



Course Description

EDF4433 | Data-Driven Instructional Change | 3.00 credits

This course on data-driven decision-making is designed for current teachers. The student will learn to set measurable goals, collect and analyze data, implement instructional interventions, and align practice to school improvement.

Prerequisite: Bachelor's degree in education.

Course Competencies

Competency 1: The student will compare and contrast data-driven decision-making and federal accountability by:

1. Defining the major purposes of data-driven decision-making (DDDM) and federal accountability
2. Describing the history of DDDM and federal accountability
3. Explaining the difference between DDDM and federal accountability
4. Identifying the challenges and opportunities teachers and schools face as a result of implementing DDDM and federal accountability

Competency 2: The student will demonstrate use of summative data to develop SMART goals at the classroom level by:

1. Interpreting and analyzing data
2. Identifying key indicators of success at the classroom level
3. Defining "SMART" goals as specific, measurable, action-oriented, realistic, and time-based and how these relate to the classroom
4. Aligning SMART goals with the School Improvement Plan

Competency 3: The student will identify emergent patterns in formative assessment data and conduct root cause analysis by:

1. Analyzing data and identifying patterns of non-attainment of goals
2. Interpreting findings from research
3. Utilizing data to identify relationships between instructional practices, non-instructional practices, environmental factors, and home life to student outcomes

Competency 4: The student will develop best practices in instructional interventions by:

1. Analyzing formative assessment data.
2. Designing instructional interventions that link assessment data and research-based best practices
3. Implementing an instructional plan that is grounded in best practices research
4. Providing a complete answer to the question, "What impact did data-driven decision-making have on the students' learning outcomes?"

Competency 5: The student will design a continuous improvement plan by:

1. Identifying school and/or grade level needs for curricular revision that are supported by data
2. Developing school and/or grade level SMART goals

Learning Outcomes:

- Communicate effectively using listening, speaking, reading, and writing skills
- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information