

Aligning to Standards Package (25 Hours)



Understanding and breaking down standards can be a challenging process for any teacher. This online PD course has DIY classroom tools, instructional strategies and educator resources to help teachers identify standards relevant to any grade or subject area. Examine curriculum design, consider lesson plans and make activities for classrooms that improve grades. Ideas and simple templates for assessments, rubrics and student portfolios help teachers evaluate and grade student work while meeting standards.

The Aligning to Standards Package includes 5 self-study courses (5 hours each) for a total 25 hours of professional development.

- Enhancing Instruction through Standards
- Integrating Standards in Teaching
- Mathematics for All Teachers
- Raising Academic Achievement through Standards
- Standards-based Instruction through STEM

Enhancing Instruction through Standards



Standards:

This course aligns to the INTASC Standards including Learner Development, Learning Environments, Content Knowledge, Application of Content, Assessment, Planning for Instruction and Instructional Strategies.

It also aligns to the McRel Teacher Evaluation Standards including Teacher Leadership, Teachers Know Content, Teachers Facilitate Learning and Teachers Analyze and Reflect.

Explore practical ways to integrate the Standards into your classroom instruction and enhance student learning experiences. This course provides an insight into the roles of teachers and students in the implementation of standards by integration of proven strategies like collaborative learning, differentiated instruction, and technology.

This course is filled with resources, ideas, and techniques to test the will and the skills of every school leader and teacher, so that every student receives consistent, high-quality instruction. Teachers are provided with instructional strategies to handle the different forms of negative behavior that surface in the classroom.



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Enhancing Instruction through Standards

Course Outline

LESSON 1: Understanding Standards

- Introduction to standards
- Integration of differentiated instruction, in response to student readiness
- Incorporation of the four models of blending learning: rotation model, flex model, a la carte model and enriched virtual model

LESSON 2: School-wide Instructional Changes

- Requirements of the standards for students leaving high school
- Analysis of the literacy components such as reading, writing, speaking & listening, and language
- Making mathematics practical with the collaboration of standards of mathematics
- School-wide steps to implement Standards in mathematics, English, and language arts
- Using extended school days, an extended school year, after-school tutoring, and multi-tiered interventions to meet the rigors of the standards

LESSON 3: Classroom Instructional Strategies

- Classroom instructional strategies that help teachers meet the standards
- Examining techniques to help students interact successfully with new knowledge
- Approaches to hypothesis generation and testing
- Application of classroom understanding to real world problems
- Ways to establish and maintain effective relationships with students

LESSON 4: Standards-based Behavior Management

- Role of teachers as behavior managers, to reinforce class-wide behavioral standards
- Understanding on-task and off-task behaviors
- Application of Response to Intervention (RTI) model
- Classroom management plan that summarizes the important routines, procedures, and consequences
- Ideas and techniques to make learning an ongoing, dynamic, and enjoyable process



5 Hours
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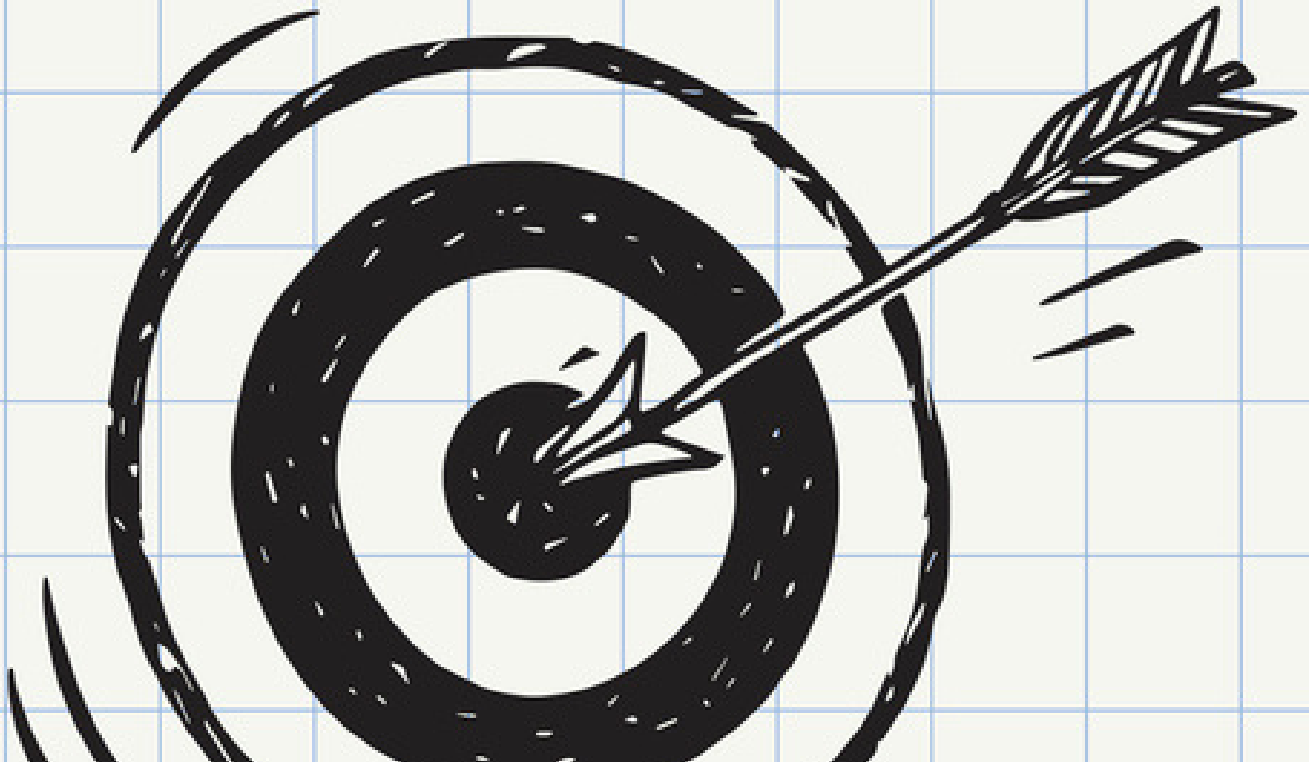
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Integrating Standards in Teaching



Standards:

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It also aligns to all of the McRel Teacher Evaluation Standards including Teacher Leadership, Diverse Learners, Teachers Know Content, Teachers Facilitate Learning and Teachers Analyze and Reflect.

We're told that a standards-based curriculum is supposed to increase student learning and promote higher student achievement, but what is it really all about?

This course helps educators untangle what turns out to be the not-so-mysterious-language of today's teaching and learning, and put successful strategies into practice.



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Integrating Standards in Teaching

Course Outline

LESSON 1: Standards

- What standards are and the difference between content and performance standards
- Challenges that teachers and schools face while integrating standards
- About the standards

LESSON 2: Integrating Standards

- Integrated curriculum
- Levels of integration
- Discipline integration, combined integration, multidiscipline integration, interdisciplinary integration, trans disciplinary integration, and how these can be implemented in the classroom

LESSON 3: Impact on People, Instruction and Planning

- The teacher's role and the student's role in planning
- Procedural and conceptual knowledge
- Evaluating standards and building a framework in order to implement them
- The importance of learning objectives

LESSON 4: Principles of Assessment

- Pre-assessment
- Difference between formative and summative assessments
- Concepts related to designing and implementing assessments including backward design and testing
- Principle of authentic assessment



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Mathematics for All Teachers



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Mathematics education is evolving - instead of just solving questions on paper, it's all about practical application. Math is also connected with every other subject taught in the classroom. This course will help all teachers gain confidence in integrating math effectively into their teaching practice.

Teachers will understand math practices, application of math through standards, and the different ways a teacher can enhance student learning. This course encourages teachers to set up their classroom in a way that increases student involvement and makes math real and fun for everyone.



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Mathematics for All Teachers

Course Outline

LESSON 1: Introduction

- History of mathematics
- The truth about math
- Discrediting the different math myths
- The solution to math anxiety

LESSON 2: Math Practices

- Mathematics redefined
- NCTM and CCSS standards related to math
- Mathematical practices and strategies to employ in the classroom

LESSON 3: Facilitating Student Learning

- Motivation theories and how to apply them in the classroom
- Different learning styles
- Understanding brain power
- Content knowledge and application

LESSON 4: Setting Up

- Math and group work
- Making connections between math and real life
- Using mathematical tools
- Encouraging persistence, providing novelty, and differentiating instruction while teaching math



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Raising Academic Achievement through Standards



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In the past, students who were failing were often sent for special education services whether or not they really needed it. However, the education system today aims to help all students succeed in the general educational setting. In such a setting, teachers play a critical role in identifying those who are struggling to learn and succeed in academics and intervening with help.

This course provides educators with information about academic interventions that can be incorporated in the classroom through frameworks — such as the RTI — or even in the absence of such structures.



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Raising Academic Achievement through Standards

Course Outline

LESSON 1: Standards and Academic Interventions

- Standards in education
- Differentiating between core instruction, accommodations, modifications, and interventions
- Academic interventions, classroom intervention plans, and understanding warning signals of students at risk

LESSON 2: Response to Intervention

- Response to Intervention (RTI)
- Connecting RTI and the standards
- Essential components of RTI
- Tiered interventions
- Challenges when implementing RTI

LESSON 3: Literacy Interventions

- Importance of literacy skills
- Problems students face in literacy
- Standards in English Language Arts/Literacy
- Academic interventions for struggling readers
- Academic interventions for students struggling with writing skills

LESSON 4: Math Interventions

- Importance of math
- Problems students face
- Standards in math
- RTI and math
- Specific interventions for improving math skills



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Standards-based Instruction through STEM



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STEM integration doesn't need a huge budget, lots of technology, or a ready-to-use curriculum. It's something any teacher, any school, and any classroom can integrate.

No one knows your students better than you. That's why this course is designed to equip and encourage you to integrate STEM education into your classrooms in ways that you think are most suitable for your students. You will learn how to plan your classroom set-up, design your own STEM curriculum, and integrate standards.

STEM education is not just about doing what's "cool." It is essential that students learn how to apply what they learn in real life situations and across different subjects.



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Standards-based Instruction through STEM

Course Outline

LESSON 1: Introduction

- Definition of STEM
- Need for STEM
- Three STEM program attributes and five different STEM program models

LESSON 2: Setting Up for STEM

- Characteristics of STEM students and teachers
- Understanding STEM in the context of Math and Science
- Integrating STEM into any classroom
- Choosing appropriate STEM material and curriculum

LESSON 3: STEM Standards and Assessments

- Shared standards that are internationally benchmarked
- Challenges and benefits of successful STEM assessments
- Assessments for elementary, middle, and high school classrooms
- Benefits, opportunities, and challenges of STEM integration

LESSON 4: Designing STEM PK-12 Curriculum

- Integrating STEM into elementary, middle, and high-school classrooms
- Designing STEM instruction for the year
- Writing individual STEM units using science, math, technology, and literacy standards
- Implementing effective lessons in the classroom



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