

College of Arts and Sciences – Departments

421 National Security Affairs I

This course provides future Air Force officers with a background in the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences, giving students the opportunity to apply the leadership and management principles of this course.

Prerequisite: 322 or permission of instructor

422 National Security Affairs II

Continuation of 421.

Prerequisite: 421

Cadet Internship Program

Offered during the AERO 422 semester, students can participate in an internship program with the 934th Airlift Wing, Air Force Reserve Command. This internship program's purpose is to demonstrate leadership and management skills through advanced leadership experiences. The students are matched with mentors from the 934th Airlift Wing and assigned specific projects, usually in career fields the students are most interested in pursuing in the active duty Air Force. This is a 40-hour program that replaces Leadership Laboratory credit for the semester; participation is limited and strictly voluntary.

The following courses allow students to gain credit for certain non-classroom experiences. Permission of department chair is required. A maximum of three credits may be applied, two of which must be from 450, Four-Week Field Training (FT), except for cadets participating in 451, Cadet Training Assistant (CTA), who are able to accrue a maximum of five credits of non-classroom experiences toward the 132 credits required for graduation. Graded on S-R basis.

450 Four-Week Field Training

2 credits

Training and evaluation on an Air Force base during the summer. The experience is designed to develop military leadership and discipline, provide AF officership training, orientation and motivation, and determine officer potential. These objectives are provided to conform to the standards of a structured military environment as well as teach the participant how an Air Force base operates. The syllabus provides for a minimum of 270 hours of scheduled activities—157 hours of total core curriculum hours consisting of Air Force orientation, leadership training, and officership training. Additional hours are required for Flight Training Officer Time (FTOT) and cadet meetings, *etc.*

Prerequisite: 212

451 Cadet Training Assistant (CTA)

2 credits

A cadet who previously completed Field Training and who successfully competes to be assigned as a staff member in a 4- or 6-week field Training. Discharges staff responsibilities to meet the objectives described in AERO 450.

452 Professional Development Training (PDT)

1 credit

The objective of PDT is to provide opportunities to cadets to gain knowledge and appreciation for the human relations and leadership challenge encountered by junior Air Force officers. Further, the program is designed to motivate cadets in their pursuit of an Air Force career. Normally open to junior and senior contracted cadets who have completed Field Training. However, selected AERO 100 cadets may participate in some of the PDT programs.

Art History (ARTH)

Webster (chair), Becker, Eliason, Stansbury-O'Donnell, Nordtorp-Madson, Sheehy, Welch, Young

The visual arts constitute the physical legacy of past as well as present civilizations. Whether in the form of painting, sculpture, architecture, pottery, textiles, photography, or other media, they express the myths, beliefs, and structures of society, allowing us to glimpse the vision of the individuals and culture who created the works. Understanding the art and artifacts of earlier times and of other cultures gives us greater insight into our own culture and its legacy.

The art history program offers a comprehensive, chronological and geographical exploration of the arts and architecture of the western and non-western worlds. Courses include an emphasis upon the critical evaluation and analysis of works of art, and exploration of the cultural, social, political, and religious contexts behind the arts, and an examination of the broader relationships between different arts and cultures.

With its interdisciplinary approach, an undergraduate art history major is an important part of liberal arts studies. It includes a wide-ranging knowledge of mythological and religious beliefs and draws parallels to historical, literary, theological, and technological developments of a period. It also develops analytical thinking and writing skills through research papers and projects.

Students graduating with a major in art history should have a broad and general knowledge of the history of art, including western and non-western cultures. They should be able to define and carry out a major research project. They should be able to present an art historical topic in an oral format.

The liberal arts and interdisciplinary nature of the major can be combined with other majors such as theology, history, philosophy, or English, or with other programs emphasizing professional skills, including journalism, communication, or elementary education.

With careful planning of one's program of studies along with an internship in one of the metropolitan area museums, galleries, or corporate collections, this major can lead to entry level employment related to the visual arts. It can also prepare students for graduate study of art history, which in turn can lead to academic or professional museum positions.

The department offers a number of courses for the non-major to fulfill the Fine Arts component of the core curriculum.

Major in Art History

- 151 Introduction to Art History I
- 152 Introduction to Art History II
- 211 Methods, Approaches, and Problems in Art History
- 480 Senior Presentation and Paper

Plus four credits from each of the following areas:

Ancient Art (300, 305, 310, or equivalent)

Medieval Art (330, 335, or equivalent)

Renaissance & Baroque Art (320, 340, 342, 345, 347, or equivalent)

Modern Art (351, 352, 356, 361, 450, or equivalent)

Non-Western Art (285, 286, 289, 291, 320, 391, or equivalent)

Media Studies (architecture and media other than painting and sculpture – 280, 282, 285, 286, 391, or equivalent)

Note: A single course may fall into more than one area, but may only be applied to a single area. Students taking courses abroad may also substitute one course taken abroad for one of the advanced studies course areas (with the exception of Non-Western Art) with prior approval of the chair of the department.

Plus four credits meeting one of the following criteria:

- a second course in one of the above six areas
- an internship or other form of experiential learning, including research and preparation of exhibits
- an art history course taken abroad
- a studio art course

Allied requirements

Eight credits, chosen from the following four options:

A second course in History or a fourth course in one foreign language

Four credits total in Music or Theater

COMM 160 Electronic Media Production

JOUR 220 Design Concepts of Communication

Minor in Art History

151 Introduction to Art History I

or

152 Introduction to Art History II

Plus:

Sixteen credits chosen with the approval of the department chair or a department adviser.

151 Introduction to Art History I

An introduction to the development of architecture, sculpture, and painting from prehistoric times to about 1400. Includes ancient and medieval European, Near Eastern, Chinese, Japanese, South Asian and pre-Columbian art. Particularly recommended for non-art majors. This course fulfills the Fine Arts and Human Diversity requirements in the core curriculum.

152 Introduction to Art History II

An introduction to the development of architecture, sculpture, and painting from about 1400. Includes Renaissance, Baroque, and Modern European art, as well as Chinese, Japanese, African and Native American art and considers the role of women in art. Particularly recommended for non-art majors to fulfill the fine arts requirement. This course fulfills the Fine Arts and Human Diversity requirements in the core curriculum.

159 Principles of Art History

2 credits

This course will introduce and familiarize students with the stylistic and formal qualities of art through lecture, discussion, and field trips. The course will cover certain themes such as the human figure from a historical and contextual perspective. Students will be required to analyze art in these terms in discussions, tests, and papers in the class. This course partially fulfills the Fine Arts requirement in the core curriculum.

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211 Methods, Approaches, and Problems in Art History

An introduction to the methods and problems of art history, including the theoretical approaches to art and its history, the examination and analysis of the work and its medium, the role of the museum and gallery in the study of art, and bibliographic tools of the different disciplines of the field.

Prerequisite: 151 or 152 or permission of chair.

280 Sacred Architecture and Space

Throughout history, humans have set aside spaces for religious purposes. Frequently these are the most visible remains or representatives of a culture and are keys to understanding the place of humans within the world and universe. This course examines sacred architecture and spaces from a variety of perspectives, including materials and structure, ritual function and liturgy, decoration, symbolism, physical context, and social/religious context. The course will examine not only Christian churches, but will also examine non-Christian and non-western traditions of religion and architecture. This course fulfills the Fine Arts requirement in the core curriculum.

282 The History of American Architecture

A survey of high style and vernacular architecture in the United States from the Native Americans to the present day. Upon completion of this course, the student will be able to: identify the major themes and styles in American architecture; recognize major monuments and their designers; and understand how an American identity was projected in architecture. This includes understanding American architecture and its relationship to corresponding developments in art, landscape, and the urban fabric. Emphasis will be placed on structures in Minnesota and the upper Midwest. This course fulfills the Fine Arts requirement in the core curriculum.

285 Arts of Africa and the African Diaspora

The continent of Africa presents a world of contrasts: from the powerful trading empires of the Sahel to the small scale, nomadic societies of the Kalahari. This course will survey the arts and cultures of Africa, drawing on recent breakthroughs in archaeology, anthropology, and art history to explore the diversity and creativity of past and present African artists. In addition, the course will address the expansion of African culture to the New World, a process that began tragically in the Middle Passage, but emerged triumphantly in the artistic traditions of the Diaspora peoples. This course fulfills the Fine Arts and Human Diversity requirements in the core curriculum.

286 Women's Art in Cross-cultural Perspective

What is "women's art"? Is the definition of women's art consistent across cultures? What are the conditions of women's artistic practice, and how do women address vital social, spiritual, and political issues through their art? These are the questions to be addressed in this course, an interdisciplinary study of women's art that focuses on case studies in Africa, the Americas, the Pacific, and Asia. This course fulfills the Fine Arts and Human Diversity requirements in the core curriculum.

289 Asian Art

This course is a survey of South and East Asian art, from its beginnings in the Bronze Age until the present. The course will emphasize regional characteristics as well as cross-cultural influences of Asian art in a variety of media, including architecture, painting, calligraphy, sculpture, and pottery. The course will also examine the impact of social class on artists and patronage and upon the influence of Hinduism, Buddhism, Confucianism, Taoism, and Shintoism play in the form and function of Asian art. This course fulfills the Fine Arts and Human Diversity requirements in the core curriculum.

291 Topics in Non-Western Art

This course number covers a range of offerings in the art and architecture of Asia, Africa, Oceania and Latin America. Offerings will vary from year to year, but will usually provide a comprehensive survey of the arts of a wide region such as Asia or Africa or of a major religion such as Buddhism or Islam. A more detailed examination of a single country such as China or Mexico may also be included among offerings. This course fulfills the Fine Arts and Human Diversity requirements in the core curriculum.

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html. Topics listed under 297 fulfill the Fine Arts requirement in the core curriculum.

300 The Ancient Near East and Egypt

A survey of the arts of the Stone and Bronze Ages, including the civilizations of Mesopotamia, the Indus Valley, Egypt, the Near East, and the Aegean Sea. The use and problems of archaeology in the understanding of ancient cultures will be discussed. This course fulfills the Fine Arts requirement in the core curriculum.

305 Greek Art and Archaeology

A survey of the art and architecture of ancient Greece from the fall of the Bronze Age civilizations to the end of the Hellenistic period. Particular attention will be given to sculpture, vase painting, and the relationship of art to the broader culture, to the art of the ancient Near East and Egypt, and to gender relations in ancient Greece. This course fulfills the Fine Arts requirement in the core curriculum.

310 Roman Art and Archaeology

A survey of the art of the Roman Republic and Empire to the emperor Constantine in the early fourth century C.E. Issues include the use of art and architecture as an expression of imperial political programs, the creation of urban architecture and the everyday environment of the Romans, and Rome's relationship to Greece and the Near East. This course fulfills the Fine Arts requirement in the core curriculum.

320 Art and Culture of Colonial Mexico

In 1521, the Spaniard Hernando Cortés and his army conquered the Aztec city of Tenochtitlan and assumed control of a land that later came to be known as Mexico, initiating a period of transformation, innovation, and synthesis called the Colonial era (1524 to ca. 1810). The art and architecture created during this time reflects the processes of conflict, resistance, and adaptation that ensued as a result of the collision of two cultures. This course surveys the historical context in which the painting, sculpture, and architecture of Mexico were created, from the conquest to the rise of the independent Mexican nation. A knowledge of major works and monuments will be stressed; however, the emphasis of this course is placed on an understanding of the general concepts and issues that affected art and culture in the Colonial era. Both Spanish and pre-Columbian art and culture will be investigated in order to understand the unique context and characteristics of the visual culture of Mexico during this formative period. This course fulfills the Fine Arts and Human Diversity requirements in the core curriculum.

330 Churches and Mosques in the First Millennium

This course examines the formation and development of the first Christian and Islamic art and architecture during the first millennium C.E. of Europe and the Mediterranean. The class will examine the development of religious structures for these new religions, the role of visual images in both religious and secular contexts, and the influences that these cultures exerted on each other. Areas to be covered include: the Early Christian period; the Germanic, Celtic, Anglo-Saxon, Scandinavian cultures of the sixth to eighth centuries; the Carolingian and Ottonian periods; Byzantine art and architecture; Islamic art and architecture. This course fulfills the Fine Arts requirement in the core curriculum.

335 Cathedrals, Monasteries, and Caliphates

A survey of the arts in Europe during the Romanesque and Gothic periods, c. 1000-1400. Emphasis will also be given to contemporaneous currents in Byzantine and Islamic art and their influence on the art of the West. This course fulfills the Fine Arts requirement in the core curriculum.

340 Southern Renaissance Art and Society

A survey of the art and architecture of Italy, Spain and Portugal from the fourteenth through the sixteenth centuries. The course will focus on issues of style, patronage and iconography. This course fulfills the Fine Arts requirement in the core curriculum.

342 Renaissance and Reformation in Northern Europe

A survey of the art and architecture of northern Europe from the fourteenth through the sixteenth centuries. This course will examine the impact of the Protestant Reformation on the art of this era, and examine issues of style, patronage and iconography.

345 Baroque and Rococo Art

A survey of the art and architecture of western Europe in the seventeenth and eighteenth centuries. Emphasis will be given to issues of iconography, patronage, and style. This course fulfills the Fine Arts requirement in the core curriculum.

347 Golden Age of Spain

The sixteenth and seventeenth centuries were an age of great triumph for the kingdom of Spain. For a brief but glorious era, the Spanish empire was the most powerful force in the western world. Suffused in gold and riches from its colonies in the New World, Spanish culture prospered and flourished. It was during this intoxicating "Golden Age" that Spain's greatest artistic masterpieces were produced. This course explores the historical development of Spanish painting, sculpture, and architecture, focusing on the social, political, and religious issues that affected artistic production. Particular emphasis is placed on the key figures in the history of Spanish art: El Greco, Zubarán, Ribera, Velázquez, Murillo, Martínez Montañés, and Pedro Roldán. The art of Spain's New World colonies is also examined. This course fulfills the Fine Arts requirement in the core curriculum.

351 Romanticism to Impressionism

This course will investigate the history of European painting and sculpture from 1800 to 1880. It will consider the major trends of Neoclassicism, Romanticism, Realism, and Impressionism. It will also address art's response to and role in a European society marked by colonialism, industrialization, and the rise of urban mass culture. This course fulfills the Fine Arts requirement in the core curriculum.

352 Art in the United States

This course will investigate the history of the visual arts (primarily painting and sculpture) in the United States from 1776 to 1960. Artists to be considered include colonial portraitists; Romantic landscape painters; Neoclassical sculptors; Realist, Luminist, and Impressionist painters; artists associated with New York Dada and the Harlem Renaissance; Precisionists, Regionalists and Social Realists; and Abstract Expressionists. Participants

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will consider artists' responses to key historical developments such as the founding of the nation, westward expansion, the Civil War, industrialization, and emergence as a superpower. Several issues will run throughout the course: What is the relationship between the art of Euro-Americans and that of Europe? and that of Native Americans? Is there something "American" about American art? How do the visual arts reinforce or challenge our sense of American history and identity? This course fulfills the Fine Arts requirement in the core curriculum.

356 Modernism in European Art

Modernist artists strove to find a visual language of expression appropriate to their time; yet many contemporaries found their works incomprehensible, as do many people today. An open-minded and historically informed investigation of modern art helps to make sense of it. This course will explore the history of European painting and sculpture from 1880 to 1940. It will consider the many movements that characterized modernism, such as Post-Impressionism, Symbolism, Fauvism, Cubism, Futurism, Expressionism, Dada, Surrealism, and Constructivism. Issues to be addressed include the rejection of tradition, the development of abstraction, the impact of World War I and its aftermath, the influence of science and technology on art, and the fate of modernism under Hitler's and Stalin's regimes. Particular attention will be paid to the theoretical underpinnings of modern art. This course fulfills the Fine Arts requirement in the core curriculum.

361 Contemporary Art

This course will investigate the history of the visual arts since 1960, from Pop Art and Minimalism through recent trends. Art from around the globe will be considered, but primary emphasis will be placed on art in the United States. In addition to surveying the most significant artists, works, and trends, participants will consider issues such as: the commodification of art; the dematerialization of the art object; art's role in sociopolitical discourse; definitions of postmodernism; the legitimating institutions that comprise the "artworld;" and the relationship of aesthetic or critical theory to artistic creation. This course fulfills the Fine Arts requirement in the core curriculum.

391 Native American Art

An examination of the art of the Native Americans from the prehistoric period to the present within the context of distinct geographical regions: Woodlands, Plains, Plateau, Northwest, and Arctic. This course fulfills the Fine Arts and Human Diversity requirements of the core curriculum.

450 Modern Scandinavian Art History

The golden age of Scandinavian art history witnessed the establishment of national art academies and museums in the nineteenth century and the amassing of avant garde collections of European masters and non-Western art in the twentieth, along with the emergence of prize-winning Nordic designers in industrial settings. Although on the periphery of Europe, Scandinavian masters' art reflected contemporary styles but also displayed the austerity and fantasy of traditional folk designs which evolved out of the poverty and isolation of its largely rural population in the centuries before the modern era. The art of the five Nordic countries provides a model for examining the integration of ethnic folk art motifs with mainstream European styles as well as the acceptance of both fine and applied arts as equal in importance. In addition, indigenous art of the Sami and the Greenlandic Inuit enriched folk and international design motifs. The art of those artists who participated in the great emigration of Scandinavian peoples to North America in the late nineteenth into twentieth centuries will also be examined in relation to the influences of mother country and the American artistic mainstream.

Prerequisite: one ARTH course or permission of instructor

475, 476 Experiential Learning

2 credits

477, 478 Experiential Learning

These courses allow students to gain credit for certain non-classroom experiences. (These do not include studio art courses.) Normally open to junior and senior students. Permission of the department chair is required. Credit for experience is normally sought prior to its occurrence. See the complete description of these courses at the beginning of the "Curricula" section of this catalog.

Prerequisite: previous course or courses in art history

480 Senior Presentation and Paper

0 credit

During the senior year or earlier, art history majors are expected to write a major research paper with an abstract and to describe the results of their research in a short oral presentation. The purpose of this paper and presentation is to allow the student to demonstrate competency in art historical methodology and to gain some experience from presenting the results to a group of peers.

Normally, this requirement is done in lieu of the regular paper assignment for one of the upper-level courses. The topic should be chosen in consultation with the instructor of the course by the end of the second week of the semester and should be completed no later than six weeks prior to graduation. In addition, students will present a short oral report on their research to a departmental symposium to be held prior to graduation. Registration for 480 should be made during the semester that the student anticipates writing the paper. A mark of pass or fail will be assigned upon completion.

483, 484 Seminar

2 credits

485, 486 Seminar

See the description of these courses at the beginning of the "Curricula" section of this catalog.

Biology

487, 488 Topics	2 credits
489, 490 Topics	
The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html .	
491, 492 Research	2 credits
493, 494 Research	
See the description of these courses at the beginning of the "Curricula" section of this catalog.	
495, 496 Individual Study	2 credits
497, 498 Individual Study	
See the description of these courses at the beginning of the "Curricula" section of this catalog. Prerequisite: permission of the instructor or supervisor and previous work in art history	

Biology (BIOL)

Emms (chair), Chaplin, Cruise, DeJong, Ditty, Hartung, Manske, Nelson, Sherer, Steyermark, Verhoeven, Zimmer, Lewno, Schroeder, Wilson

Modern biology encompasses an extraordinary range of disciplines, from molecular genetics at one end of the spectrum to global ecology at the other. The biology curriculum at St. Thomas reflects this diversity, providing the breadth of experience that students need in their freshman and sophomore years with the depth that they value as juniors and seniors. Courses at all levels of the curriculum emphasize two fundamentals: mastering the essential material of each discipline and developing the intellectual skills needed to do science – asking the right questions, developing methods to answer these questions and critically evaluating the results of these investigations. As well as providing a broad-based liberal arts education in the biological sciences, the biology program serves as an excellent basis for students planning careers in academia, agricultural and forest science, bioinformatics and genomic research, biotechnology, biomedical research, conservation biology, environmental science, forestry and wildlife management, medicine, dentistry, and other health professions, and veterinary medicine.

A principle objective of the Department of Biology is to provide students with an excellent preparation for post-graduate pursuits. Graduates of the program command an understanding of core concepts in biology as well as an ability to design and implement studies of biological questions. The department evaluates its success in achieving these objectives using several tools, including assessments of seniors and alumni.

The curriculum for a major in biology is divided into three tiers, offering increasing levels of challenge, greater emphasis on independent work, and more extensive use of the primary literature. All biology majors take an introductory series of fourteen credits (201, 202, 204 and 206) in the first of these tiers. These core courses cover the central concepts of modern biology and provide a foundation for more specialized study at higher levels of the curriculum.

The second-tier courses (301-399) build on this foundation and offer a broad range of topics at an intermediate level, including research (391-392). Some second-tier courses may be taken by students prior to completion of BIOL 204 and/or 206.

All third-tier courses (401-498) require the completion of specific second-tier courses and involve advanced scholarship, independent research projects, and extensive use of the primary literature. Research courses (491-494) are available to students wishing to pursue in-depth studies in laboratory and/or field situations. Individual Study courses (495-498) allow for tutorial study in a specialized subject area of the student's choosing that is not otherwise available. Additional offerings in the form of Seminar (483-486) or Topics (487-490) courses are available from time to time. Courses numbered between 483-498 may, with approval of the department chair, be used to fulfill the 400-level requirement for the major.

Courses numbered 101-199 are intended for non-biology majors and cannot be used to fulfill either the major or minor requirements in biology. All of these courses fulfill the laboratory science requirement in the core curriculum.

Students planning to enter graduate school or a professional program after leaving St. Thomas should consult the entrance requirements of these programs while planning their choice of undergraduate courses. Students are strongly encouraged to consult with their biology adviser while making these plans.

Courses taken at other colleges by students already matriculated at St. Thomas may be credited toward the requirements of the major only with prior and explicit written approval of the departmental transcript evaluator. Approval will be granted only to reconcile schedule conflicts which otherwise would be unavoidable, to provide opportunities to enroll in appropriate courses that are not available in the St. Thomas curriculum, or to rectify problems arising from other special circumstances. These limitations apply to all requirements of the major, including courses in the allied requirements.

Transfer students desiring credit toward the major for work completed prior to matriculation at St. Thomas should contact the transcript evaluator in the Office of the University Registrar before seeking departmental approval.

Students receiving a 4 or 5 on the Biology Advanced Placement Exam or 5-7 on the International Baccalaureate exam will receive college credit for BIOL 101 (fulfills a natural science with laboratory course requirement), and the first core course of the majors' sequence may be waived, depending on laboratory experi-