

2019-2020 courses pre-approved for Architectural Studies Minor program credit

Autumn Quarter 2019

1) Art History Department courses

ARCH 20000. Understanding the Built Environment. 100 Units.

This course aims to equip students with the basic skills and knowledge required to analyze architecture and the urban environment. It offers an introduction to the methods and procedures of the architectural historian. These include practical tasks such as understanding architectural terminology, reading and interpreting architectural drawings, engaging with buildings 'on site', and studying buildings in context through urban design issues, such as street networks and public spaces. At a broader level, the course will involve critical discussions about the relationship between architecture and society, the building as a historical object, cultural representations of architecture, and modes of perceiving/experiencing the built environment. The course will operate through a combination of in-class seminars and site visits to buildings in Chicago. This course is specifically geared to introducing the fundamentals of architectural history to those undergraduate students seeking a minor in architectural studies. However, MA and PhD students in other fields are welcome to register.

Instructor: Katherine Taylor

Note(s): In the second weekly session, the class will often meet off-campus at sites throughout the city. Students will need to be able to get to these sites in plenty of time, and therefore should not have other classes directly before or after.

Equivalent Course(s): ARTH 30700, ARTH 20700

ARCH 24190. Imagining Chicago's Common Buildings. 100 Units.

This class is an architectural studio based in the common residential buildings of Chicago and the city's built environment. While design projects and architectural skills will be the focus of the class, it will also incorporate readings, a small amount of writing, some social and geographical history, and several explorations around Chicago. The studio will: (1) give students interested in pursuing architecture or the study of cities experience with a studio class and some skills related to architectural thinking, (2) acquaint students intimately with Chicago's common residential buildings and built fabric, and (3) situate all this within a context of social thought about residential architecture, common buildings, housing, and the city. Please note: the class has required meetings on both Tuesdays (5-6:20) and Fridays (2:30-5:50, with a break) beginning on Tuesday October 2nd. This course is part of the College Course Cluster program: Urban Design.

Instructor: Luke Joyner

Note(s): Consent is required to enroll in this class. Interested students should email the instructor (Luke Joyner, lukejoy@uchicago.edu) to briefly explain their interest and any previous experience with the course topics. Please note: The course has required meetings on both Tuesdays (5-6:20 p.m.) and Fridays (2:30-5:50 p.m., with a break) beginning on Tuesday October

1. Students must attend first class to confirm enrollment.

Equivalent Course(s): ENST 24190, AMER 24190, ARTH 24190, ARTV 20210, GEOG 24190

ARCH 25105. Chichen Itza. 100 Units.

This course investigates the visual culture of Chichen Itza, one of ancient Mesoamerica's most cosmopolitan cities. Thriving in the centuries after the collapse of the lowland Maya kingdoms, the city of Chichen Itza articulated a new political and cosmological vision of authority, drawing on traditions from all over Mesoamerica, past and present, to create an innovative visual synthesis. This course will investigate Chichen Itza's most famous architectural and sculptural monuments in the light of new epigraphic and chronological discoveries, paying close attention to questions of innovation, repetition, and serial production.

Instructor: Claudia Brittenham

Prerequisite(s): This is a traveling seminar; we will go to Chichen Itza and related sites in Mexico between December 14-21, 2019. Please email the course instructor, explaining your interest in and preparation for the course. Students who are interested in the course but unable to travel should also contact the instructor.

Equivalent Course(s): ARTH 25105, ARTH 35105, LACS 35105, LACS 25105

2) Courses in other departments

ENGL 22903. Literature of the City: Between Utopia and Dystopia, Design and Occupation. 100 Units.

This seminar to be taught in conjunction with the 2019 Chicago Architecture Biennial will allow students to explore the material repercussions of built, neglected, and mythologized environments on those who imagine and inhabit them, and to consider the way the literary arts not only respond to, but contribute to their shape. We will place the literature of the metropolis into dialogue with the writings and plans of architects and urbanists on the one hand, occupant-activists on the other. We will study the creation (and sporadic dismantling) of the city from the perspective of its builders and inhabitants—moving from the nineteenth-century flaneur through Situationism, to the utopian schemes and conceptual architectures of the '60s and 70s, and contemporary protest movements. A range of cities, visible and invisible, will be under consideration, with Chicago as our immediate case study. In lieu of a standard research paper, students will be given the opportunity to produce a collaborative atlas of Chicago. They must make time for field trips to the Biennial and to select monuments around the city. (1830-1940, Theory) This is a featured Makers Seminar for English majors, but is open to all students.

Instructor(s): Jennifer Scappettone

ENST 26100. Roots of the Modern American City. 100 Units.

This course traces the economic, social, and physical development of the city in North America from pre-European times to the mid-twentieth century. We emphasize evolving regional urban systems, the changing spatial organization of people and land use in urban areas, and the

developing distinctiveness of American urban landscapes. All-day Illinois field trip required. This course is part of the College Course Cluster, Urban Design.

Instructor: Michael Conzen

Note(s): This course offered in alternate years.

Equivalent Course(s): GEOG 36100, HIST 28900, GEOG

ENST 26005. Cities by Design. 100 Units.

This course examines the theory and practice of city design-how, throughout history, people have sought to mold and shape cities in pre-determined ways. The form of the city is the result of myriad factors, but in this course we will hone in on the purposeful act of designing cities according to normative thinking-ideas about how cities ought to be. Using examples from all time periods and places around the globe, we will examine how cities are purposefully designed and what impact those designs have had. Where and when has city design been successful, and where has it resulted in more harm than good?

Instructor: Emily Talen

Equivalent Course(s): PBPL 26005, GEOG 26005

ENST 26330. ReRooting: Cultivating the Ecology of Place. 100 Units.

At its core, "ReRooting: Cultivating the Ecology of Place" will unpack the conceptual underpinnings as well as the practical applications of urban ecological theory as applied to the interplay between humans, biological systems, and the abiotic environment. While the field of urban ecology shares many features with the biological science of ecology, it also emphasizes linkages across the social, economic, and physical sciences with the humanities. However, in order to disentangle the dynamic complexity of human-environment relations in cities as related to the interconnected urban biophysical, socio-economic, and political processes of urban systems, we will examine how concepts in natural science ecology, environmental studies, geography, urban planning, architecture, art and design, sociology, and public policies intersect. Additionally, we will use the Perry Ave Commons as "living laboratories" and apply these theories and concepts to laboratory exercises, field observation, case studies, and research on contemporary urban sustainability initiatives.

Instructor: Emmanuel Pratt

Equivalent Course(s): GEOG 26330

TAPS 27570. Scenic & Costume Design for the Stage. 100 Units.

This course explores the various forms and processes of designing scenery and costume for theatrical performance. With particular attention to a cohesive reading of a text, students engage contextual and historical exploration, and visual and thematic research, as well as the documentation needed to complete a scenic and costume world (e.g., sketching, swatching, model making), with a focus on how the two disciplines communicate with each other to create a shared visual language. The course additionally covers, nominally, the history of stage design and looks at major trends in modern stage design.

Instructor: Kurtis Boetcher

Note(s): Attendance at the first class session is mandatory.

HIST 29527. The Spatial History of Nineteenth-Century Cities: Tokyo, London, New York. 100 Units.

The late-nineteenth century saw the transformation of cities around the world as a result of urbanization, industrialization, migration, and the rise of public health. This course will take a spatial history approach; that is, we will explore the transformation of London, Tokyo, and New York over the course of the nineteenth century by focusing on the material "space" of the city. For example, where did new immigrants settle and why? Why were there higher rates of infectious disease in some areas than in others? How did new forms of public transportation shape the ability to move around the city, rendering some areas more central than others? To explore questions such as these, students will be introduced to ArcGIS in four lab sessions and asked to develop an original research project that integrates maps produced in Arc. No prior ArcGIS experience is necessary, although students will be expected to have familiarity with Microsoft Excel and a willingness to experiment with digital methods. Assignments: Discussion posts, homework (mapping), and a final research project.

Instructor: Susan Burns

Note(s): Making History courses forgo traditional paper assignments for innovative projects that develop new skills with professional applications in the working world. Open to students at all levels, but especially recommended for 3rd- and 4th-yr students.

Equivalent Course(s): EALC 39527, ENST 29527, GLST 29527, EALC 29527, HIST 39527

GEOG 28202. Geographic Information Science I. 100 Units.

This course introduces students to a wide range of geospatial technologies and techniques in order to explain the basic theory and application of geographic information systems (GIS). To do this, students will use open source or free software such as QGIS and Google Earth Pro to complete GIS lab exercises that cover a range of topics, including an introduction to different types of geospatial data, geographic measurement, GIS, principles of cartography, remote sensing, basic GIS mapping and spatial analysis techniques, remote sensing, and specific geospatial applications such as 3D modeling and geodesign. By providing a general overview of geospatial technologies, this course provides students with a broad foundational knowledge of the field of GIScience that prepares them for more specialized concepts and applications covered in future GIS courses.

Instructor(s): Kevin Credit Terms Offered: Autumn

Equivalent Course(s): GEOG 38202

Note to AS minors: You may count ONE GIS course toward program credit, not all three in the series.

Winter Quarter 2020

1) Art History Department courses

ARCH 24191. City Imagined, City Observed. 100 Units.

This urban design studio course takes two distinct notions of the city as its starting point: grand, imaginative plans -- utopian, unbuilt, semi-realized, real... both as aesthetic objects, and as ideas -- and how the minute flows of day-to-day life, up from the smallest scale, enter into dialogue with little built and lived details, intended or not. With Chicago as context and canvas, we will dream both big and small, search both present and past, and draw precisely on both what we dream and what we experience... seeking not to dictate what the city will be, but to expand our sense of what a city can be. The studio work will proceed in two stages: individually developing ideal city plans, then breaking each others' plans, using real observations and factors (and even spontaneous impulse) to complicate and rebuild them into something lovelier.

Instructor: Luke Joyner

Note(s): Consent is required to enroll in this class. Priority will be given to students who have completed ARTH 24190.

Equivalent Course(s): AMER 24191, ENST 24191, ARTV 20205, ARTH 24191, GEOG 24191

ARTH 24267. Architecture of Memory. 100 Units.

This architecture studio course will explore the concept of spaces created as memorials or for the purpose of holding or preserving memories. Design projects and spatial concepts will be the main focus for the class. Students will also research and critique existing built projects and visit spaces around the city to form a basis for understanding and analyzing architecture. Students will generate a portfolio of 2D and 3D spatial explorations throughout the quarter. For final design projects, students will choose real sites and will create a design for a memorial for an aspect of social history of the South Side and/or the Washington Park neighborhood of Chicago. Visits to exhibitions around Chicago and current events stories will serve as starting points for project subjects. Students are required to attend the first seminar to enroll in the course. Excursions across the city will occur during regular meeting times, but a make-up option will be outlined and permitted. Though basic tools and materials for model making will be available for sharing during studio or through a tool library, some students may find it beneficial to obtain their own items for use outside of class time and to supplement what is provided.

Instructor: Nootan Bharani

Note(s): Excursions across the city will occur during regular meeting times, but a make-up option will be outlined and permitted. Though basic tools and materials for model making will be available for sharing during studio or through a tool library, some students may find it beneficial to obtain their own items for use outside of class time and to supplement what is provided.

Equivalent Course(s): ARTH 34267, ARTV 34267, ARTV 24267

2) Courses in other departments**HIST 26511. Cities from Scratch: The History of Urban Latin America.** 100 Units.

Latin America is one of the world's most urbanized regions, and its urban heritage long predates European conquest. And yet the region's cities are most often understood through the lens of North Atlantic visions of urbanity, many of which fit poorly with Latin America's historical

trajectory, and most of which have significantly distorted both Latin American urbanism and our understandings of it. This course takes this paradox as the starting point for an interdisciplinary exploration of the history of Latin American cities in the nineteenth and twentieth centuries, focusing especially on issues of social inequality, informality, urban governance, race, violence, rights to the city, and urban cultural expression. Readings will be interdisciplinary, including anthropology, sociology, history, fiction, film, photography, and primary historical texts.

Instructor: Brodwyn Fischer

Prerequisite(s): Some knowledge of Latin America or urban studies helpful.

Equivalent Course(s): HIST 36511, LACS 36510, LACS 26510, ENST 26511

ENGL 26206. Race and Space. 100 Units.

This course will look at the way that race is as much a product of space as it is of blood, skin, vision, or law. How does space determine the way we perceive race and how does race color the ways we experience and relate to space? Starting with post-antebellum rewritings of slavery's spaces, moving through the hysteria surrounding passing and urbanization in the 1920's, the role of the mid-century suburbs in reorganizing racial categories, the post-Civil Rights post-industrial city and the shoring up of the ghetto, to the current intersections between ideas of the post-racial and the post-spatial, this course will explore the novel as a key site for mediating the changing linked experience of race and space. (Fiction, 1830-1940)

Instructor: Adrienne Brown

ENST 24660. Urban Geography. 100 Units.

This course examines the spatial organization and current restructuring of modern cities in light of the economic, social, cultural, and political forces that shape them. It explores the systematic interactions between social process and physical system. We cover basic concepts of urbanism and urbanization, systems of cities urban growth, migration, centralization and decentralization, land-use dynamics, physical geography, urban morphology, and planning. Field trip in Chicago region required. This course is part of the College Course Cluster, Urban Design.

Instructor: Michael Conzen

Note(s): This course offered in alternate years.

Equivalent Course(s): GEOG 33500, GEOG 23500

ENST 20160. Cities on Screen. 100 Units

How do the movies shape our collective imagination about cities? Why do we so often turn to them for visions of disaster and dystopia, on the one hand, or a futuristic utopia on the other? How has film responded to cities in the past, and how can it help investigate our present urban condition? How can film be understood as a tool for exploring what a city is? In this seminar, we will watch and discuss feature films in which the built environment or urban issues play important roles. Students will improve their film literacy – learning not just what a film does but how it does it – and understand applications for film in the analysis of social, spatial, temporal, and immersive phenomena, as well as how it can help inspire and communicate design more effectively.

Instructor: Evan Carver

ANTH 21347. To Preserve or Destroy: Anthropologies of Heritage. 100 Units.

Why do some monuments matter more than others? Why do we destroy some sites and preserve others? How do these objects and sites attain value? As witnessed in Charlottesville, heritage is at the heart of intense debates in politics and culture today. Questions of theft and colonial violence haunt museums, galleries, and other cultural institutions. Looting and repatriation-linked to archaeology's complex history and of equal concern to contemporary anthropology-force us to contend with the very meaning of heritage, including why it matters, what it does, and to whom it rightfully belongs. Bringing archaeology and anthropology together, this course attends to these complex questions, exploring how monuments, heritage sites, and material culture are enmeshed in power and condense contested histories. Drawing together ethnographies of heritage, theories of history and art, and accounts of dispossession and destruction, we will examine heritage as a conceptual formation, a set of social, political, and economic practices, and as a locus of both enchantment and endangerment. In doing so, students will gain a better sense of why the category of heritage seems to matter so much in the 21st century, paradoxically weaponized by both nationalist narratives and decolonial movements, and what futures heritage builds.

Instructor: Hilary Leathem

GEOG 28402. Geographic Information Science II. 100 Units.

This course investigates the theory and practice of infrastructure and computational approaches in spatial analysis and GIScience. Geocomputation is introduced as a multidisciplinary systems paradigm necessary for solving complex spatial problems and facilitating new understandings. Students will learn about the elements of spatial algorithms and data structures, geospatial topologies, spatial data queries, and the basics of geodatabase architecture and design.

Instructor: Marynia Kolak

Prerequisite(s): GIS I

Equivalent Course(s): GEOG 38402

Note to AS minors: You may count ONE GIS course toward program credit, not all three in the series.

Spring Quarter 2020

1) Art History Department courses

ARCH 24195. Architecture on Display. 100 Units.

This traveling seminar explores the challenges of exhibiting architecture and the built environment, a medium whose scale resists traditional museum and gallery display and whose representation in drawings is notoriously difficult for the public to grasp - but nonetheless is increasingly embraced by museums and biennales. Our central example is "Countryside: Future

of the World," an exhibit on the future of the global hinterland at Frank Lloyd Wright's Guggenheim Museum in New York, which we will visit. The latest of several provocative exhibitions by contemporary architect Rem Koolhaas, it instantiates a recent phenomenon of interpretive and thematic shows by architects that exceed the museum's traditional aim to represent architect-designed buildings and projects. In addition to examining Koolhaas's work, we will investigate architectural display in two broader contexts: other types of contemporary architectural exhibition, particularly examples we can visit in Chicago and New York, and the history of architectural display through drawings, models, mock-ups, fragments, virtual reality, and buildings converted into museums in their own right, from tenements to the Robie House. Students will write research papers. The course includes a class trip to New York over a long weekend during the quarter, Thursday evening to Sunday.

Instructor: Katherine Taylor

Note(s): This is a traveling seminar and instructor consent is required.

Equivalent Course(s): ARTH 34195, ARTH 24195

ARCH 24196. Second Nature: New Models for the Chicago Park District. 100 Units.

The Chicago Park District seems to preserve "first nature" within the metropolitan field. But the motive for establishing this sovereign territory was hardly natural. Today, cultural change raises questions about the significance and operation of this immense network of civic spaces. What opportunities emerge as we rethink them? While this design studio focuses on the development of new model parks for Chicago, it can support students coming from a broad range of disciplines. Texts, seminar discussions, and field trips will complement and nourish the development of architectural proposals.

Instructor: Andrew Schachman

Equivalent Course(s): ARTV 20206, GEOG 24196, ARTH 24196, ENST 24196

ARCH 26711. Florentine Topographies: Art, Architecture, and Urban Life in the Italian Renaissance City. 100 Units.

The site of some of the most widely recognizable monuments of western art history and the home to some of the most famous artists, writers, designers, thinkers, and cultural patrons of early modern culture, Florence has long occupied a central place in a larger pan-European discourse of Modernity, Beauty, and the Individual Subject. As a result, the city itself has come to occupy a mythic position as a central hub of Western intellectual culture: uprooted from its geographical specificity by the circulation of such proper names as Machiavelli, Leonardo, Michelangelo, and unmoored from its historical heritage by the disorienting complexities of modern mass tourism. Therefore, this course seeks to re-integrate the "Renaissance" into the urban context from which it emerged, to defamiliarize it so that it can be looked at from other perspectives. It focuses on the city itself as the protagonist of some of the most important experiments in art, architecture, and urban development and shows how they were intimately connected to a lively and engaged social body. By approaching images and monuments through the spatial practices by which they were encountered by Renaissance society (rituals of conflict, contests, economic exchange, religious devotion, urban politics, identity formation, among

others), students will gain a more nuanced understanding of the links between a localized urban culture and a larger intercultural and cross-temporal exchange of ideas.

Instructor: Niall Atkinson

Equivalent Course(s): ARTH 36711, ARTH 26711

2) Courses in other departments

HIST 29656. History Colloquium: Urban Histories-Experiencing, Using, and Representing the City. 100 Units.

This course will provide an analysis of the changing forms, meanings, and representations of urban life in Europe from the medieval period to the present. To that end, each session will pair secondary readings with a wide range of primary sources, including maps, municipal and legal records, newspapers, novels, prints, songs, paintings, films, planning treatises, tourist guides, memoirs, architectural drawings, photographs, and advertisements. We will address the histories of building, zoning, transportation, planning, ghettoization, segregation, and gentrification. We will consider cities as destinations for migrants, refugees, pilgrims, and tourists, as well as sites of political, social and cultural experimentation, unrest and upheaval. At the end of the term, you will have learned how cities have been shaped by their role as centers of economic, political, and cultural life, as well as how those who inhabit them have sometimes been able to use urban space to their own ends. This will be a small discussion-based course in which each student will write a fifteen-page research paper. Our work with primary sources will provide the tools you need to pursue your research project, while our close readings of both classic and experimental historiography will assure that your final paper contributes to an ongoing scholarly conversation. The material will be drawn from (imperial) Europe, but students interested in urbanism in all parts of the world are very welcome.

Instructor: Leora Auslander Terms Offered: Spring

Prerequisite(s): Priority registration is given to History majors.

SOCI 20252. Urban Innovation: Cultural Place Making and Scenescapes. 100 Units.

Activists from Balzac, Jane Jacobs, and others today seek to change the world using the arts. Ignored by most social science theories, these new cultural initiatives and policies are increasing globally. Urban planning and architecture policies, walking and parades, posters and demonstrations, new coffee shops and storefront churches reinforce selective development of specific cities and neighborhoods. These transform our everyday social environments into new types of scenes. They factor into crucial decisions, about where to work, to open a business, to found a political activist group, to live, what political causes to support, and more. The course reviews new case studies and comparative analyses from China to Chicago to Poland that detail these processes. Students are encouraged to explore one type of project.

Instructor: Terry Clark

Equivalent Course(s): SOCI 30252

Prerequisite(s): GEOG 20500 and GEOG 28201

Equivalent Course(s): GEOG 20273, GEOG 30273, SOCI 30273

REES 21300. (Re)Branding the Balkan City: Contemp. Belgrade/Sarajevo/Zagreb. 100 Units.

The course will use an urban studies lens to explore the complex history, infrastructure, and transformations of these three cities, now the capitals of Serbia, Bosnia and Hercegovina, and Croatia. Drawing on anthropological theory and ethnography of the city, we will consider processes of urban destruction and renewal, practices of branding spaces and identities, urban life as praxis, art and design movements, architectural histories and styles, metropolitan citizenship, and the broader politics of space. The course is complemented by cultural and historical media, guest speakers, and virtual tours. Classes are held in English. No knowledge of BCS is required. However, this module can fulfill a language requirement or simply further the study of BCS with additional weekly sections, materials, discussions, and presentations in the target language.

Instructor: Nada Petkovic

Equivalent Course(s): BCSN 21300, REES 31303, BCSN 3130

ENST 22611. Paris from "Les Misérables" to the Liberation, c. 1830-1950. 100 Units.

Starting with the grim and dysfunctional city described in Victor Hugo's "Les Misérables," the course will examine the history of Paris over the period in which it became viewed as the city par excellence of urban modernity through to the testing times of Nazi occupation and then liberation (c. 1830-1950). As well as focussing on architecture and the built environment, we will examine the political, social, and especially cultural history of the city. A particular feature of the course will be representations of the city-literary (Victor Hugo, Baudelaire, Zola, etc.) and artistic (impressionism and postimpressionism, cubism, surrealism). We will also examine the city's own view of itself through the prism of successive world fairs (expositions universelles).

Instructor: Colin Jones

Equivalent Course(s): HIST 22611, HIST 32611, FREN 32620, FREN 22620

NEHC 20085. BIG: Monumental Buildings and Sculptures in the Past and Present. 100 Units.

Why are so many societies - including our own - obsessed with building monumental things like pyramids and palaces? What do we learn about cultures past and present from the monuments they built? This course explores famous monuments from around the world to answer these questions through the lens of archaeology, architecture, and art history.

Instructor: James Osborne

Equivalent Course(s): SIGN 26000, KNOW 26000

GEOG 22700. Urban Structure and Process. 100 Units.

This course reviews competing theories of urban development, especially their ability to explain the changing nature of cities under the impact of advanced industrialism. Analysis includes a consideration of emerging metropolitan regions, the microstructure of local neighborhoods, and

the limitations of the past American experience as a way of developing urban policy both in this country and elsewhere.

Instructor: Marco Garrido

Equivalent Course(s): SOCI 30104, CRES 20104, SOCI 20104, SOSC 25100, GEOG 32700

HIST 20805. Cities and Urban Space in the Ancient World. 100 Units.

Cities have been features in human landscapes for nearly six thousand years. This course will explore how cities became such a dominant feature of settlement patterns in the ancient Mediterranean and Near East, ca. 4,000 BCE-350 CE. Was there an "Urban Revolution," and how did it start? What various physical forms did cities assume, and why did cities physically differ (or not) from each other? What functions did cities have in different cultures of the past, and what cultural value did "urban" life have? How do past perspectives on cities compare with contemporary ones? Working thematically and using theoretical and comparative approaches, this course will address various aspects of ancient urban space and its occupation, with each topic backed up by in-depth analysis of concrete case studies.

Instructor: Margaret Andrews

Equivalent Course(s): HIST 30805, CLCV 26618, ANCM 36618, CLAS 36618, ENST 20805

HIST 20404. Troy and Its Legacy. 100 Units.

This course will explore the Trojan War through the archaeology, art, and mythology of the Greeks and Romans, as well as through the popular imaginings of it in later cultures. The first half will focus on the actual events of the "Trojan War" at the end of the second millennium BCE. We will study the site of Troy, the cities of the opposing Greeks, and the evidence for contact, cooperation, and conflict between the Greeks and Trojans. Students will be introduced to the history of archaeology and the development of archaeological fieldwork. The second half will trace how the narrative and mythology of Homer's Iliad and the Trojan War were adapted and used by later civilizations, from classical Greece to twenty-first-century America, to justify their rises to political and cultural hegemony in the Mediterranean and the West, respectively.

Instructor: Margaret Andrews

Equivalent Course(s): HIST 30404, ANTH 26120, ANTH 36120, CLCV 20404, CLAS 30404.

GEOG 28602. Geographic Information Science III. 100 Units.

This advanced course extends and connects both foundational and functional GIScience concepts. Students will be introduced to advanced programming and scripting languages necessary for spatial analysis and GIScience applications. Additional topics include customization, enterprise GIS, web GIS, and advanced visualization and analytic techniques.

Instructor: Marynia Kolak

Prerequisite(s): Prerequisites GIS I and GIS II

Equivalent Course(s): GEOG 38602

Note to AS minors: You may count ONE GIS course toward program credit, not all three in the series.