

A Tale of Universal Cycles in Two REU-Environments

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I regularly supervise undergraduate research projects as part of my tenured position at ETSU, where we *require* undergraduate research of all our majors via the course MATH 4010. At the same time I have run an NSF-sponsored REU site during most years since 1991. This talk will outline the symbiotic nature of these undertakings. I will provide concrete examples of how great NSF-REU work led to important work by an ETSU undergraduate and, conversely, how a project started in MATH 4010 led to important REU work in the summer. In both cases, the students in question were working on *Universal Cycles*, introduced into the literature by Chung, Diaconis, and Graham.