COURSE / PROJECT DESCRIPTION:

Concrete Workshop: Parametric Precast Part II is an extension of the fall workshop. In the workshop we will be completing detailed design development and fabrication of a full scale precast installation to be installed on the Atlanta Beltline.

Students will learn advanced geometry, parametric modeling, and CNC fabrication in the first part of the workshop in order to realize the design in full scale. Fundamentals of reinforced concrete design, Ultra-High Performance Concrete, connection design, formwork design, casting / finishing procedures, and erection process will be covered in the workshop. At the same time students will be asked to speculate on new and novel methods of designing and building in precast concrete.

MATERIAL STIPEND:

Students will have a material budget to cover the cost of the installation.

FIELD TRIPS:

The workshop will organize a field trip to the Gate Precast Plant in Nashville to see how architectural precast is made.

DELIVERABLES:

The final deliverable will be the design, documentation and full scale prototype of a precast concrete installation to be installed on the Atlanta Beltline. Conceptual design will be completed in the fall of 2017.

PROJECT SPONSORS:

The project is sponsored by the Precast Concrete Institute (PCI) and multiple precast industry partners in the Southeast.