

Surface, Screen & Structure

Course Schedule // Fall 2017 // Tuesday, 7-9 PM - Room 115

NOTE: DATES ARE NOT CONFIRMED AND WILL BE UPDATED TO REFLECT GSAPP FALL 2017 SCHEDULE

- wk 01 Sept 13 Introduction to course** // Precedent examples // Past student work // Why digital fabrication
+ **Guest lecture** - Reto Hug (Maloya) // Dialogue with SHOP, data management, tolerance and assembly
+ **Assignment 1** - Concept development + precedent research
- wk 02 Sept 20 Site and initial concept review** // facade precedents // Graphic representation + ornamentation
+ **Workshop** - Sheet metal modeling + folding example // Paneling techniques
+ **Assignment 2** - Panel and global pattern design
- wk 03 Sept 27 Project progress reviews by group** // Review of screen systems + overall facade concept
+ **Assignment 3** - Chipboard prototype + Connection detail design development
+ **Guest lecture** - Reto Hug // systems, global design, materials, structural engineering
- wk 04 Oct 04 Project progress reviews by group** // Review of Chipboard prototype + Connection detail design development
+ **Assignment 4** - Prepare shop drawing set for preliminary fabrication
+ **Guest lecture** - Structural engineer // panel to panel connections, structural details
- wk 05 Oct 11 Work Session** // Detailing in sheet metal // Preparing unfolded sheet metal screens for laser cutting
+ **Workshop** - Tolerance and machine drawings for the laser cutter + Prepping Files for laser cutting at Maloya
+ **Assignment 5** - .dxf laser cut files for presentation and fabrication at Maloya Laser
Oct 12 + Prototype 01 laser cut files MUST be sent to Maloya Laser for fabrication by 12 Noon
- wk 06 Oct 18 Class trip to Maloya Laser** // Shop tour // CNC laser cutting and press break demonstration
+ **Workshop** - Prepping Files for laser cutting at Maloya
+ **Guest lecture** - Reto Hug // large scale manufacturing techniques and protocols
- wk 07 Oct 25 Work Session** // Mid-term week // review progress and presentation
- wk 07 Nov 01 Mid REVIEW // ROOM 115 7-10 PM**
- wk 10 Nov 08** No Class - Election Day Holiday
- wk 11 Nov 15 Work Session** // Solidworks model review + final prototype review
+ **Review** - Presentation of fully developed Solid model + analysis of final prototype for fabrication
+ **Assignment 6** - Complete Solidworks models with screen, armature and details
+ **Guest critic** - Lighting designer
- wk 12 Nov 22 Work Session** // Lighting review // Sun screen performance // Interior and exterior lighting scenarios
+ **Review** - Presentation of screening and lighting properties of the physical prototypes
+ **Assignment 7** - Final .dxf laser cut files for presentation and fabrication at Maloya Laser
+ **Guest critic** - Structural engineer
- wk 12 Nov 29 Cost Analysis** // Project feasibility assesment
+ **Workshop** - How to assess costs for material, fabrication, assembly and installation
+ **Assignment 8** - Creating costing spread sheet
Nov 30 + Prototype 02 laser cut files MUST be sent to Maloya Laser for fabrication by 12 Noon
- wk 14 Dec 06 Work Session** // Final prototype and review strategy // Structural review of details
+ **Review** - Presentation of full scale details
+ **Assignment 9** - Shop drawings complete and ready for fabrication
- wk 14 Dec 13 Work Session** // Structural review of details
- wk 15 Dec 20 Final REVIEW // ROOM 115 7-10 PM**
- wk 16 Dec 21 Grades due**