Technologies of Visualization and Fabrication – Distributional Electives

Description
Architectural design processes and techniques have been dramatically reorganized in response to advances in digital technologies over the past few decades, which have changed everything in the design practice, from data visualization, to project presentation, to building component fabrication and project delivery. The GSD has remained at the forefront of the critical thinking and use of these technologies through their study in core courses, studios, and electives. The distributional elective requirement asks students to investigate these technologies in greater depth by taking one or more selected electives in the 2000 or 6000 curriculum areas. These courses expose students to an ever expanding repertoire of computational media and techniques in the areas of both design visualization and conceptualization, and object fabrication.

Archive of Past Approved Courses
Note: For a course to count towards a requirement, it must be taken in the year that it was listed as valid.

Fall 2018
SCI 6317 Material Systems: Digital Design and Fabrication Nathan King
SCI 6338 Introduction to Computational Design Sawako Kaijima
SCI 6360 Digital Fabrication and Robotics Stylianos Dritsas
SCI 6465 Deployable Surfaces: Dynamic Performance Through Multi-Material Architectures Chuck Hoberman
VIS 2225 Digital Media: Design Systems Sawako Kaijima
VIS 2226 Digital Media: Image Zeina Koreitem
VIS 2349 MAKE/BELIEVE Dan Borelli
VIS 2350 Graphic / Volume Conflations Viola Ago
VIS 2481 Public Projection: Projection as a Tool for Expression and Communication in Public Space Krzysztof Wodiczko

Spring 2018
VIS 2224 Digital Media II Andrew Witt
VIS 2346 Near Drawing Volkan Alkanoglu
VIS 2453 Graphic Narratives Michael Rock
VIS 2483 Projection-Animation Krzysztof Wodiczko
SCI 6358 Computational Geometry Wu / Legendre
SCI 6425 Material Distributions: Digital Immersive Workflows for ... Panagiotis Michalatos

Fall 2017
VIS 2456 Experiments in Computer Graphics Zeina Koreitem
VIS 2481 Public Projection: Projection as a Tool for Expression and Communication ... Krzysztof Wodiczko
SCI 6317 Material Systems: Digital Design and Fabrication Martin Bechthold
SCI 6349 Mapping II: Geosimulation Robert Pietrusko
SCI 6338 Introduction to Computational Design Michalatos / Kajima
SCI 6463 Hybrid Formations Volkan Alkanoglu
SCI 6465 Deployable Surfaces: Dynamic Performance Through Multi-Material... Hoberman / Grinham