

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