



# SUSTAINING HOOSIER COMMUNITIES

2017-2018

A partnership between Indiana University  
& Lawrence County

*Executive Summary*





# SUSTAINING HOOSIER COMMUNITIES

## ENVIRONMENTAL SUSTAINABILITY

### AVOCA STATE FISH HATCHERY

#### COURSE NAME

SPH-P305: Integrated Resource Management

#### IU FACULTY

James Farmer, School of Public Health

#### COMMUNITY LIAISON

Barry Jeskewich, Bedford Parks & Recreation

#### PROJECT DESCRIPTION

The decommissioned Avoca State Fish Hatchery is in the midst of transfer from Indiana's Department of Natural Resources to the Lawrence County Community. Students spent the semester working with community leaders to evaluate the site in order to propose a long-term vision and management plan for this historical resource.

#### FINAL DELIVERABLES

- Distribution of community stakeholder survey that received 700 responses
- 10-year plan & budget for the use and preservation of the Avoca Fish Hatchery



### GUS GRISSOM TRAIL MONITORING APPLICATION

#### COURSE NAME

School of Informatics Capstone Project

#### IU FACULTY

Bryce Himebaugh, School of Informatics

#### COMMUNITY LIAISON

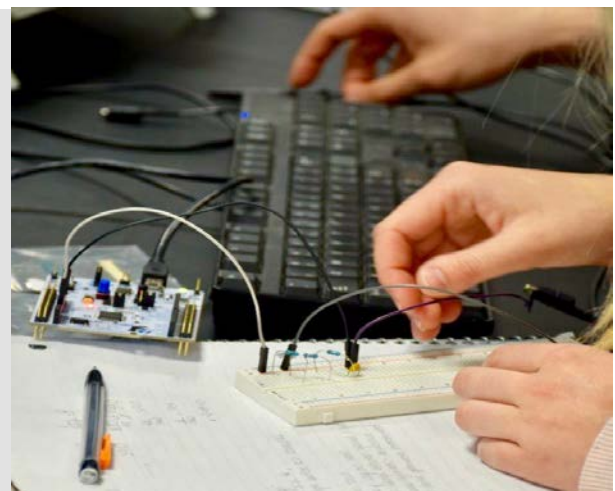
Allen Burris, Pastor – Mitchell Church of Christ

#### PROJECT DESCRIPTION

Mitchell, IN is the hometown of Gus Grissom, the second American to travel to space. Informatics students dedicated their capstone project to designing a mobile application that would provide users with a virtual tour of the proposed Gus Grissom Trail that links Gus Grissom's Boyhood Home, the Gus Grissom Monument, and the Gus Grissom Memorial in Spring Mill State Park.

#### FINAL DELIVERABLES

- Prototype of the mobile application
- *Hopeful deployment in 2018-2019*





# SUSTAINING HOOSIER COMMUNITIES

## ENVIRONMENTAL SUSTAINABILITY

### HOOSIER NATIONAL FOREST DARK SKY PARK DESIGNATION

#### COURSE NAME

CSCI-P442: Digital Systems

#### IU FACULTY

Bryce Himebaugh, School of Informatics

#### COMMUNITY LIAISON

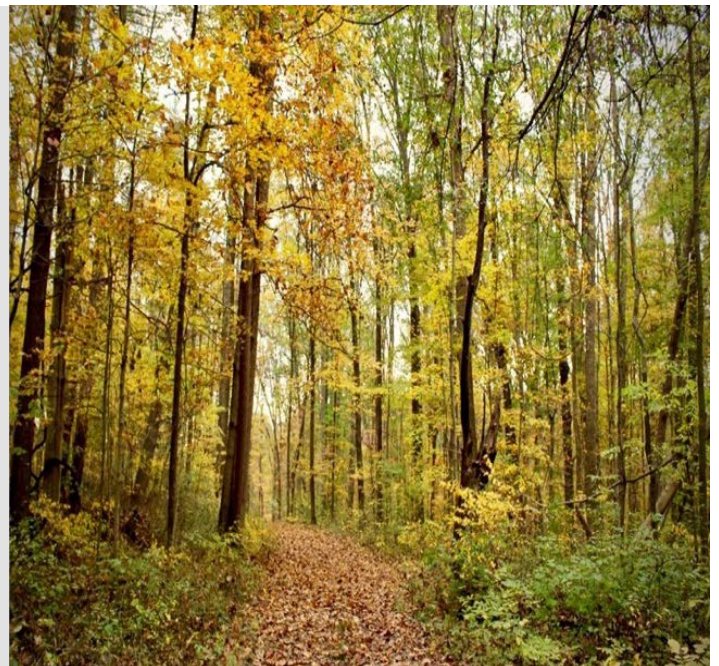
Andrea Crain, Public Affairs Officer

#### PROJECT DESCRIPTION

To increase the number of visitors and preserve the natural beauty of the Hoosier National Forest, students worked with public affairs officer, Andrea Crain, to develop low-power, wireless light sensors and a web interface to track light pollution. The data from this system will be used to satisfy the requirements for an ongoing application for the Hoosier National Forest to receive International Dark Sky Park designation.

#### FINAL DELIVERABLES

- Prototype for a forest-based light monitoring device
- Prototype for an accelerometer-based trail counter to track number of pedestrians
- *Web interface and light sensors will be deployed in the test area in 2018-2019*





# SUSTAINING HOOSIER COMMUNITIES

## SOCIAL SUSTAINABILITY

### MITCHELL & BEDFORD COMMUNITY GARDENS

**COURSE NAME**

SPH-F150: Intro to Life Span Development

**IU FACULTY**

Deb Getz, School of Public Health

**COMMUNITY LIAISON**

Rachel Beyer, Community Wellness Coordinator

**PROJECT DESCRIPTION**

Both Mitchell Accessible Gardens (MAG) and Bedford Garden Park (BGP) expressed the need for greater visibility and participation throughout their communities. Students created fundraising, marketing, and community engagement plans tailored to the specific needs and target demographics for each garden.

**FINAL DELIVERABLES**

- Final reports focusing on targeted populations identified by BGP and MAG
- Educational programming, marketing, and outreach strategies for BGP and MAG



### YOUTH FINANCIAL LITERACY CURRICULUM

**COURSE NAME**

SPH-F180: Survey of Practice for Youth & Families

**IU FACULTY**

Deb Getz, School of Public Health

**COMMUNITY LIAISON**

Larry Will, Boys & Girls Club of Lawrence County

**PROJECT DESCRIPTION**

Students developed and led a personal financial health curriculum for middle school students in the Boys & Girls Club of Lawrence County. Lessons complemented the Boys & Girls Club's existing Money Matters program and focused on financial well-being and planning.

**FINAL DELIVERABLES**

- Three, 45-minute financial literacy lesson plans for 22 middle school students that meet Indiana Academic Standards





# SUSTAINING HOOSIER COMMUNITIES

## SOCIAL SUSTAINABILITY

### BEDFORD DIVERSITY COUNCIL

**COURSE NAME**

MSCH-R428: Public Relations, Planning & Research

**IU FACULTY**

Minjeong Kang, Media School

**COMMUNITY LIAISON**

Shawna Girgis, Mayor of Bedford

**PROJECT DESCRIPTION**

Students worked with Mayor of Bedford, Shawna Girgis, to investigate Bedford residents' attitudes towards racial/cultural sensitivity by conducting interviews with community leaders and distributing online surveys to Lawrence North Community students, parents, and educators to better understand the factors affecting issues of diversity in the City of Bedford.

**FINAL DELIVERABLES**

- Four surveys with 1,000+ responses
- Five reports with recommendations to address racial/cultural diversity in Bedford
- Initiation of the Bedford Diversity Council



### ADDRESSING INDIANA'S OPIOID CRISIS – SOCIAL WORK

**COURSE NAME**

SWK-S502: Research Methods in Social Work SWK-S505: Social Policy, Analysis, and Practice

**IU FACULTY**

John Keesler & Kristen Hamre, Social Work

**COMMUNITY LIAISON**

Nedra Fleetwood, Chief Probation Officer

**PROJECT DESCRIPTION**

As part of the statewide effort addressing the opioid epidemic in Indiana, students are exploring the impacts of drug use on individuals and their families to understand how to prevent, reduce, and treat drug addiction.

**FINAL DELIVERABLES**

*Projects are ongoing and are receiving additional support from the IU Center for Rural Engagement.*





# SUSTAINING HOOSIER COMMUNITIES

## SOCIAL SUSTAINABILITY

### WHAT MOVES YOU MITCHELL?

#### COURSE NAMES

BIOL-P451: Integrative Human Physiology  
SPH-K553: Physical Activity in Health

#### IU FACULTY

Whitney Schlegel, Department of Biology  
Jeanne Johnston, School of Public Health

#### PROJECT DESCRIPTION

To address Mitchell's high rates of hypertension and cardiovascular disease, students used community-based participatory research and worked with Mitchell leaders to propose intervention programs, create educational materials, organize a community health event, and initiate surveys assessing the general health and physical activity needs of Mitchell residents to encourage physical activity and promote healthier lifestyles.

#### FINAL DELIVERABLES

- Several educational materials on physical activity distributed throughout Mitchell
- Mitchell Physical Activity Map identifying physical activity opportunities
- Trail-use survey to better understand the use of the Blue Jacket Trail in Mitchell
- General health survey to evaluate and assess physical activity needs of residents
- Multiple recommendations for health programs tailored to specific needs of Mitchell demographics
- "I Heart Mitchell" community health event
- *12-week intervention program will be implemented in 2018-2019*

SPH-K554: Seminar in Physical Activity & Wellness

SPH-K556: Physical Activity Assessment in Public Health

#### COMMUNITY LIAISON

Karin Dubois, Indiana Healthy Communities Liaison





# SUSTAINING HOOSIER COMMUNITIES

## SOCIAL SUSTAINABILITY

### ASSESSING LEGAL NEEDS OF LAWRENCE COUNTY'S UNDERSERVED

**COURSE NAME**

LAW-B515: Project Management for Lawyers

**IU FACULTY**

Victor Quintanilla, Maurer School of Law

**COMMUNITY LIAISON**

John Plummer III, Lawrence County Circuit Court

**PROJECT DESCRIPTION**

As part of Maurer School of Law's Access-to-Justice (A2J) Program, students worked with Lawrence County Circuit Court to assess the most pressing and unmet legal needs of Lawrence County's underserved populations. By researching the current legal services delivery systems, students helped recommend ways to improve the delivery of civil legal services to low-income Hoosiers in Lawrence County.

**FINAL DELIVERABLES**

- Memorandums for the Indiana Coalition for Court Access that examine current access to legal services and recommend ways to improving this access to underserved residents in Lawrence County
- *Current research is ongoing and receiving additional support from the IU Center for Rural Engagement.*





# SUSTAINING HOOSIER COMMUNITIES

## ECONOMIC SUSTAINABILITY

### BEDFORD SHARED WORKSPACE

**COURSE NAME**

SOAD-D272: Interior Design Studio 3

**IU FACULTY**

Marleen Newman & Louis Joyner, Art & Design

**COMMUNITY LIAISON**

Shance Sizemore, Bedford Chamber of Commerce

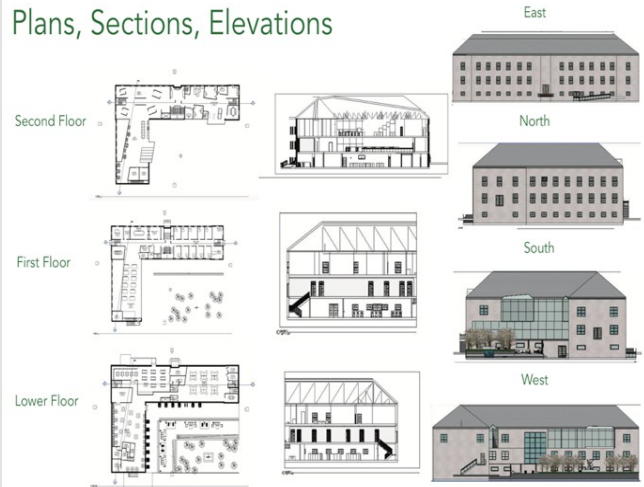
**PROJECT DESCRIPTION**

Students reimagined and redesigned the interior spaces of the Indiana Limestone Company headquarters in Bedford, IN into an incubator workspace to attract young professionals and entrepreneurs to work and stay in Bedford.

**FINAL DELIVERABLES**

- 27 design proposals for the Indiana Limestone Company headquarters
- Multiple innovative, student-generated solutions for adaptive reuse of the Indiana Limestone Company headquarters

Plans, Sections, Elevations



### BEDFORD & MITCHELL GATEWAY DESIGNS

**COURSE NAME**

SOAD-A211: Design for Social Impact: Graphic + Interior Design

**IU FACULTY**

Jenny El-Shamy & Jon Racek, Art & Design

**COMMUNITY LIAISON**

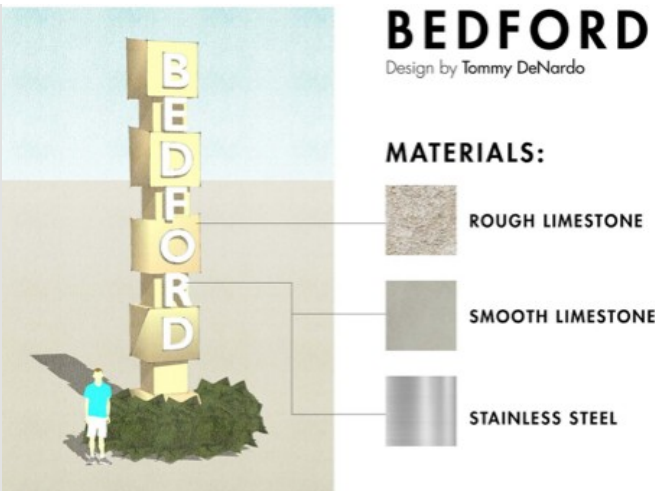
Marla Jones, Bedford Business Development Director  
Mark Bryant, Mitchell Clerk & Treasurer

**PROJECT DESCRIPTION**

Students created designs for logos and city gateways to be produced from limestone that reflect the historical and cultural identity for both Mitchell and Bedford, IN. The design to the right was chosen as the winning gateway marker.

**FINAL DELIVERABLES**

- Multiple logo proposals for Bedford & Mitchell
- Multiple gateway marker designs for Bedford & Mitchell
- *Budget for winning design in progress*







# SUSTAINING HOOSIER COMMUNITIES

## ECONOMIC SUSTAINABILITY

### BEDFORD COMPLETE STREETS

**COURSE NAME**

SPEA-S515: Sustainable Communities

**IU FACULTY**

Bill Brown, School of Public & Environmental Affairs

**COMMUNITY LIAISON**

Dan Kirk, Bedford Director of Planning & Zoning

**PROJECT DESCRIPTION**

Bedford drafted a Complete Streets policy that identified future areas of continued improvement to city infrastructure. Students researched planning documents and offered suggestions regarding how to implement a Complete Streets policy for Washington Avenue, I & J Streets, and Mitchell Road.

**FINAL DELIVERABLES**

- Prioritization criteria to move Complete Streets policy forward
- Recommendations & resources on implementing community-level education and public awareness strategies for transportation improvements



### HIGHWAY 50 BYPASS SCOPING STUDY

**COURSE NAME**

SPEA-L563: The Planning Process

**IU FACULTY**

Frank Nierzwicki, School of Public & Environmental Affairs

**COMMUNITY LIAISON**

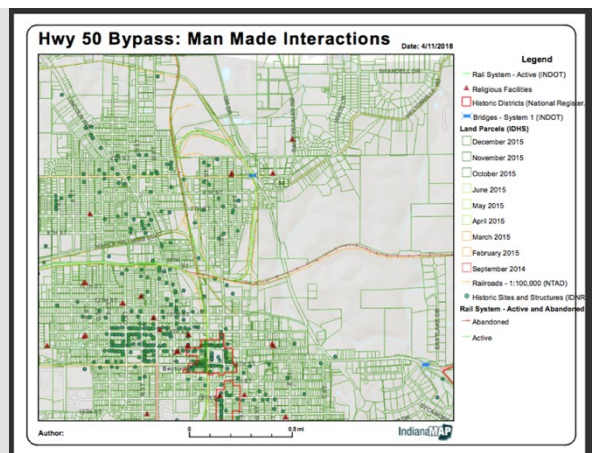
Dan Kirk, Bedford Director of Planning & Zoning

**PROJECT DESCRIPTION**

Bedford has proposed a new bypass connection for Highway 50 to provide an alternative route for thru-traffic around the Bedford downtown. Students conducted a scoping study of the potential bypass to determine the feasibility of this project

**FINAL DELIVERABLES**

- Detailed maps of potential roadway corridors
- Budget proposal for completion of bypass
- "Next steps" in moving forward with the Indiana Department of Transportation





# SUSTAINING HOOSIER COMMUNITIES

## ECONOMIC SUSTAINABILITY

### LITTLE THEATRE OF BEDFORD

**COURSE NAME**

AADM-Y650: Seminar in Arts Administration

**IU FACULTY**

Ursula Kuhar, School of Public & Environmental Affairs

**COMMUNITY LIAISON**

Penny & Jack May, Little Theatre of Bedford

**PROJECT DESCRIPTION**

Little Theatre of Bedford (LTB) is an established community theatre with a rich history and offers performances and educational programs year-round. LTB identified the following challenges: board governance, fundraising & development, strategic communications, finance & operations, and artistic & educational programming. Students posed as a consultancy firm to address these five areas of concern.

**FINAL DELIVERABLES**

- Five feasibility studies for each area of concern
- Templates for programming, grants, and press releases
- Beginning of a board handbook
- Assessment of financial stability & framework for sustainability
- Estimates for CRM/technology platforms

