understanding different approaches to educational research by analyzing data and developing a research proposal. Using the Florida Leadership Standards, candidates will explore issues and trends surrounding educational technology.

1. Apply APA guidelines when writing course papers.
2. Understand and apply basic research designs.
3. Understand the components to writing a research paper.
4. Apply various technologies to support the use of data.
5. Review historical data and analyze for trends.
6. Understand the application of several research designs in schools.
7. Submit an artifact in CDN.

### Course Objectives & Standards Covered in this Course

1. Students will become familiar with the American Psychological Association (APA) guidelines for writing research. (FPLS 6, 7)
2. Students will review evaluation studies and understand different approaches to educational research by analyzing data and developing a research proposal. (FPLS 3, 5, 6, 7)
3. Students will explore issues and trends surrounding educational technology. (FPLS 7)
4. Students will evaluate a technology plan, identify hardware and software and related technology in order to design a technology plan appropriate to deliver instruction. (FPLS 5, 7, 8, 9, 10)
5. Students will use appropriate technology to address student performance needs and provide appropriate technology to address those needs. (FPLS 1, 2, 5, 7, 8, 9, 10)
6. Students will become familiar with the State of Florida Educational Technology Goal and be able to evaluate a school's compliance with these goals. (FPLS 5, 6, 7)
7. Students will be able to apply web based communication. (FPLS 6, 7)
8. Given research data, students will be able to apply the correct technology. (FPLS 7)
9. Students will be able to analyze historical data specifically addressing trends as presented by the data. (FPLS 1, 5, 6, 7)
10. Students will be able to identify learning gains of a sub-group by disaggregating data. (FPLS 5, 6, 7)
11. Students will be introduced to the Collaborative Digital Network (CDN).

### FELE Indicators Addressed in the Course

- Subtest 1.1.2. Given a set of school data, identify appropriate objectives and strategies for developing, implementing, assessing, and revising a school improvement plan.
- Subtest 1.1.3. Given a school data set, determine an appropriate instructional improvement strategy.
- Subtest 1.1.5. Given grade level data on reading, identify strategies to align curriculum, instruction, and assessment.
- Subtest 1:15.1. Given data (e.g., national, state, district, school, classroom, individual student), analyze student achievement
- Subtest 1:15.3. Given school data sets with differing accountability designations compare and contrast multiple measures of stat to analyze school needs.
- Subtest 3.2.1. Given an audience, interpret standardized test results (e.g., percentiles, stanines, raw scores, scale scores).

### Course Content & Activities

- Florida Educator Accomplished Practices
- ESOL Performance Standards

### Instructional Strategies Used in this Course

<i>Cooperative learning</i>	X
Direct Instruction	X
Large and Small Group Discussion	X
Instructor Modeling	X
Lecture	X
Independent student activities	X
Microteaching	
Role playing	
Peer assessment	
On-line Threaded Discussion	

### Required Textbooks and Materials

1. None

### Clinical Experience Assignments:

None

## Grades

### Grading Criteria:

A complete Technology Plan based on Action Research 700 points

Presentation/Reporting of Technology Plan 100 points

CDN Portfolio Upload/Annotation 100 points

Attendance & Participation: 100 points (10 weeks X 10 points each)

TOTAL: 1000 points

### Grading Scales:

Highest Lowest Letter

100.00 % 90.00% A

80.00 % 89.99% B

70.00 % 79.99% C

63.00 % 69.99% D

62.99 % 0.00 % F

Educational Leadership Program does not use minus or plus for grades.

## Assignments

### 1. A complete Technology Plan based on Action Research (700 points)

Abstract: 25 points

Introduction: 75 points

Literature Review: 100 points

Methods: Survey: 100 points

Results: 100 points

Discussions: 100 points

Action Plan: Acquisition, User Support, Professional Development Plan: 150 points

References: 50 points

A hard copy of the assignment will be provided to course instructor.

### 2. Presentation/Reporting of Technology Plan (100 points)

Prepare a PowerPoint Presentation to present your technology plan to the class. Students are expected to incorporate graphs and charts into the technology presentation. Results presented in the graphs are to be interpreted. The presentation is to be one that will be presented to a staff and is persuasive to the staff to implement the researched plan. All components of the Research Plan must be presented in the PowerPoint presentation including 20 - 25 slides with presenter notes.

### 3. CDN Portfolio Upload (100 points)

Completing a CDN Portfolio is one of the program requirements. In this course, you will be introduced to Florida Principal Leadership Standards, Collaborative Digital Network Portfolio system. Also, you will be creating your CDN account. Your assignment is to upload at least one document and write an annotation/reflection for it.

A hard copy of the assignment will be provided to course instructor.

### 4. Attendance and Participation (100 Points)

Course Schedule (10 Weeks)		
Dates	Topic	Assignment Due
Week 1	Course Overview, Introduction to Educational Research, Introduction to Action Research, Action Research Examples, Finding an Action Research Topic	NA
Week 2	Planning for Data Collection (Survey Planning)	Post your topic
Week 3	Designing Your Online Survey	
Week 4	Review of Literature Section	Post your survey
Week 5	Methodology Section	Post your Literature
Week 6	Results Section	Post your methodology
Week 7	Discussion and Action Plan	Post your results
Week 8	Title, Abstract, Introduction, References	Post your discussion and action plan
Week 9	CDN Portfolio System	Post your entire paper
Week 10	Putting It All Together	Post your CDN submission

**Policies & Procedures:**

**USFSP General Attendance Policy**  
 Only officially registered students or students approved to audit a class are entitled to attend class. Students are responsible for being aware of all instructor-based and University issued attendance policies and the requirements of the registrar for enrollment, drop/add and fee liability. Students are responsible for completing the academic requirements of each class as defined by the instructor and as set forth in any class syllabus. An instructor may make attendance mandatory and may impose penalties, including failing a class, for excessive absences. It is university policy that student absences will be excused for military duty, jury duty, and religious days (as set forth in University policy 10-045). Excused absences for other documented reasons may be allowed at the discretion of the instructor. Though excused, the student is responsible for completing all academic work, examinations, assignments and labs in a timely fashion.

**Attendance and Assignments:** Attendance at all class sessions and active participation is required (except: military duty, jury duty, and religious days). If you cannot attend the class due to an extreme emergency, inform the instructor via email for record keeping purposes. You will be required to bring the documentation for your excuse prior to returning to class.

- Because of the Summer short term course schedule (10 weeks comparing to 15 for FALL or 14 for SPRING semesters), ONLY missing one class meeting with documentation will be allowed.
- However, in the event of an extended absence (2 days out of 10), your overall course grade will be reduced

one level (from A to B, or B to C).

- More than 2 absences, you will be encouraged to withdraw from the class. No late assignments will be accepted.

**Course Material Policy:** Course participants are not permitted to sell notes/tapes of class lectures or course materials. "All unauthorized recordings of class are prohibited. Recordings that accommodate individual student needs must be approved in advance and may be used for personal use during the semester only; redistribution is prohibited."

**Religious Holidays:** Students who anticipate being absent from class due to religious observance should inform the instructor by the second class meeting

**Academic Honesty:** Students attending USF are awarded degrees in recognition of successful completion of coursework in their chosen fields of study. Each individual is expected to earn his/her degree on the basis of personal effort. Consequently, any form of cheating on examinations or plagiarism on assigned papers constitutes unacceptable deceit and dishonesty. Disruption of the classroom or teaching environment is also unacceptable. This cannot be tolerated in the University community and will be punishable, according to the seriousness of the offense, in conformity with this policy. Punishment for academic dishonesty will depend on the seriousness of the offense and may include giving the student an "F" or "Zero" on the subject paper, lab report, etc.; or an "F" in the course. If the offense is serious enough, it may warrant the student's suspension or expulsion from the University. The University drop and forgiveness policies may not be used for a course in which the student has been accused of academic dishonesty. The internal transcript of a student who is awarded an "F" for academic dishonesty will read "FF." Note: A grade of "F" for academic dishonesty, resulting in a grade of "FF" in the student's record, requires notification of the intent to award the grade to the student and subsequent approval by the Graduate Dean or Undergraduate Dean as appropriate. Notice that a student has been dismissed for reasons of academic dishonesty may be reflected on the student's transcript.

#### **Americans with Disability Act (ADA) Statement**

It is the USF's policy to provide reasonable accommodations to students with disabilities under ADA. At the beginning of the semester, any student with a disability should inform the course instructor if instructional accommodations or academic adjustments will be needed. For more information about the ADA and academic accommodations or adjustments, contact the Office of Disability Resources and Services at (727) 553-4413 or by e-mailing [mcdowell@stpt.usf.edu](mailto:mcdowell@stpt.usf.edu).