PROFESSIONAL EDUCATION
Short Programs

Computational Design for Manufacturing

July 16-18, 2018

Professor Wojciech Matusik

	Monday	Tuesday	Wednesday
9:00-10:00 am	**Course overview and introduction to additive manufacturing** Matusik	**Introduction to generative design** Matusik	**Automating design across multiple domains** Matusik/Schulz
10:00-11:00 am	**Solid modeling** Matusik/Schulz	**Topology optimization** Matusik	**Lab 3: Automating design across multiple domains** Matusik/Schulz
11:00 am - Noon	**Material modeling for additive manufacturing** Matusik/Schulz	**Multi-material generative design** Matusik	
Noon-1:00 pm	**Lunch**	**Lunch**	**Lunch**
1:00-2:15pm	**Material modeling for physical simulation** Matusik	**Introduction to optimization and design space reduction** Matusik/Schulz	**Expert systems for computational designs** Matusik/Schulz
2:15-3:30 pm	**New directions for direct design** Matusik	**Interactive design space exploration and optimization** Matusik/Schulz	**Data-driven methods for computational design** Matusik
3:30-5:00 pm	**Lab 1: Direct design for additive manufacturing** Matusik/Spielberg	**Lab 2: Topology optimization** Matusik/Spielberg	**Automated discovery of optimal designs** Matusik
5:00 pm	**Adjourn**	**Adjourn**	**Adjourn**