

Differentiation in the Math Classroom (6-12)

Course Syllabus

Instructor Information

Facilitator/Instructor: Kimberly McLean, MS

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Course Identification

Title of Course: Differentiation in the Math Classroom (6-12)

Location: Online

Dates: June 29th – July 9th, 2015

**Although this is a 2 week course, I am allowing extra time to complete the Final Project. The Final Project will be due on July 13th, 2015 **

Class Times: Online

Suggested Time: 45 hours

Credits: 3 credits (MSDE approved CPD experience; credit may be used for re-certification)

Course Description

Considering the varying learning needs of the students in our classrooms, teachers can develop personalized instruction so that all children in the classroom can learn effectively. Not only can the differentiation of instruction address student needs, but it also helps to engage learners and challenge them appropriately. This course will help you to identify when differentiation is needed and will give you some strategies and resources that can be utilized in your classroom to help you challenge and engage the learners in your mathematics classroom.

Course Objectives and Learner Outcomes

- Participants will explore differentiation and its role in the mathematics classroom.
- Participants will explore many strategies for the differentiated classroom (i.e. tiered lessons, jigsaw activities, flexible grouping, the flipped classroom)
- Participants will learn about Multiple Intelligences and will explore how to differentiate according to them.

Course Outline

Days 1 - 2: What is Differentiation and why is it needed in the Mathematics Classroom

Days 3 - 6: Strategies for the Differentiated Mathematics Classroom

Days 7 – 8: Multiple Intelligences and the Differentiated Classroom

Final Project: Develop two differentiated lesson plans using two different strategies.

Evaluation

Informal: (15 points total)

- Students will be evaluated through their participation and sharing of ideas online in discussion boards when creating an original thread: (3 discussion boards x 3 points each) = 9 points
- Students will be evaluated through participation and responding to others' ideas in discussion boards: (6 posts total x 1 point each) = 6 points

Project: (85 points total)

- Reflections (3 Reflections x 10 pts each): 30 points
- Multiple Intelligence Ideas: 15 points
- Final Project (2 Lessons): 40 points

Grade Scale

Total Points: 100 Points

80-100: Passing

Below 80 points in a graduate level class is unacceptable and represents a failing grade.

While this course is for MSDE credit, satisfactory completion of all tasks is required for the 3 credits.

Resources

All resources are available online at no cost. There is no required textbook for this class. We will be reading online articles and websites.