

“EDI” in Undergrad. STEM Educ. Research

MTE 598: Special Topics  
Tuesday, 12:00-2:45pm  
Tempe Campus – ECA 385  
Dr. Naneh Apkarian

This graduate-level course focuses on issues of equity, access, and social justice in undergraduate STEM education. There are well-documented mismatches between the demographic descriptions of those in the United States as a whole, those in college, those graduating with a STEM degree, and those engaged in STEM careers; these patterns and mismatches persist and are tied to historic and systemic issues. This course aims to engage future academics in understanding why this situation exists, why it persists, and how to begin to effect meaningful change. Dimensions of focus include race, gender, socioeconomic status, language, and disabilities. Students will: become familiar with literature related to critical theories, power, discrimination, and how these ideas relate to STEM education; learn how to appropriately craft research questions related to equity in undergraduate STEM; deepen their ability to be an advocate and ally for others; articulate action plans as fits their personal responsibility; and better understand the lived experiences of students from marginalized groups through intersectional lenses. Coursework will consist of weekly readings and reflections, occasional presentations, in-class discussions, and term papers.

*Listed as “Equity, Access, and Social Justice Research in Und[er]graduate STEM Education”*