**VISUAL STUDIES (VLST)**

**VLST 1010 Eye, Mind, and Image**
Visual Studies 101 provides an introduction to the collaboration of eye, mind, and image that produces our experience of a visual world. How and what do we see? How do we perceive color, space, and motion? What is an image? Does seeing vary across cultures and time? What can art tell us about vision? Is there a 21st-century form of seeing? This course combines different approaches to the study of vision, drawing from psychology, cognitive science, philosophy, history of art, and fine art. Professors representing two or three disciplines present lectures that demonstrate the methods of their disciplines and draw connections across fields. This course combines different approaches to the study of vision, drawing from psychology, cognitive science, philosophy, history of art, and fine art. Professors representing two or three disciplines present lectures that demonstrate the methods of their disciplines and draw connections across fields.

Fall or Spring
Also Offered As: ARTH 1500
1 Course Unit

**VLST 1020 Form and Meaning**
This course will introduce students to the theory and practice of image making, focusing on the development of observational skills and analytical thinking. We will look at conventions of artistic representation across time and cultures; discuss types of visual information and modes of formal language; explore visual narrative techniques; and seek to expand our understanding of the role images play in our culture. We will look at conventions of pictorial representation across time and cultures; discuss types of visual information and modes of formal language; explore visual narrative techniques; and seek to expand our understanding of the role images play in our culture.

Fall or Spring
1 Course Unit

**VLST 1030 3 Dimensions: Time and Space**
Through studio projects, readings and class discussion, this class will begin to address, both conceptually and physically, basic 3D structures and translations between 3D and 2D, as well as materiality, experiential phenomena, light and time-based processes. The interconnection between mediums in our cultural climate employs a wide range of tools, processes, and ideas. It is imperative that visual studies students recognize and think through these connections. The work produced and ideas confronted in this class will facilitate discussions and constructive criticism on the fundamentals of space and time via the experiential, conceptual, and the formal as essential elements of meaning.

Fall or Spring
1 Course Unit

**VLST 2090 Visual Culture through the Computer’s Eye**
Visual studies and the humanities more generally have thought about and modeled seeing of artworks for many centuries. What useful tools can machine learning develop from databases of art historical images or other datasets of visual culture? Can tools from machine learning help visual studies ask new questions? When put together, what can these fields teach us about visual learning, its pathways, its underlying assumptions, and the effects of its archives/datasets? Class project teams will ideally be composed of both humanities majors and engineering majors who will develop datasets and/or ask important questions of datasets, in addition to thinking and writing more generally about how computer vision could help in teaching and analyzing visual art. We are looking for a variety of students from different majors and schools to bring their diverse skill sets to the course. No programming knowledge is required. The course offers an example-based introduction to machine learning, so no prior knowledge of machine learning is required.

Fall or Spring
Also Offered As: CIS 1070
1 Course Unit

**VLST 2110 Perception**
How the individual acquires and is guided by knowledge about objects and events in their environment.

Fall
Also Offered As: PSYC 1340
Prerequisite: PSYC 0001 OR COGS 1001
1 Course Unit

**VLST 2120 Research Experience in Perception**
In this research course, students will begin by first replicating earlier experiments to measure human visual memory capacity. After several class discussions to discuss ideas, each student will design and conduct their own experiment to further investigate visual and/or familiarity memory.

Fall or Spring
Also Offered As: PSYC 4340
1 Course Unit

**VLST 2130 Images in Science**
Pictures, diagrams, graphs, and (more recently) computer images are ubiquitous in modern science. Visualizations are crucial in the process of research; for communicating evidence, theories, and experiments to other scientists; and for transmitting scientific ideas to the public. But serious questions about the validity of using images to convey knowledge about nature have been raised from the earliest natural philosophers onwards, and understanding precisely what any particular scientific image does can be surprisingly difficult. In this class we will investigate, as historical and cultural artifacts, images related to the generation or transmission of knowledge about nature, knowledge that has claims to a privileged epistemological status. The focus will be on three kinds of visual depictions: images of the macrocosm (the universe as a whole), images of the microcosm (the body and its parts), and the visualization of theories and data. What are the material and technological conditions underlying these images? What can the images we examine tell us about the communities and societies, including our own, in which they were created? What do they reveal about the nature of the scientific enterprise, about the relationship between the sensible world and the mind, and about ideals concerning truth, objectivity, and morality?

Spring
1 Course Unit
VLST 2170 Visual Neuroscience
An introduction to the scientific study of vision, with an emphasis on the biological substrate and its relation to behavior. Topics will typically include physiological optics, transduction of light, visual thresholds, color vision, anatomy and physiology of the visual pathways, and the cognitive neuroscience of vision.
Spring
Also Offered As: NRSC 2217, PSYC 2240
Prerequisite: NRSC 1110
1 Course Unit

VLST 2210 Introduction to Philosophy of Mind
This course will survey several central topics in philosophy of mind, as well as investigate how philosophy of the mind interacts with scientific study of the mind. Among the questions we’ll be asking are: What is it to have a mind? What is the relationship between the mind and the brain? Can there be a science of the mind? What can it tell us? What can philosophy contribute to a science of the mind? What is consciousness? What is it to think, to perceive, to act? How are perception, thought, and action related to one another?
Fall or Spring
Also Offered As: PHIL 2640
1 Course Unit

VLST 2220 Philosophy of Perception
A seminar for majors in Philosophy. Taking our perceptual experience as a given, what causes it? In a realistic mood, we accept that objects in the environment, or in the “external world,” cause us to have the perceptual experiences that we do (as of a table with food, or as of a garden with flowers in it). Yet on this realistic view, our perception is the result of a causal chain that leads from object to eye to brain to experiences, and we are only given the last element: the experience. So how do we really know how our experiences are caused, and where do we get the idea that they are caused by an external world of physical objects? The seminar will focus on the problem of the external world as examined by David Hume, Thomas Reid, G. E. Moore, and Bertrand Russell, along with recent authors.
Not Offered Every Year
Also Offered As: PHIL 3623
1 Course Unit

VLST 2230 Philosophy and Visual Perception
In this course, we’ll use the biology, psychology and phenomenology of vision to explore philosophical questions about color, such as these: Color vision helps us get around in our environments, but in what sense is it a window onto reality, if it is? Are colors properties of objects, or are they inherently private, subjective properties of minds? What can non-human forms of color vision teach us about the nature of color, and how should we empirically study color vision? Do we need to see in color to understand it? How do our ordinary ways of talking and thinking about colors relate to the experiences we have in color? How does color vision figure in aesthetic judgment? And to what degree can it be influenced by learning, or by social biases like sexist or racist prejudices?
Also Offered As: PHIL 2843
1 Course Unit

VLST 2320 World Art: 1400 to Now
This course is an introduction to the visual arts in a global context over the period from the early 1400s to the present. The content of the class varies according to the expertise of the instructors but will introduce students to selected and significant moments in artistic production in both the Western and Eastern hemispheres. Offering a broad historical overview of key techniques, movements, and artists, this course will cover aspects of art production around the world during an era of increasing economic exchange, colonization, and industrialization. Looking at painting, sculpture, architecture, and prints, as well as new media such as photography and film, the course will respond to the following questions: How does artistic practice change in this period? Who owns art? What is the role of the artist in society, and where is art made, exhibited, and consumed? Other topics to be covered are art’s crucial role in the period’s political debates and social transformations, including modernization and technological advances, as well as art criticism’s import in forming public opinion. An introduction to art history, this course offers a wholly new perspective on the arts and cultures in this era of artistic innovation. This course fulfills Sector III: Arts and Letters and counts towards the History of Art major and minor requirements.
Spring
Also Offered As: ARTH 1020
1 Course Unit

VLST 2330 Art and Civilization in East Asia
Introduction to the major artistic traditions of China and Japan and the practices of art history. We will also consider aspects of Korean and Indian artistic traditions as they relate to those of China and Japan. Our approaches will be methodological in addressing how we understand these objects through careful looking; chronological in considering how the arts developed in and through history; and thematic in studying how art and architecture were used for philosophical, religious and material ends. Special attention will be given to the relationship between artistic production and the afterlife; to the impact of Buddhism and its purposes; to painting traditions and their patronages; and to modernist transformations of traditions.
Not Offered Every Year
Also Offered As: ARTH 1030, EALC 0100
1 Course Unit

VLST 2340 Introduction to Art in South Asia
This course is a survey of sculpture, painting and architecture in the Indian sub-continent from 2300 B.C., touching on the present. It attempts to explore the role of tradition in the broader history of art in India, but not to see India as ‘traditional’ or unchanging. The Indian sub-continent is the source for multi-cultural civilizations that have lasted and evolved for several thousand years. Its art is as rich and complex as that of Europe and diverse. This course introduces the full range of artistic production in India in relation to the multiple strands that have made the cultural fabric of the sub-continent so rich and long lasting.
Not Offered Every Year
Also Offered As: ARTH 1040, SAST 1040
1 Course Unit
VLST 2350 Introduction to Visual Culture of the Islamic World
A one-semester survey of Islamic art and architecture which examines visual culture as it functions within the larger sphere of Islamic culture in general. Particular attention will be given to relationships between visual culture and literature, using specific case studies, sites or objects which may be related to various branches of Islamic literature, including historical, didactic, philosophical writings, poetry and religious texts. All primary sources are available in English translation.
Not Offered Every Year
Also Offered As: ARTH 2350
1 Course Unit

VLST 2360 Art Now
One of the most striking features of today's art world is the conspicuous place occupied in it by the photographic image. Large-scale color photographs and time-based installations in projections are everywhere. Looking back, we can see that much of the art making of the past 60 years has also been defined by this medium, regardless of the form it takes. Photographic images have inspired countless paintings, appeared in combines and installations, morphed into sculptures, drawings and performances, and served both as the object and the vehicle of institutional critique. They are also an increasingly important exhibition site: where most of us go to see earthworks, happenings and body-art. This course is a three-part exploration of our photographic present.
Spring
Also Offered As: ARTH 2940, ENGL 2639, GSWS 2940
1 Course Unit

VLST 2370 Material History of Photography
Photography is a young medium and yet its history can be traced through differing narratives. Was the medium born in a French patent office, when the sun burned a handprint in silver salt, or when human eyes saw an inverted image projected into a dark space? Does photography reflect the perspective and biases of its inventors and users, or does it re-invent how we see the world? This seminar will take theoretical and material approaches to understanding the histories of photography. In addition to lectures and readings, students will handle original materials and make photographs using historic chemical-processes and styles.
Fall, even numbered years only
1 Course Unit

VLST 2390 Virtual Reality for Artists
With rapid developments in virtual reality technology, artists have new opportunities to exhibit work at any scale, create interactive and immersive experiences, and bridge distances between makers and viewers. This course will focus on creating art for virtual (and augmented) reality, and learning about the development of VR as a medium and how it is being utilized by contemporary artists. Students will create virtual exhibition spaces for images, videos, sculptures, and develop interactive work that can only exist in Virtual Reality. We will also develop 3D sculptures for augmented reality. We will develop our camera and editing skills for making still and video-based VR media and learn the fundamentals of 3D Modeling in Blender. We will also develop advanced skills in Adobe Photoshop, Premier, and Rhino3D. Readings in this course will cover contemporary topics in VR and consider pre-VR immersive mediums such as Panorama painting and stereographic photography.
Fall
1 Course Unit

VLST 2500 Introduction to Printmaking
The course offers an introduction to several forms of printmaking including: intaglio, screen printing, relief, and monoprinting. Through in-class demonstrations students are introduced to various approaches to making and printing in each medium. The course enhances a student’s capacity for developing images through two-dimensional design and conceptual processes. Technical and conceptual skills are developed through discussions and critiques. If you need assistance registering for a closed section, please email the department at fnarug@design.upenn.edu
Spring
Also Offered As: FNAR 1100
1 Course Unit

VLST 2510 Introduction to Photography
This course is an introduction to the basic processes and techniques of black & white photography. Students will learn how to expose and process 35mm film, SLR camera operation, darkroom procedures & printing, basic lighting and controlled applications. It begins with an emphasis on understanding and mastering technical procedures and evolves into an investigation of the creative and expressive possibilities of making images. This is a project-based course, where students will begin to develop their personal vision, their understanding of aesthetic issues and photographic history. Assignments, ideas and important examples of contemporary art will be presented via a series of slide lectures, critiques and discussion. No previous experience necessary. 35mm SLR cameras will be available throughout the semester for reservation and checkout from the photography equipment room. If you need assistance registering for a closed section, please email the department at fnarug@design.upenn.edu
Fall or Spring
Also Offered As: FNAR 1030
1 Course Unit

VLST 2520 Sculpture I
As an introduction to traditional and contemporary three-dimensional practice, this course is concerned with the concepts and methodologies surrounding three-dimensional art making in our time. Students experiment with a variety of modes of production, and develop some of the fundamental techniques used in sculpture. In addition to these investigations, assignments relative to the history and social impact of these practices are reinforced through readings and group discussion. Processes covered include use of the Fab Lab, wood construction, clay, paper, mixed media, and more. If you need assistance registering for a closed section, please email the department at fnarug@design.upenn.edu
Fall or Spring
Also Offered As: FNAR 1060
1 Course Unit
VLST 2530 Drawing I

This course is designed to develop visual awareness and perceptual acuity through the process of drawing. Students learn to sharpen perceptual skills through observational drawing, and to explore the expressive potential of drawing. A variety of problems and media will be presented in order to familiarize students with various methods of working and ways of communicating ideas visually. Subject matter will include object study, still life, interior and exterior space, self-portrait and the figure. Different techniques and materials (charcoal, graphite, ink, collage) are explored in order to understand the relationship between means, material and concept. Critical thinking skills are developed through frequent class critiques and through the presentation of and research into historical and contemporary precedent in drawing. If you need assistance registering for a closed section, please email the department at fnarug@design.upenn.edu.

Fall or Spring
Also Offered As: FNAR 0010
1 Course Unit

VLST 2600 Photography Practices

This course is an introduction to the basic principles, strategies and processes of photographic practice. It is designed to broaden the student’s aesthetic explorations and to help the student develop a visual language based on cross-disciplinary artistic practice. Through a series of projects and exercises students will be exposed to a range of camera formats, techniques and encouraged to experiment with the multiple modes and roles of photography - both analogue and digital. Attention will also be given to developing an understanding of critical aesthetic and historical issues in photography. Students will examine a range of historical and contemporary photowork as an essential part of understanding the possibilities of image making. This course is primarily for first-years and sophomores. If you need assistance registering for a closed section, please email the department at fnarug@design.upenn.edu.

Fall or Spring
Also Offered As: FNAR 1020
1 Course Unit

VLST 2610 Video I

In this studio based course, students are introduced to video production and postproduction as well as to selected historical and theoretical texts addressing the medium of video. Students will be taught basic camera operation, sound recording and lighting, as well as basic video and sound editing and exporting using various screening and installation formats. In addition to a range of short assignment-based exercises, students will be expected to complete three short projects over the course of the semester. Critiques of these projects are crucial to the course as students are expected to speak at length about the formal, technical, critical and historical dimensions of their works. Weekly readings in philosophy, critical theory, artist statements and literature are assigned. The course will also include weekly screenings of films and videos, introducing students to the history of video art as well as to other contemporary practices. If you need assistance registering for a closed section, please email the department at fnarug@design.upenn.edu.

Fall or Spring
Also Offered As: CIMS 0610, FNAR 1010
1 Course Unit

VLST 2640 Art, Design and Digital Culture

This course is an introduction to the fundamental perception, representation, aesthetics, and design that shape today’s visual culture. It addresses the way artists and designers create images; design with analog and digital tools; communicate, exchange, and express meaning over a broad range of media; and find their voices within the fabric of contemporary art, design, and visual culture. Emphasis is placed on building an extended form of visual literacy by studying and making images using a variety of representation techniques; learning to organize and structure two-dimensional and three-dimensional space, and designing with time-based and procedural media. Students learn to develop an individual style of idea-generation, experimentation, iteration, and critique as part of their creative and critical responses to visual culture. If you need assistance registering for a closed section, please email the department at fnarug@design.upenn.edu.

Fall or Spring
Also Offered As: DSGN 0010
1 Course Unit

VLST 2650 Digital Photography

This class offers an in-depth technical and conceptual foundation in digital imagery and the opportunity to explore the creative, expressive possibilities of photography. Students will become proficient with the basic use of the camera, techniques of digital capture, color management and color correction. They will also develop competency in scanning, retouching, printing and a variety of manipulation techniques in Photoshop. Through weekly lectures and critiques, students will become familiar with some of the most critical issues of representation, consider examples from photo history, analyze the impact of new technologies and social media. With an emphasis on structured shooting assignments, students are encouraged to experiment, expand their visual vocabulary while refining their technical skills. No previous experience is necessary. Although it is beneficial for students to have their own Digital SLR camera, registered students may reserve and checkout Digital SLR cameras and other high-end equipment from the department. If you need assistance registering for a closed section, please email the department at fnarug@design.upenn.edu.

Fall or Spring
Also Offered As: FNAR 1040
1 Course Unit

VLST 3010 What is Visual Studies?

Visual Studies 301 is a seminar-format course that challenges students to develop independent ideas about how the eye, the mind and the image that is created therein, all work together to inform our conception of the world at large. Rather than present a unified viewpoint, the course asks the question, "What is visual studies?" by examining parallel and sometimes antagonistic approaches to the ways that human beings understand sight and the concept of visuality. Over the course of the semester, students will discuss and write about various approaches to vision, examining this contested field through the lenses of several disciplines -- including psychology, philosophy, and art history. By parsing and assimilating diverse ideas, students will decide for themselves what are the most pertinent and relevant approaches to the various avenues of research that present themselves in the emerging interdisciplinary field of Visual Studies.

Fall or Spring
Prerequisite: VLST 1010
1 Course Unit
**VLST 3030 The Rise of Image Culture: History and Theories**

Today images are ubiquitous; two centuries ago they were rare. This seminar considers key historical and theoretical contexts for this change and its social consequences. With the help of some of the strongest critics and theorists of image culture, we will consider five interrelated aspects of the rise of image culture. First, we will explore how new media and mechanical reproduction has changed the idea of the image over the past three centuries in an socio-economic context. Second, we will explore how images operate through the psyche and gaze and how that operation is tied to power. Third, we will examine how representations make meaning and form identity in coded systems. Fourth, we will consider the relationship between visual space and concepts of reality. And finally, we will interrogate aspects of materiality and meaning in visual things and images of the

Spring
Also Offered As: ARTH 3070
1 Course Unit

**VLST 3050 What is an Image?**

The course explores various concepts of images. It considers natural images (as in optics), images as artifacts, virtual images, images as representations, and works of art as images. Themes to include: the image controversy in cognitive science, which asks whether some cognitive representations are irreducibly imagistic; the question of whether some images resemble what they represent; the development of the concept of the virtual image and of three-dimensional images; the notions of pictorial representation and non-representational images in art. Readings from C. S. Peirce, Nelson Goodman, Robert Hopkins, Dominic Lopes, W. J. T. Mitchell, John Kulvicki, and Mark Rollins, among others.

Fall
Also Offered As: ARTH 3071
1 Course Unit

**VLST 3090 Investigative Photography for Scientists and Artists**

Artists and scientists are likeminded when they make an image in pursuit of new insights. Pictures can reveal the composition of a specimen, expose a person’s character, capture a place’s distinctiveness, or produce a new occasion for intimacy. Rosalind Franklin’s famous “Photograph 51” of DNA resulted from a desire to see the physical shape of heredity. The artist Shimpei Takeda places film directly on the ground in Fukushima to create a blind measurement of the radioactivity that remains in the earth. This course will introduce photography as an investigative medium for art and science. We will begin with learning the fundamentals of photography while considering ways in which photographs have changed and continue to change the way we perceive space and time. As the class progresses, students from the arts and sciences will work together to learn specialized photographic techniques and complete assignments that explore photography as an investigative medium.

Spring
1 Course Unit

**VLST 3220 The Big Picture: Mural Arts in Philadelphia**

The history and practice of the contemporary mural movement couples step by step analysis of the process of designing with painting a mural. In addition students will learn to see mural art as a tool for social change. This course combines theory with practice. Students will design and paint a large outdoor mural in West Philadelphia in collaboration with Philadelphia high school students and community groups. The class is co-taught by Jane Golden, director of the Mural Arts Program in Philadelphia, and Shira Walinsky, a mural arts painter and founder of Southeast by Southeast project, a community center for Burmese refugees in South Philadelphia.

Fall or Spring
Also Offered As: FNAR 1110, URBS 1110
1 Course Unit

**VLST 3950 Senior Project**

Permission of Instructor Required.
Two Term Class, Student must enter first term; credit given after both terms are complete
0.5 Course Units

**VLST 3950A Senior Project**

Permission of Instructor Required.
0.5 Course Units

**VLST 3950B Senior Project**

Permission of Instructor Required.
0.5 Course Units

**VLST 3999 Independent Study**

Independent Study credit taken with advisor.
1 Course Unit

**VLST 5050 What is an Image?**

The course explores various concepts of images. It considers natural images (as in optics), images as artifacts, virtual images, images as representations, and works of art as images. Themes to include: the image controversy in cognitive science, which asks whether some cognitive representations are irreducibly imagistic; the question of whether some images resemble what they represent; the development of the concept of the virtual image and of three-dimensional images; the notions of pictorial representation and non-representational images in art. Readings from C. S. Peirce, Nelson Goodman, Robert Hopkins, Dominic Lopes, W. J. T. Mitchell, John Kulvicki, and Mark Rollins, among others.

1 Course Unit

**VLST 5999 Independent Study**

Independent Study credit taken with advisor.
Fall or Spring
1 Course Unit

**VLST 5999 Independent Study**

Independent Study credit taken with advisor.
1 Course Unit