

CHRISTINE L. PURKISS, Ed.D

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Education:

Texas Tech University, Lubbock, Texas.
Ed.D. Curriculum & Instruction (2000). Emphasis in Science Education.
M.Ed. Curriculum & Instruction (1992). Emphasis in Science Education.
McMurry College, Abilene, Texas.
BS Geology (1982)
Teacher Certification (1986)

Professional Teaching Licenses:

Life/Earth Science (7-12). State of Texas, 1986 (Lifetime certification).
Science (7-12), State of Colorado, 2003.

Professional Experience:

Professor - Angelo State University, San Angelo, TX.

September 2017 to present. Responsibilities include teaching undergraduate classes in Elementary/Middle School (Block) Science Methods, Teacher Education and Practice, Child and Adolescent Development, and Freshman Seminar.

Associate Professor – Angelo State University, San Angelo, TX.

August 2012 to present. Responsibilities include teaching undergraduate classes in Elementary (Practicum) Science Methods, Teacher Education and Practice, Child and Adolescent Development and Instructional Methods at the Secondary level. At the graduate level - Tests and Measurements, Human Growth and Development, Science Methods for Elementary Teachers, and an Overview of Response to Intervention.

Assistant Professor - Angelo State University, San Angelo, TX.

August 2009 -2012. Responsibilities include teaching undergraduate classes in Elementary (Practicum) Science Methods, Teacher Education and Practice, and Child and Adolescent Development. Other duties as listed above.

Director of Curriculum and Assessment – Gunnison Watershed RE-1J School District, Gunnison, CO. June 2005 to July 2009.

Responsible for all aspects of district wide assessment, curriculum and instruction as well as district accreditation, professional development, curriculum alignment, and NCLB programs in Title I, IIA, IID and IV. Supervised staff of four and worked with a budget of \$250,000 per year. Charter School liaison. Organized and implemented new teacher orientation and mentoring, collaboration with Western State College in the placement of field experience students and student teachers. Member of CDE Science Standards Committee.

Assistant Professor – Western State College, Gunnison, CO. Department of Education.

July 2002 to June 2005. Responsibilities included: Teaching undergraduate classes; Director of Student Teaching; Teacher Education Program Advisor; TEAC Coordinator; Supervisor of both practicum and student teachers; oversight of student electronic portfolios.

Assistant Professor - West Texas A&M University, Canyon, TX. Division of Education. January 2000 to July 2002.

Deputy Project Director - Texas Rural Systemic Initiative (NSF Funded Project), WTAMU, Canyon, TX. January 1999 - January 2000.

Instructor - West Texas A&M University, Canyon, TX. Division of Education. January 1997 to January 1999.

Instructor/Student Teacher Supervisor - Texas Tech University, Lubbock, TX. College of Education. January 1995 - January 1997.

Earth Science Teacher - 8th grade, Littlefield JHS, Littlefield ISD, Littlefield, TX. 1988-1995.

Earth Science Teacher - 8th grade, Mann Middle School, Abilene ISD, Abilene, TX. 1986-1988.

Independent Geological Consultant - Abilene, TX. 1981-1986.

Grant Activity:

- ASU Faculty Learning Commons, Mini Grant. Co-PI, Changing an Educational Psychology course to use Open Educational Resources (OER). Awarded Spring 2019, \$2,500.
- Texas Workforce Commission. Coding Camp for Girls. CO-PI and Project Director, Summer 2019, \$41,390.
- Texas Workforce Commission. Explore STEM camp for children with disabilities. Co-project director, Summer 2018. \$43,752.
- Earth Science: It's Elementary! THECB Teacher Quality Grant – Project Director, 2nd year extension 2015-2016, \$125,000
- Earth Science: It's Elementary! THECB Teacher Quality Grant. Project Director. 2014-2015, \$140,000
- ESSET – Earth Science Systems for Elementary Teachers. Principal Investigator. NOAA/US Department of Commerce. Grant # NA12SEC0080014. 2012-2014. \$403,000 (plus one year no-cost extension)
- PIER – Pathways for Inspiring, Educating, and Recruiting West Texans in the Geosciences. CO/PI. NSF grant # 1108343. Collaboration with the ASU Physics/Geology Department. 2011-2013 \$167,000.
- The Texas Faculty Collaboratives – College and Career Readiness Standards Grant. How does an understanding of the College and Career Readiness Standards impact student achievement and understanding in a college level general chemistry class? Collaboration with Dr. David Carter, Chemistry (ASU). 2011. \$10,000
- Colorado Commission on High Education (CCHE). No Child Left Behind – Data Driven Assessment Project with Gunnison and Montezuma-Cortez Schools. 2005-2006 (\$75,000)
- Project Director – “We Need Science” A grant to improve the science teaching and understanding for grades 1-6 teachers at Lakeview Elementary School in Canyon, Texas. Texas A&M University Regent’s Initiative Grant 2001-2002 (\$18,000)
- Project Director – Regional Science Survey. A project that constructed and administered a needs assessment in science teaching and learning for K-8 teachers in the Panhandle of Texas. Texas A&M University Regent’s Initiative Grant 2001-2002 (\$6,000)
- Instructor – Regional Collaborative for Excellence in Science Teaching. A collaboration of WTAMU, Amarillo College and the Region 16 Education Service Center to provide ongoing professional development for science teachers. Funded by the Texas Education Agency, NSF, UT Austin and various business partners.
- Project Director - Partners in Science - Texas SSI/NSF Funded Project, WTAMU 1998 (\$20,000)
- Project Director - West Texas Environmental Project, ANRCP Funded Project WTAMU/Texas Tech University. 1998. (\$120,000)
- Project Director/Science Specialist - "Let's Get Physical with Math", WTAMU/Hereford ISD. 1998-9 Eisenhower Funded project.

- Project Director/Science Specialist - "Doing Math the Science Way" Texas Tech University, Lubbock, TX. Summer 1996. Eisenhower Funded project.

Publications:

- Hakes, J., Eisenwine, M.J., Gee, D., and Purkiss, C. (2011). Poetometry: Transform teaching by combining poetry and geometry. *English in Texas*, 41(1), 75-79.
- Purkiss, C.L., & Mize, C. (2005). Designing the Toolkit: Reconsidering technology integration in a teacher education program. Presentation and in the proceedings of the Society for Information Technology and Teacher Education Annual Meeting, March 2005. Phoenix, AZ.
- Mann, G., Purkiss, C.L., Rogers, J., and Aliyeva, L. (2000). Development of Environmental Education Component for the World Bank-Government of Azerbaijan Education Reform Project. Report written for, and presented to, the World Bank.
- Purkiss, C.L. (2000). Azeri children need help to learn about environmental issues. More Than Brick and Mortar. West Texas A&M University Publication: Canyon, TX.
- Purkiss, C.L. (2000). Exploring the Perceptions of Middle School Students in an Integrative Environment: A Case Study. Unpublished doctoral dissertation, Texas Tech University, Lubbock.

Selected Professional Presentations:

- Purkiss, C.L. & Bustos, C. (2019). Using Augmented Reality to Integrate Geography and Science. Workshop presentation at the Annual Meeting of the National Council for Geographic Education, Austin, Tx. November 2019
- Purkiss, C.L. (2019). Modeling in Learning Centers: Exploring the concept of living and nonliving with 2nd grade students. Invited presentation at the National Science Teachers Association National Conference in St. Louis, MO., April 2019.
- Purkiss, C.L. (2017). Rethinking the 5E model. Workshop presented at the Region 15 STEM Conference, June 2017.
- Purkiss, C.L., & Bustos, C. (2016). Landforms: Integrating Technology into Earth Science. Workshop presented at the Conference for the Advancement of Science Teaching (CAST), November, 2016.
- Carter, D., & Purkiss, C.L. (2016). Social Responsibility. Online presentation for LEAP Texas, Social Responsibility Week, August 8-12, 2016.
- Purkiss, C.L. (2016). Using Models to Improve Understanding. Workshop presented at the ESC Region 15 2016 STEM Expo. August, 2016. San Angelo. TX.
- Purkiss, C.L. (2016). The Early Years: Integrating Design. Presented at the Elementary STEM Showcase, at the NSTA 5th Annual STEM Forum & Expo. July 2016, Denver, CO.
- Satterfield, J.I., Lehto, H., Ward, J.W., Purkiss, C.L., Minzenmayer, S.(2015). Pathways for Inspiring, Educating, and Recruiting West Texans in the Geosciences (PIER). Paper presented at the 2015 West Texas Geological Society Fall Symposium, Midland. TX.
- Purkiss, C.L. (2015). Earth System Science for Elementary Teachers: An Innovative Approach to Teacher Professional Development. Presentation at the Annual Meeting of the American Geological Union, San Francisco, December 2015.
- Purkiss, C.L. (2015). Climate Literacy: An Innovative Approach to Elementary Teacher Professional Development. Poster presentation at the Annual Meeting of the Geological Society of America, Baltimore, MD. November, 2015.
- Carter, D., & Purkiss, C.L. (2015). Engagement and Reflection for Learning and Assessment. West Texas Assessment Conference, San Angelo, TX. October 2015.
- Bustos, C. & Purkiss, C.L. (2015). Landforms: Using technology to integrate the learning of social studies and earth science in the elementary classroom. National Council for

- Geographic Education. Washington D.C., August 2015.
- Purkiss, C.L. (2015). Virtual Modeling with Etoys. NSTA National Conference on Science Education. March, 2015, Chicago, IL.
- Purkiss, C.L., & Bustos, C. (2015). Landforms: Using technology to integrate the learning of social science and earth science in the elementary classroom. National Technology and Social Science Conference. March 2015, Las Vegas, NV.
- Purkiss, C.L., & Lehto, H. (2015). Crossing lines: Working together outside your discipline. Lilly Regional Conference. January 2015. Austin, TX.
- Purkiss, C.L. Truffula Tree Troubles: Integrating literature and science through hands-on activities. 101st National Conference on Science Education, April, 2013 San Antonio, TX.
- Andersen, A., & Purkiss, C.L. There's an APP for that: Integrating technology, APPS and social media in undergraduate teacher education. National Social Studies Association Technology Conference, March 2013 Las Vegas, NV.
- Purkiss, C.L. How do you know they understood what you taught: Assessment in the Science Classroom 100th National Conference on Science Education, March 2012 Indianapolis, IN.
- Purkiss, C.L., & Eisenwine, E. Teaching Inquiry Based Science: A Model for Differentiation. 48th Biennial Convocation of Kappa Delta Pi. November 2011 Indianapolis, IN.
- Carter, D., & Purkiss, C.L. With the Right Toolbox, Dimensional Analysis is Just Fun and Games. Supporting Success in College Science: CCRS and Scientific Applications of Mathematics Symposium. November 2011 Grapevine, TX.
- Eisenwine, E., Gee, D., & Purkiss, C.L. Poetometry: Teachers and Students Designing Poetry and Mathematics Projects. 100th Annual Convention of the National Council of Teachers of English Orlando, FL. November 2010.
- Eisenwine, E., Gee, D., & Purkiss, C.L. A New Twist in Integrating Curriculum. 17th Annual Conference of the American Association for Teaching & Curriculum. St. Louis, MO. October 2010.
- Andersen, A., Purkiss, C., LaDuke-Pelster, F. & McGrath, S. Gateways to Literacy: Supporting Student Access to Multiple Literacies. 55th Annual Convention of the International Reading Association, Chicago, IL. April, 2010.
- Purkiss, C.L. & Gee, D. Using science Notebooks to Integrate Math and Science. Presentation at the 2010 National Conference on Science Education, Philadelphia, PA. March, 2010.
- Purkiss, C.L., Howard, B., Danos, L., Hanks, A., & Wenum, R. Standards-based learning. Presentation at the 40th Annual CASE Convention, Breckenridge, CO. August 2009.
- Andersen, A., Purkiss, C., LaDuke-Pelster, F., Mann, G., & Monroe, S. Tools for Content Area Learning. 52nd Annual Convention of the International Reading Association, Toronto, Canada May 13, 2007.
- Purkiss, C.L. and Welborn-Downing, J. (2004). I need all the books: Using digital cameras to promote literacy in a kindergarten classroom. Presentation at the Annual Meeting of the International Reading Association, Reno, NV. May 2004.
- Purkiss, C.L. & Robinson, C.A. (1998). West Texas Environmental Project. A poster presentation at the 90th Annual Meeting of the American Society of Agronomy, Crop Science Society of America and the Soil Science Society of America, in Baltimore, MD.
- Robinson, C.A., & Purkiss, C.L. (1998). Partners in Science: Mentoring Pre-service Science Teachers. A poster presentation at the 90th Annual Meeting of the American Society of Agronomy, Crop Science Society of America and the Soil Science Society of America, in Baltimore, MD.

- Purkiss, C.L. (1998). Using science to make math connections for elementary teachers. Presentation at the National Association of Research in Science Teaching annual meeting in San Diego, CA. April 1998.
- Thomas, J., Cooper, S. B., & Purkiss, C. (March, 1997) Paradigm of change: Doing math the science way. Paper presented at the National Association for Research in Science Teaching Annual Meeting, Chicago.
- Purkiss, C.L., Powell, R.R., & Perry, K. (1996). Understanding STS as a curriculum framework for reforming science education: A longitudinal study of elementary and secondary science teachers. Paper presented at the Southwest Educational Research Association annual meeting in New Orleans, LA., January 1996.

Workshops Presented:

- Relative Density: Understanding how to teach mass, volume and relative density. Texas Regional Collaboratives Summer Workshop, ESC Region 15, San Angelo, July 2017.
- Earth Science: Topographic Maps and Weather, Texas Regional Collaboratives Summer Workshop, ESC Region 15, San Angelo, TX. July 2015.
- Augmented Reality: Using Aurasma. STEM Conference, ESC Region 15, San Angelo TX. June 2015
- Inquiry Methods of Teaching. WSC Extended Studies. Spring 2004, Summer 2004
- Diving Into Density. Colorado Science Convention Workshop. Denver, CO November 2003
- Electrical Circuits Made Simple. Colorado Science Convention Workshop. Denver, CO November 2003
- Rip It Off and Do It: Using Inquiry Based Learning in the Classroom. Texas Rural Systemic Initiative Leadership Conference, Corpus Christi, TX June 2003.
- TexTeams – Systems (6-8 grades). Region 8 Education Service Center, Huntsville, TX. October 1999, Region 16 Education Service Center, Amarillo, TX. Spring 1999, February 2001, October, 2002, January 2003.
- TexTeams – Geology, Meteorology and Oceanography (6-12 grades). Region 8 Education Service Center, Huntsville, TX. July 2000.
- The Learning Cycle, Region 17 Education Service Center, Lubbock, TX. March & June 1998, March 1997. Region 16 Education Service Center, Amarillo, TX. June 2000
- What on Earth is Math? Hands-on activities in Earth Science. CAST, Corpus Christi, TX. November 1998.
- Energizing Earth Science, Region 17 Education Service Center, Lubbock, TX. October 1996, March 1997, June 1998.
- Density for Elementary Science Teachers, Region 17 Education Service Center, Lubbock, TX. October 1996.
- Kitchen Chemistry for Elementary Teachers, Region 17 Education Service Center, Lubbock, TX. March 1997.
- Inductive Approaches in Teaching, Regions 16/17 Education Service Centers, Amarillo & Lubbock, TX. June 1992, April 1996, June 1997, March & June 1998, West Texas A&M University, November 1996.
- Project ESTEEM - Hands-on earth science activities for grades 5-9. Region 17 Education Service Center, Lubbock, TX. April and June 1993; March 1994. Texas Tech University, Lubbock, TX. March 1993. West Texas A&M University, Canyon, TX. April 1994 and November 1996.
- Seismic Sleuths - An earthquake curriculum for grades 7-12. 1995-1998 Various locations in Texas.

Service at ASU (2009-present):

- **University:**
 - Member – Endowed Professor Selection Committee (2019-2020)
 - Member – Athletic Council (2015-2020)
 - Faculty Athletic Advisor (Softball)
 - Member – University Curriculum Committee (2018-2019)
 - Member - Teacher Education Council, (2018-2012)
 - Member – Holland Symposium Committee, (2018-2019)
 - Chair – NCATE/CAEP Dispositions Committee
 - Chair and Member - Core Curriculum Committee
 - Member - CARR Distinguished Scholarship Committee
 - Member – Select Committee for Tenure and Promotion Policy Review
 - Member - Faculty Development and Enrichment Grants Committee
 - Member – Search Committee, Department of Physics, Instructor of Geosciences
 - Member – Faculty Senate
 - QEP Fellow and faculty mentor
 - Graduate School Faculty
 - New faculty mentor (CITR)

- **College:**
 - Member –Tenure & Promotion Committee (2018-2019)
 - Member - Recruitment and Retention Committee
 - Member - Student and Faculty Awards Committee
 - Member - Tenure and Promotion Criteria Development and Review Committee
 - Member – NCATE/CAEP Steering Committee
 - Chair – NCATE/CAEP Standard 1 Committee
 - Member – CAEP Standard 4 Committee
 - Counselor – KDP International Education Honor Society, Mu Gamma Chapter

- **Department:**
 - Member - Recruitment and Retention Committee (2018-2019)
 - Liaison – Student Retention Initiative (2018 -2019)
 - Chair - New Faculty Search Committee (SPED/Secondary)
 - Member - New Faculty Search Committee (ECH)
 - Member - Dispositions Committee
 - Member - Tenure and Promotion Committee
 - Member – Peer Review Committee
 - Mentor – Informal graduate research
 - Manager – Secondary Education Program
 - Academic Advisor – EC-6 and 4-8 programs

Awards and Other Recognitions:

- Satterfield, J.I., Lehto, H., Ward, J.W., Purkiss, C.L., Minzenmayer, S.(2015). Pathways for Inspiring, Educating, and Recruiting West Texans in the Geosciences (PIER). Won the best paper award at the 2015 West Texas Geological Society Fall symposium - award was received at the fall 2017 WTGS Symposium.
- President’s Excellence in Leadership/Service Award, nominated, ASU, 2017
- Texas Tech Chancellor’s Council Distinguished Teaching Award, 2017
- President’s Excellence in Teaching Award (recipient), ASU 2016
- President’s Excellence in Service Award, nominated, ASU, 2015
- Pat and Gary Rodgers Distinguished Faculty Award – ASU 2014
- President’s Excellence in Teaching Award, finalist ASU 2014

- Kappa Delta Pi, West Regional Counselor of the Year – 2013-2014
- President's Excellence in Teaching Award, nominated ASU 2012
- Teaching Excellence Award, West Texas A&M University 2000-2001
- Texas A&M University System Regent's Initiative Academy. Member 2001-2002.
- Richardson Fellow - Texas Education Agency/Texas A&M University System 1998-99
- W.A.Tarr Award for Meritorious Work in Earth Science, Hardin-Simmons University, 1981

Professional Associations:

- National Science Teachers Association (NSTA)
 - Member Review Panel for Middle School Journal - Science Scope
 - Member of Science and Children Journal Review Panel
- Association for Supervision and Curriculum Development (ASCD)
- Science Teachers Association of Texas (STAT)
- Kappa Delta Pi

Evaluation Experience:

- Evaluator - Power Educators, Gunnison School District, Funded by State of Colorado. Spring 2005.
- Evaluator – Rural Mountain Organization for Technological Enhancement (RMOTE), US-DOE funded grant, Mountain Valley Schools Consortium, CO. 2001-2006.
- Evaluator – Elementary Science Project, Eisenhower Funded Project at Amarillo College, 2000-2001
- Evaluator - T3 Program, Eisenhower Funded Project, WTAMU, 1999-2000
- Evaluator - Region 16 Regional Collaborative for Excellence in Science Teaching, Amarillo, TX 1999-2000.

Consulting:

- Texas Regional Collaboratives in Science, ESC Region 15, San Angelo, TX. Professional development for participants in various areas of Earth Science at the middle school level, Summer 2015.
- Brownsville ISD – 2000/2001. Professional development for middle school science teachers.
- FOSS – 2000/2001. Professional Development training for elementary and middle school teachers in various FOSS kits.
- The World Bank – 2000/2001. Research and presentation of a white paper regarding the need for environmental education for grades 1-5 in Azerbaijan.
- Exxon Corporation - 1996. Revisions and rewriting of the Exxon Energy Cube secondary energy curriculum material.