

Lori Gibson

Lori Gibson holds a Master's Degree in Educational Leadership, has teaching degrees in mathematics and physical education, and is currently working on her doctoral degree through University of North Dakota. She is presently employed with Dickinson State University (BSC Campus) as the Secondary Education Coordinator. Lori has 18 years of educational experience (13 years as a teacher, 4 years as a Math Staff Developer for Bismarck Public School District, and 2 years as a Secondary Education Coordinator). She has presented at many state and regional conferences, at the National Council of Supervisors of Mathematics, provided staff development for districts and has served on many district and state committees.



A curriculum vitae and more information about Lori's qualifications, experiences and references will be given upon request.

Contact Information:

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Bismarck, ND 58503

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(701) 250-1318
(701) 527-2332

Exploring, Digging Deeper, and Interacting with Mathematics

June 3-4, 7-8, 2010
8:30-4:00

Bismarck State College
Schafer Hall - Room 213
Bismarck, ND

Contact Lori Gibson for more
information

*Thank you to Missouri River
Educational Cooperative and the West
River Teacher Center for supporting
this event.*



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FREE OF CHARGE!
THANK YOU TO A STEM GRANT
AND NDCI'S SUPPORT!!



If you have questions about registration
or the content of the course, contact Lori
Gibson

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E-mail: lori.gibson@bis.midco.net

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Thursday, June 3

Have you ever wondered why we take the reciprocal of the divisor when we divide fractions? Are we able to draw a picture? Can you represent $2/3 \div 1/4$ by using pattern blocks? Teachers will engage in many situations that will push their understanding of fractions, decimals, percents, mental calculations, operations with integers, and algebraic thinking. Are these concepts *really that simple?*

Friday, June 4

Participants will:

- Develop a robust and flexible understanding of linear relationships
- Explore what research says about retaining information – “How **do** we help our students remember how to graph a line and solve for linear equations?”
- Obtain rich problems and a variety of strategies to take back to their classrooms.

Monday, June 7 (AM)

Participants will:

- Engage in many rich Algebra problems to see the connections among the five representations (table, verbal, graph, geometric model, and algebraic expression)
- Recognize key mathematical ideas with which students are grappling by watching videos of adolescents.
- Appreciate the power and complexity of student thinking.

Monday, June 7 (PM)

Participants will:

- Engage in many rich geometric problems using Tangrams, patty paper, origami paper, string, and many other tools.
- Look at geometric properties through a different lens. Many adults have had the experience of memorizing the properties and formulas, but what do these really mean? What do they look like?

Tuesday, June 8

Use technology as a tool to enhance student understanding of and ownership in the learning process. Participants will experience and create Web Quests and Glogsters. Graphing calculators, websites and electronic manipulatives will also be explored as effective learning tools.

Note:

Prior to the end of the weeklong institute, participants will have an opportunity to create a plan on how to implement ideas from the institute without “adding more to the plate.”

Exploring, Digging Deeper, and Interacting with Mathematics

Who:

Middle or High School Math Teachers

Note: Elementary, as well as undergraduate students are welcome to attend. The session will be differentiated and problems will be rich enough to meet the needs of all participants.

When:

Thursday, June 3 – Friday, June 4
Monday, June 7 – Tuesday, June 8

Where:

Bismarck State College Campus
Schafer Hall – Room 213
Bismarck, ND

Registration Information

If you are interesting in registering for the class or would like more information, contact: **Lori Gibson on or before May 28**.

Email Address: Lori.Gibson@bis.midco.net

Phone Numbers: (701) 527-2332
(701) 250-1318
(701) 224-2481

Registration fee for the five-day institute:

- ~~\$125 per participant~~
- ~~\$100 if you are a participant from MREC~~

The fee is covered by NDCI and a STEM grant which includes the four-day training session, light breakfast, lunch, and snacks daily.

~~A \$50 non-refundable deposit fee made out to West River Teacher Center is due on or before May 28.~~

Send to:

West River Teacher Center, Joanne Fields
Office of Extended Learning
Dickinson State University
291 Campus Dr.
Dickinson, ND 58601

If you are interested in taking the course for credit, the charge is \$50/credit plus a \$10 handling fee which will cost \$110 for two credits.

Room Reservations:

BSC is offering a conference discount rate on dorm rooms in Swenson Hall at:
\$20/night for single occupancy
\$30/night for double occupancy OR
Local hotels offer state rates for the event.