

COURSE GUIDELINES AND DESCRIPTION

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| Course Title: | Methods of Teaching Early Childhood Math and Science Using Standards Based Instruction |
| Sponsoring Agency: | DoDDS-Europe/ Mediterranean District |
| Audience: | Teachers at Lajes American School |
| Semester Hours: | 2.0 graduate credits |
| Course Dates/Times: | March 2 (2:45-5:45); March 3 (8:00-3:00); March 9 (2:45-5:45); March 16 (2:45); March 17 (8:00-3:00); March 23 (2:45-5:45) There will be several small group sessions taking place so that participants will receive 30 contact hours. |
| Location: | Lajes American School |
| Number of participants: | 5+ |
| Tuition: | \$110.00 |
| Course Code: | USD Course Code = 581P Ashland University Course Code = 6275F6 |

Course Guidelines

A. **Course Registration** – To register for the course the participants must submit an online registration form located at <http://www.usd-online.org/inted.htm> (University of San Diego) or <http://www.ashland.edu> (Ashland University). The registration deadline is **March 12**. (No later than ten days after the start of the class as per the agreement.)

Course Requirements

1. Attend all sessions of the study group.
2. Read the assignments from the books, Building a Studtem of Tens, DoDEA Curriculum Content Standards and NCTM, Principles and Standards for School Mathematics, Using Language During Science Activities, Using Language during Science Activities, Capitalizing on Children's Fascination with the Everyday World to Foste Language and Lieracy Development, Science at the Center of the Integrated Curriculum-10 Venefits Noted by Head Start Teachers, Mathematical and Scientific Development in Early Childhood: A Workshop Summary (2005) and other material as necessary.
3. View the videos from the math/science materials in conjunction from the math/science study group readings and videos.
4. Create project-based lesson plans based on the work/information from the math/science study group readings and videos.
5. Bring student work from the lessons to discuss at sessions.
6. Analyze student work for evidence of conceptual understanding of the relevant mathematical and scientific concepts.
7. Create a portfolio that includes lesson plans and student work samples
8. Write a summary of what was learned and present it to the group at the last session.

The lesson plans, copies of student work samples, as well as a summary of what was obtained about the students' learning throughout the course, will comprise a portfolio that will be presented to the group at the last session. A copy will be given to the course sponsor.

C. Course Description

The course is designed for early childhood classroom math and science teachers to take an in-dept look at : 1) concepts within the mathematics' and sciences' curriculum regarding what children must know and be able to do to demonstrate an understanding of them, and 2) analyzing student's work for conceptual understanding of the same mathematics' and sciences' concepts. Participants will examine math and scienc concepts in the inquiry group sessions and create alternative ways to teach the concepts in their classrooms. After teaching the lesson, they will bring student work samples from the lesson to the subsequent inquiry group. The group will work collaboratively to analyze the student work for evidence of conceptual understanding. At the end of the session, the teacher participants will creat a portfolio of the lesson plans, samples of student work, and write a summary of what knowledge they obtained/gained about their students' learning by participating in the inquiry group.

D. Course Instructors/Facilitators

Jo Ann Haggard (see attachment)

DoDDS-E Approving Official Signature for Course: _____
(Deputy Director or Education Division Chief or Superintendent or Assistant Superintendent)

Approving official will forward copies of this document to the following:

- Dr. Jim Olivero (JLO0004@aol.com)
- Gary Corn, Director (ashland@greatoaks.com)
- Deputy Director DoDDS-Europe
- Requestor

JoAnn Haggard

Experience

- Taught in DoDDS for 36 years with 30 in Early Childhood K-3
- Numerous Graduate Credits with a concentration in early childhood programs

Professional Development

- Elem Math Pre-Implementation Training, 2006
- Task Force for Implementation of Math, K-8, 1999

Professional Workshops Taught

- Presenter for National Education Computing Conference (NECC), 2005
- Objectives for Literacy Place Kindergarten, 2004
- Making the Transition- High School to College, 2004
- Balanced Assessment in Mathematics Scoring Conference (BAM), 2002-3
- Presenter for PDK Educator's Day, Germany, 2002
- Early Childhood Mentor, Heidelberg District, DoDDS, 1991-93

Education

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|-----------|--|------------------|
| 1966-1969 | University of Tennessee | Knoxville, TN |
| | • B.A., Elementary Education | |
| 1970-1973 | Michigan State | East Lansing, MI |
| | • M.A., Elementary Education with Major in Reading | |