



ARCH 6502 MS – Advanced Design Scripting
Tuesday / Thursday 6PM – 7:15PM
Dennis Shelden, Sinisa Kolaric, Instructors

Advanced Design Scripting offers a comprehensive introduction to computer programming focused on graphics, 3D and CAD / BIM applications. The course provides an accelerated introduction to prevalent programming languages and constructs, graphics libraries and development environments. Students will be exposed to three main programming paradigms using a set of common programming language conventions:

- 2D graphics and animation using Processing – a simple Java based graphics scripting environment
- Web application development using Javascript and 3D on the web using the 3.js library
- CAD / BIM plugin development in Revit using C#

This class is oriented to students who are interested in going beyond simply using 2D and 3D programs, who want to better understand the technologies behind these tools and go beyond the capabilities available through simple scripting capabilities. Students will develop three small projects over the course.

This class is open to both graduate and undergraduate students. Prior experience using modeling tools such as Rhino or Solidworks is required, along with basic familiarity of Grasshopper or other similar scripting tools. Permissions of the instructor is required.

