Course Change Information

What change is being proposed? (If more than one, what changes are being proposed?)
Shorten course title

What is the rationale for the proposed change(s)?
Simplification

What are the programmatic implications of the proposed change(s)?
(e.g. program requirements to be added or removed, changes to be made in available resources, effect on other programs that use the course)?
None

Is approval of the request contingent upon the approval of other course or curricular program request? No

General Information

Course Bulletin Listing/Subject Area
Education:Teaching & Learning

Fiscal Unit/Academic Org
School of Teaching & Learning - D1275

College/Academic Group
Education & Human Ecology

Level/Career
Graduate

Course Number/Catalog
7748

Course Title
Using Community and Culture to Teach STEM

Previous Value
Using Community and Culture to Teach Science, Technology, Engineering, and Mathematics (STEM)

Transcript Abbreviation
Com & Cul Tch STEM

Course Description
Explores a place-based approach to develop learning experiences that use the local community and culture as a real-world context to teach STEM to K-12 students. This course is appropriate for K-12 teachers and MA or PhD students.

Semester Credit Hours/Units
Fixed: 3

Offering Information

Length Of Course
14 Week, 7 Week, 4 Week (May Session), 12 Week (May + Summer)

Flexibly Scheduled Course
Sometimes

Does any section of this course have a distance education component?
No

Grading Basis
Letter Grade

Repeatable
No

Course Components
Lecture

Grade Roster Component
Lecture

Credit Available by Exam
No

Admission Condition Course
No

Off Campus
Sometimes

Campus of Offering
Columbus, Lima, Mansfield, Marion, Newark

Prerequisites and Exclusions

Prerequisites/Corequisites
Exclusions
Not open to students with credit for 846.

Cross-Listings
Cross-Listings

Subject/CIP Code

<table>
<thead>
<tr>
<th>Subject/CIP Code</th>
<th>13.12</th>
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<tbody>
<tr>
<td>Subsidy Level</td>
<td>Masters Course</td>
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<tr>
<td>Intended Rank</td>
<td>Masters, Doctoral, Professional</td>
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Quarters to Semesters

<table>
<thead>
<tr>
<th>Quarters to Semesters</th>
<th>Modified or re-envisioned course that includes substantial parts of the content and learning goals of one or more quarter courses</th>
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<tbody>
<tr>
<td>List the current courses by number and title that are to be subsumed into proposed course</td>
<td>EduTL 846: Development of Technology Education Vocational -Education Programs for Special Needs and Culturally D.</td>
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Requirement/Elective Designation

The course is an elective (for this or other units) or is a service course for other units

Course Details

<table>
<thead>
<tr>
<th>Course goals or learning objectives/outcomes</th>
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<tbody>
<tr>
<td>• Synthesize and critically review the literature on place-based or place-conscious education and its infrastructure education</td>
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<tr>
<td>• Know and apply strategies to identify community and cultural values, needs, and resources related to STEM</td>
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<tr>
<td>• Design and evaluate lessons based upon tenets of place-based pedagogy or place-conscious pedagogy that are aligned with local, state, and national STEM content standards</td>
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<td>• Develop an awareness, sensitivity, appreciation, and respect for different communities and cultures</td>
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<table>
<thead>
<tr>
<th>Content Topic List</th>
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<tbody>
<tr>
<td>• Place-Based Pedagogy and Place-Conscious Pedagogy</td>
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<tr>
<td>• Strategies to Identify Community and Cultural Values, Needs, and Resources</td>
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<tr>
<td>• Critical Pedagogy and Culturally Responsive Pedagogy</td>
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<tr>
<td>• Ethnomathematics</td>
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<td>• Ethnoscientific</td>
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<td>• STEM Integration</td>
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<tr>
<td>• Outdoor Education and Environmental Education</td>
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<tr>
<td>• Technology and Engineering Education</td>
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Attachments

Comments
## Workflow Information

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<th>Status</th>
<th>User(s)</th>
<th>Date/Time</th>
<th>Step</th>
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<td>Submitted</td>
<td>Post, Paul Erich</td>
<td>01/05/2012 02:43 PM</td>
<td>Submitted for Approval</td>
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<tr>
<td>Approved</td>
<td>Clark, Caroline Taylor</td>
<td>01/05/2012 08:56 PM</td>
<td>Unit Approval</td>
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<td>Pending Approval</td>
<td>Achterberg, Cheryl L Blount, Jackie Marie Zircher, Andrew Paul</td>
<td>01/05/2012 08:56 PM</td>
<td>College Approval</td>
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