The Design School
Spring 2018 Electives for Graduate Students

All courses are 3 credit hours and are open to all students majoring in The Design School unless noted otherwise. **Day and time are subject to change.**

According to Graduate College policy, please note that all Graduate students are only allowed to include 6 credits of 400 level courses on their interactive plan of study.

**APH 494**
The Image of Rome
Class # 25740

Instructor: Elena Rocchi
iCourse

A city is a world that we inherit from the many generations that preceded us. We must act with an enormous respect to what is coming from its history. The Image of Rome is a comparative cultural study and examination of the city of Rome done by consistent analysis of its specific past events and people who built it, and of its change over time. It is devoted primarily to explain history of architecture of Rome from VIII century BC to 1960, from the point of view of the image of the city, built and visual/oral one, produced by 3 political powers during 27 centuries, while concerned with questions of human existence and meaning, aesthetic experience, art and design. Explaining in a cross-disciplinary way, Roman environmental and historical development as a sequence of events influenced by a variety of factors through a systematic examination of political institutions as they change over time and their relationship among ideas, and artifacts built from the Ancient Rome of Emperors (VIII Bc -- V Ad), to the Old Rome of Popes (V Ad -- XIX Ad) and to the New Rome of the King (XIX--XX). Students will appreciate history as an improvement for society and environment, acquire valuable experience in a cross-disciplinary process that concerns the interpretation and analysis of a various range of formats: written, aural or visual, developing critical design thinking.

**APH 494**
Looking, Thinking, Sketching
Class # 31469

Instructor: Victor Irizarry
6:00 pm – 8:45 pm, Th

**APH 598**
Peter Zumthor
Class # 27746

Instructor: Max Underwood
10:30 am – 11:45 am, Tu + Th

**ATE 598**
Green Building Practices
Class # 19405

Instructor: Harvey Bryan
3:00 pm – 4:15 pm, Tu + Th

Notes: Non-MSBE, MArch, MIA and MUD students must contact designgrad@asu.edu for permission to enroll in this course.
This course will critically review several of the Green Building Practices that are currently in operation in the U.S. To date these practices have been primarily voluntary, however recently several regulatory standards have been developed. On the voluntary side we have; U.S. Green Building Council’s (USGBC) Leadership in Energy and Environmental Design (LEED) System, The Green Building Initiative’s (GBI) Green Globes, International Living Future Institute’s Living Building Challenge and the EPA’s Energy Star. On the regulatory side we have the ASHRAE 189.1 Standard, International Green Construction Code (IgCC), California’s CalGreen Code as well as several Federal Executive Orders. Students will come away from this course with a very good understanding of these practices. How they could apply them to in practice and prepare them for certifications such as a LEED GA (Green Associate).

ATE 598
Renewable Energy Systems
Class # 19374

Instructor: Harvey Bryan
12:00 pm – 1:15 pm, Tu + Th

This course is meant to provide an introduction to various renewable energy sources. Special emphasis will be placed on solar energy, Arizona’s most plentiful energy resource. Prerequisite: admission to upper division or consent of instructor.

Renewable energy is the only long term solution to a sustainable future. This course is meant to provide an introduction to various renewable energy sources – solar, wind, water, geothermal (underground heat), ocean (tides, waves, thermal gradient) and biomass (growing of plants). This course will focus on solar energy conversion and cover both passive and active solar thermal systems as well as solar electric generation by thermal and photovoltaic means. Topics to be included are: renewable energy’s role in mitigating global warming; methods to assess incident solar energy availability; different types of solar collectors and various types of system (building related, process heat and electricity); energy storage; the integration of solar into existing infrastructure; the economics of renewable energy; and the future of national renewable energy policy. The aim of this course is to equip students with a good understanding of the basic scientific concepts and analytical skills to perform system evaluation and a familiarity of pertinent technologies; factors necessary for students to assess the utility and viability of various solar energy technologies in the context of the growing opportunities available in the emerging global renewable energy market.

DSC 501
Qualitative Research in Design
Class # 17295

Instructor: Tamara Christensen
6:00 pm – 8:45 pm, Tu

Notes: Non-MSD or MID students must contact designgrad@asu.edu for permission to enroll in this course.

Theory and application of qualitative research. Emphasizes using ethnography to identify and specify innovative concepts and strategies.

DSC 598
Mindfulness Fundamentals
Class # 31620

Instructor: Barbara Crisp
4:30 pm – 6:15 pm, Tu
1 credit
Mindfulness is about paying attention (awareness), with an attitude of curiosity and acceptance (no judgment) to the present moment (whatever you are doing). You can bring mindfulness to anything you do - walking the dog, brushing your teeth, talking to a friend, sitting in traffic, or having a coffee, and it is something you can experience anytime. Mindfulness is also a set of skills and techniques for systematically developing present moment awareness. The practice of mindful awareness has a variety of well-documented impacts, including reduction in stress, increase in emotion regulation, and improvement in sustained attention, focus, and executive function. The central objective of the course is for participants to gain the tools necessary to manage stress, to feel more balanced in their lives, and to continue a meaningful mindfulness practice after the course completes. In this 8 week course you will learn: The basics of mindfulness meditation. Skills to manage stress, increase energy, and create calm. Practices that cultivate positive states of mind like gratitude, kindness, and joy. The role mindfulness plays in all aspects of our lives, including communication and interaction.

DSC 598
Practice Management
Class # 17833

Instructor: Underhill
12:00 pm – 1:15 pm, Tu + Th

Notes: Non-MArch or MUD students must contact designgrad@asu.edu for permission to enroll in this course.

This course will explore the issues associated with the business management of professional design practices. The course is intended to provide the students with basic knowledge and perspective of managing a professional design practice and deal with conflicts that apply to the design process and operating successful design business.

DSC 598
Basic Model Making Techniques (Session A)
Class # 26239

Instructor: Patrick Plehn
9:40 am – 11:30 am, Tu
1 credit

Basic setup and modeling techniques to show students how to create repeatable, safe operations. Instruction on basic principles of woodworking, material selection, re-saw, dimensioning, tool selection. Emphasis on cut lists, planning parts, basic tool knowledge, measuring and marking and joinery. Contact instructor at (patrick.plehn@asu.edu) for permission to register for the class along with your ASU Affiliate ID, program and year within the program.

DSC 598
Fundamentals of CNC in Modeling (Session A)
Class # 26240

Instructor: Patrick Plehn
9:40 am – 11:30 am, W
1 credit

All things CNC. Emphasis will be on how to assemble different file types for best practice on CNC equipment. DXF/DWG (2-D files), STL, SLDPR, IGES, STEP 93-D files). How CNC works, basic knowledge on code creation, tooling, different types of machines, fixtures, materials, part setup, and planning, joinery techniques, and topography. Contact instructor at (patrick.plehn@asu.edu) for permission to register for the class along with your ASU Affiliate ID, program and year within the program.
DSC 598  
**Cold Casting and Mold Making for Modeling (Session A)**  
Class # 26241  

Instructor: Patrick Plehn  
9:40 am – 11:30 am, Th  
1 credit  

Basic knowledge on mold making and cold casting. Emphasis on material selection, planning, form-making, and project planning. Students will be required to execute one part from techniques and methods discussed. Contact instructor at (patrick.plehn@asu.edu) for permission to register for the class along with your ASU Affiliate ID, program and year within the program.

DSC 598  
**Activating Urban Spaces**  
Class # 30704  

Instructor: Johanna Taylor  
4:50 pm – 7:35 pm, Tu  

This course will look at how public urban spaces are structured with a particular eye to the involvement of art and design, whether formally or informally, in shaping the built and social environment of the city. Throughout the course particular focus will consider the possibilities for engaging social justice outcomes through spatial intervention drawing on examples from around the world. Interventions in urban spaces enact local change by making art the language of civic engagement; in this way a mural or performance or reconceptualized public space can become a method to address issues of locally prioritized inequality. The course will approach this topic through interdisciplinary perspectives including: public policy and city officials, urbanism, community organizing, and socially engaged art and design. We will use Phoenix as our local research site but also look to global examples to analyze sites of study including parks, public art, and street festivals by looking at arts organizations, city projects, community groups, and individual artists. Students will develop projects that respond to a particular site of their choosing.

GRA 401  
**Creative Environment**  
Class # 17534  

Instructor: William Heywood  
9:00 am – 10:15 am, M + W  

Notes: All graduate students must contact designgrad@asu.edu for permission to enroll in this class.  

Explores and investigates theories of the psychology of space, psychology of people in space, and the psychology of objects as it pertains to creativity and the creative environment.

GRA 562  
**Methods in Visual Communication II Experimental Typography**?  
Class # 12806  

Instructor: Danielle Foushee  
10:30 am – 1:15 pm, M  

POETICS — PLAY — PERCEPTION. This trifecta of concepts weaves new stories into typographic experiments. We study synesthesia, storytelling, and surprise as gateways into building material,
multisensory experiences. Process is primary and students are rewarded for risk-taking and curiosity. The course culminates with a public exhibition featuring students’ final projects. (Motivated Seniors are welcome with approval.)

**IND 598**  
**Medical Product Design**  
Class # 18932

Instructor: Joseph Velasquez  
6:00 pm – 8:45 pm, M

Understanding and managing the complex challenges faced when bringing commercial medical devices to market.

**IND 598**  
**Digital Visualization for Design**  
Class # 25489

Instructor: Gregory McDonald, Dosun Shin  
9:00 am – 10:15 am, M + W

Notes: Contact instructor Dosun Shin (dosun.shin@asu.edu) for permission to register for the class.

**IND 598**  
**Advanced Parametric CAD Modeling**  
Class # 29799

Instructor: Daniel Allen  
6:00 pm – 8:45 pm, Th

This hybrid course provides advanced techniques of 3D computer modeling and virtual rendering. Before taking this class, students will be expected to understand the basics of SolidWorks and KeyShot software. This course is composed of online video lecture with tutorials and lab that will require considerable hands-on practice in and outside of class. Students are required to watch the video lecture that will be provided by the instructor, and they will need to practice and complete the given assignments with the video materials. Through the assigned lab hours in the computer lab, students will learn other tool utilizations and how to build 3D models in SolidWorks with the instructor, and they could ask questions about the video tutorials that demonstrate the process of creating work. By watching the video materials, students will be able to follow the building process and understand tool utilizations.

Notes: Contact instructor Dosun Shin (dosun.shin@asu.edu) for permission to register for the class.

**INT 598**  
**Technical Aspects of the Interior Architecture**  
Class # 17294

Instructor: Santiago  
3:00 pm – 5:45 pm, Th

The focus of this course is on the technical requirements involved in the selection and specification of interior building materials and systems to support human health, safety and the expected performance of the finished project. Research, group discussions, presentations and field trips promote context and sound decision making.
LAP 598  
**Hybrid Stories of Place**  
Class # 31351

Instructor: Rebecca Fish Ewan  
9:00 am – 11:45 am, W

LAP 598  
**Creative Placemaking**  
Class # 26672

Instructor: Kenneth Brooks  
9:00 am – 11:45 am, Th

LAP 598  
**Advanced GIS Applications in Environmental Design**  
Class # 26154

Instructor: Kenneth Brooks  
9:00 am – 11:45 am, Tu

LPH 598  
**Hand Drawing & Illustration**  
Class # 15928

Instructor: Duane Blossom  
9:00 am – 11:45 am, M

This course introduces rapid visualization techniques of hand drawing tools for visually seeing, understanding and capturing existing scenarios; and as the foundation to imagining the future and the development of alternative design ideas.

MUD 598  
**Urban Issues**  
Class # 13479

Instructor: Darren Petrucci  
9:00 am – 11:45 am, W

The complexity of the contemporary city requires alternate methodologies for reading, defining, and intervening. Rather than following a predetermined ideology that inevitably results in a form of utopian one-size-fits-all approach, this seminar will employ a field of contemporary theories, case studies, and direct investigations in an attempt to better understand the forces and opportunities that lie in the evolution of the contemporary metropolitan condition.