Spring: 6 units
analog and digital media, so as to learn how to be versatile in leveraging
digital media, designers now have an arsenal of tools that can subvert and
completion of the course. Through these deliverables, the course will inquire
each: Technical Drawing and 2D Graphics. Students are required to submit
design processes. The course is divided into two topics with one assignment
media regarding two-dimensional representation techniques for spatial
endeavor, or as a mode of cultural discourse.
architecture has been, and can continue to be framed as a fine art, but also
for expression and meaning can augment the technical and constructed
Terms like composition, rhythm, studio, and form. We'll define architecture
of architecture that often relate closely to the arts. We'll look at shared
disparate characters, and inter-twined histories of architecture and the
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62-195 Writing Experimental Theater
Fall: 9 units
Writing Experimental Theatre is a series of workshops in which participants explore theatre making with one another. We will not act out widely popular works - there shall be no Romeo nor Juliet, or Streetcar for that matter. Instead, we will learn to observe how the bodies enable performative characters, based on which we will try to create performances. We will read a few excerpts from Erika Fischer-Lichte's The Transformative Power of Performance: A new Aesthetics, Jerzy Grotowski's Toward a poor theatre, and Kirin Narayan's Alive in the writing, amongst other materials, to discuss various approaches in scripting such performance. Every participant would have created/written at least one experimental theatre work by the end of the course. A class where engagement is a must, reading useful, and previous knowledge of theatre optional.

62-196 Intro to Screenwriting
Spring: 9 units
This course is designed to give writers a variety of tools they can use in writing or rewriting a current project full-length screenplay. There will be films assigned to watch and analyze. Either a first draft or a rewritten version of a full length screenplay is to be completed by the end of the semester. Prerequisite: None.

62-207 IdeaTe: Variational Geometry I
Fall: 6 units
This course will introduce concepts and strategies for the modeling and development of complex computational geometry for 3D printing purposes and introduce algorithmic thinking using the Rhinoceros McNeel platform and Grasshopper plugin. This course is intended for students with no or little 3-D modeling skills to advance their abilities in modeling, digital prototyping and visual communication.
Course Website: http://ideate.cmu.edu/about-ideate/departmentscollege-fine-arts/ideate-variation-geometry-I/

62-225 Generative Modeling
Fall and Spring: 9 units
This course introduces students to the fundamentals of generative modeling using computer aided design as practiced in the field of architecture. Core competencies will be developed through modeling projects and software intensive labs, while a broader critical framework for conceiving of contemporary and historical parametric practices will be encouraged through periodic lectures. Emphasis will be placed on careful consideration of digital mediums and developing a sense of craft related to digital modeling in the hope that students will become conscientious makers and consumers of digital content. Students will be encouraged to understand and apply algorithmic thinking to the design constraints encountered in architecture. The course will explore the relationship of parametric workflows to design thinking and will situate contemporary trends in a broader framework of computational design. The course will also foreground complex form-making as a response to bio-mimicry, systems thinking, and mass-customization. Rather than positioning parametric modeling as a disruption of historical architectural design process, the course will encourage students to consider how new tools might augment the discipline's historical commitments to orthographic projection, perspectival drawing, and physical modeling.

62-241 Black and White Photography II
Fall and Spring: 10 units
This course allows you to gain experience with medium and large format film cameras while emphasizing aesthetic development and personal artistic growth. As an advanced student, you have access to an unusual assortment of panoramic and pinhole cameras that will change the way you make photographs, revealing unknown perspectives. Additional topics include digital process though negative scanning and inkjet printing, advanced monotone printing methods, and a focus on exhibition and folio presentation. Cameras will be supplied for this course. Prerequisites: 60-141 or 62-141

62-245 Portrait Photography
Intermittent: 10 units
Portraiture maintains a unique standing in photography for its direct and collaborative relationship between an individual and a photographer. This course will examine this relationship and the larger contexts which provide the conceptual framework for deriving meaning and understanding from an image of another person. We will study the theoretical and practical aspects of portrait photography in both studio and environmental settings, providing students with an understanding of the genre by developing both technical and conceptual skill sets. Students will utilize analog and digital equipment, learn studio lighting techniques, develop approaches to working with natural light, and explore methods of printing and presentation. Students will gain knowledge in the development and portraiture through the work of notable figures in the medium's history and contemporary field, including August Sander, Dorothea Lange, Walker Evans, Dawoud Bey, Milton Rogovin, Rineke Dijkstra, Zoe Strauss, Susan Lipper, Justine Kurland, Stefan Ruiz, Larry Sultan, Carrie Mae Weems, Roy DeCarava and Alec Soth. Class discussions, readings and critiques will provide an outline for completing both single and serial image assignments.
Course Website: http://cfaphoto.cfa.cmu.edu/classes17.html

62-247 Introduction to Hot Glass I
Fall and Spring: 3 units
In this introductory class, learn to gather clear molten glass from the furnace and then shape it into various forms, from paperweights to simple blown shapes, such as cups and bowls. Instruction focuses on a team approach to glasstaining, with an emphasis on safety, proper tool use, basic techniques, and materials. You'll never drink from a glass again without appreciating the energy and detail that went into making it! Little to no hot shop experience is required. You may also wish to take this class a second time in order to continue to develop and refine basic skills before moving on to Hot Glass II. Each time you take it, your skill level, confidence, and passion for glass will grow. Class tuition includes 2 hours of open studio time to be used during the 8-week course period. This will help you become familiar with the studio itself and learn the process of studio rental beyond class hours. Registration for Pittsburgh Glass Center classes can only be done on or after your scheduled registration day. Spaces are limited. Registration is done on a first come, first served basis. Please email Dan Barrett (dbarrett@andrew.cmu.edu) for more information and to register. Course fee is $300 Not eligible for PCHE Cross Registration. Course taught at the Pittsburgh Glass Center.
Course Website: https://www.pittsburghglasscenter.org/

62-275 Fundamentals of Computational Design
Fall and Spring: 9 units
As analog mechanisms; as metaphors; as bodily extensions or prosthetics; as material systems; as building envelopes; as partners or slaves of humans. This course takes students on a journey of discovery revealing computation as the connective tissue encompassing multiple facets of architecture and design culture and experience. Addressing conceptual and practical aspects of the relationship between computation and design, the course explores the fundamentals of constructive and rule-based systems for designing and making, environmental simulation and responsiveness, and basic approaches to creative data processing, visualization, and materialization. The course offers a holistic view of computation, exploring the different roles computing plays in the design of our artificial environments. The course is driven by themes, each combining state of the art examples, historical insight, and hands-on computational exploration. Prerequisite: 48-100

62-314 The Art of Personal Finance
Fall and Spring: 6 units
Money is an inevitable part of our everyday lives. Managing the money we earn and living within our means is essential to ensure that we have the freedom to do what we want to do with our lives. However, even if we successfully eliminate debt and save for the future, true financial freedom will not exist unless we have a plan to guide us on our way. In this course, students will create a simple one-page financial plan that they can use to guide them through their next several years as they cultivate the skills that will ensure their artistic success. Additionally, they will develop the tools needed to support the execution of the plan and create a sourcebook of information they can refer to in the future as their lives (and their financial plans) change. For DRAMA students only.
62-347 Hot Glass II
Fall and Spring: 3 units
Now that you're hooked on hot glass, how do you keep the momentum going? By enrolling in Hot 2, you will become more proficient working with glass. Refine and vary the cup and bowl shape in the first few weeks before moving on to more complex shapes. Explore basic methods of color application and learn how to troubleshoot common problems. Class tuition includes 1 hour of open-studio time per student (2 hours with a partner) to be used during the 8-week course period. This will help you become familiar with the studio itself and learn the process of studio rental beyond class hours. You may also wish to take this class a second time in order to continue to develop and refine basic skills before moving on to Hot 3. Hot 1, 24 hours of hot shop experience, or instructor permission is required. Registration can only be done on your scheduled registration day and is done on a first come, first serve basis. Please email Dan Barrett (dbarrett@andrew.cmu.edu) for more information and to register. Spaces are limited. Course fee is $300. Not eligible for PCHE cross registration. Course taught at the Pittsburgh Glass Center.
Prerequisite: 62-247
Course Website: https://www.pittsburghglasscenter.org

62-360 Photographers and Photography Since World War II
Spring: 9 units
Invented in 1839, photography was a form of visual expression that immediately attracted a large public following. Starting around 1900, photography was practiced with two dominant strands. One of these firmly believed in the power of photographs to provide a window on the world, and was led by Lewis Hine, whose documentary photographs for the National Child Labor Committee helped to ameliorate living and working conditions for thousands of immigrant children. The other strand adhered to the philosophy of Alfred Stieglitz who adamantly affirmed that photographs were first and foremost reflections of the soul and were art objects, equal to painting, drawing and sculpture. These two schools of thought guided photographers throughout the twentieth century. This course explores in depth the tremendous range of photographic expression since World War II and examines in particular the contributions of significant image-makers such as Helen Levitt, W. Eugene Smith, Robert Frank, Diane Arbus, Wynn Bullock, Charles "Teenie" Harris, Cindy Sherman, Carrie Mae Weems, Nan Goldin, James Nachtwey, and many others. Classes include a slide lecture, student presentation, and video segments that introduce a focused selection of images by major photographers in an attempt to understand their intentions, styles, and influences.

62-362 IdeAtE: Electronic Logics & Creative Practice
Intermittent: 12 units
Electronic Logics and Creative Practice investigates the fundamentals of electronic computation as metaphors for art and interaction. Students explore technology through a creative lens, as conceptual and physical material to be manipulated and synthesized, by examining the basis of digital computation alongside contemporary and new media art practices. There are three main units: Gates (the logical building blocks of computers), Flow (ways in which signals "flow" through physical and electronic systems), and Arrows (the stacked layers of instruction used in modern computer science). These major themes are addressed through lecture, readings, and the creation of individual and collaborative works. Throughout the semester students complete a series of quick thematic exercises and three larger-scale projects; these works are reviewed through meetings and critique, and documentation. Our toolbox includes 7400-series logic chips, the Arduino electronics platform, software, wood, laser cut acrylic, found objects, props, projections, and glue. We address technical engineering subjects (e.g. Karnaugh maps) alongside art and performance theory. Students deepen conceptual skills while increasing the scale and ambition of creative output. The course culminates in an end-of-semester showcase where students publicly exhibit their work.

62-371 Photography, The First 100 Years, 1839-1939
Fall: 9 units
Photography was announced to the world almost simultaneously in 1839, first in France and then a few months later in England. Accurate "likenesses" of people were available to the masses, and soon reproducible images of faraway places were intriguing to all. This course will explore the earliest image-makers Daguerre and Fox Talbot, the Civil War photographs organized by Mathew Brady; the introduction in 1888 of the Kodak by George Eastman, the critically important social documentary photography of Jacob Riis and his successor, Lewis Hine, the Photo-Secession of Alfred Stieglitz, the Harlem Renaissance of James VanDerZee, the precisionist f6 photographers Ansel Adams, Imogen Cunningham, and Edward Weston, and other important photographers who came before World War II. The class will be introduced to 19th century processes, such as the daguerreotype, tintype, and ambrotype, as well as albumen prints, cyanotypes, and more.

62-450 Introduction to Flameworking
Fall and Spring: 3 units
Learn flame shop essentials and introduces a variety of creative techniques while working with both Moretti (soft) and Borosilicate (hard) glass. Begin with a solid rod of glass and melt it into a molten ball that can be manipulated into little treasures, such as beads, pendants, marbles, chains, and sculptures. Over the course of 8 weeks, learn color application, hand control, and annealing. The instructor will also provide one-on-one troubleshooting. Class tuition includes 2 hours of open-studio time to be used during the 8-week course period. This will help you become familiar with the studio itself and learn the process of studio rental beyond class hours. Registration can only be done on your scheduled registration day and is done on a first come, first serve basis. Please email Dan Barrett (dbarrett@andrew.cmu.edu) for more information and to register. Spaces are limited. Course fee is $190. Not eligible for PCHE cross registration. Course taught at the Pittsburgh Glass Center.
Course Website: https://www.pittsburghglasscenter.org

62-459 Intro to Stained Glass
Fall and Spring: 3 units
Explore the Tiffany method of stained glass while creating your very own panel from a variety of provided patterns. Learn the basic skills of cutting and shaping sheet glass, foiling the pieces, and soldering them together to create a mosaic-like whole. Once you master the pattern supplied and understand the intricacies of the process, you can begin to create luminous panels of your own design. Registration can only be done on or after your scheduled registration day. Please email Dan Barrett (dbarrett@andrew.cmu.edu) for more information and to register. Registration is first come, first served. Course fee is $230. Class is held at Pittsburgh Glass Center.
Course Website: https://www.pittsburghglasscenter.org

62-478 IdeAtE: digitTOOL
Fall and Spring: 6 units
This course serves as an introduction to the fundamental concepts, processes, and procedures to utilize digital and traditional equipment within the IdeAtE facilities in Hunt Library. After completion, participating students should leave with a thorough understanding of the CNC workflow, 3D modeling, 3D printing, laser cutting, engraving, and basic finishing techniques. Students will learn how to operate in a safe, responsible, and efficient manner. This comprehension and experience proves useful for all creative disciplines, and participants are certified for future fabrication equipment access.
Course Website: https://courses.ideate.cmu.edu/62-478 (https://courses.ideate.cmu.edu/62-478/)

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