University of Tennessee, Chattanooga   2025-2026 Undergraduate Catalog

Course Descriptions

<u>Contract All Courses</u> |

Courses certified as satisfying General Education Requirements are identified in the course title with a two letter category abbreviation. General Education categories are listed below.

<u>Writing and Communication (WC)</u>   <u>Humanities and Fine Arts (HF)</u>   <u>Natural Science (LL, LC & LB, NL)</u>

<u>Behavioral and Social Science (SB)</u>   <u>Quantitative Reasoning (QR)</u>   <u>Individual and Global Citizenship (CZ)</u>

History

HIST 4630 - Memories of WWII in East Asia

(3) Credit Hours

This course examines how different groups in various countries in East Asia and Southeast Asia have remembered the Pacific theater of WWII in the many years since its end. What is history? What is memory? How does history shape memory? How does memory shape history? This course will attempt to answer these questions by covering the history of the war and the postwar era with an emphasis on how postwar history shaped the memories of World War II in East Asia. How have different people in different social and temporal contexts remembered the war and understood its significance, such as through films and in museums? How have memories differed from group to group, such as feminists and ultranationalists? How have they changed over time? In what ways are the memories of the war made meaningful for the present? How do these memories influence relations between Japan and other countries in the postwar and contemporary periods? We will examine how these processes have unfolded primarily in East Asia, namely China, Japan, Korea, Okinawa, and Taiwan.

HIST 4810 - Debating the Middle East

(3) Credit Hours

This course introduces students to the history, politics, and debates that have shaped the modern Middle East. It does so through a close examination of two dominant Middle Eastern powers—Iran and Israel. In addition to achieving a greater understanding of those countries and of the Middle East more broadly, students who complete this course will learn how to synthesize that body of historical knowledge, to identify and utilize the elements of effective argumentation, and to use that knowledge to formulate cogent and compelling arguments of their own regarding the most important issues facing the countries of that region. The course's main themes and topics include the emergence of the modern Middle Eastern state system and the formation of national identity; the role of religion in politics and public life; the relationship between state and society; the nature of legitimate rule; and the role of the United States in the Middle East, especially in addressing issues of human rights in Iran and Israel-Palestine. Every 3-4 semesters.

HIST 4850 - Modern Iran

(3) Credit Hours

This course examines the history of Iran with a focus on the period from 1800 to the present. We will move chronologically through the history as we examine the major political, social, cultural, religious, and economic events and issues that have shaped modern Iran. We will also identify and examine the major themes that connect those events and issues to one another, including the bearing of history on the present; the nature and importance of Iranian national identity; the role and nature of Islam in Iranian society, culture, and politics; the impact (both direct and indirect) of outside forces and particularly of Western powers; the persistent though shifting chasm between state and society; and the movements for social and political change that have emerged from and sought to close that space. Every 3-4 semesters.

HIST 4920R - Internships in History

(1-3) Credit Hours

Designed to provide practical experience with the materials and problems encountered by history professionals outside the traditional academic setting. Placements will be arranged on an individual basis. Prerequisites: B average in history courses, and Department Head approval. Junior standing.

HIST 4995R - Departmental Thesis

(1-3) Credit Hours

A two-semester research or creative project resulting in a thesis under the supervision of a faculty member and with the approval of the Honors College. On demand. Prerequisites: Student must coordinate with Honors College to submit a Thesis Contract to get registered for this course. Restricted to Sophomore standing or higher.

HIST 4997R - Research

(1-9) Credit Hours

Enables students to conduct independent research. On demand. Prerequisites: Student must coordinate with a specific faculty member to complete the Research contract to get registered for the course. Restricted to Sophomore standing or higher.

HIST 4998R - Individual Studies

(1-9) Credit Hours

Enables students to study selected topics in depth. On demand. Prerequisites: Student must coordinate with a specific faculty member to complete the Individual Studies contract to get registered for the course. Restricted to Sophomore standing or higher.

HIST 4999R - Group Studies

(1-9) Credit Hours

Department may have additional prerequisite requirements. On demand.

Humanities

HUM 1999R - Special Projects

(1-9) Credit Hours

Individual and group studies. On demand. Prerequisites: Department Head approval.

HUM 2520 - African-American Literature (HF)

(3) Credit Hours

Readings will be largely fiction with supportive critical works and some poetry and drama to examine the development of African-American literature from the 1850's to the present. Figures may include Harper, Chestnutt, Washington, DuBois, Hurston, Wright, Ellison, Brooks, Baldwin, Walker, and Morrison. Spring semester. May be registered as ENGL 2520
. Credit not allowed in both HUM 2520 and ENGL 2520
.
General Education Category: Humanities and Fine Arts

HUM 2999R - Group Studies

(1-9) Credit Hours

On demand. Prerequisites: Department Head approval. Department may have additional prerequisite requirements.

HUM 3230 - African-American Slave Narrative Tradition (HF)

(3) Credit Hours

Study of slave narratives and subsequent literature influenced by them. On demand. Pre or Corequisites: ENGL 1020
 or Department Head approval. May be registered as ENGL 3230
. Credit not allowed in both HUM 3230 and ENGL 3230
.
General Education Category: Humanities and Fine Arts

HUM 3400R - Humanities Internship

(3) Credit Hours

An internship experience with specific organizations such as businesses, governmental agencies, social and charitable operations, etc. May be repeated once provided the internship experience is different.

HUM 3999R - Group Studies

(1-9) Credit Hours

On demand. Prerequisites: Department Head approval. Department may have additional prerequisite requirements.

HUM 3999R - Group Studies

(1-9) Credit Hours

On demand. Prerequisites: Department Head approval. Department may have additional prerequisite requirements.

HUM 4960 - Senior Capstone Project

(1) Credit Hours

Students in the Liberal Arts and International Studies concentrations will work independently on a reflective, scholarly account of their Humanities studies as a capstone to their programs. Students will submit a short reflective essay (5-7 pages) and an annotated bibliography (3-5 pages) of the course of study reading that has been most significant in integrating and unifying their chosen disciplines, as articulated in the initial Program Rationale. Every semester.

HUM 4995R - Departmental Thesis

(1-3) Credit Hours

A two-semester research or creative project resulting in a thesis under the supervision of a faculty member and with the approval of the Honors College. On demand. Prerequisites: Student must coordinate with Honors College to submit a Thesis Contract to get registered for this course. Restricted to Sophomore standing or higher.

HUM 4997R - Research

(1-9) Credit Hours

Enables students to conduct independent research. On demand. Prerequisites: Student must coordinate with a specific faculty member to complete the Research contract to get registered for the course. Restricted to Sophomore standing or higher.

HUM 4998R - Individual Studies

(1-9) Credit Hours

Enables students to study selected topics in depth. On demand. Prerequisites: Student must coordinate with a specific

faculty member to complete the Individual Studies contract to get registered for the course. Restricted to Sophomore standing or higher.

HUM 4999R - Group Studies

(1-9) Credit Hours

 Department may have additional prerequisite requirements. On demand.

Industrial Engineering

ENIE 4410 - Systems Operation Management

(3) Credit Hours

The detailed study of designing a product or service through the processes and systems of making and delivering the product, and controlling the operations. Fundamental coverage of the concepts of competitiveness, productivity, forecasting, supply chain management, inventory management and others are explored. Spring semester.Lecture 3 hours. Prerequisites: ENEE 2250
 or ENME 2240
 with a minimum grade of C or Department Head approval. Differential course fee will be assessed.

ENIE 4430 - Simulation and Modeling

(3) Credit Hours

Simulation of complex discrete-event systems with applications in industrial and service organizations. Introduction to modeling, random number generation, simulation design, and current simulation software package. Applications include a variety of industrial situations, including manufacturing and logistics simulation. Fall semester.Lecture 3 hours. Prerequisites: ENEE 2250
 or ENME 2240
 with minimum grades of C or Department Head approval. Differential course fee will be assessed.

ENIE 4570 - Quality Control and System Reliability

(3) Credit Hours

The design and analysis of quality systems. Fundamental coverage of statistical process control, quality control concepts, control charts, product specifications, process control, acceptance sampling systems, and other means of assurance widely used in many industries to improve product and service quality and to reduce costs. Introduction to reliability considerations and calculations. Fall semester.Lecture 3 hours. Prerequisites: ENCE 2220
 with a minimum grade of C or DATA 2140
 and MATH 1830
 or 1910 with minimum grades of C or Department Head approval. Laboratory/studio course fee will be assessed. Differential course fee will be assessed.

ENIE 4580 - Facilities Planning

(3) Credit Hours

Methods, techniques, and computer algorithms for planning facility layout, facility location, and activities and equipment planning are presented. Scheduling strategies that affect facility layout including push vs. pull operation, batch sizes, and dispatching rules are also discussed. Cellular technology, material handling, facility planning data collection methods, process flow-charting, and simulation of manufacturing facility layout are demonstrated. Fall semester.Lecture 3 hours. Prerequisites: ENEE 2250
 or ENME 2240
 with minimum grades of C or Department Head approval. Laboratory/studio course fee will be assessed. Differential course fee will be assessed.

ENIE 4610 - Engineering Information Systems

(3) Credit Hours

Introduction to and application of the basic concepts, design, development, and uses of engineering information systems. Topics include architecture and components of engineering information systems, problem analysis, modeling, design, development, and system maintenance. Theoretical and practical issues related to the manipulation of engineering information and design of queries are discussed. Examples of engineering information systems are provided. Course culminates with a project. Spring semester.Lecture: 3 hours; laboratory work included. Prerequisites: ENEE 2250
 or ENME 2240
 with minimum grade of C or Department Head approval. Laboratory/studio course fee will be assessed. Differential course fee will be assessed.

Integrated Studies

INTS 1030 - Introduction to Community Engagement

(1) Credit Hours

This introductory course provides undergraduate students with opportunities to engage in service-learning experiences. Students will define and reflect why community engagement is important on a personal and professional level. Working with community partners in the Greater Chattanooga area and the surrounding region, students will complete volunteer activities and service-learning projects aligned with their interests and/or majors. Students must complete 15 hours of approved volunteer activities. Fall semester.

INTS 1110 - Science of Sustainability (NL)

(3) Credit Hours

This course provides an introduction to the environmental, social, economic, and human dimensions of sustainability. Topics covered include the built environment (green buildings), energy sustainability, mass transportation, waste management, water sustainability, food production, global climate change, and green business/entrepreneurship. Every semester. Lecture 3 hours.
General Education Category: Natural Science Non-Lab

INTS 1200 - Medical Assistant Prep

(5) Credit Hours

The Medical Assistant Prep class prepares students to function as professionals in multiple healthcare environments. This course will provide the training and skills required to participate in the National Healthcareer Association (NHA) Certified Clinical Medical Assistant (CCMA) national exam. The course does not guarantee certification, though it is preparatory for certification. Every semester.

INTS 1999R - Special Projects

(1-9) Credit Hours

Individual or group projects. On demand. Prerequisites: Department Head approval.

INTS 2010R - Lower Division Portfolio Assessment

(1-24) Credit Hours

Lower division college credit awarded by the assessment of experiential learning gained through work experience and training. Satisfactory/No Credit.

INTS 2999R - Group Studies

(1-9) Credit Hours

On demand. Prerequisites: Department Head approval. Department may have additional prerequisite requirements.

INTS 3010 - Prior Learning Portfolio Development

(3) Credit Hours

The course helps students to evaluate and reflect on the process/product of documentation of work-place learning and assessment of their mastery of competencies in areas of specialization related to their degree majors. Prerequisites:
ENGL 1010
 and ENGL 1020

or UHON 1010

and UHON 1020

or Placement, and five years of prior work experiences. Satisfactory/No Credit.

INTS 3030 - Advanced Community Engagement

(3) Credit Hours

Combined with volunteer and community engagement opportunities, the course addresses a series of social issues that lead to poverty and homelessness including food insecurity, lack of affordable housing, sexual and intimate partner violence; inadequate access to quality education and health care; sexual abuse and broken families. Focus will be placed on examining the impact on diverse and disparate populations, using the academic literature, to support efforts in reducing or preventing poverty and homelessness. Spring semester. Prerequisites: INTS 1030 and Social and Behavioral Science General Education course or Department Head approval.

INTS 3200 - MedPrep Multidisciplinary Review

(3) Credit Hours

This course provides a multidisciplinary review of material relevant to the MCAT and other health admissions for graduate school. Topics will vary but include sciences, social sciences, and critical analysis. Spring semester. Pre or Corequisites: CHEM 4510
. Junior or Senior standing. Satisfactory/No Credit.

INTS 3999R - Group Studies

(1-9) Credit Hours

On demand. Prerequisites: Department Head approval. Department may have additional prerequisite requirements.

INTS 4010R - Upper Division Portfolio Assessment

(1-24) Credit Hours

Upper division college credit awarded by the assessment of experiential learning gained through work experience and training. Satisfactory/No Credit.

INTS 4030 - Community Engagement Portfolio

(3) Credit Hours

Integration of theory, practice, and community engagement through the development of a digital portfolio. Demonstration of activities documenting real-world application through service learning. Spring semester. Prerequisites: INTS 1030
and INTS 3030
with a grade of C or better, and Internship or Department Head approval. Senior standing.

INTS 4700 - Professional Development Portfolio

(3) Credit Hours

This course is designed to guide students as they prepare for their professional career. Career planning and professional development practices will be explored. Students will be required to communicate in written, digital, and oral formats to demonstrate principles of professional communication. Course culminates in the development of a professional portfolio. Prerequisites: ENGL 1020
 or equivalent or Department Head approval. Junior standing.

INTS 4810R - Integrated Studies Internship

(3) Credit Hours

Supervised working experience in a professional situation. Maximum 6 hours credit. Every semester. BIS major and approval of Program Director in the semester preceding enrollment.

INTS 4900 - Integrated Studies Senior Portfolio

(3) Credit Hours

Senior capstone course for Integrated Studies majors. Integration and application of knowledge, theory, and concepts of two or three disciplines, demonstrated through the development of a reflective portfolio of student work. On demand. Senior standing, final semester.

INTS 4995R - Departmental Thesis

(1-3) Credit Hours

A two-semester research or creative project resulting in a thesis under the supervision of a faculty member and with the approval of the Honors College. On demand. Prerequisites: Student must coordinate with Honors College to submit a Thesis Contract to get registered for this course. Restricted to Sophomore standing or higher.

INTS 4997R - Research

(1-9) Credit Hours

Department may have additional prerequisite requirements. Student must submit an Individual Studies/Research Contract to the Registrar's Office at the time of registration. Every semester. Prerequisites: Department Head approval.

INTS 4998R - Individual Studies

(1-9) Credit Hours

Enables students to study selected topics in depth. On demand. Prerequisites: Student must coordinate with a specific

faculty member to complete the Individual Studies contract to get registered for the course. Restricted to Sophomore standing or higher.

INTS 4999R - Group Studies

(1-9) Credit Hours

Department may have additional prerequisite requirements. On demand.

Interior Architecture

IARC 1000 - Design Fundamentals

(3) Credit Hours

A study of design as related to the individual and his or her environment; review of the basic theories including the elements and principles of design with emphasis on using design to solve utilitarian as well as aesthetic problems. Studio 5 hours. Open to Interior Architecture majors or Department Head approval. Laboratory/studio course fee will be assessed.

Effective Spring 2026.

IARC 1050 - Volume, Space, and Form

(3) Credit Hours

Develop techniques of volumetric study providing emphasis on design ideation through sketching and models. Studio 5 hours. Open to Interior Architecture majors or Department Head approval. Laboratory/studio course fee will be assessed.

Effective Spring 2026.

IARC 1100 - Architectural Drafting

(3) Credit Hours

An introduction to architectural drafting including the study of symbols and drafting techniques necessary to the understanding and drawing of architectural plans. Studio 5 hours. Open to Interior Architecture majors or Department Head approval. Laboratory/studio course fee will be assessed.

Effective Spring 2026.

IARC 1150 - Color Systems

(3) Credit Hours

Experimentation in color systems and their use in interior design; analysis of psychological impact of color systems on

people; correlation of color scheme to total room design; development of skills for various media and tools used in color planning. Studio 5 hours. Open to Interior Architecture majors or Department Head approval. Laboratory/studio course fee will be assessed.

Effective Spring 2026.

IARC 1200 - Survey of Architecture (HF)

(3) Credit Hours

An overview of architectural throughout history. Designed to heighten the student's perception and appreciation of the role architecture has played in the development of society and culture. On demand.
General Education Category: Humanities and Fine Arts

IARC 1900R - Interior Design Study Tour

(3) Credit Hours

A field study of design and culture. On demand. Laboratory/studio course fee will be assessed.

IARC 1999R - Special Projects

(1-9) Credit Hours

Individual or group projects. Maximum credit 4 hours. On demand. Prerequisites: Department Head approval.

IARC 2000 - Space Planning

(3) Credit Hours

Application of space planning techniques in small scale commercial and residential design; emphasis placed on human factors. Studio 5 hours. Corequisites: IARC 2050
 or Department Head approval.Acceptance into Interior Architecture major or Department Head approval. Laboratory/studio course fee will be assessed.

IARC 2050 - Ideation and Visualization

(3) Credit Hours

An introduction to techniques for visual communication and idea generation that supports the design process.Studio 5 hours.Acceptance into Interior Architecture major or Department Head approval.Laboratory/studio course fee will be assessed.

IARC 2100 - Kitchen and Bath Planning

(3) Credit Hours

A study of the aesthetic and technical elements of kitchen and bath design with emphasis on NKBA standards. Studio 5 hours. Prerequisites: IARC 2000
 and IARC 2050
 with grades of C or better or Department Head approval. Corequisites: IARC 2220
 or Department Head approval. Laboratory/studio course fee will be assessed.

IARC 2150 - Computer Applications in Design

(3) Credit Hours

Introduction to digital software applications for the creation of graphic presentations, portfolios, and digital illustrations. Lecture 3 hours. Acceptance into Interior Architecture major or Department Head approval. Laboratory/studio course fee will be assessed.

IARC 2200 - Interior Materials

(3) Credit Hours

A study of basic components used in the art of interior design: wall treatments, window treatments, floor coverings, fabric selections, furniture selections. Prerequisites: Acceptance into the Interior Architecture major or Department Head approval.

IARC 2210 - Interior Textiles

(3) Credit Hours

.A study of the fundamental properties found in textile fibers, yarns, weaves and finishes, and the application of these properties to interior finishes. Prerequisites: Acceptance into the Interior Architecture major or Department Head approval.

IARC 2220 - Interior Systems Design

(3) Credit Hours

The study of illumination principles, design criteria, and systems applied to architectural interiors.

 Studio 5 hours. Prerequisites: IARC 2000
 with a grade of C or better or Department Head approval or better or Department Head approval. Laboratory/studio course fee will be assessed.

IARC 2950 - Designer Resources

(1) Credit Hours

An introduction to the Interior Design profession through various market sectors, design practices and design professionals. Prerequisites: Department Head approval. Laboratory/studio course fee will be assessed.

IARC 2999R - Group Studies

(1-9) Credit Hours

On demand. Prerequisites: Department Head approval. Department may have additional prerequisite requirements.

IARC 3000 - Commercial Interiors I

(3) Credit Hours

Development of creative ideas in commercial design projects which integrate interior design elements to achieve predetermined goals. Studio 5 hours. Prerequisites: IARC 2100
, IARC 2150
, IARC 2210
 and IARC 2220
 with grades of C or better or Department Head approval. Corequisites: IARC 3220
 or Department Head approval. Laboratory/studio course fee will be assessed.

IARC 3050 - Construction Documents

(3) Credit Hours

An overview and execution of working drawings with an emphasis on interior environments, building systems, and construction details for fabrication and installation. Studio 5 hours. Corequisites: IARC 3100
 or Department Head approval. Laboratory/studio course fee will be assessed.

IARC 3090 - Computer-Aided Design I

(3) Credit Hours

Introduction to the fundamentals of two dimensional (2d) computer drafting using AutoCad. Develop the requisite skills for implementing various basic commands needed to create presentation drawings, working drawings and details. Studio 5 hours. Prerequisites: IARC 1100
 with a grade of C or better or Department Head approval. Laboratory/studio course fee will be assessed.

IARC 3100 - Residential Interiors

(3) Credit Hours

Advanced study of residential space planning criteria and the selection of furnishings, equipment, materials, and finishes for the residential market; design considerations for special populations (e.g., disabled, aged) explored. Studio 5 hours. Prerequisites: IARC 3000
and IARC 3150
with grades of C or better or Department Head approval. Laboratory/studio course fee will be assessed.

IARC 3150 - Building Information Modeling

(3) Credit Hours

Introduction to REVIT developing two dimensional (2D) and three dimensional (3D) computer drafting skills and the creation of construction documents and presentation drawings.Studio 5 hours.Prerequisites: IARC 1100
and IARC 2100
with grades of C or better or Department Head approval. Laboratory/studio course fee will be assessed.

IARC 3200 - History of Design I

(3) Credit Hours

The study of design characteristics of historical architecture, interiors, furniture and decorative arts including the dominant, socio-economic influences leading to the development of each style – Egyptian to Victorian. Prerequisites: Acceptance into the Interior Architecture major or Department Head approval.

IARC 3210 - History of Design II

(3) Credit Hours

The study of design characteristics of historical architecture, interiors, furniture and decorative arts including effects of the Industrial Revolution - Victorian to Modern. Prerequisites: IARC 3200
with a grade of C or better or Department Head approval.

IARC 3220 - Codes and Specifications

(3) Credit Hours

The study of the application of laws, codes, regulations, standards and practice that protect the health, safety and welfare of the public including specification guidelines. Prerequisites: IARC 2100
with a grade of C or better or Department Head approval.

IARC 3230 - History of American Domestic Architecture

(3) Credit Hours

A comprehensive survey, period feature-by-feature, of the styles that have had the greatest impact on the development of American architecture.

IARC 3500 - Introduction to Historic Preservation

(3) Credit Hours

Introduction to the preservation of the build environment, including the theories, terminology, and history of historic preservation. Every semester. Lecture 3 hours. Laboratory/studio course fee will be assessed.

IARC 3510 - Field Documentation of Historic Buildings

(3) Credit Hours

Documentation of historic buildings to complete a historic structures report including research, photographs, and measured drawings.Fall and Spring semesters. Studio 5 hours.Prerequisites: IARC 3500 or Department Head approval.Laboratory/studio course fee will be assessed.

IARC 3900 - Applied Professionalism

(3) Credit Hours

Overview of accepted standards of design practice, design responsibility and professional ethics that promote successful long term career development. Open to Interior Architecture majors only.

IARC 3999R - Group Studies

(1-9) Credit Hours

On demand. Prerequisites: Department Head approval. Department may have additional prerequisite requirements.

IARC 4000 - Commercial Interiors II

(3) Credit Hours

Advanced integration of Interior Design elements in commercial interior spaces as they relate to large-scale projects. Studio 5 hours. Prerequisites: IARC 3000 and IARC 3150 with grades of C or better or Department Head approval. Laboratory/studio course fee will be assessed.

IARC 4050 - Responsive Design

(3) Credit Hours

Development of creative ideas in response to evolving global issues concerning an interior designer's ability to affect the health, safety and welfare of the public, as well as the environment. Studio 5 hours. Prerequisites: IARC 3100 and IARC 3220 with grades of C or better or Department Head approval. Laboratory/studio course fee will be assessed.

IARC 4100 - Senior Thesis I

(3) Credit Hours

Part I of Senior Thesis project. Students locate a building and choose a topic for research that leads to the creation of a design program and preliminary drawings.Studio 5 hours.Prerequisites: IARC 3100 with a grade of C or better or Department Head approval. Laboratory/studio course fee will be assessed.

IARC 4150 - Senior Thesis II

(3) Credit Hours

Part II of Senior Thesis project. Students finalize a design project that meets the criteria set forth in the program developed in IARC 4100
. The design project is a culmination of all their acquired knowledge, skills, processes and theories of interior design. The project requirements include construction documents and a formal oral and visual presentation. Studio 5 hours. Prerequisites: IARC 4100 with a grade of C or better or Department Head approval. Laboratory/studio course fee will be assessed.

IARC 4200 - Senior Seminar

(3) Credit Hours

Seminar on the practice of interior design within a professional context including development and completion of tools to gain professional employment.Prerequisites: IARC 3100 with a grade of C or better or Department Head approval.

IARC 4210 - Business Practices

(3) Credit Hours

General characteristics of management terminology and procedures in the interior design field with a major emphasis placed on the ability to systematize and control the flow of operations, money, materials, and commitments. Prerequisites: IARC 4200 with a grade of C or better or Department Head approval. Laboratory/studio course fee will be assessed.

 Effective Spring 2026.

IARC 4300R - Interior Design Advocacy

(1) Credit Hours

A focus on Interior Design Advocacy and the development of advocates for the profession of interior design. Prerequisites: IARC 3900
 or Department Head approval.

IARC 4310R - Interior Design Leadership and Planning

(1) Credit Hours

A focus on core leadership skills and planning strategies for the interior design profession.

IARC 4590 - Historic Preservation Field Practicum

(3) Credit Hours

Hands-on field experience in historic preservation. Prerequisites: IARC 3500
 or Department Head approval.

IARC 4900R - Internship

(3) Credit Hours

Directed field experience providing a full-time work experience that gives students a better understanding of the real Working environment. Prerequisites: IARC 4150
, IARC 4200
 and IARC 4210
 all with grades of C or better or Department Head approval.

IARC 4995R - Departmental Thesis

(1-3) Credit Hours

A two-semester research or creative project resulting in a thesis under the supervision of a faculty member and with the approval of the Honors College. On demand. Prerequisites: Student must coordinate with Honors College to submit a Thesis Contract to get registered for this course. Restricted to Sophomore standing or higher.

IARC 4997R - Research

(1-9) Credit Hours

Enables students to conduct independent research. On demand. Prerequisites: Student must coordinate with a specific faculty member to complete the Research contract to get registered for the course. Restricted to Sophomore standing or higher.

IARC 4998R - Individual Studies

(1-9) Credit Hours

Enables students to study selected topics in depth. On demand. Prerequisites: Student must coordinate with a specific faculty member to complete the Individual Studies contract to get registered for the course. Restricted to Sophomore standing or higher.

JARC 4999R - Group Studies

(1-9) Credit Hours

Department may have additional prerequisite requirements. On demand.

IT Cybersecurity

CYIT 3000 - OS Fundamentals

(3) Credit Hours

The theory, operation, and application of operating systems are examined in this course. Concepts covered include process management, memory management, deadlocks, file system, task scheduling, access control/security, threading. Operating systems include Linux, Windows, and similar operating environments. Open to BAS - IT Cyber Security majors only. Differential course fee will be assessed.

CYIT 3100 - Secure Programming Fundamentals

(3) Credit Hours

This is an introduction to programming focused on problem solving, algorithm, and design. Program structure and constructs covered include variables, decisions, loops, arrays, and procedural vs object oriented. Students will review and implement examples of secure coding standards such as ISO 27001/27002, OWASP, NIST SSDF to develop programs that are less vulnerable to attacks. Open to BAS - IT Cyber Security majors only. Differential course fee will be assessed.

CYIT 3110 - Scripting, Automation, and Orchestration

(3) Credit Hours

This course examines the role of Command Line Interfaces (CLIs) and similar text-based interpreted languages in providing methods for reducing administrative overhead and performing complex actions. Beginning with manual scripting, then automation with triggered actions, and leading to orchestration of multiple automated processes. The course is intended to provide a solid foundation for more advanced applications. The course will examine Operating System (OS) scripting environments such as the Bash shell in Linux or PowerShell in Microsoft Windows, and other automation scripting languages such as Python, JavaScript, Ruby or similarly appropriate choices. Orchestration tools such as Kubernetes, Ansible, Puppet, Terraform, AWS Cloud formation among others will be examined as demonstrations of advanced automation. Prerequisites: CYIT 3100
 with a grade of C or better. Open to BAS - IT Cyber Security majors only. Differential course fee will be assessed.

CYIT 3120 - Data Structures, File and DB Processing

(3) Credit Hours

A study of algorithms and techniques used in computing problems for processing of data through data structures for processing list, recursion, stacks, trees, queues, sequential, direct, indexed and hashed files. It also Includes sorting and searching techniques for memory, files, and databases. Prerequisites: CYIT 3110
 with a grade of C or better. Open to BAS - IT Cyber Security majors only. Differential course fee will be assessed.

CYIT 3130 - Secure Web and Mobile Development

(3) Credit Hours

This course will focus on the methods, technologies, and concepts used to secure frontend systems in mobile and web applications, backend systems, databases, Web servers, and the communication channels between them. the course will instruct how to create a secure environment within local, enterprise-level network, and cloud-based systems through integration of software engineering, systems programming, communications, policy management, authentication, and other relevant areas. Prerequisites: CYIT 3120
 with a grade of C or better. Open to BAS - IT Cyber Security majors only. Differential course fee will be assessed.

CYIT 3200 - Server Administration

(3) Credit Hours

This is an introduction to the process of choosing, installing, configuring and maintaining client/server systems. Microsoft, Linux and/or any other relevant platforms will be examined from a systems administration perspective. Topics include user management, file systems, network domains and associated domain management, logging, and printing. Students will practice writing scripts for performing maintenance and configuration tasks. Prerequisites: CYIT 3000
 with a grade of C or better. Open to BAS - IT Cyber Security majors only. Differential course fee will be assessed.

CYIT 3300 - Network Administration

(3) Credit Hours

The course explores topics in practical administration of modern networking technologies, including the study of different platforms, command & control systems, shared resources and administration. Security methodologies, common network operating systems (NOSs), filesystems, services, and the ethical issues of implementing modern security methodologies are also examined. Prerequisites: CYIT 3000
 with a grade of C or better. Open to BAS - IT Cyber Security majors only. Differential course fee will be assessed.

CYIT 3400 - Cloud Administration

(3) Credit Hours

The course introduces the user interfaces, systems, and services of cloud platforms such as Amazon Web Services (AWS) and Microsoft Azure. The course will cover key aspects of the selected platform or platforms such as policy creation,

Threat Protection, securing Infrastructure as a Service (IaaS or similar *X*aaS products) and other key features. The course will provide examples and hands-on practice on how to enforce policy on any one or combination of granular factors such as service, category, user, group, device, content, data loss prevention (DLP) profile, and more. Prerequisites: CYIT 3000
 with a grade of C or better. Open to BAS - IT Cyber Security majors only. Differential course fee will be assessed.

CYIT 3500 - Database Administration and Design

(3) Credit Hours

The course will focus on database architectures to explore database installations, creation of databases, database instances, network environments, storage structures, user security, concurrency control mechanisms, database auditing and maintenance, performance management, backup and recovery concepts, moving data, and database restart. Design concepts, use of SQL statements for queries and table management, ER modeling and diagrams, stored procedures, and normalization will also be covered for relational, hierarchical, and no-SQL databases. Prerequisites: CYIT 3200
, CYIT 3300
, and CYIT 3400
 with a grade of C or better. Open to BAS - IT Cyber Security majors only. Differential course fee will be assessed.

CYIT 4000 - Principles of Project Management

(3) Credit Hours

This course will cover Project Management techniques used in the Waterfall and Agile methodologies for the definition, specification, design, implementation and testing of technical projects. The course will include team exercises to develop soft skills to identify and define the requirements, planning, communication, negotiation, and conflict resolution. Prerequisites: CYIT 3120
, CYIT 4200
, and CYIT 4500
 with a grade of C or better. Open to BAS - IT Cyber Security majors only. Differential course fee will be assessed.

CYIT 4100 - Info Sec Regulations, Policies, and Ethics

(3) Credit Hours

This course focuses on information security, integrity, and privacy techniques. Topics include the nature and challenges of computer security. Review the role and development of enterprise security policies, audits, methodologies, technologies, and best practices for system security through assurance and vulnerability analysis and intrusion detection. It also examines the ethical and social issues between the law and the moral dilemmas created by computer technology. Open to BAS - IT Cyber Security majors only. Differential course fee will be assessed.

CYIT 4200 - Server, Network, and Cloud Security

(3) Credit Hours

This course will explore security concepts as applied in systems operations (sysops) involving at the enterprise server, network, and cloud level as a unified operating environment. Tools such as intrusion prevention and intrusion detection systems will be examined. Topics will include Infrastructure/Platform/Software as a Service (I/P/SaaS) security

concepts, risk assessment differences of enterprise and cloud-based systems, policies, sysops configuration standards, implementation, rule creation, and filtering. Prerequisites: CYIT 3200
, CYIT 3300
, and CYIT 3400
 with a grade of C or better. Open to BAS - IT Cyber Security majors only. Differential course fee will be assessed.

CYIT 4300 - Emerging Technologies and Issues

(3) Credit Hours

This course will cover emerging IT and Cybersecurity technologies and issues such as embedded systems, IoT, blockchain, malware, and zero-day vulnerabilities. Topics covered will changed according to current threats, vulnerabilities, and industry requirements. Students will assess the security threat level and potential business, economic, and social impacts. Prerequisites: CYIT 4100
 with a grade of C or better. Open to BAS - IT Cyber Security majors only. Differential course fee will be assessed.

Contract All Courses |