

Karin Burk Busby

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Education

- M.A.T**
2013-2017 The University of Texas at Dallas, Richardson, Texas
Specialized in Physical Science Education
Thesis: "Texas Science Teacher Characteristics and Conceptual Understanding of Newton's Laws of Motion."
Member of Texas Regional Collaborative for Excellence in Science and Mathematics (2013-2015)
- M. Ed.**
2006-2009 Southern Methodist University, Dallas, Texas
Specialized in Science and Gifted education
Phi Lambda Theta (2009)
- B. A.**
2000-2004 Austin College, Sherman, Texas
Major in Communication Arts
Minor in English
Alpha Psi Omega (2004)

Additional Graduate Studies

- 2004-2005** Dallas Christian College, Farmers Branch, TX
Alternative Teacher Certification Program
Specialization in General Education Grades 4-8
27 hours

Teacher Certification

English as a Second Language Generalist Grades (4-8)
Generalist Grade (4-8)
Science Grades (8-12)
Gifted and Talented Supplemental

Higher Education Teaching Experience

- Fall 2017** University of North Texas
Course: Science in Grades EC-6 (EDEE 4330)
Adjunct Professor
- Summer 2005** Dallas Christian College, Farmers Branch, TX
Course: Teaching Literacy Skills
Guest Speaker on Literacy Libraries in the classroom

Professional Experience

Carrollton Farmers Branch Independent School District, Creekview High School

Physics/IPC Teacher (2015-Present) Teacher of record of high school physics 1 and integrated physics and chemistry. Population included low SES, ELL, SPED, and 504 accommodations

Instructor in Classroom Chromebook (2016-Present) Initial instructor for classroom Chromebook to utilize Google Apps for Education

IPC Curriculum Writer (2016)- Solo writer of IPC curriculum for the district.

Richardson Independent School District, Lake Highlands High School

Physics/ Principles of Technology Teacher (2013-2015) Teacher of record of high school physics 1 and integrated physics and chemistry. Population included low SES, ELL, SPED, and 504 accommodations.

ESL IPC Teacher (2014-2015) Teacher of record of integrated physics and chemistry for newcomer population. Population included low SES, ELL, SPED, and 504 accommodations.

Google Guide (2014-2015)- Teacher leader for technology integration

Physics Team Lead (2013-2014)- Teacher leader for Physics teachers.

Carrollton Farmers Branch Independent School District, DeWitt Perry Middle School

6th, 7th, 8th grade Science/ESL/ Gifted Teacher (2006-2013) Teacher of record for 6th grade, 7th grade, 8th grade, and 8th grade LEAP science. Population included low SES, ELL, SPED, and 504 accommodations. LEAP science population is defined as profoundly gifted as well.

8th grade science Team Lead (2012-2013)- Teacher leader for 8th grade science teachers.

Science Department Chair (2009-2012)- Teacher leader for science teachers. Leadership team member- developed and maintained instructional strategies for the school. District Instruction Rounds member

6th grade Team Lead (2007-2008)- Teacher leader for 6th grade teachers. Responsibilities included communicating needs with administrative team and organizing field trips.

Middle School Science Curriculum Writer (2006-2008)- Part of the writing team for 6th and 8th grade science curriculum for the district. Specialized in Earth Science and Physics

Carrollton Farmers Branch Independent School District, Central Elementary

5th Grade ESL/Gifted Self-contained Teacher (2004-2006) Teacher of record of 5th grade all subjects. Population included low SES, Gifted, ELL, SPED, and 504 accommodations.

Gifted Curriculum Writer (2005-2006)- Solo writer of 5th grade gifted language arts curriculum for the district.

Science Curriculum Writer (2005-2006)- Part of the writing team for 5th grade science curriculum for the district.

Presentations

State

Busby, K.B. (2015, June). Just graph it: Teaching motion graphs conceptually. Talk presented at the Texas Regional Collaboratives Annual Meeting, Austin, TX.

Busby, K. B. (2015, June). Is it science or math? Strategies to teach mathematical concepts in the science classroom. Talk presented at the Texas Regional Collaboratives Annual Meeting, Austin, TX.

Busby, K. B. (2015, June). Google it all. Talk presented at the Texas Regional Collaboratives Annual Meeting, Austin, TX.

Busby, K. B. (2014, November). Graphing and you: Teaching motion graphs conceptually. Talk presented at the Science Teacher Association of Texas Conference for the Advancement of Science Teaching, Dallas, TX.

Busby, K. B. (2014, November). Is it science or math? Strategies to teach mathematical concepts in the science classroom. Featured talk presented at the Science Teacher Association of Texas Conference for the Advancement of Science Teaching, Dallas, TX.

Busby, K. B. & Rittenhouse, C. (2014, February). Graphing and you? Teaching motion graphs conceptually. Talk presented at the Science Teacher Association of Texas Dallas- Fort Worth Metroplex Mini Conference for the Advancement of Science Teaching, Richardson, TX.

Busby, K. B. (2014, February). Don't flip out- 5 ways to flip your classroom. Talk presented at the Science Teacher Association of Texas Dallas- Fort Worth Metroplex Mini Conference for the Advancement of Science Teaching, Richardson, TX.

Busby, K. B. (2014, February). Is it science of math? Strategies to teach mathematical concepts in the science classroom. Talk presented at the Science Teacher Association of Texas Dallas- Fort Worth Metroplex Mini Conference for the Advancement of Science Teaching, Richardson, TX.

International

Burk, K. T. (2007, August). Building vocabulary. Talk presented at the World Council for Gifted and Talented Children 17th Biennial World Conference, Warwick, United Kingdom.

District

FOSS Landforms Professional Development for CFB-ISD Sept. 2005

Co-developed: researched strategies and information for 5th grade science teachers on how to teach the FOSS Landforms kit.

Co-presenter: Presentation inspired curriculum changes in 5th grade science.

Campus

GAFE Training 2014-2015

Co-developed: Google Apps for Education Teacher Training Course designed for Beginners, Intermediate, and Advanced Users

Presenter: Facilitated GAFE Course for Advanced Users November 12, 2015. Follow up- January 30, 2016

Building Literacy through Classroom Discourse Book Study 2011-2012

Presenter- Researched and facilitated discussion on *Chapter 5: Using Discussion to Further Develop Student's Literacy Achievements* to all departments - January 25th, 2012

Co-presenter: Co-facilitated discussion on *Chapter 7: Connecting Middle Schoolers to the World* to all departments- April 4th, 2012

School Initiated ELL Strategies Video May 2011

Presenter- Presented Pictorial Category Strategy and actively demonstrated the strategy with 8th grade students in a classroom setting. Video is currently used in new teacher training.

Instructional Rounds

Initial Member of Instructional Rounds Team at DeWitt Perry Middle School 2010-2012

Co-developed and co-facilitated Instructional Round Update for Staff- August 16, 2011. Discussion focused on a school-wide definition of “Active Learner” and an updated Plan of Action.

Co-developed and co-presented Post 2nd instructional rounds day- May 18, 2011

Co-developed and co-presented Pre 2nd instructional rounds day- January 19, 2011

Co-developed and co-facilitated Initial Instructional Rounds Explanation- October 6, 2010

Camp Eagle Student Orientation 2009-2011

Developed and presented Instructional Rounds Student Presentation, Updated and presented presentation on Completing District Forms- August 17, 2011

Developed and presented presentation on Completing District Forms, developed the Make Your Day presentation, Developed and presented Schedule for Camp Eagle- August 18, 2010

Presenter- School Supplies photostory- August 19, 2009

Computer Skills Google Apps for Education

Google Classroom
Google Drive
Google Docs
Google Sheets
Google Slides
Google Forms
Google Chrome

PC Environment

Microsoft Office Suite
Podcasting
Internet Applications

Professional Committee Appointments

Richardson ISD District Committees

Science textbook adoption committee- 2014

Carrollton Farmers Branch ISD District Committees

Principal Selection Committee- 2010

Professional Affiliations

Texas Association of Gifted and Talented

National Science Teacher Association

Science Teacher Association of Texas

References

Dr. Mary Urquhart

Associate Professor at University of Texas Dallas

The University of Texas at Dallas

Department of Science/Mathematics Education

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Richardson, TX 75080

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Dr. Homer Montgomery

Associate Professor at University of Texas Dallas

The University of Texas at Dallas

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Joseph “Joe” LaPuma-

Principal of Creekview High School

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