



HONORING THE WHOLE STUDENT: Developing Space for Native American Students in STEM by Supporting Complex Identities

Dr. Christie M. Poitra, Dr. Angela Kolonich, Dr. Wendy F. Smythe and Dr. Quentin Tyler





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Next Generation
Project-Based Learning



CREATE for STEM Institute



MOTIVATION FOR THE WORKBOOK

The motivation for this workbook is to provide Science, Technology, Engineering and Mathematics (STEM) faculty the support and tools needed to reflect on their instructional, mentorship, and teaching practices—individually or within a community of learners. The goal is for STEM faculty to foster a deeper understanding of how to more dynamically support Native American students. The activities in this workbook are intended to generate conversation and reflection about the challenges faced by, and world views of, Native American STEM students.

This workbook also responds to the broader deficit narratives about Native American students. As scholars from underrepresented groups, we are committed to promoting asset-based language and narratives about Native American students. **As the workbook provides a narrow cross section of potential scenarios as thought-provoking activities, it is important to not assume that all Native American students have the same experiences in higher education, or will require the same type of support. Furthermore, it is damaging to view this workbook as all-encompassing of Native American identities and lived experiences.** Native American students are not monolithic and represent a broad spectrum of diversity—as

indicated by their gender identity, ability status, tribal affiliation, regional upbringing, cultures, and socioeconomic backgrounds. **We advocate for listening to your students’ needs, and problem-solving issues together when they arise.**

Considerations for Workbook Use

We envision this workbook being used by STEM faculty and academic staff interested in Diversity Equity and Inclusion (DEI) issues, with a specific focus on Native American student populations. This workbook may be used to supplement the work of faculty and academic staff already actively engaging in DEI learning. This workbook is also intended for use by individuals looking for resources on supporting Native American students, more broadly. **Lastly, we would like to highlight that engaging with this workbook requires the learner to approach these activities in an authentic and culturally humble way.**



RECOGNIZING YOUR PROFESSIONAL DEVELOPMENT
Once you have completed the workbook, please use [this link](#) to fill out a survey about your experiences and receive a personalized letter from the Michigan State University Native American Institute that recognizes your professional development efforts.





ABOUT THE AUTHORS

DR. CHRISTIE M. POITRA is the Interim Director of the Michigan State University (MSU) Native American Institute (NAI). Dr. Poitra is Turtle Mountain Chippewa (Pembina Ojibwa), with family ties to Little Shell. She is also a first-generation college graduate and Latina. She is an alumna of Berkeley, UCLA and MSU—and holds a doctorate in education. Dr. Poitra is an affiliate faculty member in the MSU American Indian & Indigenous Studies program, and core faculty in the MSU Gender Center for Global Context. She is also an affiliate in the MSU Bio/Computational Evolution in Action Consortium. Dr. Poitra is a scholar of Indigenous education policy and practice. Her research and service interests are defined by how policy contexts affect Indigenous education experiences—through institutional partnerships and instructional leadership. Dr. Poitra has received over a million dollars in grant funding and is the recipient of the MSU Distinguished Community Partnership Award, and MSU Excellence in Diversity Award. Prior to working in higher education, Dr. Poitra was an elementary teacher in a reservation public school, and served as a consultant for the Los Angeles Unified School District and the Bill & Melinda Gates Foundation.

DR. ANGELA KOLONICH is the Director of Professional Learning for the Next Generation Project Based Learning Initiative (NextGen PBL) in the CREATE for STEM Institute at Michigan State University. Angela is of mixed European/Anishinaabe ancestry, Giigoon Nindoodem, (Fish clan), originally from Winnipeg, Manitoba, and connected at Miskwaabekong (Red Cliff) in Northern Wisconsin. She has over 15 years of experience teaching and working in urban schools and maintains a research focus on fostering equitable science learning environments. Currently, Angela develops and facilitates sustained, teacher professional learning programs in school districts shifting to the Next Generation Science Standards, including the Detroit Public Schools Community District, and the Los Angeles Unified School District. Session topics include leveraging student funds-of-knowledge to make sense of the natural world, and positioning students as the generators of their own science knowledge. Angela's research interests are in science teacher learning, equity in science, and Indigenous science knowledge.





DR. WENDY F. SMYTHE is an Alaska Native Haida from Hydaburg, Alaska. Her Haida name is K'ah Skaahluwaa (Laughing Lady), from the Xáadas (Haida) tribe. She is Ts'aak' (Eagle) moiety of the Sdast' aas (Fish egg house) clan. Dr. Smythe is an Assistant Professor at the University of Minnesota Duluth, in the Departments of American Indian Studies and Earth and Environmental Sciences. She is a geoscientist whose research focus is on examining microbial diversity, biogeochemistry, and mineralogy of metalliferous groundwater and marine ecosystems from deep-sea hydrothermal volcanoes to hydrothermal springs in Southeast Alaska and Yellowstone National Park. She has had the honor of partnering with her tribal community over the last decade as the Director of the Geoscience Education Program, working to couple STEM disciplines with Traditional Knowledge in K-12 education by incorporating language and cultural values. She serves on the board of directors for the Xáadas Kil Kuyaáas Foundation.

DR. QUENTIN TYLER is the Associate Dean and Director for the Office of Diversity, Equity and Inclusion in the College of Agriculture and Natural Resources (CANR) at Michigan State University (MSU). As Associate Dean and Director for Diversity, Equity and Inclusion (ADDEI), Dr. Tyler provides leadership for infusing diversity, equity and inclusion principles through all areas of the CANR. Dr. Tyler very effectively focuses on creating a more multi-culturally centered environment for faculty, staff and students within CANR, AgBioResearch, and the MSU Extension; and networks with partners across MSU. His contributions and collegial spirit are highly valued by administrators, faculty, staff and students. Prior to MSU, Dr. Tyler spent over 15 years in the area of Diversity, Equity and Inclusion, serving previously in the role of Assistant Dean and Director for Diversity at the University of Kentucky College Of Agriculture. Dr. Tyler was notably the 2015-2016 National Professional President of MANRRS (Minorities in Agriculture, Natural Resources and Related Sciences) and currently serves as the National MANRRS Advisory Board Chair. Over the last decade, he has received a plethora of recognitions for his work with students and in diversity and inclusion as the National MANRRS Advisor of the Year, a Tri State Diversity Champion, University of Kentucky Inclusive Excellence Awardee and as a Game Changer by Workforce Magazine in the area of workforce management.



ACTIVITY 2 (CONT.)

Scenario 2

A Native American student, who identifies as a transgender woman, is the first person in her close-knit Native American community to attend college. She is somewhat apprehensive about being the first to attend college—particularly a large institution far from home. During a small breakout session during campus orientation, the speaker consistently refers to her and the other new students as *guys*. And states, “We are so happy to have you guys here, you guys will do a great job!”

NOTES

Reflection Activity
Please take some time to think about the potential impacts of exclusionary language on the Native American transgender woman described in the Scenario. Additionally, reflect on the importance of the other identities (gender, gender identity, gender expression, sexual orientation, family structure, geographic location, socioeconomic status) that Native American students bring with them in higher education spaces.



ACTIVITY 4

Instruction

Identifying ways to support Native American students in science requires instructors to consider familial and cultural connections and needs. Many instructional practices were based on middle-class, Eurocentric ideas about learning. Reflecting on these policies with Native American students and their needs in mind is essential to supporting their participation in STEM.

Consider a Native American student who will return to their home community to help their family with maple syrup harvesting during the spring semester. In addition to the harvest being culturally important, it also provides the student's family with a source of food and income for the year. It is difficult for the student to give you exact dates for the harvest because the timing of maple sap production is based on the seasonal shift in weather (which changes from year to year). This year, harvest has started early, and the student will be missing a week of classes. The student meets with you to ask about the consequences of their absences, and how to make up work.

NOTES

Reflection Activity

- What are some ways you might respond to the student?
- How might you make changes to your course to be more culturally responsive to the needs of Native American students?
- Review the requirements and policies within your syllabus and brainstorm ways to make them more inclusive for Native American students (e.g., course participation policy; assignments and deadlines; and lab equipment purchase and use requirements).
- Review your attendance policy with this situation in mind and consider incorporating flexibility into your policy for students in this situation. Alternatively, consider adding a sentence in your policy letting students know they can contact you in advance to arrange something.
- An example policy might include: *Our campus is beautifully diverse, with students belonging to many different communities. Should you require an absence from a class due to a cultural or community practice, ceremony or event, please email me two days prior for an approved absence.*





ACTIVITY 5

Lab Research

A Native American undergraduate student is from a rural area of the state and has asked to meet with you. The student is upset because they feel like they do not belong at the university. Describing life on campus as “too different” from what they are used to and feel as though they are “too far from home.” After a few minutes, the discussion eventually moves to talking about their internship in your lab. The student is conflicted because they have been “taught specific protocols for the treatment of land, animals, and plants” and are worried they may be “expected to violate the cultural protocols” they have been taught. Their concerns about working in your lab adds to their larger feeling about not belonging at the university.



NOTES

Reflection Activity

- Ask yourself, what is making the student feel uncomfortable?
 - Are there differences in cultural and community norms around learning (e.g., learning through listening and watching, versus questioning, reading, or literature review)?
 - Is it environmental stressors (e.g., urban versus rural living; being at a Predominantly White Institution)?
 - Is this the student's first time away from home, family, out of state or in a new setting (e.g., communal living or a dorm)?
 - Is the student struggling with self-confidence in a new learning and living environment?
 - Are they lacking peer support?
 - Are they uncomfortable about asking questions during class, lab or fieldwork (e.g., insecurity about speaking up for fear of offending someone, of being wrong, afraid of not knowing the answer, or sounding arrogant)?
- How might you help the student feel more welcome on campus?
- What are some ways you could make your lab more inclusive for Native American students?



ACTIVITY 6

Preparation for Fieldwork

Scenario 1

Over the last several months, a Native American student has commented in class that they have limited funds to purchase the appropriate equipment for fieldwork this summer. The financial costs of fieldwork are a financial burden that the student cannot overcome, and as a result, they are considering changing their major.



NOTES

Reflection Activity

- What university or campus community resources are available to help the students with the cost of gear?
- How might you help relieve the unexpected financial burden of fieldwork?

Scenario 2

A Native American student asks to meet with you. They are from an urban area and have not spent much time in the wilderness, let alone gone camping. They reviewed your gear list and are unsure where to buy gear and do not know how to use the gear they buy. They are extremely nervous to participate in the summer fieldwork, which is required for their degree.

Reflection Activity

- How might you teach students how to use fieldwork equipment?
 - Have you provided students with direction about how to use field gear?
 - Have you considered how to provide students with resources for getting gear at a lower cost?
 - Have you considered how to accommodate students with cultural or religious protocols or disability or chronic illness, in a way that does not require the student to disclose personal details?



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