



SCIENCE OF READING FUNDAMENTALS MICROCREDENTIAL

Course Details

Credit Hours:

- 35 CTLE hours
- Microcredential and Certificate

Class Delivery:

- Online, self-paced course
- A new module will open upon completion of the previous module
- Participants must complete the course within six months from the date of enrollment

Course Modality:

- Online Asynchronous

Course Description

The Science of Reading Fundamentals course is a curriculum-agnostic look at the building blocks of literacy education and is designed to be a valuable complement to any P-12 literacy program. This course introduces participants to innovative, evidence-based tools and concepts, and provides a useful starting point for anyone interested in the latest research about how children learn to read.

Student Learning Outcomes

Upon completion of this course, students will be able to:

- **Understand and implement** the five pillars of effective reading instruction on which the Science of Reading is based.
- **Analyze and synthesize** data from a variety of diagnostic literacy assessments.
- **Recognize and begin to apply** tailored Science of Reading instructional components in a P-12 classroom setting.
- **Build** on Science of Reading instructional content to employ professional judgment, fair-mindedness, empathy, ethical behavior, and practical knowledge for improving all students' reading development and achievement.

Reading Materials

All necessary materials are included in the course.



Grading Information

- A required quiz is given at the end of each module (5 quizzes total)
- A score of 80% must be achieved to proceed to the next module
- Multiple attempts are allowed for each quiz

Summary of Topics Covered and Course Schedule

Welcome

- Welcome
- National Assessment of Educational Progress (NAEP) Scores and Reading Failure
- Meet the Course Creators
- Course Overview
- Course Objectives and Content Description
- Completing the Course
- Course Welcome Summary

Pre-Test

- All participants are required to take a 25-question pre-test

Phonemic Awareness

- Phonemic Awareness Objectives
- A Simple View of Reading, The Reading Rope, and Neuroscience
- Phonemic Awareness Overview and Terms
- Phonemes
- Segmenting: A Classroom Script
- Phoneme Counting Practice
- Common Challenges
- Phoneme Confusions
- Prevention and Remediation
- Phonological Skills
- Segmenting Assessment and Instruction
- Spelling Assessment and Instruction
- **Phonemic Awareness Quiz**

Phonics Part 1: Alphabetic Principle

- Alphabetic Principle Objectives
- Alphabetic Principle Overview and Terms

- Common Confusions
- Instructional Considerations: Teaching Letters and Letter Sounds
- Curriculum-Based Measurements
- Assessing and Teaching Letter Names and Sounds
- Assessing and Teaching Letter Formation
- Phoneme-Grapheme Mapping
- **No Quiz in Phonics Part 1: Alphabetic Principle**

Phonics Part 2: Orthography

- Orthography Objectives
- Orthography Overview and Terms
- Exploring How Spelling Supports Reading
- Exploring Word Families
- Exploring Multisyllabic Words
- Phonics Assessments
- Word Families
- Spelling and Word Study
- Multisyllabic Words
- **Phonics Part 1 and 2 Quiz**

Module 3: Fluency

- Fluency Objectives
- Fluency Overview and Terms
- Word Recognition and Processing
- High Frequency Words
- Oral Reading Fluency
- Word Reading Fluency Assessment
- Passage Reading Fluency
- Teaching High Frequency Words

- Repeated Reading
- **Fluency Quiz**

Module 4: Vocabulary

- Vocabulary Objectives
- Vocabulary Overview and Terms
- Word Selection and Meaning
- Morphology
- Synonyms and Semantic Gradients
- Independent Word Learning
- Vocabulary Assessment
- **Vocabulary Quiz**

Module 5: Comprehension

- Comprehension Objectives
- Comprehension Overview and Terms
- Relevant Background Knowledge
- Selecting Materials
- Teaching Central Ideas
- Teaching Structure and Graphics/Text Features
- Comprehension Instruction and Assessment
- **Comprehension Quiz**

Post-Test

- All participants are required to take a 25-question post-test