

SUZANNE M. NESMITH

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EDUCATION & ACADEMIC HISTORY

Academic Degrees

Ph.D.	Texas Tech University	2007	Curriculum & Instruction
M.Ed.	Wayland Baptist University	2003	Educational Administration
B.S.	Texas A&M University	1982	Curriculum & Instruction

Academic Employment History

2016 – present	Associate Dean, Undergraduate Education, School of Education, Baylor University
2015 – present	Associate Professor, STEM Education, Department of Curriculum and Instruction, School of Education, Baylor University
2009 - 2015	Assistant Professor, STEM Education, Department of Curriculum and Instruction, School of Education, Baylor University
2008 - 2009	Associate Dean/Assistant Professor, School of Education, Wayland Baptist University
2003 - 2008	Assistant Professor, School of Education, Wayland Baptist University
1995 - 2003	Elementary Teacher, Plainview, Texas, Plainview ISD
1991 - 1995	Middle School Mathematics Teacher, Plainview, Texas, Plainview ISD
1987 - 1991	Early Childhood Teacher, Plainview, Texas

Certifications and Specialized Training

Principal	All Level Certification	Effective 05/10/2003 - present
Elementary Chemistry	Grades 1 – 8 Certification	Effective 05/07/1982 - present
Elementary Self-Contained	Grades 1 – 8 Certification	Effective 05/07/1982 - present
Kindergarten	Grades PK – KG Certification	Effective 05/07/1982 - present
Professional Development and Appraisal System		2002
Instructional Leadership Development		2002

RESEARCH

Research Scholarship

Refereed Journal Publications (current/former students indicated by *)

Ogodo, J., Nesmith, S., *Baker, C., Boddie, S. C., Spence, A., Nesmith, D., Crumpton, T., Small, A., Brown, A., & Lilley, L. (2023, in press). Think like a scientist and engineer: Schools, university, and community partnerships using an aquaponics project during COVID-19. *Journal of Higher Education Theory and Practice*, 33(8). <https://doi.org/10.33423/jhetp.v23i8.6059>

Nesmith, S. M., Walter, C., Cooper, S., Matson, C., Emerson, T., Mullins, M., & Daniel, J. E. (2021). Water, river, and community: Creating a transdisciplinary learning course experience to connect the environment, community, and school outreach. *Connected Science Learning*, 3(4). <https://www.nsta.org/connected-science-learning/connected-science-learning-july-august-2021/water-river-and-community>

*Morris, D., & Nesmith, S. M. (2021). Research to practice: Connecting engineering design and inquiry to the implementation of engineering design challenges in elementary classrooms. *School Science and Mathematics*, 121(5), E1-E3. <https://doi.org/10.1111/ssm.12473>

- Nesmith, S. M.,** & Cooper, S. (2021). Connecting engineering design and inquiry cycles: Impact on elementary preservice teachers' engineering efficacy and perspectives toward teaching engineering. *School Science and Mathematics, 121*(5), 251-262. <https://doi.org/10.1111/ssm.12469>
- Nesmith, S. M.,** & Cooper, S. (2019). Engineering process as a focus: STEM professional development with elementary STEM-focused professional development schools. *School Science and Mathematics, 119*(8), 487-498. <https://doi.org/10.1111/ssm.12376>
- Lasker, G. A., Simcox, N. J., Mellor, K. E., Mullins, M. L., **Nesmith, S. M.,** van Bergen, S., & Anastas, P. T. (2019). Introducing toxicology into the undergraduate chemistry laboratory using safety data sheets and sunscreen activities. *Journal of Chemical Education, 96*(4), 720-724. <https://doi.org/10.1021/acs.jchemed.8b00408>
- Rogers, R., Cooper, S., Purdum-Cassidy, B., & **Nesmith, S. M.** (2018). Selecting quality pictures books for mathematics instruction: What do preservice teachers look for? *Children's Literature in Education, 1*-15. <https://doi.org/10.1007/s10583-018-9363-9>
- Mellor, K. E., Coish, P. T., Brooks, B. W., Gallagher, E. P., Mills, M., Kavanagh, T. J., Simcox, N., Lasker, G. A., Botta, D., Schmuch, S. C., Voutchkova-Kostal, A., Kostal, J., Mullins, M. L., **Nesmith, S. M.,** Corrales, J., Kristofco, L., Saari G., Steele, W. B., Melnikov, F., Zimmerman, J. B., & Anastas, P. T. (2018). The safer chemical design game: Gamification of green chemistry and safer chemical design concepts for high school and undergraduate students. *Green Chemistry Letters and Reviews, 11*(2), 103-110. <https://doi.org/10.1080/17518253.2018.1434566>
- Coish, P., Brooks, B. W., Gallagher, E. P., Kavanagh, T. J., Simcox, N., Lasker, G. A., Voutchkova-Kostal, A., Kostal, J., Mullins, M., **Nesmith, S. M.,** Mellor, K. E., Corrales, J., Kristofco, L., Saari, G., Steele, W. B., Shen, L. Q., Melnikov, F., Zimmermann, J. B., Anastas, P. T. (2017). The molecular design research network: An overview. *Toxicological Sciences. https://doi.org/10.1093/toxsci/kfx175*
- Lasker, G., Mellor, K., Mullins, M., **Nesmith, S. M.,** & Simcox, N. (2017). Social and environmental justice in the chemistry classroom. *Journal of Chemical Education, 94*(8), 983-987. <https://doi.org/10.1021/acs.jchemed.6b00968>
- Nesmith, S.,** *Ditmore, E., Scott, L., & *Zhu, T. (2017). "This is more about a book than about science!" Preservice teachers' perceptions toward using literacy strategies in inquiry-based science lessons. *Electronic Journal of Science Education, 21*(5). <https://ejrsme.icersme.com/article/view/17444>
- Nesmith, S.,** Purdum-Cassidy, B., Cooper, S., & Meyer, R. (2017). Like it, love it, or leave it – Exploring elementary preservice teachers' field-based perspectives toward the integration of literature in mathematics. *Action in Teacher Education, 39*(3), 321-339. <https://doi.org/10.1080/01626620.2017.1292158>
- Nesmith, S.,** Schwarz, G., Cooper, S., & Atkinson, A. (2016). Are graphic novels always cool? Student and parent perspectives on elementary mathematics and science graphic novels: The need for action research by school leaders. *Planning and Changing, 47*(3/4), 228-245. **link this in some way to the article
- Nesmith, S. M.,** Wynveen, C. J., Dixon, E. M., Brooks, B. W., Matson, C. W., Hockaday, W. C., *Schaum, M. A., & DeFillipo, J. E. (2016). Exploring educators' environmental education attitudes and efficacy: Insights gleaned from a Texas wetland academy. *International Journal of Science Education, 6*(3), 303-324. <https://doi.org/10.1080/21548455.2015.1078519>
- Rogers, R. M., Cooper, S., **Nesmith, S. M.,** & Purdum-Cassidy, B. (2015). Ways that preservice teachers integrate children's literature into mathematics lessons. *The Teacher Educator, 50*(3), 170-186. <https://doi.org/10.1080/08878730.2015.1038493>
- Purdum-Cassidy, B., **Nesmith, S.,** Meyer, R., & Cooper, S. (2015). What are they asking? An analysis of the questions planned by prospective teachers when integrating literature in mathematics. *Journal of Mathematics Teacher Education, 18*(1), 79-99. <https://doi.org/10.1007/s10857-014-9274-7>
- Nesmith, S.,** *Trumble, J. F., *Villareal-Haugh, S. J., *Porter, K. S., *Schaum, M. A., *Spencer, E. M., & *Stephens, J. N. (2014). Envisioning equitable classrooms that enhance all students' wonderful ideas: A Duckworth perspective. *Journal of Latinos and Education, 13*(3), 238-239. <https://doi.org/10.1080/15348431.2013.849604>

- Cooper, S., & **Nesmith, S.** (2013). Exploring the role of field experience context in pre-service teachers' development as mathematics educators. *Action in Teacher Education*, 35(3), 165-185.
<https://doi.org/10.1080/01626620.2013.770376>
- Nesmith, S.** (2011). Powerful questions result from quality questions: The influence of posed question on elementary preservice teachers' field-based reflections. *Research in the Schools*, 18(2), 26-39.
<https://eric.ed.gov/?id=EJ991515>
- Cooper, S., **Nesmith, S.**, & Schwarz, G. (2011). Exploring graphic novels for elementary science and mathematics. *School Library Media Research*, 14, 3-19. <https://eric.ed.gov/?id=EJ955798>
- Nesmith, S.** & Cooper, S. (2010). Trade books in the mathematics classroom: The impact of many, varied perspectives on determinations of quality. *Journal of Research in Childhood Education*, 24(4), 279 – 297. <https://doi.org/10.1080/02568543.2010.510086>
- Nesmith, S.** (2008). Mathematics and literature: Educators' perspectives on utilizing a reformative approach to bridge the two cultures. *The Forum on Public Policy: A Journal of the Oxford Round Table*.
<https://eric.ed.gov/?id=EJ1099543>
- Simpson, D. J., Garrett, H. B., Bucy, B. L., Burke, A., Doue, W. L., Faber S. L., Fehr, M. C., Fryer, W. A., Gonzales, G. D., Harp-Woods, C. J., McMahan, S., **Nesmith, S. M.**, Reynolds, S. A., Riegler, S. E., Romano, J. E., Willey, R. J., Wimberley, S., & Won, M. (2006). Teacher's indispensable qualities: A Freirean perspective. *Journal of Latinos and Education*, 5(2), 163-165.
https://doi.org/10.1207/s1532771xjle0502_8

Refereed Book Chapters

- Nesmith, S. M.**, & Cooper, S. (2020). Elementary STEM learning. In C. Johnson, M. Mohr-Schroeder, T. Moore, & L. English (Eds.), *Handbook of Research on STEM Education* (pp. 101-114). Routledge.
- Nesmith, S.M.**, Scott, L. M., LeCompte, K. N., & Johnsen, S. K. (2020). Connecting learning to the community: Pedagogical strategies for educators. In E. Kimonen & R. Nevalainen (Eds.), *Toward Community-Based Learning* (pp. 172-194). Brill Sense.
- Scott, L.M., LeCompte, K. N., **Nesmith, S. M.**, Johnsen, S. K. (2020). Community-based pedagogical strategies for students. In E. Kimonen & R. Nevalainen (Eds.), *Toward Community-Based Learning* (pp. 149-171). Brill Sense.
- Nesmith, S.**, Park, J., & McCall, M. (2014). Longitudinal change in science self-efficacy of elementary teachers. In D. F. Berlin & A. L. White (Eds.), *Initiatives in Mathematics and Science Education with Global Impacts* (pp. 205-216). International Consortium for Research in Science and Mathematics Education.

Editor Reviewed Journal Publications (current/former students indicated by *)

- Nesmith, S.** (2022, Spring). Interdisciplinary learning: A faith-focused model for addressing wicked problems. *The Review, Baylor University Academy for Teaching and Learning*, 14-15.
- Savage, C., **Nesmith, S.**, Clark-Goff, K., & Cramer, N. (2021). Teachers can face the real world of change with resiliency and come out stronger. *Texas Educator Preparation*, 5, 5-7. https://480873af-1c36-4442-ae61-173ecd76598a.filesusr.com/ugd/c33c67_490d4bb7eda14dbabff5fc85599096d5.pdf

Manuscripts and Book Chapters Under Review

- Scott, L., *Zhu, T., **Nesmith, S.**, *Ditmore, E., & *Jiao, Y. (2022). *Bridging inquiry-based science learning through children's literature: A case study of an initial teacher certification program* [Manuscript submitted for publication; *Journal for Research in Science and Mathematics Education*]. Curriculum and Instruction Department, Baylor University.
- Nesmith, S. M.**, Dixon-Balk, E., Wynveen, C., Matson, C., Brooks, B., Hockaday, W., *Slechta, M., & DeFellipo, J. (2022). *Science professional development: Exploring its impact on teachers' design and implementation of*

environmental education curricula [Revise and resubmit; *The Journal of Environmental Education*].
Curriculum and Instruction Department, Baylor University.

Nesmith, S. M., Dixon-Balk, E., & *Morris, D. (2022). *Using inquiry-based conceptual change to identify and address elementary inservice teachers' conceptions of gravity* [Revise and resubmit; *Journal of Science Teacher Education*]. Curriculum and Instruction Department, Baylor University.

Rogers, D. W., Rogers, R. M., Goree, K., McCall, M., Purdum-Cassidy, B., & **Nesmith, S.** (2022). Baylor University/Waco ISD/Midway ISD Professional Development Schools: The work will go on. In J. Ferrara (Ed.), *Practical Guide to Exemplary Professional Development Schools* [Manuscript submitted for publication]. Curriculum and Instruction Department, Baylor University.

Manuscripts In Preparation

Nesmith, S., & Morgan, G. (2022). *Assessing elementary preservice teachers' science content knowledge: Developing and evaluating a standards-based science content instrument* [Manuscript in preparation]. Curriculum and Instruction Department, Educational Psychology Department, Baylor University.
Manuscript status: All data have been collected and initially analyzed.

Petsios, E., Anderson, B., & **Nesmith, S.** (2022). *Exploring how evolution understanding, evolution acceptance, and the perceptions of conflict between religion and evolution are affected by science classes at a religiously affiliated institution* [Manuscript in preparation]. Geosciences Department and Curriculum and Instruction Department, Baylor University.
Manuscript status: Data is being collected.

Nesmith, S. M., & Coppola, M. P. (2021-2022). *It's all about the design: Implementing and integrating engineering design in elementary science methods courses at two universities* [Manuscript in preparation]. Curriculum and Instruction Department, Baylor University and College of Professional Studies, Purdue University.
Manuscript status: Data is being collected.

Nesmith, S. M., Ditmore, E.*, Brooks, B. W., Mullins, M.*, Corrales, J.*, Krisofco, L.*, Steele, W. B.*, Coish, P., Gallagher, E. P., Mills, M., Kavanagh, T. J., Simcox, N., Lasker, G. A., Voutchkova-Kostal, A., Kostal, J., Mellor, K. E., Saari, G., Shen, L. Q., Melnikov, F., Zimmerman, J. B., & Anastas, P. T. (2021). *Strengthening high school science teachers' inquiry instruction through an authentic research experience in rational molecular design* [Manuscript in preparation]. Curriculum and Instruction Department, Baylor University.
Manuscript status: All data have been collected and analyzed. Written manuscript is 90% complete.

Nesmith, S. M., *Turney, H., *Cole, C., *Sandager, A., & Nesmith, D. (2021). *Growing STEM in the garden: Exploring the intersection of formal and informal STEM curricula* [Manuscript in preparation]. Curriculum and Instruction Department, Baylor University.
Manuscript status: All data have been collected and analyzed. Written manuscript is 80% complete.

Nesmith, S. M., Mullins, M., Nesmith, D., Yelderman, J., & Wong, S. (2021). *Viewing images of scientists through the lens of children in Northern Uganda* [Manuscript in preparation]. Curriculum and Instruction Department, Baylor University.
Manuscript status: All data have been collected.

Technical Research Reports Prepared for State & Federal Agencies

Nesmith, S., & Wynveen, C. (2021). *Immersed in the wetlands: An environmental academy for educators*. Final Summative Report for Grant No. 01F37001-0. Submitted to the Environmental Protection Agency.

Grants and Awards

Competative External Grant Awards

Funded Projects

- \$ 62,788 **Nesmith, S. (Co-Principal Investigator),** and Cooper, S. (Co-Principal Investigator). (2023-2024). *Camp Launch: Rising 5th Graders "Blast-Off" with STEM+*. [Grant]. Cooper Foundation.
- \$139,179 **Nesmith, S. (Principal Investigator),** Wynveen, C. (Co-Principal Investigator), Brooks, B. (Co-Principal Investigator), Matson, C. (Co-Principal Investigator), Hockaday, W. (Co-Principal

- Investigator), & Mullins, M. (Co-Principal Investigator). (2019 - 2021). *Immersed in the wetlands: An environmental academy for educators* (Project No. 01F37001-0) [Grant]. Environmental Protection Agency.
- \$ 91,000 Brooks, B. (Co-Principal Investigator), & Nesmith, S. (Co-Principal Investigator). (2016 - 2017). *Improving material safety through the minimization of oxidative stress potential: A mechanistic understanding of ROS generation in in vitro and in vivo systems* (Supplemental award for NSF-CHE1339637) [Grant]. National Science Foundation.
- \$ 71,582 Brooks, B. (Co-Principal Investigator), & Nesmith, S. (Co-Principal Investigator). (2014 - 2016). *Educational materials and infrastructure for teaching concepts in rational molecular design* (Supplemental award for NSF-CHE 1339637) [Grant]. National Science Foundation.
- \$ 6,000 Meyer, R. (Co-Principal Investigator), & Nesmith, S. (Co-Principal Investigator). (2011). *Teachers teaching with technology: Hosting a T³ regional conference* [Grant]. Texas Instruments.

Select Unfunded External Grant Submissions (2018 – present)

- \$ 747,095 Peppe, D. (Principal Investigator), Hockaday, W. (Co-Principal Investigator), Nesmith, S. (Co-Principal Investigator), Fulton, J. (Co-Principal Investigator), & Petsios, L. (Co-Principal Investigator). (2023-2025). *GP-UP: Immersive Geoscience Learning Ecosystem (EMERGE) at Baylor University* (Pathways into the Earth, Ocean, Polar, and Atmospheric & Geospace Sciences, NSF-GEOPaths-22-555). [Grant]. National Science Foundation.
- \$ 308,000 Nesmith, S. M. (Principal Investigator), Ogodo, J. & Goree, K. (2019). *Grow your own* [Unfunded Grant Proposal]. Texas Education Agency.
- \$ 449,984 Olafsen, L. J., McCall, M. J., Olafsen, J. S., Nesmith, S. M. (Co-Principal Investigator), & Ogodo, J. A. (2019). *Enhancing secondary STEM educators' inquiry effectiveness through materials science laboratory experiences* [Unfunded Grant Proposal]. National Science Foundation DRK 12.
- \$2,877,562 Olafsen, J. S., Olafsen, L. J., Nesmith, S. M. (Co-Principal Investigator), & McCall, M. J. (2019). *Teachers as learners: Facilitating secondary STEM teachers' communication in the classroom through hands-on research learning experiences to enhance inquiry-based instruction* [Unfunded Grant Proposal]. James S. McDonnell Foundation.
- \$ 705,729 Olafsen, L. J., McCall, M. J., Nesmith, S. M. (Co-Principal Investigator), & Olafsen, J. S. (2018). *Secondary STEM teacher understanding and utilization of hands-on research experiences to enhance inquiry-based instruction* [Unfunded Grant Proposal]. National Science Foundation DRK12.

Internal Grant Awards

Funded Projects

- \$ 100,000 Nesmith, S. (Principal Investigator), Martin, T. (Co-Principal Investigator). (2017 - 2018). *Converting the LRC/Media Center into a Makerspace* [Grant]. Violet M. Johnson Foundation.
- \$ 6,000 Nesmith, S. (Principal Investigator), Wynveen, C. (Co-Principal Investigator), Brooks, B. (Co-Principal Investigator), Matson, C. (Co-Principal Investigator), & Hockaday, W. (Co-Principal Investigator), (2012 - 2013). *Pedagogy and paludology: Creating a wetlands environmental academy for K-12 educators* [Grant]. Baylor University Research Committee.

Presentations

Refereed National and International Presentations

- Ward, E., & Nesmith, S. (March, 2023). Enhancing advocacy efforts through stakeholder engagement [Conference session]. Association of Teacher Educators, Jacksonville, FL, United States.
- Nesmith, S., *Rifa, R., *Rockford, E., *Park, Y., *Chou, D., & *Ryberg, H. (March, 2023). Partnering to 'sic germs and improve students personal health and hygiene [Paper presentation]. National Association of Professional Development Schools, Jacksonville FL, United States.
- Nesmith, S. (March, 2023). *How evolution understanding, evolution acceptance, and perceptions of conflict between religion and evolution are affected by science classes at a religiously affiliated institution* [Paper presentation]. International Consortium of Research in Science and Mathematics Education XVI Consultation, Panama City, Panama.
- Nesmith, S. & Cooper S. (October, 2022). *Enhancing elementary preservice teachers' integration of content in engineering design* [Paper presentation]. Annual School Science and Mathematics Association Convention, Missoula, MT, United States.

- Petsios, E., Anderson, B., & Nesmith, S. (2022, March 15). *A pilot study of how evolution understanding, evolution acceptance, and the perceptions of conflict between religion and evolution are affected by science classes at a religiously affiliated institution* [Paper presentation]. South-Central Division Geological Society of America Conference, Virtual.
- Nesmith, S., & Morgan, G. (2022, January 5 – 8). *Assessing elementary preservice teachers' science content knowledge: Developing and evaluating a standards-based science content instrument* [Paper presentation]. International Association for Science Teacher Education Conference, Greenville, SC, United States.
- Nesmith, S., & Perkins-Coppola, M. (2021, October 27 – 30). *Viewing engineering through the lens of elementary science methods courses* [Paper presentation]. Annual School Science and Mathematics Association Convention, Virtual.
- Nesmith, S. (2021, April 21 – 24 and April 28 – May 1). *Engineering design process: The catalyst for learning mathematics and science content* [Invited paper presentation]. National Council of Teachers of Mathematics Conference, Virtual.
- Goree, K., Johnson, M., Fischer, J., Whatley, C., & Nesmith, S. (2021, March 28 - 31). *Applying to be a PDS (during the pandemic!): The process and perspectives of PDS principals* [Conference session]. National Association of Professional Development Schools Conference, Virtual.
- Goree, K., Ferrara, J., Nesmith, S., White, K., Pena, A., & Purdum-Cassidy, B. (2021, March 28 - 31). *Reflecting, adjusting, and renewing as PDS partners: A response to change* [Conference session]. National Association of Professional Development Schools Conference, Virtual.
- Nesmith, S., & Wynveen, C. (2021, January 14 - 15). *Fostering educator's environmental efficacy, literacy, and practices through a field-based professional development experience* [Paper presentation]. International Association for Science Teacher Education Conference - Virtual. <https://theaste.org/conferenceapp/>
- Nesmith, S., & *Morris, D. (2020, November 5 - 7). *Chopped challenge: A unique approach to enhancing preservice teachers' lesson planning competencies* [Conference session]. Annual School Science and Mathematics Association Convention, Virtual. <https://www.ssma.org/assets/docs/convention/2020-convention/SSMA-2020-Convention-Agenda.pdf>
- Goree, K., Sapp, L., Nesmith, S., & White, K. (2020, February 13 - 15). *Traversing a 27-year PDS partnership. Views in the rearview mirror and more success in sight!* [Conference session]. National Association of Professional Development Schools Conference, Atlantic City, NJ, United States.
- Nesmith, S. (2020, January 9 - 11). *Enhancing elementary preservice teachers' engineering efficacy and engineering implementation through the 5E inquiry model* [Paper presentation]. International Association for Science Teacher Education Conference, San Antonio, TX, United States. <https://theaste.org/wp-content/uploads/2019/01/ASTE-Conference-Program-2020.pdf>
- Nesmith, S., Cooper, S., & Ogodo, J. (2019). *Engineering for elementary preservice teachers* [Paper presentation]. Annual School Science and Mathematics Convention, Salt Lake City, UT, United States.
- McCall, M., & Nesmith, S. (2019). *No borders: Science education collaboration across the university and throughout the community* [Conference session]. Annual School Science and Mathematics Association Convention, Salt Lake City, UT, United States.
- Nesmith, S. (2019). *It's all about the E's: Enhancing elementary STEM engineering through the 5E inquiry model* [Invited paper presentation]. Annual National Council of Teachers of Mathematics Conference, San Diego, CA, United States.
- Nesmith, S., and Cooper, S. (2018). *Engineering for early childhood educators* [Paper presentation]. Annual School Science and Mathematics Association Convention, Little Rock, AR, United States.
- Cooper, S., Nesmith, S., *Walton, A., & *Coleman, E. (2018). *Partnering to enhance STEM integration* [Invited conference session]. Annual School Science and Mathematics Association Convention, Little Rock, AR, United States.
- Nesmith, S., & *Ditmore, E. (2018). *Using scientist-teacher partnerships to EQUIP teachers for inquiry* [Paper presentation]. Annual School Science and Mathematics Association Convention, Little Rock, AR, United States.
- Nesmith, S. (2018). *Strengthening high school science teachers' inquiry instruction through an authentic green chemistry research experience* [Paper presentation]. International Association for Science Teacher Education Conference, Baltimore, MD, United States.
- Nesmith, S., & McCall, M. (2017). *Elementary science teacher preparation: Exploring attitudes, self-efficacy and content pedagogical needs and impacts* [Paper presentation]. Annual School Science and Mathematics Association Convention, Lexington, KY, United States.
- Cooper, S., Nesmith, S., & Dixon-Balk, E. (2017). *STEM PD for STEM PDSs* [Conference session]. Annual School Science and Mathematics Association Convention, Lexington, KY, United States.
- Nesmith, S., Sissell, R., Weaver, P., & Bailey, S., (2017). *Exploring chemicals from a green perspective* [Conference session]. National Science Teachers Association Conference, Los Angeles, CA, United States.

- Nesmith, S.** (2017). *Fostering educators' design and implementation of environmental education curricula through professional development* [Paper presentation]. International Association for Science Teacher Education Conference, Des Moines, IA, United States.
- Nesmith, S., & Cooper, S.** (2016). *Using the value of integratedness rubric to explore elementary preservice teachers' lesson plans* [Paper presentation]. Annual School Science and Mathematics Association Convention, Phoenix, AZ, United States.
- Nesmith, S., *Turney, H., & *Cole, C.** (2016). *Linking formal and informal science within an undergraduate gardening experience* [Paper presentation]. Annual School Science and Mathematics Association Convention, Phoenix, AZ, United States.
- Strot, R., Ward, V., Cohn, B., Baker, B., **Nesmith, S., & Cooper, S.** (2016). *Becoming a STEM campus: Bell's Hill Elementary PDS and Baylor University* [Conference session]. National Association of Professional Development Schools Conference, Washington, DC, United States.
- Purdum-Cassidy, B., Howell, L. Strot, R., Cooper, S., **Nesmith, S.,** Scott, L., LeCompte, K., & Goree, K. (2016). *There's something special about specialized PDS campuses* [Conference session]. National Association of Professional Development Schools Conference, Washington, DC, United States.
- Trumble, J., & **Nesmith, S.** (February, 2016). *Assessing the internship and its contribution to teaching in the 21st century: A case study of a successful intern* [Paper presentation]. Annual Conference of the Association of Teacher Educators, Chicago, IL, United States.
- Nesmith, S., Baker, B. R., & Heenan, D.** (January, 2016). *Exploring preservice teachers' understanding of science pedagogy through an international research experience* [Paper presentation]. Hawaii International Conference on Education, Hawaii, United States.
- Cooper, S., & **Nesmith, S.** (October, 2015). *Elementary teachers' perceptions of mathematics/science integration as revealed through a summer academy* [Paper presentation]. Annual School Science and Mathematics Association Convention, Oklahoma City, OK, United States.
- McCall, M., & **Nesmith, S.** (October, 2015). *Elementary science teacher preparation: The importance of breadth and depth of content* [Conference session]. Annual School Science and Mathematics Association Convention, Oklahoma City, OK, United States.
- Dixon, E., & **Nesmith, S.** (October, 2015). *Addressing student misconceptions about diffusion and osmosis through direct and inquiry instruction* [Paper presentation]. Annual School Science and Mathematics Association Convention, Oklahoma City, OK, United States.
- Nesmith, S.** (January, 2015). *Effects of a multi-phase conceptual change instructional approach on elementary preservice teachers* [Paper presentation]. International Association for Science Teacher Education Conference, Portland, OR, United States.
- Nesmith, S., & Baker, B. R.** (November, 2014). *Exploring preservice teachers' understanding of science instruction through an international research experience* [Paper presentation]. Annual School Science and Mathematics Association Convention, Jacksonville, FL, United States.
- Dixon, E., & **Nesmith, S.** (November, 2014). *Addressing elementary teachers' misconceptions related to gravity using a conceptual change process* [Paper presentation]. Annual School Science and Mathematics Association Convention, Jacksonville, FL, United States.
- McCall, M., Park, J., & **Nesmith, S.** (November, 2014). *Meeting their needs – science content courses for elementary preservice teachers* [Conference session]. Annual School Science and Mathematics Association Convention, Jacksonville, FL, United States.
- Wynveen, C., **Nesmith, S.,** Hockaday, W., Matson, C., & Brooks, B. (March, 2014). *Constructed wetlands as an educational tool to encourage water reuse* [Paper presentation]. American Chemical Society National Meeting, Dallas, TX, United States.
- Park, J., & **Nesmith, S.** (March, 2014). *An integrated STEM lab activity using feature film as a platform for inquiry* [Conference session]. National Science Teachers Association Conference, Boston, MA, United States.
- Nesmith, S., McCall, M., & Park, J.** (January, 2014). *Effects of a science content academy on science self-efficacy of elementary teachers* [Paper presentation]. International Association for Science Teacher Education Conference, San Antonio, TX, United States.
- Nesmith, S., & Dixon, E.** (November, 2013). *Using student-created videos to enhance preservice elementary teachers' science content knowledge* [Paper presentation]. Annual School Science and Mathematics Association Conference, San Antonio, TX, United States.
- *Dixon, E., *Stephens, J. & **Nesmith, S.** (November, 2013). *Science and literacy: A natural fit* [Conference session]. Annual School Science and Mathematics Association Convention, San Antonio, TX, United States.
- Park, J., **Nesmith, S., & McCall, M.** (November, 2013). *Science content academy for elementary teachers: A rumination of events* [Conference session]. Annual School Science and Mathematics Association Convention, San Antonio, TX, United States.
- Park, J., **Nesmith, S., & McCall, M.** (March, 2013). *Change in science content knowledge and self-efficacy of elementary teachers* [Paper presentation]. International Consortium for Research in Science and Mathematics Education, Granada, Nicaragua.

- Nesmith, S.,** & Cooper, S. (November, 2012). *Exploring conceptual change through the lens of an elementary mathematics/science teachers' academy* [Paper presentation]. Annual School Science and Mathematics Association Convention, Birmingham, AL, United States.
- McCall, M., & **Nesmith, S.** (November, 2012). *Grappling with teachers' unnatural understanding of the nature of science* [Paper presentation]. Annual School Science and Mathematics Convention, Birmingham, AL, United States.
- Nesmith, S.** (April, 2012). *Real life-real time science with literature and sensor technology* [Conference session]. National Science Teachers Association Conference, Indianapolis, IN, United States.
- Nesmith, S.,** & Cooper, S. (February, 2012). *Who thinks math + science = integration?* [Conference session]. Annual Association of Teacher Educators Conference, San Antonio, TX, United States.
- Nesmith, S.,** & Cooper, S. (November, 2011). *Summer fun! The design and impact of a summer math/science teacher academy* [Paper presentation]. Annual School Science and Mathematics Association Convention, Colorado Springs, CO, United States.
- Cooper, S., & **Nesmith, S.** (November, 2011). *Learning to integrate math and science: An assignment for elementary preservice teachers* [Paper presentation]. Annual School Science and Mathematics Association Convention, Colorado Springs, CO, United States.
- Nesmith, S.** (June, 2011). *Exploring the utilization of technology, literature, and simulations within inquiry-based science* [Conference session]. St. Anothony's School Science Conference, Tibas, Costa Rica.
- Nesmith, S.,** Purdum-Cassidy, B., Meyer, R., & Cooper, S. (February, 2011). *Now I get it – Utilizing children's literature to build preservice teachers mathematics efficacy* [Paper presentation]. Annual Association of Teacher Educators Conference, Orlando, FL, United States.
- Cassidy-Purdum, B., & **Nesmith, S.** (February, 2011). *Spin it, roll it, pick a card – Using simulations to promote and build cultural competence* [Conference session]. Annual Association of Teacher Educators Conference, Orlando, FL, United States.
- Nesmith, S.,** & Cooper, S. (November, 2010). *Creating a math/science integrated experience* [Conference session]. Annual School Science and Mathematics Association Convention, Ft. Meyers, FL, United States.
- Cooper, S., **Nesmith, S.,** Oates, C., & Tucker, J. (November, 2010). *Using Vernier technology to promote the integration of mathematics and science* [Conference session]. Annual School Science and Mathematics Association Convention, Ft. Meyers, FL, United States.
- Cassidy, B., Cooper, S., Meyer, R., & **Nesmith, S.** (March, 2010). *From theory to practice – Examining pre-service teachers' use of children's literature in the PDS mathematics classroom* [Paper presentation]. National Association for Professional Development Schools, Daytona Beach, FL, United States.
- Nesmith, S.** (November, 2009). *Comparing impacts and results of varied mathematics and science elementary field experiences* [Paper presentation]. Annual School Science and Mathematics Association Convention, Reno, NV, United States.
- Nesmith, S.** (November, 2008). *Utilizing contextual problems to determine pre-service educators' understanding of operation problem structures* [Paper presentation]. Annual School Science and Mathematics Association Convention, Raleigh-Durham, NC, United States.
- Nesmith, S.** (July, 2008). *Mathematics and literature: Educators' perspectives on utilizing a reformative approach to bridge two cultures* [Paper presentation]. Oxford Round Table, Oxford, England.
- Nesmith, S.,** & Cooper, S. (February, 2008). *Educators multiple perspectives toward mathematics trade books* [Paper presentation]. Annual Association of Teacher Educators Conference, New Orleans, LA, United States.
- Nesmith, S.** (November, 2007). *Bridging and breaking barriers to mathematics reform* [Paper presentation]. Annual School Science and Mathematics Association Convention, Indianapolis, IN, United States.
- Nesmith, S.,** & Cooper, S. (February, 2006). *Methods of integrating field experiences within math methodology courses for EC-4 pre-service teachers* [Paper presentation]. Annual Association of Teacher Educators Conference, Atlanta, GA, United States.
- Nesmith, S.,** & Cooper, S. (February, 2006). *Math camp: A varied field experience for a mathematics methods course* [Conference session]. Annual Association of Mathematics Teacher Educators Conference, Tampa, FL, United States.

Refereed Regional Presentations

- Nesmith, S.** (2022). *Enhancing preservice teachers integration of content within engineering design* [Paper presentation]. Annual Southwest Regional Association for Science Teacher Education Conference, San Marcos, TX, United States.
- Nesmith, S.,** & *Morris, D. (2021). *Chopped challenge: A unique approach to enhancing preservice teachers' lesson planning competencies* [Conference session]. Annual Southwest Regional Association for Science Teacher Education Conference, The Woodlands, TX, United States.
- Nesmith, S.,** & Ogado, J. (2019). *It's all about the E's: Enhancing preservice teachers' elementary engineering*

through the 5E inquiry model [Paper presentation]. Annual Southwest Regional Association for Science Teacher Education Conference, Fayetteville, AR, United States.

- Nesmith, S., & *Coleman, E.** (2018). *Science educators' environmental literacy through the lens of a wetland academy* [Paper presentation]. Annual Southwest Regional Association for Science Teacher Education Conference, Norman, OK, United States.
- Nesmith, S., Mullins, M., Nesmith, D.** (2017). *Science as a cultural bridge: Lessons learned through an experience in Northern Uganda* [Conference session]. Annual Southwest Regional Association for Science Teacher Education Conference, Waco, TX, United States.
- Nesmith, S., *Ditmore, E., & *Zhu, T.** (2016). *Elementary pre-service teachers' perspectives toward integrating literature and literacy strategy instruction in inquiry-based science lessons* [Paper presentation]. Annual Southwest Regional Association of Science Teacher Educators Conference, Tyler, TX, United States.
- Dixon, E., & **Nesmith, S.** (2016). *STEM for young learners: Professional development for STEM PDS campuses* [Conference session]. Annual SW Regional Association of Science Teacher Educators Conference, Tyler, TX, United States.
- McCall, M., & **Nesmith, S.** (October, 2015). *Using required targeted content courses to prepare elementary education majors to teach science* [Paper presentation]. Annual Southwest Regional Association for Science Teacher Education Conference, Denton, TX, United States.
- Park, J., **Nesmith, S., & McCall, M.** (October, 2013). *Elementary teachers' ideas of density from an atomic viewpoint* [Paper presentation]. Annual Southwest Regional Association for Science Teacher Education Conference, San Antonio, TX, United States.
- Nesmith, S., & *Schaum, M.** (October, 2012). *Pedagogical applications for environmental education: A wetland environmental academy for P-12 educators* [Paper presentation]. Annual Southwest Regional Association for Science Teacher Education Conference, Houston, TX, United States.
- Nesmith, S., & *Dixon, E.** (October, 2012). *An exploration of instructional practices and learning progression on pre-service and in-service teachers' understanding of the seasons* [Paper presentation]. Annual Southwest Regional Association for Science Teacher Education Conference, Houston, TX, United States.
- Nesmith, S.** (October, 2011). *Introducing preservice teachers to real-life, real-time science with literature and sensor technology* [Conference session]. Annual Southwest Regional Association for Science Teacher Education Conference, Lubbock, TX, United States.
- Nesmith, S.** (October, 2008). *Mathematical authorships through children's literature* [Conference session]. Annual National Council of Teachers of Mathematics Regional Conference and Exposition, Oklahoma City, OK, United States.
- Cooper, S., & **Nesmith, S.** (October, 2006). *Mathematical problem-posing in the context of children's literature* [Paper presentation]. Annual Western Regional Conference of the National Council of Teachers of Mathematics, Phoenix, AZ, United States.

Refereed State and Local Presentations

- Nesmith, S., Wynveen, C., Mullins, M., *Coleman, E., & *Knudsen, C.** (2018). *What can be learned when immersed in the wetlands* [Conference session]. Annual Texas Association for Environmental Education Conference, Palestine, TX, United States.
- Nesmith, S., *Coleman, E., & *Walton, A.** (2018). *It's all about the E's: Enhancing elementary STEM engineering through the 5E model* [Conference session]. Annual Council for the Advancement of Science Teaching Conference, Ft. Worth, TX, United States.
- Nesmith, S., *Turney, H., & *Cole, C.** (2016). *Recharging teachers with electrifying ideas for exploring circuits and batteries* [Conference session]. Annual Council for the Advancement of Science Teaching Conference, San Antonio, TX, United States.
- deMesa, M., McCall, M., & **Nesmith, S.** (May, 2013). *The hows and whys of creating a CCRS continuum in the university science classroom* [Conference session]. College and Career Readiness Initiative Culminating Conference, Houston, TX, United States.
- Nesmith, S.** (March, 2012). *Get real! Using literature and sensors to design real-life, real-time science activities* [Conference session]. Annual Texas Association of Baptist Schools Convention, Waco, TX, United States.
- Nesmith, S.** (November, 2011). *Using literature and sensors to get physical with physical science* [Conference session]. Annual Council for the Advancement of Science Teaching Conference, Dallas, TX, United States.
- Nesmith, S.** (October, 2011). *The earth revolves on its axle? Recognizing and confronting students' science misconceptions* [Conference session]. Annual Regional Conference of the Texas Association for the Improvement of Reading, Waco, TX, United States.
- Nesmith, S.** (October, 2010). *Science content + literature + technology = science understanding* [Conference session]. Annual Regional Conference of the Texas Association for the Improvement of Reading, Waco, TX, United States.

- Nesmith, S., & Turner, M.** (November, 2010). *How on earth can we build understanding of earth science?* [Conference session]. Annual Council for the Advancement of Science Teaching Conference, Houston, TX, United States.
- Nesmith, S., Cooper, S., Oates, C., & Tucker, J.** (April, 2010). *Using Vernier technology, in preschool to university classrooms, to promote the integration of mathematics and science* [Conference session]. Annual Educational Technology Showcase, Waco, TX, United States.
- Nesmith, S.** (March, 2010). *Lunar looking: Activities for understanding the phases of the moon* [Conference session]. Annual Texas Association of Baptist Schools Convention, Waco, TX, United States.
- Nesmith, S.** (July, 2009). *The 3 R's Today: Reading + 'Riting = 'Rithmetic* [Conference session]. Council for the Advancement of Mathematics Teaching Conference, Houston, TX, United States.
- Nesmith, S.** (September, 2008). *Stymied by science? Look to a book!* [Conference session]. Fifteenth Annual Panhandle Area Math and Science Conference, Canyon, TX, United States.
- Cooper, S., & Nesmith, S.** (July, 2008). *Who wants to be a problem solver? Using trivia and fun facts for problem solving* [Conference session]. Council for the Advancement of Mathematics Teaching Conference, Dallas, TX, United States.
- Nesmith, S. J.** (October, 2007). *Problems with problem solving? Look to a book!* [Conference session]. Annual Regional Conference of the Texas Association for the Improvement of Reading, Waco, TX, United States.
- Nesmith, S. J.** (2006). *Foundations of math* [Conference session]. Frenship ISD Professional Development Conference, Wolforth, TX, United States.
- Nesmith, S. J.** (April, 2006). *Impacts and perceptions of varied field experiences on elementary pre-service educators* [Conference session]. Annual College of Education Research Conference at Texas Tech University, Lubbock, TX, United States.
- Nesmith, S. J.** (2006). *The structure of nonfiction texts – Use it or lose it* [Conference session]. Texas Tech University 2nd Annual College of Education Literature Festival, Lubbock, TX, United States.
- Nesmith, S.** (September, 2005). *Science trade books – More than just good stories* [Conference session]. Texas Tech University Student Chapter of the National Science Teachers Association Conference, Lubbock, TX, United States.

Creative Products

- Cooper, S., & Nesmith, S.** (2019). Educational consultants for *How to identify effective STEM activities for children*. Retrieved from <https://onlinegrad.baylor.edu/resources/identify-effective-stem-activities-children/>
- Cooper, S., & Nesmith, S.** (2017). What is STEM and why does it matter for young children? In S. Cooper & S. Nesmith (Eds.), *Baylor Aviation Sciences Activity Booklet* (Foreword). Baylor University: Baylor University Institute for Air Science.
- Nesmith, S., & Cooper, S.** (2011). What did you do this summer? Elementary math and science summer teacher academy. *The Baylor impact*, 5(1).

TEACHING

Courses

Undergraduate and Graduate Courses Taught

Baylor University (2009-Present)

Undergraduate:

TED 4307- Science in Elementary School; Science Seminars for Undergraduate Interns
 TED 4399 – International Internship Comparative Education (Australia)
 SIC 4V98/5V98 – Water, River, and Community

Graduate:

EDC 5320 – Elementary Science and Social Studies
 EDC 5321 – Contemporary Curriculum Design and Implementation
 EDC 5340 – Advanced Elementary Curriculum Development
 EDC 5390 – STEM Teaching and Learning with Young Children
 EDC 5391 – Social Foundations of Education
 EDC 6355 – Concepts of Teaching and Teacher Education
 EDC 5Vxx and EDC 6Vxx - Various graduate level STEM education independent study courses

Course Evaluations: Average course evaluation score of 5.62 on a 6-point Likert scale with 6 representing the most favorable rating.

Wayland Baptist University (2003-2009)

Undergraduate:

Introduction to Teaching
Teaching Social Studies in the Elementary and Middle School
Teaching Mathematics in the Elementary and Middle School
Content Area Literacy in Elementary Education
Teaching Language Arts in the Elementary School
Mathematics for the Elementary School Teacher
Supervision of Elementary/Middle School/Secondary Student Teachers

Graduate:

Research Methods in Education
Multicultural Education
Classroom Management and Effective Teaching
Science in the Elementary School
Mathematics in the Elementary School

Course Evaluations: Average course evaluation score of 1.12 on a 4 point Likert scale with 1 representing the most favorable rating.

Program and Course Development

Master of Arts in Teaching (MAT) Graduate Program

Baylor University: graduate degree with teacher certification; dual undergrad/grad program option: 2018
Talbert, T., Johnsen, S., & Nesmith, S.

BAY-SIC (Baylor Social Innovation Collaborative) Healthy River, Healthy Community

Baylor University: graduate and undergraduate; lab science course option; museum studies option: 2017
Nesmith, S., Cooper, S., Walter, C., Mullins, M., Emerson, T., Matson, C., Martens, P., and Daniel, J.

STEM for Early Grades

Baylor University: graduate; science and mathematics cognate option: 2017
Nesmith, S., & Cooper, S.

Science in Informal Environments

Baylor University: graduate; science cognate option: 2017

Research in Science Education

Baylor University: graduate; science cognate option: 2017

Advanced Elementary Curriculum Development

Baylor University: graduate: 2013

Science in the Elementary School

Baylor University: undergraduate: 2009

Professional Development Courses and Invited Professional Development Presentations

Courses Developed for Professional Development

STEM for Young Learners: STEM Specialized Professional Development Schools - Bell's Hill PDS and Mountainview PDS: Baylor University and Professional Development School Partnership (2016 - 2017), (2017 - 2018)

Wetland Environmental Academy for P-12 Educators: An On-Site Wetland Immersion Experience for P-12 Environmental Educators: Baylor University and John Bunker Sands Wetlands Center (2012 - 2014)

J. H. Hines Elementary – A Science Specialty School: Baylor Waco Partnership for Excellence in Science: Waco ISD and Baylor University (2012 - 2013)

Elementary Math and Science Teacher Academy: Baylor University and Professional Development School Partnership (2010 - 2011)

Invited Professional Development Presentations

Nesmith, S. (2016). *Third grade scientists.* Bell's Hill Professional Development School, Waco, TX, United States.

Nesmith, S. (2015). *Early childhood literacy strategies.* Little Lions Learning Center Professional Development Day, Waco, TX, United States.

Nesmith, S. (2015). *Integrating literature in science and mathematics.* Little Lions Learning Center Professional Development Day, Waco, TX, United States.

Nesmith, S. (2015). *Using Vernier probes in K-12 classrooms.* Baylor University Technology Professional Development Event, Waco, TX, United States.

- Nesmith, S.** (2014). *How to use books other than textbooks in the science classroom*. Bell's Hill PDS Professional Development Back to School Workshop, Waco, TX, United States.
- Nesmith, S.** (March, 2013). *Just how big is the solar system?* Mathematics of Planet Earth Professional Development Event for Educators at All Levels, Waco, TX, United States.
- McCall, M., **Nesmith, S.**, & Park, J. (August, 2012). *The essence of science*. Midway ISD Professional Development Back to School Summit, Waco, TX, United States.
- Nesmith, S.**, McCall, M., & deMesa, M. (2012-2013). *Science faculty collaborative of the College and Career Readiness Initiative*. CCRI Regional Workshops, Waco, TX, United States.
- Nesmith, S.**, & Cooper, S. (2011). *Math/science integration with Vernier technology*. Hillcrest Professional Development School, Waco, TX, United States.
- Nesmith, S.** (2011). *Motion, math, and videos – Investigating functions*. GEAR UP Math Initiative, Waco, TX, United States.
- Nesmith, S.**, & Purdum-Cassidy, B. (2011). *Cultural Clashes*. Phi Delta Kappa International, Baylor Chapter Meeting, Waco, TX, United States.
- Nesmith, S.** (August, 2010). *Integrating literature within the CSCOPE Science curriculum*. Bell's Hill Professional Development School, Waco, TX, United States.

Graduate Students Advised and Mentored

Doctoral Advisor/Dissertation Chair

- Evan Ditmore. *Perceptions of working business professionals toward two-way language immersion: A case study*. Committee Chair. Anticipated August 2022 graduate.
- Erin Dixon. *Ninth grade students' understanding of diffusion and osmosis after participation in direct or inquiry-based lessons: A mixed methods case study*. Committee Chair. August 2015 graduate.
- Jason Trumble. *The impact of the internship experience on intern's perceptions of their preparedness to teach in a technology rich society: A mixed methods multiple case study*. Committee Chair. August 2015 graduate.

Doctoral/Dissertation Committee Member

- Jiao, Yuyan. *When inquiry-based science education meets multimodal literacy: A case study of preservice science teachers' perspectives towards children's literature*. Committee Member. Anticipated August 2022 graduate.
- Bowen, Molly. *Postsecondary mathematics professors: Techniques and perspectives toward students (Initial Topic)*. Committee Member. Anticipated December 2022 graduate.
- Stephanie Wong. *Utilizing collaborative research and education to build groundwater sustainability*. Committee Member. August 2021 graduate.
- Ryann Shelton. *Designing and teaching mathematics methods courses: A case study of secondary mathematics teacher education*. Committee Member. May 2020 graduate.
- Toby Zhu. *An exploration of media literacy education programming in undergraduate teacher education*. Committee Member. May 2020 graduate.
- Brandi Ray. *More than tools: Can media literacy emerge from teacher development in technology?: A narrative study*. Committee Member. August 2015 graduate.
- Amy Corp. *How African American children respond to culturally relevant stories in mathematics: An ethnographic case study*. Committee Member. August 2014 graduate.
- Dittika Gupta. *Early elementary students' fractional understanding: Examination of cases from a multi-year longitudinal study*. Committee Member. August 2014 graduate.
- Amanda Atkinson Walker. *Using graphic novels to improve literacy*. Committee Member. August 2013 graduate.
- Anne Zandstra. *The impact of an informal science program on students' science knowledge and interest*. Committee Member. May 2012 graduate.

Master's Advisor/Committee Member

- Fatih Ozkan. *The effect of STEM education on the academic success and social-emotional development of gifted students*. Committee Member. May 2021 graduate.
- Analise Sandager. MEd; STEM Education cognate; non-thesis advisor; August 2016 graduate.
- Hannah Turney. MEd; Science Education cognate. non-thesis advisor; May 2017 graduate.
- Courtney Cole. MEd Science Education cognate. non-thesis advisor; May 2017 graduate.
- Erin Coleman. MEd Science Education cognate. non-thesis advisor; August 2019 graduate.
- Jessica Stephens. MEd Science Education cognate. non-thesis advisor; December 2013 graduate.

Awards and Honors

Creations Honoree for Transformational Research, Scholarship, and Creative Endeavors, Baylor University, Co-recipient with Baylor transdisciplinary team: Nesmith, S., Walter, C., Cooper, S., Matson, C., Emerson, T., Mullins, M., Daniel, J., & Martens, P. (2021)

Award for Excellence in Integrating Science and Mathematics, School Science and Mathematics Association, Co-recipient with Dr. Sandi Cooper (October, 2018)

Quest for Quality Exemplary Faculty Practice Award Winner – Center for Research, Evaluation and Advancement of Teacher Education (2013-2014)

Oklahoma University Program Review Team, The Department of Instructional Leadership and Academic Curriculum Department, College of Education, Invited Team Member (November, 2018)

STEM Teacher Education Colloquium Invited Participant (October, 2014)

New Horizons in STEM Education: College and Career Readiness Initiative, Invited Participant (March, 2014)

Texas Examination of Educator Standards EC-6 Generalist Test Redesign, Invited Committee Member (2013)

Nature of Science College and Career Readiness Standards Symposium, Invited Participant (2012)

Scientific Applications of Mathematics College and Career Readiness Standards Symposium, Invited Participant (2011)

College and Career Readiness Initiative: Supporting Success in College Science: CCRS and Scientific Applications of Mathematics, Invited Participant (2011)

Biology College and Career Readiness Standards Symposium, Invited Participant (2010)

The College Readiness Initiative Faculty Collaborative Project; Mathematics Symposia, Invited Participant (2008)

Oxford Round Table Invited Participant, *The Two Choices: Balancing Choices and Effects* (2008)

SERVICE

External Service Activities

Peer Review Activities

Associate Editorship Appointments

School Science and Mathematics, Associate Editor (2021 – present)

The Electronic Journal for Research in Science and Mathematics Education, Associate Editor (2019 - present)

Journal Review Activities

International Journal of Science Education, manuscript review

Journal of Science Education and Technology, manuscript review

Journal of Research in Childhood Education, manuscript review

School Science and Mathematics, manuscript review

Journal of Rural Social Sciences, manuscript review

Journal of Latinos and Education, manuscript review

Conference Proceedings and Conference Proposal Review Activities

School Science and Mathematics Association, convention proceedings review

Association of Science Teacher Educators, conference proposal review

School Science and Mathematics Association, convention proposal review

Service Leadership in Professional Organizations

Education Deans of Independent Colleges and Universities of Texas: President (2022-2024), President Elect (2021-2022), Treasurer (2018 -2022)

Associate and Assistant Deans and Directors of Texas: President Elect (2022-2023), Board of Directors Member-at-Large (2021 – 2023)

Consortium of State Organizations for Texas Teacher Education: Board of Directors Member (2022-2023)

School Science and Mathematics Association: Past President (2021), President (2018 - 2020), President Elect (2017), Board of Directors - Membership Committee Chair (2011 - 2014), Convention Program Co-Chair (2013)

Association for Science Teacher Education Southwest Region: Past President (2018 - 2019), President (2017 - 2018), Conference Program Co-Chair (2017)

American Association for the Advancement of Science: Education Organization Representative (2014 – present)

Association of Mathematics Teacher Educators in Texas: Board of Directors Member-at-Large (2008-2011), Conference Program Chair (2009-2010) and (2010-2011)

International Service

Global Competence in Teacher Education, Expert Panelist and Contributor (2021 – 2022)
American-Thai Foundation Board Member (2013 – 2020)

National Service

Association for Science Teacher Education, Membership Committee Member (2014 - 2017)
External Reviewer for University Tenure (2015 - present)
School Science and Mathematics Association: Policy Committee Member (2022 - 2024) and (2008 - 2011)
Praxis Teacher Licensure Exam (Praxis 5017 - Elementary Education: Curriculum, Instruction, and Assessment, Science Content and Pedagogy) Item Writer (2017)
Praxis Teacher Licensure Exam (Praxis 5017 - Elementary Education: Curriculum, Instruction, and Assessment, Science Content and Pedagogy) Item Writer and Reviewer (2013)
National Council for Accreditation of Teacher Education - National Science Teachers Association Specialized Professional Association Report Reviewer (2012)
Pearson Education Middle Level Life Science Textbook Content Reviewer (2012 - 2013)
Science Education SIG, Association of Teacher Educators (2010 - 2016)
National Association of Professional Development Schools PDS Partners Expansion Committee (2010 - 2012)

Regional and State Service

Texas Examination of Educator Standards (TExES 114 Math-Science 4-8) Item Review Committee (2014)
Texas Examination of Educator Standards (TExES 191 Generalist EC-6, Science Standards) Item Review Committee (2014)
Texas Examination of Educator Standards (TExES 191 Generalist EC-6, Science Standards) Item Writer and Reviewer (2013)
College and Career Readiness Initiative Mathematics/Science Product Reviewer (2013)
South Plains Teacher Education Preparation Collaborative (2008 - 2010)
Region 17 Education Service Center Mentor Teacher Trainer (2000 - 2001)
Texas Education Agency TAAS Item Analysis Team (1998 - 2000)
Region 17 Education Service Center Teacher Leadership Team (1996 - 1999)
Region 17 Education Service Center Math Curriculum Alignment Team (1996 - 1997)

Local Community Service

Little Lions Learning Center (St. Jerome's Pre-K and K School), Educator Specialist (2015 - 2021)
St. Paul's Episcopal Day School, Science Collaborator (2012 - 2014)
St. Jerome Catholic Church, member and volunteer (2009 - present)
St. Peter's Catholic Student Center, volunteer (2012 - present)
Association of Texas Professional Educators Member and Officer (1991 - 2005)
Plainview ISD PTA Life Member and Officer (1989 - 2004)

Internal Service Activities

Baylor University

Service Contributions to Baylor University

COACHE Task Force Committee Member, Mid-Career Uncertainty Working Group (2021)
Teaching Exploration Grants Review Committee Member (2020 - present)
Academic Operations Team Member (2016 - present)
University Enrollment Management Working Group Committee Member (2016 - present)
University Undergraduate Curriculum Committee: Committee Chair (2015 - 2016), Member (2014 - present)
University Teaching Grant Committee Member (2014 - 2018)
Invitation to Excellence Team Member, School of Education Representative (2017 - 2020)
Graduate Student Instructor Award in Social Sciences, Committee Member (2013)
Graduation Marshall (2009 - present)

Service Contributions to the School of Education

Master of Arts in Teaching (MAT) Graduate Program Director (2018 - present)
School of Education Faculty Search Committee: Chair Assistant/Associate Librarian and Director of Learning Resources Center (2017 - 2018)
School of Education Staff Search Committee Member: Senior Academic Advisor (2022), Learning Resources Center Office Manager (2021), Business Officer/Financial Manager (2020), Chair Impact LLC Program Director (2019),

EPP Support Specialist (2018), Chair Associate Director Student Recruitment and the First Year Experience (2018), Chair Learning Resources Center Office Manager (2017), Web Programmer/Analyst (2017), Senior Academic Advisor (2017)

School of Education Professional Education Faculty Committee: Chair (2016 - present), Member (2009 - 2016)

School of Education Executive Committee of Professional Education Faculty Chair (2016 - present)

Educational Psychology Faculty Search Committee Member, Assistant Professor of Special Education (2015 - 2016)

Texas Education Agency Science Education Monitoring Report Team Member (2010)

STEM Collaboration/Science Education Advisory Council Co-Chair (2009 - present)

Texas Education Agency EC-6 Certification Application Team Member (2009)

Service Contributions to the Department of Curriculum and Instruction

Faculty Search Committee: Chair Assistant/Associate Professor of Science Education (2018 - 2019), Chair

Associate/Full Professor of Science Education (2015 - 2016), Assistant/Associate Professor of Elementary Reading/Literacy (2012 - 2013), Clinical Professor of Secondary Science Education (2011)

Interns in Australia Program Director (2018 - present)

Interns Study Abroad (Australia and England) Program Supervisor (2018 - present)

EdD Leadership and Organizational Change Applicant Review Team (2018 - 2020)

Distinguished Scholars Day Organization and Implementation Committee (2014 - 2015)

Outstanding Dissertation Award Committee (2014 - 2015)

Spring Premiere Representative (2013 - 2014)

Invitation to Excellence Representative (2013 - 2014)

Graduate Program Review Committee (2011 - 2013)

Phi Delta Kappa Professional Education Organization, Baylor Chapter Treasurer (2010 - present)

Graduate Faculty Member (2010 - present)

Middle School Certificate Program Member (2010 - 2012)

Elementary EC-6 Certificate Program Member (2009 - present)

Wayland Baptist University Service (2003 - 2009)

Texas Education Agency EC-6 Certification Application Leader (2009)

Academic Council (2008 - 2009) and (2005 - 2006)

Teacher Education Advisory Committee Member (2008 - 2009) and (2003 - 2005)

Chemistry/Physical Science Degree Committee Member (2008 - 2009)

Faculty Senate Executive Committee Member (2007 - 2009)

Committee on Committees Committee Member (2007 - 2009)

Faculty Senate Member (2007 - 2009)

BSIS Middle School Generalist Degree Creator and Administrator (2007 - 2009)

Search Committee for Chemistry Professor (2006)

Faculty/Staff Professional Development Presenter (2006)

Scholarship/Financial Aid Committee (2005 - 2007)

Honors Council: Chair (2005 - 2006), Member (2003 - 2007)

Core Curriculum Committee (2005 - 2006)

Creator and Administrator of Basic Skills Tutorial Program (2005 - 2009)

Creator/Administrator Katye Mansdoerfer Memorial Children's Library (2005 - 2007)

Professional and Academic Association Memberships

American Association for the Advancement of Science (AAAS)

National Science Teachers Association (NSTA)

Association for Science Teacher Education (ASTE)

Southwest Association for Science Teacher Education (SWASTE)

Science Teachers Association of Texas (STAT)

School Science and Mathematics Association (SSMA)

International Consortium for Research in Science and Mathematics Education (ICRSME)

National Association for Professional Development Schools (NAPDS)

Phi Delta Kappa, Baylor University Chapter (PDK)

Association of Teacher Educators (ATE)

Association of Teacher Educators – Texas (ATE-Tx)

Education Deans of Independent Colleges and Universities of Texas (EDICUT)

Consortium of State Organizations for Texas Teacher Education (CSOTTE)

Texas Association of Colleges of Teacher Education (TACTE)

Assistant/Associate Deans and Directors of Texas (ADOT)

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