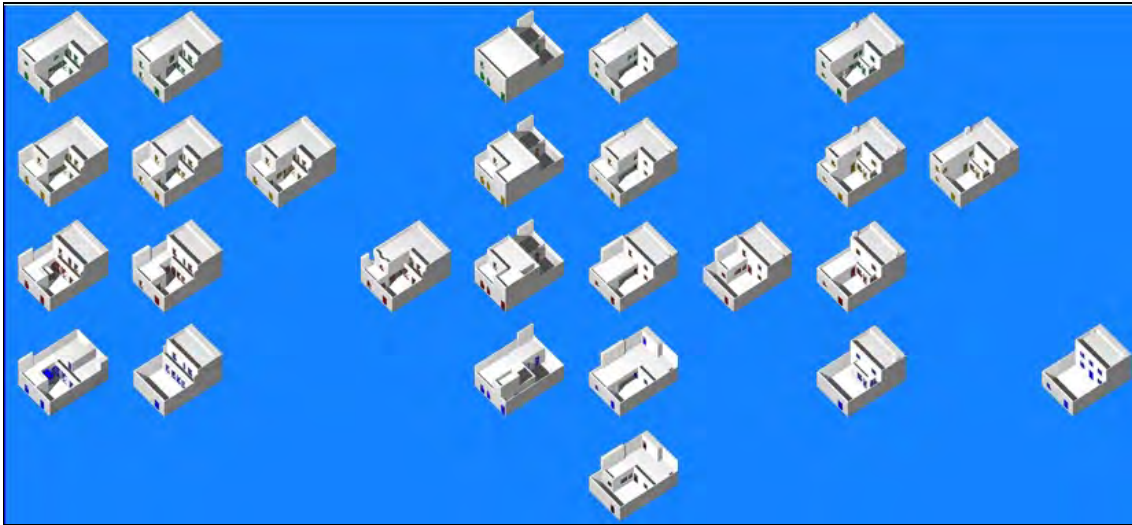


The Pennsylvania State University
College of Arts and Architecture
Stuckeman School of Architecture and Landscape Architecture
Arch 497-3 | Larch 497-4



Introduction to Shape Grammars

Fall 2018

Prerequisites: None

Monday 6:00-9:00 pm

Room: 102/3

Instructor: Prof. José P. Duarte

Office: 150 Stuckeman Family Building

e-mail: jxp400@psu.edu

Office Hours: By appointment

Teaching Assistant: n/a

Course Content/Description

This course provides an in-depth introduction to shape grammars and their applications in architecture and related areas of design. Shape grammars are presented as a framework that supports an algorithmic approach to design. The course addresses both theoretical and practical aspects of shape grammars with the goal of providing students with an understanding of the syntactic and semantic principles of form description and generation. The emphasis is on the use of shape grammars for understanding existing design styles as much as for exploring new languages of design. Students will be exposed to the foundations of the theory and to its most recent developments and applications in architecture and landscape architecture, but also in urban design, engineering and the arts. Weekly readings or hands-on exercises developed in class will lead to a final assignment that might be an essay or a practical application.

Note: This course is highly recommended to students willing to take the Rio Studio in the Spring.