

# Community-engaged and Transformational Scholarship Initiative



CATS is an initiative to establish meaningful and large-scale partnerships with surrounding communities through course-based project collaborations. CATS initiated a 3-year partnership under a standing MOU with the City of Bozeman through Spring semester 2021.

## 2018-2019 Course Project Partnerships

### Public Art Map Web Overlay

- *Geography 358: GPS Mapping Service Learning*
- *City of Bozeman GIS Department*

The City of Bozeman envisions a creative, learning culture through, among other things, support for public art. Working with City GIS staff, students in a senior level GIS course gathered the clean spatial data needed to add public art installations around town as a layer on the City's public interactive mapping application, allowing members of the public to explore public art installation locations.

### Accessory Dwelling Unit Design

- *Architecture 451: Design for Community*
- *City of Bozeman Planning & Community Development Division*

Bozeman's rapid growth has led to a shortage in housing, and Accessory Dwelling Units (ADUs) such as apartments over garages can provide expanded options. Working with Bozeman Community Development staff, Architecture students developed multiple ADU design options and models, construction documents and cost estimates, and information resources for community members interested in adding an ADU to their property to assist them in getting started.

### Public Education on Street Design for Traffic Calming & Safety

- *Education 588: Science Assessment Principles*
- *City of Bozeman Neighborhoods Office*

Bozeman is encouraging neighborhood-based efforts to address traffic safety concerns by supporting the installation of low-cost temporary traffic calming projects. Secondary school teachers enrolled in an MSU graduate education course assisted the City in adding to its public outreach and awareness materials on traffic calming strategies by developing lesson plans that can be implemented in STEM classrooms at the middle school level.

### Visual Media to Promote Fire Safety Awareness & Education

- *Film 301: Issues in Lens-Based Media*
- *City of Bozeman Fire Chief*

MSU film students are developing visual media to improve fire and accident prevention awareness among Bozeman community members, working with the Bozeman Fire Department to capture local footage that is relevant and recognizable to our community.

### Environmental Health Issues for Students Living in Off-campus Housing

- *BIOM 210: Principles of Environmental Health Science*
- *City of Bozeman Neighborhoods Office*

The tight housing market in Bozeman and lack of adequate literacy about environmental health issues associated with independent living put students at potential risk. Students in this course are researching and documenting a variety of environmental health issues related to off-campus housing for compilation into information resources for student renters.

### Urban Design Manual Inputs

- *Geography 520: Land Use Planning*
- *City of Bozeman Planning Department*

Students explored urban design theories and trends in conjunction with Bozeman's Municipal Code to identify potential applications for inclusion in an Urban Design Manual.


### Complete Street Design


- *Honors 494: Design Thinking for the Community*
- *City of Bozeman Neighborhoods Office*

Students are engaging student and local business stakeholders to develop streetscape designs for College between 8th and 11th to improve biker and pedestrian safety. Students will explore the potential for a design prototype to be deployed and tested as a temporary pop-up traffic calming demonstration project.

To date the collaboration has engaged **37 students** from **7 different academic disciplines** across **3 colleges** in **addressing local community needs and concerns.**

#### Interested in exploring project partnership opportunities?

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