Provost Immersive Learning Grant Recipients

Spring 2018

Past, Present, Future: Augmented Reality and Heritage Interpretation in Columbus, IN – Spring 2019

Project Director: Kristin Barry
Architecture

Abstract: Columbus, Indiana represents mid-20th century international modernism in the American Midwest: a facilitator of innovation, remarkable experimental design. The original Modernist architectural artifacts, however, have seen little continuing interpretation. This Immersive Learning project encourages students to explore the continuing influence of Columbus, acting as “interpreter professionals” to digitally reconstruct icons of design into a digital, augmented reality application, enabling virtual and physical visitors to engage with the architecture in new and exciting ways.

Let’s Build – Fall 2018

Project Director: Jennifer Warrner
Construction Management and Interior Design

Abstract: Let’s Build is an outreach initiative developed by the Ball State construction management program that teaches children about the construction industry and careers in construction through hands-on lessons. This grant is for funding to offer Let’s Build each week at Longfellow Elementary School in Muncie. The construction industry is facing a severe workforce shortage, and one strategy to deal with that shortage is to introduce the construction industry and careers in construction to children

Finding Voices: Mentorship in Forensics and Argumentation - Fall 2018

Project Director: Dallis Pike
Communication Studies

Abstract: Ball State Students will partner with a teacher and group of students from Muncie Central High School and assist with creating a debate team.
Discovery New Works Festival—Fall 2018 and Spring 2019

**Project Director:** Thomas Henning Horan  
Department of Theater and Dance

**Abstract:** With the Discovery New Works Festival in April 2019, we will look to substantially retool our festival based on what we learned from the first iteration in 2017. Twelve Ball State students curate a festival of new theatrical works culled from submissions by students across the Ball State campus. The aim of the project is to develop young theater artist-producers to enrich the local performance community.

Scenery in the Space—Fall 2018

**Project Director:** Mickie Marie, Theatre and Dance  
Kerry Chipman, Theatre and Dance

**Abstract:** In this project, a diverse group of students will partner with Muncie Civic Theatre to assist in the development of stock scenery. This scenery would be used within their regular production season and would be a significant upgrade in safety and efficiency over their current stock.

Preliminary Study of Lead (Pb) in Muncie (PSLM)—Summer and Fall 2018

**Project Director:** Carolyn Dowling, Geological Sciences  
Jessique Ghezzi, Natural Resources and Environmental Management

**Abstract:** Lead (Pb) is a persistent neurotoxin, and over 7% of population tested in Muncie and Delaware County has elevated blood lead levels (BLL), ~3x greater than the national average (2.5%). Drs. Dowling and Ghezzi will guide 15 undergraduate students in PSLM, a high-impact research and analysis project to find the source(s) of lead that is driving these high BLL in Muncie/Delaware County.

Educational Experiences in Augmented Reality—Fall 2018 and Spring 2019

**Project Director:** Paul Gestwicki  
Computer Science

**Abstract:** My students will explore educational game design opportunities with smartphone-based augmented reality. I propose to teach a Fall Honors Colloquium on game design that does research and pre-production work, followed by a Spring-semester multidisciplinary game production studio course. The proposed project continues my partnership with Minnetrista, meaning that students benefit from their expertise, mission, and collections, and Minnetrista benefits from the efforts and insights of our students.
Healthy Moms, Healthy Communities: Understanding Perceptions & Evaluating Maternal Opioid Treatment in Muncie – Fall 2018 and Spring 2019  
**Project Director:** Caitlyn Leonardson-Placek, Anthropology  
Jean Marie Place, Department of Nutrition and Health Science  
Jennifer Wies, Department of Anthropology  

**Abstract:** Maternal opioid use in pregnancy and the postpartum period is a significant issue faced by the Muncie community. In this immersive learning project, students will use public health and anthropological methods to assist Meridian Health Services in evaluating a maternal opioid treatment program and create a student-driven, data-informed product geared toward educating the community about the causes and consequences of maternal substance abuse.

The Brownfields to Brightfields Project Phase II: Analysis of Solar Potentials for Brownfields in East Central Indiana– Fall 2018 and Spring 2019  
**Project Director:** Sanglim Yoo  
Department of Urban Planning  

**Abstract:** Partnering with Sierra Club Hoosier Chapter, Phase II of the Brownfields to Brightfields Project (BBP2) will update the brownfields inventory and solar potential analysis for Delaware County, Indiana, resulting from Phase I and create a detailed reproduction guideline for Indiana communities that will enable BBP2 students to analyze brownfields in Grant County. BBP2 will share results through interactive GIS maps, the replication guideline, and presentations to local stakeholders, state/national conferences, and in print.

Stance: An International Undergraduate Philosophy Journal– Spring 2019  
**Project Director:** David Concepcion  
Philosophy and Religious Studies  

**Abstract:** Stance is an international academic journal that is edited and produced by undergraduate students. Stance students learn how to evaluate content, edit, and conduct independent research as part of an interdisciplinary team. Stance student increase their multicultural fluency, oral and written communication skills, professionalism, and problem solving abilities. In addition to publishing a volume of the journal, students present at the international American Philosophical Association meeting. Additional details at http://stancephilosophy.com and http://www.bsu.edu/libraries/virtualpress/stance/.
**Computer Science for Middle Schoolers (CS4MS) – Fall 2018**  
**Project Director:** David L. Largent  
Computer Science

**Abstract:** Project team will research and compile instructional resources that will better incorporate Computer Science (CS) and Computational Thinking (CT) experiences, with a focus on new Indiana CS academic standards. The partners can then utilize compiled resources, and implement them, based on their needs. Although CS student focused, an interdisciplinary team will be sought to implement the project, with another focus of the program being to expose underrepresented minorities and females to CS and CT.

**Book Arts Collaborative Academic Year 2018-19**  
**Project Director:** Rai Peterson  
English

**Abstract:** We are seeking funding for a third year to support Book Arts Collaborative, a community letterpress and book bindery in the Madjax Building in downtown Muncie. We teach students and community members binding and printing skills, we mentor a student-managed business, we offer community workshops, we publish a book, and we host a 3-day book arts conference in downtown Muncie.

**Reading the Wor(l)d: Critical Literacy & Culturally Responsive Classroom Libraries – Fall 2018**  
**Project Director:** Kristin Cipollone, PhD, Elementary Education  
Susan Tancock, PhD, Elementary Education

**Abstract:** Research affirms the power of culturally relevant literature and practice (Clark 2017), yet, the International Literacy Association (2018) reports that equity in literacy, diversity, and access to diverse content are the most pressing issues in K-12 schools, acknowledging that teachers are unprepared to address these challenges. This project addresses this preparation gap. Pre-service teacher candidates, working with classroom teachers, students, and community members will design classroom libraries containing a robust collection of culturally relevant texts.