

Studio Syllabus: Large

INTRODUCTION

The focus of this curriculum module is to act in conjunction with the other ‘Studio’ modules, Small and Medium, to provide suggested studio project(s) content and organization related to the design, development and construction documentation of Interlocking Concrete Pavements.

GOALS

In particular, students will develop the following knowledge, skills and values:

Knowledge

- Ability to synthesize the complexities of large-scale design and engineering applications of ICPs with a focus on high-intensity urban contexts.
- Understand the issues and opportunities of design with tradition (non-permeable) and permeable systems to satisfy a variety of environmental design challenges.
- Understand the current position of ICPs within the design and construction industries, including the multitude of associated users and uses interconnected throughout these development processes.

Skills

- Understand the ways in which ICPs can be used to create safe and functional spaces, engaging people places and efficient movement corridors that satisfy multifaceted programmatic and technical requirements within highly developed and/or trafficked environments.
- Refine fundamental design skills related to the fabric, pattern and patina of landscape projects, with a specific focus on paved applications.

Values

- Deepen student understanding of the importance of structurally sound, beautiful, low-impact built environments.
- Recognize the impact material design decisions—most specifically related to hardscape elements—have on the design and construction of healthy, safe, enjoyable and lasting landscape projects.

OBJECTIVES

The focus of this studio module is to increase student understanding and proficiency related to the design, detailing and documentation of ICP projects addressing large-scale and/or heavy load applications. Materials, techniques and precedent studies focused on high intensity, heavy duty applications are the focus. Associated contexts, programs and technical requirements may vary based on each set of specified project goals.

METHODOLOGY

Educators are encouraged to utilize this studio module as a supplemental resource for class use. It is expected that students can utilize the module both independently and also as part of class group exercises. Additionally, wiki-upload templates are provided as a means for students and educators to share their research and efforts.

SUGGESTED ROUTES

This module provides enough materials for a 3-4 week project. Project length is highly flexible based upon class size, student sophistication, outside project requirements (as defined by administering instructors), and desired pace and technical rigor. It is recommended that instructors use this studio project module as the final evaluative tool within the ICP on-line curriculum framework. The studio projects are synthetic; they assume a satisfactory proficiency in the proceeding course materials. In this way, instructors are encouraged to reinforce the knowledge and skills gained through the Overview and Technology module presentations, research projects, quizzes and exercises into a unified project experience. Completed projects can be uploaded to the site's ever-evolving wiki database.