College of Fine Arts Interdisciplinary Courses

Note on Course Numbers
Each Carnegie Mellon course number begins with a two-digit prefix which designates the department offering the course (76-xxx courses are offered by the Department of English, etc.). Although each department maintains its own course numbering practices, typically the first digit after the prefix indicates the class level: xx-1xx courses are freshmen-level, xx-2xx courses are sophomore level, etc. xx-6xx courses may be either undergraduate senior-level or graduate-level, depending on the department. xx-7xx courses and higher are graduate-level. Please consult the Schedule of Classes (https://enr-apps.as.cmu.edu/open/SOC/SOCserviet) each semester for course offerings and for any necessary pre-requisites or co-requisites.

62-010 Pittsburgh Filmmakers
Fall and Spring: 9 units
Any of Pittsburgh Filmmakers full semester course offerings are available for registration through the CFA Dean's Office. Visit www.pfm.edu for listings. Registration can only be done on or after your scheduled registration day. Spaces are limited. Stop by CFA 100 for details and to register.

62-102 Modern Dance Workshop
Fall and Spring: 6 units
A modern dance class based on the philosophy of the Martha Graham technique. The class is designed to encourage exploration and discovery of the roots of physical movement and control. The class also covers fundamental and technical aspects of modern dance as a classical performing arts form.

62-110 Passport to the Arts
Fall and Spring: 9 units
Exploring Audience and Ideas in the Arts: “Passport” is an introductory level course that explores the philosophy of aesthetics through direct attendance at performances and exhibitions. The course is constructed in modules that represent each school within the College of Fine Arts (architecture, art, design, drama and music) building toward cross-disciplinary practice. Each module contains a guest lecture, event attendance, and follow-up discussion which serve as points of entry into each discipline as well as points of comparison within the arts as a whole. These three components provide a direct link between theory and practice allowing students to gain a critical vocabulary to discuss their experiences. Outside of class, supplementary readings, audience participation, and written reflections provide an opportunity for students to use course material to enrich their own artistic practice. Ultimately, students are asked to consider their roles as an artist: within their discipline, within the arts, and within the broader community. This course concludes with a final symposium/exhibition of participating students.

62-141 Black and White Photography I
Fall and Spring: 10 units
This course will teach you the basic craft of photography from exposure of the negative through darkroom developing and printing to print finishing and presentation. Content includes student presentations, class discussions, shooting assignments, darkroom sessions and class critiques. We will concentrate not only on the technical aspects of photography, but also the aesthetics of seeing with a camera. The course concentrates on photography as a fine art -- what is unique to it and the concerns that are shared with other visual arts, such as composition, tonal values, etc. and aims to equip students with an understanding of the formal issues and the expressive potentials of the medium. Lab fee and 35mm manual camera required. Each student is responsible for the cost of paper and film.

62-142 Digital Photography I
Fall and Spring: 10 units
This course explores digital photography and digital printing methods. By semester's end students will have knowledge of contemporary trends in photography, construction (and deconstruction) of photographic meaning, aesthetic choices, and the use of color. Students will learn how digital cameras work, proper digital workflow, RAW file handling, color management and Adobe Photoshop. Through the combination of the practical and theoretical, students will better define their individual voices as photographers. No prerequisites.

62-150 Introduction to Media Synthesis and Analysis
Fall: 10 units
This course is an introduction to basic principles for the creation of digitally mediated content. The course is aimed towards students from science and engineering disciplines who have limited exposure to content analysis and authoring. The course contains three five-week modules. All students complete the critical analysis modules and choose 2 of the other three modules: narrative, visual synthesis, sound synthesis. To see a full description, please visit http://www.cmu.edu/ideate/courses/index.html.
Course Website: http://www.cmu.edu/ideate/courses/index.html

62-165 Mutable Landscape:
Intermittent: 10 units
With camera in hand, students will explore, document and invent a sense of place in Pittsburgh. Informed by photographic history and landscape studies, students will develop their own portfolios of digital prints. As a CFA Interdisciplinary photography course, students will be encouraged to consider their photographs in the medium of their home department, and in some cases as a starting point for projects in other materials. No prerequisites.

62-175 Descriptive Geometry
6 units
This is a manual construction course for solving problems in three-dimensional geometry through working with two-dimensional planes using basic mechanical drawing tools. The course covers basic concepts of descriptive geometry; solving problems involving lines and planes in space and their spatial relationships; rotations in three dimensions; locating points and tangents on solids and surfaces; intersection of solids; shades and shadows; perspectives; and development of surfaces.

62-241 Black and White Photography II
Fall and Spring: 10 units
A continuation of topics explored in Black and White Photography I with an emphasis on aesthetic development and image evaluation. Students will gain experience with a variety of formats; experimental methods and media will be encouraged. Folio or equivalent required by end of the semester. Course has lab fee. Prerequisites: As listed or consent of instructor. Prerequisites: 60-141 or 62-141.

62-245 Portrait Photography
Intermittent: 10 units
Portrait Photography explores the emotional and visual process of collaboration between subject and photographer that creates a photograph. We'll use cameras of all formats and levels of sophistication to create portraits in the studio and on location. We'll find and exploit available light and create artificial light to complete our vision, and we'll explore a wide range of darkroom strategies to support and add richness to our final print. Through film and video we'll meet some of the masters of this form like Arbus, Newman, Avedon and Penn, and we'll take advantage of any opportunities to visit exhibitions and photographers' studios. Lab fee required. Prerequisites: As listed or consent of instructor. Prerequisites: 60-141 or 62-141.

62-247 Introduction to Hot Glass I
Fall and Spring: 3 units
In this introductory Hot Glass I class, you will learn to gather molten glass from the furnace and then shape it into various forms from paperweights to simple blown shapes such as cups and bowls in clear glass. The instruction will focus on a team approach to glass blowing, with an emphasis on safety, proper tool use, basic techniques, and materials. You'll never drink from a glass again without appreciating what went into making it! This class is appropriate for students with limited or no hot shop experience. 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 II. Each time you take it, you will gain confidence and skill as your passion for glass grows. 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 go to CFA 100 to register. Course fee is $275. Not eligible for PCHE Cross Registration. Course taught at the Pittsburgh Glass Center.
62-250 Beginner Beadmaking  
Fall and Spring: 3 units  
If you’re fascinated by baubles, bangles and beads, this is the class for you. You will make many glass beads as you learn the basic skills of heating Moretti (soft) glass, applying it to the mandrel, and shaping it with tools. You will learn to make round beads and alter the shape and add decorative colors with techniques like encasing, dots, frits, and trails. Registration can only be done on your scheduled registration day and is done on a first come, first serve basis. Please go to CFA 100 to sign up. Spaces are limited. Course fee is $162.50. Not eligible for PCHE Cross Registration. Course taught at the Pittsburgh Glass Center.

62-251 Pendant Passion  
Fall and Spring: 3 units  
Amaze your family and friends with your new collection of borosilicate (hard) glass pendants. In this 8-week session, students will learn a new design technique every week, from compression, pin wheels, donut holes, mandrel beads and much more. Focus on flame development, gathering glass, color application of dots, stripes and color layers to obtain the desired look of your one of a kind pendant. Great for beginners and those with some filmmaking experience with an interest in pendants. Registration can only be done on your scheduled registration day and is done on a first come, first serve basis. Please go to CFA 100 to sign up. Spaces are limited. Course fee is $162.50. Not eligible for PCHE Cross Registration. Course taught at the Pittsburgh Glass Center.

62-252 Marble Madness  
Intermittent: 3 units  
Learn how to fashion a perfect sphere in soft Italian glass. You will begin with the basics of gathering and shaping the ball. Then you will explore a number of techniques to decorate and make various types of marbles from an onion skin, cat's eye, vortex and implosion to name a few. No experience required but more advanced students will benefit. Registration can only be done on your scheduled registration day and is done on a first come, first serve basis. Please go to CFA 100 to sign up. Spaces are limited. Course fee is $162.50. Not eligible for PCHE Cross Registration. Course taught at the Pittsburgh Glass Center.

62-255 Imagery in Glass  
Intermittent: 3 units  
This 8-week class will be a survey working with several techniques in kilnformed glass and imagery. In this fast paced class students will learn techniques such as working deep, painting with light and the photo resist process as well as kiln theory while working with powders, high fire enamels, etching and sandblasting. Using layers of imagery, students will learn depth and explore density with these varied techniques. Fusing experience is not required. Registration can only be done on your scheduled registration day and is done on a first come, first serve basis. Please go to CFA 100 to sign up. Spaces are limited. Course fee is $205. Not eligible for PCHE Cross Registration. Course taught at the Pittsburgh Glass Center.

62-256 Introduction to Coldworking  
Fall and Spring: 3 units  
Learn about all of the equipment in the cold shop including belt sanders, flat grinders, dremels, lathes, the sandblaster, and the diamond saw. These tools can be used to create intricate patterns and textures on the surface of a variety of glass objects. You will complete several personalized projects. Students with no prior glass experience will be provided items to cold work, but students with existing work they want to refine from other studios are welcome as well. Registration can only be done on your scheduled registration day and is done on a first come, first serve basis. Please register for this course in person at CFA Room 100. Spaces are limited. Course fee is $122.50. Not eligible for PCHE Cross Registration. Course taught at the Pittsburgh Glass Center.

62-265 Alternative Photo Processes  
Spring: 10 units  
This experimental photo-printmaking hybrid introduces students to 19th century, non-silver and alternative photographic printing techniques. One-of-a-kind, hand-applied processes include: Van Dyke, cyanotype, salted paper, POP, albumen, platinum palladium and bromoil. Students will produce large format imagery by use of traditional large format shooting, analogue negative enlarging and/or digital negative methods. In addition to the printing techniques, the class considers how to unite process with concept.  
Prerequisites: 51-265 or 60-141 or 62-141.
62-358 Art and Biology
Intermittent: 9 units
A studio-laboratory art-making course designed to explore interactions between art and biology. It is an opportunity for students interested in interdisciplinary concepts to work both in a studio art environment and a biological laboratory. Students have the opportunity to experiment creatively with scientific media such as electron and video-probe microscopy.

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, as pursued by Lewis Hine, while the other strand adhered to the philosophy of Alfred Stieglitz, founder of the elite Photo-Secession movement in the United States, who adamantly affirmed that photographs were first and foremost reflections of the soul. As such they 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, Garry Winogrand, Harry Callahan, Charles "Teenie" Harris, Cindy Sherman, Annie Leibovitz, Duane Michals, Carrie Mae Weems, Nan Goldin, James Nachtwey, and many others. Classes include lectures, student presentations, and video excerpts. A local field trip to visit a photography exhibition may also be arranged.

62-361 Trajectories in Photography: From its Prehistory to 1945
Fall: 9 units
This course explores the development and practice of photography in relation to the massive social and political changes of the 19th and early 20th centuries. Topics will address modernity’s embrace of the visual: photography’s role in the rationalization of geographies and peoples; the promises of photography as a new technology; the position of photography in relation to developments in art; the emergence of photojournalism and documentary photography and the use of photography for advocacy; photography in relation to mass media; the photography of spirits and costumed animals. The course draws from various disciplinary perspectives including art history, anthropology, history, and science and technology studies. The course will include instructor lecture and student presentation. Class discussion will be an integral aspect of the class. No prerequisites.

62-371 Photography, The First 100 Years
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 (How the Other Half Lives: Studies Among the Tenements of New York) and his successor, Lewis Hine, the Photo-Secession of Alfred Stieglitz, the Harlem Renaissance of James VanDerZee, the precisionist f64 (Ansel Adams, Edward Weston, and a host of 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. Two field trips will take place during class, one to The Frick Art Historical Center and one to The Carnegie Museum of Art. No prerequisites.

62-375 Large Format Photography: The Antiquarian Avant-Garde
Intermittent: 10 units
This course takes part in the anti-digital movement by exploring the roots of photography. Students will shoot with an array of large format cameras and use 19th and 21st century processes to create one-of-a-kind photographic imagery. Course topics include view camera techniques, experimental printing processes, pinhole cameras, photography, and contemporary tintypes. Prerequisites: As listed or equivalent or consent of instructor. Prerequisites: 60-141 or 62-141.

62-420 Aesthetics and Critical Judgement
6 units
In this course, we will examine the question of how one judges a work of art. The course will provide an overview of the history of aesthetics in the Western tradition, and in the process we will examine the central questions of: defining beauty, evaluating the artistic object, determining what external factors are relevant to aesthetic judgments (time, culture, biography), and analyzing the inter-relationships between artist, audience, and artistic object beyond the knowledge gained, course objectives will include the cultivation of analytical skills in evaluating artistic expression and aesthetic theory, and the development of expository writing and speech skills in aesthetic analysis.

62-446 Hot Glass III
Fall and Spring: 3 units
In this class, you will be encouraged to focus on techniques that interest you as a developing glass artist while still receiving direction and support to refine basic skills and methodology. Learn about a broad range of more complicated techniques including use of solid color, mold-blowing, and compound shapes as you create unique vessels. This class may be repeated as content will vary by session. 48 hours of hot glass class/workshop experience required, or by permission of the instructor. Basic materials provided. Registration takes place in CFA 100 on or after your scheduled registration day. Space is limited. Registration is first come, first served. Course fee is $275. Classes are taught at Pittsburgh Glass Center Prerequisite: 62-347.

62-447 Hot Glass III Open Projects
Fall and Spring: 3 units
There will be no weekly demonstration by the instructor. Students in this class will be encouraged to pursue their own ideas and maximize the available work time each week. Students should come to class with projects in mind and questions for the instructor. 48 hours hot glass class/workshop experience required, or by permission of the instructor. Basic materials provided. Registration can only be done on your scheduled registration day and is done on a first come, first serve basis. Please go to CFA 100 to sign up. Spaces are limited. Course fee is $287.50. Not eligible for PCHE Cross Registration. Course taught at the Pittsburgh Glass Center. Prerequisite: 62-347.

62-450 Flame I
Fall and Spring: 3 units
A great combination class to explore the variety in the flame shop. Students will work with both Moretti (soft) and Borosilicate (hard) glass, while learning the fundamentals of flame working. Begin with a solid rod of glass, melt it into a molten ball to create and manipulate little treasures in the flame such as beads, pendants, marbles, and sculptures. Over the course of 8 weeks color application, hand control and annealing will be covered, as well as one on one troubleshooting. Registration can only be done on your scheduled registration day and is done on a first come, first serve basis. Please go to CFA 100 to sign up. Spaces are limited. Course fee is $162.50. Not eligible for PCHE cross registration. Course taught at the Pittsburgh Glass Center.

62-452 Flame II- Blowing Boro
Intermittent: 3 units
In this class, you will be encouraged to focus on techniques that interest you as a developing glass artist while still receiving direction and support to refine basic skills and methodology. Learn about a broad range of more complicated techniques including use of solid color, mold-blowing, and compound shapes as you create unique vessels. This class may be repeated as content will vary by session. 48 hours of hot glass class/workshop experience required, or by permission of the instructor. Basic materials provided. Registration can only be done on your scheduled registration day and is done on a first come, first serve basis. Please go to CFA 100 to sign up. There is a $162.50 Course Fee. Spaces are limited. Not eligible for PCHE cross registration. Course taught at the Pittsburgh Glass Center.

62-453 Introduction Fusing and Slumping
Fall and Spring: 3 units
Fine-tune your skills from Flame I while taking it to another level. In Flame II things will begin to flow more naturally, hand and glass control, multi-tasking while remaining in one spot. Borosilicate tubing will be introduced and a number of exercises will be taught to become more skilled working with tubing. Students will work independently with one-on-one demonstrations, find your focus and push your limited. Flameworking I or 24 hours experience required, or by permission of the instructor. Basic materials provided. Registration can only be done on your scheduled registration day and is done on a first come, first serve basis. Please go to CFA 100 to sign up. There is a $162.50 Course Fee. Spaces are limited. Not eligible for PCHE cross registration. Course taught at the Pittsburgh Glass Center.

62-455 Introduction Fusing and Slumping
Fall and Spring: 3 units
Fusing has many dimensions even though you are working with flat glass. Harness the heat of the kiln and use a wide spectrum of glass materials to create an array of functional works of art. By exploring multiple techniques including the difference between full and tack fuses, kiln carving, mosaics, faux murrini and strip cutting, you will be comfortably fusing in no time. Kiln theory, glass compatibility, bubble control, kiln programs, cold working and more will be covered. Registration can only be done on your scheduled registration day and is done on a first come, first serve basis. Please go to CFA 100 to sign up. There is a $205.00 Course Fee. spaces are limited. Not eligible for PCHE cross registration. Course taught at the Pittsburgh Glass Center.
62-455 Kiln Casting
Fall and Spring: 3 units
Students will be introduced to the art of kiln casting through the creation of small 3D objects including sculptures and non-functional vessels using a variety of mold making and kiln casting techniques. This class will cover constructing models, making refractory molds, preparing the glass, firing the molds in kilns and resolving castings into finished works of art. Registration can only be done on your scheduled registration day and is done on a first come, first serve basis. Please go to CFA 100 to sign up. Spaces are limited. Course Fee is $205. Not eligible for PCHE cross registration. Course taught at the Pittsburgh Glass Center.

62-456 Fused and Slumped Glass-Phase II
Fall and Spring: 3 units
We will focus on perfecting our glass cutting skills and knowledge while revisiting ideas and techniques from introduction to fusing and slumping. This class will focus on your ideas and desired finished projects while raising the caliber of work you create. New techniques will be discussed as student designs require. 24 hours of fusing class/workshop experience required, or permission of the instructor required. Basic materials provided. Registration can only be done on your scheduled registration day and is done on a first come, first serve basis. Please register in person at CFA 100. Spaces are limited. Course Fee is $205. Not eligible for PCHE cross registration. Course taught at Pittsburgh Glass Center.
Prerequisite: 62-453.

62-459 Stained Glass
Fall and Spring: 3 units
The first four weeks provide an introduction to stained glass. The basic skills of cutting glass, foiling, and soldering will be the focus. An understanding of these skills is critical to success. Various exercises and projects will reinforce our understanding and start us on the road to proficiency. In the second four weeks, you will build a stained glass panel. Select a pattern and choose the glass for your pattern while continuing to build basic skills. Registration can only be done on or after your scheduled registration day. Please stop by CFA 100 to register. Registration is first come, first served. Course fee is $205. Class is held at Pittsburgh Glass Center.

62-483 Growing Theatre Community Outreach
Fall and Spring: 6 units
Growing Theater engages students and mentors in the development of a collaborative theater experience. Through Mentor Role Modeling, Growing Theater uses drama as a medium to expose at risk population of fifth graders from a local school to a supportive learning environment that is shared, creative, confident, patient and respectful. Growing Theater Mentors will broaden students' personal and professional outlooks by guiding through them this theatrical process. The resulting play is performed in May at CMU. This course is open to all students, not just Drama majors.

62-661 Interaction and Expression using Pausch Bridge Lighting
3 units
Working in cross-disciplinary teams, students will explore light as art, interactive design and programming using a Pharos lighting control system. Students will explore the use of light and interaction using the actual controls within the Randy Pausch Memorial Bridge. Student teams will develop final projects that will be exhibited on the actual Randy Pausch Memorial Bridge.

62-714 Galleries & Auction Houses: Economics of the Art Market
6 units
This class surveys the for-profit art gallery model. Topics include exploration of the business model and common practices of for-profit art galleries and the primary and secondary markets for art sales. Art Appraisals auctions and auction galleries artist procurement art collectors and investor cultivation as well as a profile of gallerists will be discussed in detail. Students will be required to work an art auction and attend the opening receptions for local exhibitions. There will be a non-required trip to the gallery districts of New York City to visit galleries and talk to gallery directors and staff. Corporate art collections will also be discussed as well as how to set prices artist commissions artist agreements consignment sales and inventory will also be topics covered by this course.