Julie J. Murphree

Assistant Teaching Professor
School of Applied Sciences and Arts
College of Integrative Sciences and Arts
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ASU Faculty Profile

Professional Profile

Assistant Teaching Professor specializing in experiential, community-engaged, and place-based education that prepares future professionals to address complex challenges in wildlife conservation, animal welfare, veterinary medicine, and the human dimensions of animal management. My teaching, mentoring, educational scholarship, and service are intentionally integrated to create authentic opportunities for students to collaborate with community partners in addressing real-world challenges that benefit both people and animals. Through innovative curriculum development, immersive field experiences, undergraduate research, interdisciplinary collaboration, and sustained community partnerships, I prepare students to become ethical, scientifically informed, and compassionate leaders who make meaningful contributions to their professions and the communities they serve.

Education

Doctor of Philosophy (Ph.D.), Biology (Biology and Society)
Arizona State University, 2022
Concentration: Animal Welfare and Environmental Ethics
Dissertation: *The Mustang Dilemma: Facts, Values, and Decision Making in Arizona's Heber Wild Horse Territory*

Master of Science (M.S.), Applied Biological Sciences
Arizona State University, 2012
Concentration: Animal Nutrition and Wildlife Management
Thesis: *Evaluation of DNA Sequencing and Microhistological Analysis in Determining Diet of Wild Ungulates*

Master of Education (M.Ed.), Secondary Education (Biology**)**
Arizona State University, 2010
Concentration: Inquiry-Based Science Education, Environmental and Agricultural Education
Thesis: *Creating a Model of Interest: Increasing Intrinsic Motivation in Science Students*

Bachelor of Science (B.S.), Wildlife Conservation Biology
Arizona State University, 1992
Concentration: Wildlife Conservation / Behavioral Ecology
Capstone Project: *Resource Partitioning of Two Sympatric Rodents in Oak Woodland Forests*
Honors: Summa Cum Laude; Jonathan Wade Psoras Outstanding Zoology Student Award

Academic Appointments

Arizona State University (2009–Present)

Assistant Teaching Professor, 2022–Present
Instructor, 2013–2022
Instructional Professional, 2010–2013
Faculty Associate, 2009–2010

Higley Unified School District

Science Teacher, Cortina Middle School (Physical Science and Biology), 2008-2009

Professional Credentials

Arizona Secondary Education Teacher Certification (Biology), Arizona Department of Education, 2010

Structured English Immersion (SEI) Endorsement, Arizona Department of Education, 2010

Arizona Department of Education – Highly Qualified Teacher, Advanced Placement Biology and Anatomy & Physiology (Grades 7–12), 2010

Courses Taught – Arizona State University (2009–Present)

Course	Years	Delivery	Instructional Role
ABS 378 – Animal Nutrition	2015–Present	In-person, iCourse, ASU Online	Course Developer & Instructor
ABS 372 – Captive Animal Behavior Management	2018–Present	In-person, iCourse, ASU Online	Course Developer & Instructor
ABS 302 – Ethical and Policy Issues in Biology	2014–Present	iCourse, ASU Online	Course Developer & Instructor (General Studies Gold & Maroon)
ABS 274 – Introduction to Wildlife Management	2014; 2022–Present	Lecture & Laboratory	Course Developer & Instructor
ABS 490 – Undergraduate Seminar	2013, 2014, 2016, 2017, 2022, 2024	In-person	Instructor & Seminar Coordinator
ABS 489 – Independent Research	2021–Present	Individual Research	Research Mentor
ABS 492 – Barrett Honors Directed Study	2022–Present	Individual Honors Study	Barrett Honors Thesis Director
ABS 493 – Barrett Honors Thesis	2022–Present	Individual Mentoring	Barrett Honors Thesis Director
ABS 592–Graduate Research	2022–Present	Individual Research	Applied Project Director
ABS 593 – Graduate Applied Project	2022–Present	Individual Research	Applied Project Director
ABS 394 – Introduction to Equine Management	2020–2021	In-person	Instructor
ABS 100 – Discovering the Professions	2025–Present	iCourse	Instructor

BIO 480 – Methods of Teaching Biology	2013; 2015–2016	In-person	Course Developer & Instructor
BIO 100 – The Living World	2013–2022	Lecture & Laboratory	Course Developer & Instructor
BIO 181 – General Biology I	2010–2013	Laboratory	Laboratory Instructor
BIO 182 – General Biology II	2009	Laboratory	Laboratory Instructor
BIO 201 – Human Anatomy & Physiology	2010–2011	Laboratory	Laboratory Instructor

Curriculum and Program Development

• Developed ASU Online and iCourse versions of multiple Animal Studies courses, expanding access for campus-based and ASU Online learners.

• Designed ABS 302 – Ethical and Policy Issues in Biology to satisfy ASU General Studies Gold and Maroon requirements.

• Developed ABS 378 – Animal Nutrition, ABS 372 – Captive Animal Behavior Management, ABS 302 – Ethical and Policy Issues in Biology, BIO 480 – Methods of Teaching Biology, and ABS 490 – Undergraduate Seminar.

• Redesigned ABS 274 – Introduction to Wildlife Management, ABS 394 – Introduction to Equine Management, and BIO 181 – General Biology Laboratory.

• Co-developed ISS 494 – Pets in Society through an interdisciplinary partnership with faculty in the humanities.

• Co-developed IDS 494 – Ecological Peace Building and served as the Conservation Biology (Equine) collaborator.

• Developed new laboratory exercises for BIO 100 – The Living World and BIO 181 – General Biology I.

Student Mentoring and Scholarly Supervision

Mentoring Activity	Years	Students	Role
ABS 592/593 – Graduate Research & Applied Project Sequence	2023–Present	8	Project Director (8)
Letters of Recommendation for Veterinary Medical School Applicants	2022–2026	132	Faculty Mentor
ABS 492/493 – Barrett Honors Directed Study & Thesis Sequence	2022–Present	16	Thesis Director (14); Co-Director (1); Committee Member (1)
Barrett Honors Contracts	2013–Present	82	Faculty Mentor
Undergraduate Independent Research	2021–Present	7	Research Mentor
ASU Emerging Professionals Program	2024–2025	1	Faculty Mentor

Some students participated in multiple mentoring activities; therefore, categories are not mutually exclusive.

Faculty and Instructional Staff Mentoring

Mentored Sarah Churgin, Clinical Assistant Professor of Veterinary Medicine, in course development and classroom instruction, 2022–2023.

Mentored undergraduate instructional assistants and instructional professionals responsible for BIO 100 laboratory instruction by providing guidance in biological concepts, laboratory pedagogy, and effective teaching strategies, 2020–2023.

Mentored undergraduate laboratory instructional assistants in BIO 100 and introductory wildlife laboratories, 2011–2012.

Honors and Awards

- Outstanding Teaching Award Nominee, School of Applied Sciences and Arts, Arizona State University, 2025
- SUN Award for Service, Arizona State University, 2025
- Professor of Impact Award, Arizona State University (multiple student nominations), 2023–2025
    - Recognized by Barrett Honors student Makenzie Brown (2025)
    - Recognized by Christina Ramay, ABS 302 and ABS 378 (2025)
    - Recognized by Maria Lopez, ABS 378 (2023)
    - Recognized by Naia Temple, pre-veterinary student and club president (2023)
    - Additional Professor of Impact recognitions were received from students whose names were not identified on the award notifications.
- Arizona Department of Education Distinguished Achievement, Arizona Educator Proficiency Examination (Biology): Scored 100% on the Genetics and Cells content area, 2010
- Arizona Department of Education Highly Qualified Teacher Certification, Advanced Placement Biology and Anatomy & Physiology (Grades 7–12), 2010
- Structured English Immersion (SEI) Endorsement, 2010
- Jonathan Wade Psoras Outstanding Zoology Student Award, Arizona State University, 1992

Publications and Public Scholarship

Institutional Publications

Murphree, J. J. (2024). *Meet Pet Ambassador Loki: The Bonds of Service.* College of Integrative Sciences and Arts, Arizona State University.

Murphree, J. J. (2023). *Meet Pet Ambassador Echo: Scaredy Cats Handle with Care.* College of Integrative Sciences and Arts, Arizona State University.

Murphree, J. J. (2022). *Meet Pet Ambassador Joey: A Notch Above the Rest: Emotional Connection to Horses.* College of Integrative Sciences and Arts, Arizona State University.

Educational Publications

Murphree, J. J. (2012). *Water: The Chemical Context of Life.* In *The Pearson Custom Library for the Biological Sciences.* Pearson Learning Solutions, Boston, MA.

Murphree, J. J. (2012). *The Effect of pH on Our Environment and Health.* In *The Pearson Custom Library for the Biological Sciences.* Pearson Learning Solutions, Boston, MA.

Popular Publication

Murphree, J. J. (2014). *Watchable Wildlife: Chasing Butterflies. Mountain Lines: Journal of the McDowell Sonoran Conservancy*, Winter 2014.

Educational Outreach Publications

Murphree, P. J., Murphree, J. J., & Murphree, J. G. (1996). *The Adventures of 100% Happy Shirt: An Educational Tool for Agricultural Outreach.* Murphree Press, Maricopa, AZ.

Presentations and Media Recognition

Invited Presentations

Murphree, J. J. (2026). *Bloom into Your Career.* Invited presentation, Barrett Honors College Women's Empowerment Group, Arizona State University.

Murphree, J. J. (2014). *Innovations in Undergraduate Biology Teaching: Why We Need a Revolution.* Invited presentation, Arizona State University, Mesa, Arizona.

Media Recognition

Murphree, J. J. (In press). *Managing the Wild: Human Connections and Ethical Considerations in Arizona's Wild Horse Populations.* ASU News.

Murphree, J. J. (2024). *Horse Sense or Nonsense.* Interview featured in *Arizona Highways.*

Murphree, J. J. (2023). *Fire Insurance: Is It Possible to Use Wild Equids to Decrease Rates?* Interview featured in *Best's Review.*

Murphree, J. J. (2022). *The Wild Horse Fire Brigade: Equids as Ecosystem Engineers and Decreasing Fuel Loads in California.* Interview featured on National Public Radio.

Murphree, J. J. (2022). *Wild Horses Reign on Student Field Trip.* Featured in *ASU News*.

Murphree, J. J. (2022). *What to Do with a Pre-Veterinary Degree.* Featured by Arizona State University Pre-Veterinary Program.

Staton, M. (2020). *Wild Horses Up for Adoption. Cronkite News.* Interview contributor. *Cronkite News.*

Pirehpur, K. (2020). *Don't Fence Them Out: Horse Advocates Plea. Mesa Tribune.* Interview contributor. *Mesa Tribune.*

Sponsored Research and Collaborative Projects

Heber Wild Horse Territory Collaboration, USDA Forest Service, 2017-2019.

Doctoral researcher and member of the multi-stakeholder Heber Wild Horse Territory Working Group. Conducted externally funded dissertation research examining stakeholder values, decision-making, and management of Arizona's Heber Wild Horse Territory through an ethnographic, community-engaged approach. Total project funding: $7,725.

Professional Development and Faculty Training

Student Organization Advisor Training (annual), Arizona State University, 2022–Present

Artificial Intelligence in Higher Education Faculty Workshops (ongoing), Arizona State University

Ed Plus Faculty Training for ASU Online Course Development, Arizona State University, 2021

Canvas Advanced Instructional Design Workshop, Arizona State University, 2020

Mountain West Summer Institute: *Undergraduate Education in Biology*, Colorado State University, Summer 2014

Laboratory Safety and Compliance Training (annual), Arizona State University, 2009–2020. Required training supporting undergraduate biology laboratory instruction, including laboratory safety, chemical hygiene, hazardous waste management, biosafety, and related compliance requirements.

Professional Organizations and Affiliations

- Animal Behavior Society
- Institute for Compassionate Conservation (Education and Outreach)
- National Science Teaching Association (NSTA)
- National Wildlife Society
- Society for the Advancement of Biology Education Research (SABER)

Professional Advisory Appointments

- Equine Science Advisor, Wild Horse Fire Brigade

University, College and Unit Service

Committee Service

PSM Graduate Studies Committee, 2026

PSM Peer Teaching Evaluations Committee, 2026

Applied Biological Sciences Seminar Committee, 2025–Present

Career Track Faculty Association Representative, 2025–2026

Arizona Transfer (AZ Transfer) Steering Committee, 2024–Present

CISA Curriculum Development and Assessment Committee, 2024–Present

PSM Inclusion Committee, 2024–Present

Animal Studies Microcertificate Development Committee,2025–Present

Science and Mathematics Pre-Veterinary Assessment Committee, 2024

Polytechnic Campus Activation Committee, 2024

CISA Pet Ambassador Committee, 2022–Present

Applied Learning Experiences Workgroup, 2022

Science and Mathematics Assessment Reporting Committee, 2023

Task Force for Evaluating Guidelines for Academic Professional Duties, College of Letters and Sciences, 2013

Faculty Search Committees

Lead Committee Member, Clinical Assistant Professor (Pre-Veterinary Medicine) Career Track Faculty Search, 2023

Biology Instructor Faculty Search Committee, 2023–2024

Biology Instructional Professional Faculty Search Committee, 2011

Student Organizations and Faculty Advising

Founder and Faculty Advisor, *Angels for Devils*, 2023–Present

Founder and Faculty Advisor, *Poly Purrs*, 2023–Present

Faculty Advisor, Pre-Veterinary Club, 2014–Present

Faculty Advisor and Animal Science Commentator, CISA Pet Ambassador Program, 2022–Present

Faculty Advisor: Emerging Professionals Program

Student Recruitment and University Outreach

Graduate Convocation and Commencement Volunteer, Arizona State University, 2022-2026

Homecoming Parade Participant and Pet Ambassador Outreach, 2023

Arizona State University recruitment events and campus laboratory experiences promoting wildlife biology and pre-veterinary education, 2010–2012

Homecoming Educational Outreach Booth, College of Technology and Innovation, 2012

Community Outreach and K–12 Engagement

Developed inquiry-based science lessons for elementary classrooms, 2011

Developed Arizona science standards–aligned active learning curriculum for elementary education, 2011

Science Fair Judge, Cortina Elementary School, 2010–2013

Animal Science Judge, Future Farmers of America, 2011–2012

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Community Engagement and Educational Partnerships

- Arizona Department of Agriculture
- Arizona Game and Fish Department
- Arizona Farm Bureau
- Bureau of Land Management
- East Valley Canine Services
- Grand Canyon Wolf Recovery Project
- Mirabella at Arizona State University
- Phoenix Zoo
- Rail Lazy H Wild Horse Rescue
- Salt River Wild Horse Management Group
- Southwest Wildlife Conservation Center
- U.S. Forest Service – (Tonto National Forest, Apache Sitgreaves National Forest)
- Wild Horse Fire Brigade