MICKELSON EXXONMOBIL TEACHERS ACADEMY SYLLABUS

GEORGE MASON UNIVERSITY COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT Division of Elementary, Literacy, Multicultural and Secondary Education

EDUC 500.625
Mickelson ExxonMobil Teachers Academy
Fall 2012
Sunday – Friday
7:45 am – 4:30 pm
July 22nd, 2012 through December 1st, 2012
Liberty Science Center, Jersey City, New Jersey

Instructors: *Marily Griego*

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COURSE DESCRIPTION:

Strengthen pedagogy and content knowledge in math and science for teachers in grades 3-5 the Mickelson ExxonMobil Teachers Academy is a five-day residential intensive course.

COURSE PURPOSE AND INTENDED AUDIENCE:

Goals for the Academy are to focus on Improving the Teaching and Learning of Mathematics and Science:

Members of the academy teams will:

- Deepen their understanding of mathematics and science content in the areas of data and statistics, measurement, force and motion;
- Build expertise in facilitating student learning through problem solving and inquiry;
- Use links between math and science to support student learning;
- Understand how children learn and apply that knowledge to classroom instruction;
- Increase their knowledge and use of instructional resources to support student learning; and
- Network with others involved in elementary school mathematics and science education.

PROFESSIONAL STANDARDS:

National Board for Professional Teaching Standard, Core Proposition 2

REQUIRED/SUPPLEMENTAL/RECOMMENDED TEXTS AND/OR READINGS:

Required Texts:

Uncovering Ideas in Physical Science, Page Keeley Stop Faking It: Force and Motion, William Robertson Math Matters 2nd Edition, Suzanna Chapin and Art Johnson Questions for Math Teaching by Peter Sullivan and Pat Lilburn

Supplemental Readings:

Article: Science and Children, November 2010 - Science Notebooking

Article: Science and Children, January 2011 – Date Collection

Others as assigned

COURSE REQUIREMENTS, PERFORMANCE-BASED ASSESSMENTS, EVALUATION CRITERIA, AND GRADING SCALE:

All participants are required to attend ALL whole group, color group and number group sessions. The total course hours range from 35-45 hours.

Participants are also required to complete follow-up reflection due November 1, 2012.

*Reflection:	(1 - 3)	pages	typed)

These questions guided your "Planning for Instruction" at the end of the Mickelson ExxonMobil Teachers Academy.

	what one significant change do you plan to make in your mathematics and science instruction when you return to your classroom? If you are not a classroom teacher, respond from the perspective of your role in supporting mathematics and science instruction.
	Why is this a change you want to make?
	What impact do you expect this change to make on student learning? On other's learning?
	What support do you need to make this change happen?
	ur Reflection Task (1-3 pages double-spaced typed) builds on the plan. Use the questions below guide this reflection.
	Describe how this change has impacted your teaching and your students' learning.
	Share both challenges and success stories.
	Share examples of student work or other evidence reflecting this change in your teaching.
Ex	amples: scan samples of your students' notebooks, share a 5E lesson plan, ask your students for
fee	dback on a lesson, etc.
	Describe your "next steps" in changing your personal teaching practice to model the objectives of
	the Mickelson ExxonMobil Teachers Academy.
	ease send all reflection papers s to <u>vour course instructor</u> on or before Thursday,
No	vember 1 st , 2012 at 5:00 pm.

GRADING SCALE:

A = 10 points

A- = 7 - 9 points

B+=5-6 points

B = 3 - 4 points

C = 2 - 1 points

COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT STATEMENT OF EXPECTATIONS:

The Graduate School of Education (GSE) expects that all students abide by the following:

Students are expected to exhibit professional behavior and dispositions. See gse.gmu.edu for a listing of these dispositions.

Students must follow the guidelines of the University Honor Code. See http://www.gmu.edu/catalog/apolicies/#TOC_H12 for the full honor code.

Students must agree to abide by the university policy for Responsible Use of Computing. See http://mail.gmu.edu and click on Responsible Use of Computing at the bottom of the screen.

Students with disabilities who seek accommodations in a course must be registered with the GMU Disability Resource Center (DRC) and inform the instructor, in writing, at the beginning of the semester. See www.gmu.edu/student/drc or call 703-993-2474 to access the DRC.

PROPOSED CLASS SCHEDULE:

Schedules are placed in registration packets.

JERSEY CITY -- SEND MY TEACHER

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
22-Jul-12	23-Jul-12	24-Jul-12	25-Jul-12	26-Jul-12	27-Jul-12
	R: G: B: P: Y:	R: G: B: P: Y:	R: G: B: P: Y:	R: G: B: P: Y:	R: G: B: P: Y:
	7:00-7:45 Breakfast	7:00-7:45 Breakfast	7:00-7:45 Breakfast	7:00-7:45 Breakfast	7:00-7:45 Breakfast
	8:00-8:45 Whole Group	8:00 - 9:45 Color Group	8:00-8:45 Planning time	8:00-10:30 Color Groups	8:00-10:45 Color Group
	LuAnn/Sherri		45 mins		
	Interactive Theater	Walking Directions		Origami Boxes	Iron Scientist
	30 mins	1 hour and 45 mins		Origami Boxes	Iron Scientist
	8:45 - 9:15 Whole Group		8:45-9:00 Break restroom only	2 hours and 30 mins	2 hours and 45 mins
	Emil Jacobs		15 mins		
	30 mins				
Key		9:45-11:15 Color Group	9:00-11:00 Color Group	10:30-10:45 Break	10:45-11:00 Break
Color Groups:	9:15-9:30 Break restroom only			15 mins	15 mins
Red	15 mins	Gravity on a Roll	Measurement Menu		
Green		Speed & Acceleration	2 hours	10:45-12:15 Whole Group	11:00-11:30 Planning time
Blue	9:30-11:15 Color Group	1 hour and 30 mins		Learning Center	30 mins
Purple					
	Egg Drop			1 hour and 30 mins	11:30-12:30 LUNCH
Orange	1 hour and 45 mins		11:00 - 11:15 Break		1 hour
Classrooms:		11:15 - 11:30 - Break	15 mins		
		15 mins		12:15-1:15 LUNCH	
			11:15-1:00 Color Group	1 hour	12:30-1:45 Whole Group
	11:15-12:30 Color Group	11:30 -12:30 Color Group		with ExxonMobil Guests	
			Thirds the Charm		Calvin Mackie Keynote
	Four Points	Science/Math Notebooks	1 hour and 45 mins		
	1 hour and 15 min	1 hour		1:15 - 3:00 Color Group	1 hour and 15 mins
3:00-5:00 Registration			1:00 End of Day		
5:30 Reception	12:30-1:30 LUNCH -	12:30-1:30 LUNCH		Pendulums	1:45 - 2:00 Group Photo
6:30 Dinner 8th floor	School Team Working Lunch	School Team Working Lunch	1:15 - 1:45	1 hour and 45 minutes	
8:00 Team Coordinators	1 hour	1 hour	Staff Debriefing		
				3:00 - 4:00 Whole Group	2:00 Departure
	1:30-2:30 Whole Group	1:30-2:45 Color Group			
	Cathy Seeley	How Children Learn		Special Session	Staff/Faculty Clean-up
	1 hour	1 hour and 15 mins		1 hour	•
	2:30 -2:45 Break	2:45-3:00 Break			
	2:30 -2:45 Break 15 mins	2:45-3:00 Break 15 mins			
	13 mins	13 mins			
	2:45-4:30 Color Groups	3:00 - 5:00 Color Group		5:30-6:30 Reception	
		Since Since Sold Group		1 hour	
	What's Typical	May the Force Be With You			
	1 hour and 45 mins	2 hours			
				6:30-9:00 Dinner	
				Gerry Wheeler Keynote	
	5:00 - 6:00	5:30 - 6:30		Grand Ballroom	
	Staff Debriefing	Staff Debriefing			
	Stan Debitering	Stair Debricing			