

University of Tennessee, Chattanooga

2025-2026 Undergraduate Catalog

Course Descriptions

[Contract All Courses](#) |

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.

[Writing and Communication \(WC\)](#) [Humanities and Fine Arts \(HF\)](#) [Natural Science \(LL, LC & LB, NL\)](#)

[Behavioral and Social Science \(SB\)](#) [Quantitative Reasoning \(QR\)](#) [Individual and Global Citizenship \(CZ\)](#)

Art

ART 2080 - Painting II

(3) Credit Hours

Building on the foundation of Painting I, students will learn basic construction of painting supports and work with approaches to representation and abstraction. Painting problems will promote experimentation and interpretation as students work to generate personal content and individual research priorities. Lectures, readings, writing, and discussions will supplement studio problems. Courses are sequential for art majors; [ART 2070](#) is prerequisite to ART 2080. Studio hours 6. Prerequisites: [ART 1010](#)

, [ART 1050](#)

, [ART 1060](#)

or Department Head approval.

ART 2140 - The History of Art from Prehistory to 1400 CE (HF)

(3) Credit Hours

This course surveys the art and architecture of global civilizations between 40,000 BCE and 1400 CE. Beginning with prehistoric human production and concluding with the emergence of transatlantic trade and colonialism, the course examines important achievements in sculpture, architecture, painting, and material culture as defined by current art historical and archaeological scholarship. The course emphasizes transregional dialogues and influences between such cultures as ancient Mesopotamia, Egypt, Greece, Rome, China, Japan, Byzantium, Africa, North and South America, and medieval Europe. Focus is divided between visual study and critical interpretation, with an emphasis placed on how works of art fit into their historical, religious, socio-political, and cultural contexts. This course is designed to heighten perception, appreciation, and enjoyment of the visual arts, and introduce foundational ideas such as the formal elements, design principles, and other significant technical factors. Fall semester.

General Education Category: Humanities and Fine Arts

ART 2150 - The History of Art from 1400 CE to the Present (HF)

(3) Credit Hours

This course surveys the art, architecture, and artistic movements developed between 1400 CE and the present day. Beginning with the emergence of transatlantic trade and colonialism and concluding with the advent of the contemporary global art market, this course examines important achievements in painting, sculpture, architecture, and material culture as defined by current art historical scholarship. The course emphasizes both the individual cultural production and critical global dialogues of art from Renaissance Europe, the Ottoman Empire, India, North and South America, Asia, Africa, the United States, and other geographic regions. Focus is divided between visual study and critical interpretation, the latter emphasizing how works of art fit into their historical, religious, political, social, and/or cultural contexts. The course also foregrounds the concepts and ideas that led to the development of contemporary art. This course is designed to heighten perception, appreciation, and enjoyment of the visual arts, and introduce foundational ideas such as the formal elements, design principles, and other significant technical factors. Spring semester.

General Education Category: Humanities and Fine Arts

ART 2230 - Survey of Sculptural Practice

(3) Credit Hours

Survey of the development of sculptural practice in relationship to culture. This course includes discussions, readings, presentations, field trips, and writing on topics that range from the historical role of the object to emerging forms of art making. Spring semester. Studio hours 6. Prerequisites: [ART 2140](#) or Department Head approval.

ART 2330 - Sculpture I

(3) Credit Hours

Introduction to the concepts, techniques, and processes of sculpture in a variety of traditional and nontraditional media. Fall semester. Studio hours 6. Prerequisites: [ART 1020](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 2601 - Visual Literacy for Design

(3) Credit Hours

Semiotics as a foundation for the concepts and methodologies central to the practice of design. Emphasis on shaping meaning, image making, and connecting form to concept. Fall semester. Studio hours 6. Prerequisites: [ART 1010](#), [ART 1060](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 2611 - Introduction to Typography

(3) Credit Hours

An introduction to typographic form and communication. Emphasis on formal and conceptual frameworks that shape the use of typography in visual communication. Spring semester. Studio hours 6. Prerequisites: [ART 1010](#), [ART 1060](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 2810 - Photography I

(3) Credit Hours

Introductory study of the fundamental technical, aesthetic and theoretical concepts of photography as an expressive medium. Emphasis is placed on establishing an awareness of photographic seeing, composition, and the fundamentals of camera operation. Every semester. Studio hours 6. Prerequisites: [ART 1010](#), [ART 1020](#), [ART 1050](#), and [ART 1060](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 2820 - Photography II

(3) Credit Hours

Intermediate study of the technical, aesthetic and theoretical concepts of photography as an expressive medium. Students develop skills in the critical analysis of photographs, and learn to develop independent projects. Spring semester. Studio hours 6. Prerequisites: [ART 2810](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 2830 - Media Art I

(3) Credit Hours

Introduction to the fundamental technical, aesthetic and theoretical concepts of video and sound as related to the creative potential of the moving image. Spring semester. Studio hours 6. Prerequisites: [ART 1010](#), [ART 1020](#), [ART 1050](#), and [ART 1060](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 2840 - Survey of Time-based Art

(3) Credit Hours

Survey of the origin and development in time-based media art and its relationship to our contemporary culture. Through presentations, discussions, field trips, readings, and writing this class will impart a greater understanding of the history

of and contemporary issues in photography, film, video, performance art, installation, sound, web, and electronic art. Fall semester. This course will not fulfill the upper-division art history requirement. Studio hours 6. Prerequisites: [ART 1010](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 2900R - Portfolio Review

(0) Credit Hours

Participation in a portfolio review of individual student work for the sophomore and transfer student. Written and oral presentation required. The review process will be used to evaluate an individual's studio progress and assist in the identification of an area of concentration. Spring semester. Prerequisites: [ART 1010](#), [ART 1020](#), [ART 1050](#), [ART 1060](#) and [ART 2140](#) or Department Head approval. Satisfactory/No Credit.

ART 2999R - Group Studies

(1-9) Credit Hours

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

ART 3010 - Art Structure

(3) Credit Hours

An exploration of the visual arts to enhance critical perception and appreciation of art with experiences in describing, analyzing and comparing various examples. Involves studio experiences in painting, drawing, sculpture, and other media as well as written work in art history and contemporary theory and criticism. Every semester. For the non-art major. Laboratory/studio course fee will be assessed.

ART 3070 - Painting and Drawing Studio I

(3) Credit Hours

The first of a four-semester advanced studio and seminar sequence for students pursuing the BFA in Painting and Drawing. Students work to develop an independent studio practice through self-directed creative research. Group critiques and individual studio visits with the instructor provide a critical framework. Lectures and seminars offer opportunities for group discussion of required readings, research, and relevant historical and contemporary issues in painting. Studio hours 6. Courses are sequential for Art majors; ART 3070 is prerequisite to [ART 3080](#). ART 3070 Fall semester; [ART 3080](#) Spring semester. Prerequisites: [ART 2900R](#), [ART 2080](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 3080 - Painting and Drawing Studio II

(3) Credit Hours

The second of a four-semester advanced studio and seminar sequence for students pursuing the BFA in Painting and Drawing. Students work to develop an independent studio practice through self-directed creative research. Group critiques and individual studio visits with the instructor provide a critical framework. Lectures and seminars offer opportunities for group discussion of required readings, research, and relevant historical and contemporary issues in painting. Studio hours 6. Courses are sequential for Art majors; [ART 3070](#)

is prerequisite to ART 3080. [ART 3070](#)

Fall semester; ART 3080 Spring semester. Prerequisites: [ART 2900R](#)

, [ART 2080](#)

or Department Head approval. Laboratory/studio course fee will be assessed.

ART 3100 - Critical Theory for the Visual Artist

(3) Credit Hours

An introduction to critical theory from the perspective of artistic practice. An examination of the origins of contemporary critical discourse, as well as the numerous schools of thought known as postmodernism. The student will acquire a framework for understanding and engaging contemporary art, and will gain an appreciation for the potential of theory to inform artistic research. Fall semester. Prerequisites: [ART 2150](#)

or Department Head approval.

ART 3120 - Figure Painting

(3) Credit Hours

Various approaches to representing the human form in painting through work from nude and clothed models, and from personally generated source material. The student's individual approach and sensibility is encouraged to allow for broad interpretation of painting problems. A range of historical and contemporary artists is introduced with an emphasis on the figure in contemporary painting. Readings, lectures, and discussions will supplement studio problems. Studio hours 6. Prerequisites: [ART 2900R](#)

, [ART 2080](#)

or Department Head approval. Laboratory/studio course fee will be assessed.

ART 3130 - African American Art from the Middle Passage to Black Lives Matter

(3) Credit Hours

This course surveys the cultural production of African American artists from the mid-eighteenth century to the present day. It examines the range of visual media—including, but not limited to, paintings, decorative arts, sculptures, prints, photographs, clothing, and performance—produced by Black artists from the time of enslavement through the Black Lives Matter movement. Particular attention is given to the styles, aesthetics, social contexts, political motivations, ideological underpinnings, and gendered nature of this history. This course prioritizes the production of peoples of African descent within the United States, although depictions of Black subjects by white Euro-American artists are occasionally considered for contextual purposes. It also explores how the field of “African American art history” has been defined in relation to Euro-American cultural history and investigates both the advantages and disadvantages of this

formation. This class is designed to advance students' visual acuteness, cross-cultural awareness, critical thinking, application, and skills of writing and interpretation. Every other Fall semester.

ART 3230 - Materials and Procedures in Art Education I

(3) Credit Hours

Exploratory activities designed to acquaint the prospective teacher of art with a representative range of art materials, art history methodology, and aesthetic criticism appropriate for the elementary and secondary classroom. On demand. Laboratory/studio course fee will be assessed.

ART 3240 - Materials and Procedures in Art Education II

(3) Credit Hours

Exploratory activities designed to acquaint the prospective teacher of art with a representative range of art materials, art history methodology, and aesthetic criticism appropriate for the elementary and secondary classroom. On demand. Laboratory/studio course fee will be assessed.

ART 3360 - Sculpture II

(3) Credit Hours

Intermediate study of the concepts, techniques, and processes of contemporary sculpture in a variety of traditional and nontraditional media. Spring semester. Studio hours 6. Prerequisites: [ART 2330](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 3370 - Sculpture Studio I

(3) Credit Hours

Seminar and studio for the exploration of contemporary concepts and media with an emphasis on developing a strong personal vision and conceptual intent. Courses are sequential; ART 3370 or Department Head approval is prerequisite to [ART 3380](#). Fall semester. Studio hours 6. Prerequisites: [ART 2900R](#) and [ART 3360](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 3380 - Sculpture Studio II

(3) Credit Hours

Seminar and studio for the exploration of contemporary concepts and media with an emphasis on developing a strong personal vision and conceptual intent. Studio hours 6. Courses are sequential; [ART 3370](#) or Department Head approval is prerequisite to ART 3380. Spring semester. Prerequisites: [ART 2900R](#) and [ART 3370](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 3601 - Survey of Design Practice

(3) Credit Hours

Survey of historical design practice emphasizing the relationship between designed objects and ideas to the circumstances of their production. This course will not fulfill an upper-division Art History requirement for students pursuing the BFA in Design Research and Practice. Spring semester. Prerequisites: [ART 2140](#) or Department Head approval.

ART 3611 - Typography and Language

(3) Credit Hours

Typographic expression, experimental processes, and exploration of the relationship between form, content, and meaning. Studio hours 6. Prerequisites: [ART 2611](#) or Department Head approval. Open to Art majors only. Laboratory/studio course fee will be assessed.

ART 3621 - Interactive Media

(3) Credit Hours

Principles of designing for interactivity. Students will build technical skills while considering the cultural impact of digital life. Studio hours 6. Prerequisites: [ART 1010](#), [ART 1060](#) or Department Head approval. Junior or Senior standing. Open to Art majors only. Laboratory/studio course fee will be assessed.

ART 3641 - Professional Practices in Graphic Design

(3) Credit Hours

Application of graphic design principles focused on human-centered design. Students will emulate a professional design studio, working collaboratively in partnership with a client. Spring semester. Studio hours 6. Prerequisites: [ART 2900R](#), [ART 3661](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 3651 - Politics and Ethics of Design

(3) Credit Hours

Focus on the sociopolitical contexts in which design is produced, circulated, and consumed. Through reading, writing, and studio projects, students will connect contemporary design discourse and relevant cultural theories to critically examine the role of power in design education, practice, and culture. Fall semester. Studio hours 6. Prerequisites: [ART 2900R](#), [ART 2601](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 3660 - Sculpture III

(3) Credit Hours

In-depth study of the concepts, techniques, and processes of sculpture in a variety of nontraditional and expanded media forms. Studio hours 6. Fall semester. Prerequisites: [ART 3360](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 3661 - Design Studio I

(3) Credit Hours

The first of a four-semester studio and seminar sequence for students pursuing the BFA in Design Research and Practice. Exploration of a series of design methodologies with an emphasis on the integral relationship between process and product; students will engage a broad range of traditional and experimental processes and materials. Courses are sequential; ART 3661 is prerequisite to ART 3671. Fall semester. Studio hours 6. Prerequisites: [ART 2900R](#) or Department Head approval. Open to BFA Art: Design Research and Practice majors only. Laboratory/studio course fee will be assessed.

ART 3671 - Design Studio II

(3) Credit Hours

The second of a four-semester studio and seminar sequence for students pursuing the BFA in Design Research and Practice. An introduction to contemporary modes of practice and issues in design with an emphasis on strengthening research skills for independently driven work. Courses are sequential; ART 3671 is prerequisite to ART 4601. Spring semester. Studio hours 6. Prerequisites: [ART 3661](#) or Department Head approval. Open to BFA Art: Design Research and Practice majors only. Laboratory/studio course fee will be assessed.

ART 3830 - Media Art II

(3) Credit Hours

Intermediate study of moving image and sound design with emphasis on developing and communicating a strong personal vision while expanding a working knowledge of the tools and techniques of all stages of production. Fall

semester. Studio hours 6. Prerequisites: [ART 2830](#)
or Department Head approval. Laboratory/studio course fee will be assessed.

ART 3840 - Photography and Media Art Studio I

(3) Credit Hours

Advanced seminar and studio presenting problems in analytical study, creative interpretation and logistics of working with photography and media art. Fall semester. Studio hours 6. Prerequisites: [ART 2810](#), [ART 2820](#), [ART 2830](#), and [ART 2900R](#)
or Department Head approval. Laboratory/studio course fee will be assessed.

ART 3850 - Photography and Media Art Studio II

(3) Credit Hours

Advanced seminar and studio presenting problems in analytical study, creative interpretation and logistics of working with photography and media art. Spring semester. Studio hours 6. Prerequisites: [ART 2810](#), [ART 2820](#), [ART 2830](#), [ART 2900R](#), and [ART 3840](#)
or Department Head approval. Laboratory/studio course fee will be assessed.

ART 3999R - Group Studies

(1-9) Credit Hours

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

ART 4010R - Visual Arts Internship

(3) Credit Hours

Practical experience in a professional environment to provide individuals with the opportunity to be supervised in art-related agencies. These would include, but not be limited to, advertising and media industries, art museum operation, gallery management, etc. Every semester. 3 hours. Junior or Senior standing; open to Art majors only, or Department Head approval.

ART 4050 - Drawing V

(3) Credit Hours

Individual problems in the application of drawing techniques and styles. Continued exploration of life drawing from the human figure. Drawing from the nude model. Courses are sequential for Art majors; ART 4050 or Department Head

approval is prerequisite to [ART 4060](#)

. Courses are sequential Fall and Spring semester. Studio hours 6. Prerequisites: [ART 2900R](#), [ART 2060](#)

or Department Head approval. Laboratory/studio course fee will be assessed.

ART 4060 - Drawing VI

(3) Credit Hours

Individual problems in the application of drawing techniques and styles. Continued exploration of life drawing from the human figure. Drawing from the nude model. Courses are sequential for Art majors; [ART 4050](#) or Department Head approval is prerequisite to ART 4060. Courses are sequential Fall and Spring semester. Studio hours 6. Prerequisites: [ART 2900R](#)

, [ART 2060](#)

or Department Head approval. Laboratory/studio course fee will be assessed.

ART 4070 - Painting and Drawing Studio III

(3) Credit Hours

The third of a four-semester advanced studio and seminar sequence for students pursuing the BFA in Painting and Drawing. Students work to develop an independent studio practice through self-directed creative research. Group critiques and individual studio visits with the instructor provide a critical framework. Lectures and seminars offer opportunities for group discussion of required readings, research, and relevant historical and contemporary issues in painting. Studio hours 6. Courses are sequential for Art majors; ART 4070 is prerequisite to [ART 4080](#)

. ART 4070 Fall semester; [ART 4080](#)

Spring semester. Prerequisites: [ART 2900R](#)

, [ART 2080](#)

or Department Head approval. Laboratory/studio course fee will be assessed.

ART 4080 - Painting and Drawing Studio IV

(3) Credit Hours

The conclusion of a four-semester advanced studio and seminar sequence for students pursuing the BFA in Painting and Drawing, culminating in the senior thesis exhibition. Students work to develop an independent studio practice through self-directed creative research. Group critiques and individual studio visits with the instructor provide a critical framework. Lectures and seminars offer opportunities for group discussion of required readings, research, and relevant historical and contemporary issues in painting. Courses are sequential for Art majors; [ART 4070](#)

is prerequisite to ART 4080. Prerequisites: [ART 3080](#)

or Department Head approval. Laboratory/studio course fee will be assessed.

ART 4090 - Senior Studio in Painting and/or Drawing

(3) Credit Hours

Selected problem in painting or drawing to further the development of a student's aesthetic, and which culminates in a body of work of exhibition quality. On demand. Studio hours 6. Corequisites: [ART 4080](#)

or Department Head approval. Laboratory/studio course fee will be assessed.

ART 4150 - Object Archaeology: Research, Writing, and Interpretation for the Museum

(3) Credit Hours

Art historical investigation typically centers on the biographies of known artists and the social use, significance, and impact of specific artworks or objects. But what happens when access to these traditional modes of scholarly inquiry are unavailable or incomplete? This course develops a set of critical research strategies to help students uncover and interpret the “lost” or “hidden” histories of artistic objects. In addition to participating in weekly reading discussions and workshops, each student undertakes a semester-long research project on an understudied artwork from the permanent collection of a local art museum or institution. Students work closely with the professor, curators from the museum/institution, and library professionals to learn about archival research, curatorial management, interpretive label writing, and exhibition design. The semester culminates in a small collaborative exhibition and the results of the students’ research are added to the museum/institution’s curatorial file. Every other Fall semester. Prerequisites: [ART 2150](#)

or Department Head approval.

ART 4190R - Art History: Special Topics

(3) Credit Hours

Advanced study in art history. This course is designated for special art history topics that are not offered on a regular basis. On demand. Prerequisites: [ART 2150](#)
or Department Head approval.

ART 4200R - Seminar in Art Education

(3) Credit Hours

Emphasis on contemporary issues in art education. On demand.

ART 4310 - Site and Context

(3) Credit Hours

Development of sculptural works in relation to expanded concepts of site and context including site specificity, relational art, and art in the public sphere. Fall or Spring semester. Studio hours 6. Prerequisites: [ART 2900R](#)
or Department Head approval. Laboratory/studio course fee will be assessed.

ART 4320 - Performance

(3) Credit Hours

Study of the theory and practice of performance, interaction, and participation in relationship to sculpture with a focus on time-based works. Fall or Spring semester. Studio hours 6. Prerequisites: [ART 2900R](#)

or Department Head approval. Laboratory/studio course fee will be assessed.

ART 4330 - Emerging Practices

(3) Credit Hours

Study and practice of socially engaged, cooperative, and emerging art forms with a focus on critical dialog and collaborative learning. Fall or Spring semester. Studio hours 6. Prerequisites: [ART 2900R](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 4370 - Sculpture Studio III

(3) Credit Hours

Advanced development of individual creative works with a focus on conceptual intent. Courses are sequential; ART 4370 or Department Head approval is prerequisite to [ART 4380](#). Fall semester. Studio hours 6. Prerequisites: [ART 2900R](#) and [ART 3380](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 4380 - Sculpture Studio IV

(3) Credit Hours

Advanced development of individual creative works with a focus on issues of exhibition and installation. Studio hours 6. Courses are sequential; [ART 4370](#) or Department Head approval is prerequisite to ART 4380. Spring semester. Prerequisites: [ART 2900R](#) and [ART 4370](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 4601 - Design Studio III

(3) Credit Hours

The third of a four-semester studio and seminar sequence for students pursuing the BFA in Design Research and Practice. Students work within design-centered frameworks leading to advanced self-directed research. Courses are sequential; ART 4601 is prerequisite to ART 4611. Fall semester. Studio hours 6. Prerequisites: [ART 3671](#) or Department Head approval. Open to BFA Art: Design Research and Practice majors only. Laboratory/studio course fee will be assessed.

ART 4611 - Design Studio IV

(3) Credit Hours

The conclusion of a four-semester studio and seminar sequence for students pursuing the BFA in Design Research and Practice. Students continue to refine a body of work through self-directed creative research, culminating in the senior thesis exhibition and a portfolio appropriate for their professional goals. Spring semester. Studio hours 6. Prerequisites:

[ART 4601](#)

or Department Head approval. Open to BFA Art: Design Research and Practice majors only. Laboratory/studio course fee will be assessed.

ART 4810 - Expanded Media Art

(3) Credit Hours

Study of new technologies, issues and design philosophy involved in the expansion of time-based media art. Topics include: generative works and interactive environments. On demand. Studio hours 6. Prerequisites: [ART 2900R](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 4815 - Web and Book for Artists

(3) Credit Hours

Development of web and book forms as both archives and creative mediums. Topics include: design, production, and distribution. On demand. Studio hours 6. Prerequisites: [ART 2900R](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 4830 - Interdisciplinary Research

(3) Credit Hours

Advanced topics in photo and media art with a cross-disciplinary focus. Topics include: creative social practice and collaborative projects. On demand. Studio hours 6. Prerequisites: [ART 2900R](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 4840 - Photography and Media Art Studio III

(3) Credit Hours

Advanced seminar and studio course designed to support continued production of individual creative photo and media works with a focus on conceptual intent and medium-specific issues in production and installation. Fall semester. Studio hours 6. Prerequisites: [ART 3850](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 4850 - Photography and Media Art Studio IV

(3) Credit Hours

Advanced seminar and studio course designed to support continued production of individual creative photo and media works with a focus on conceptual intent and medium-specific issues in production and installation. Spring semester. Studio hours 6. Prerequisites: [ART 4840](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ART 4900R - Art Studio: Special Topics

(3) Credit Hours

Advanced study in studio art. This course is designated for special studio art topics that are not offered on a regular basis. On demand. Laboratory/studio course fee will be assessed.

ART 4910 - Professional Preparation for the Visual Artist

(3) Credit Hours

Professional protocol for the studio artist. Students will write analytically about their work and that of others. Grant writing, application processes for graduate school admission. Preparation of professional portfolios, culminating in the Senior Exhibition. Spring semester. Prerequisites: One course selected from [ART 4070](#) or [ART 4601](#) or [ART 4840](#) or [ART 4370](#) or Department Head approval.

ART 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.

ART 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.

ART 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.

ART 4999R - Group Studies

(1-9) Credit Hours

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

Astronomy

ASTR 1010 - Introduction to Astronomy - The Solar System (LC or NL)

(3) Credit Hours

Descriptive and conceptual introduction to the nature and origin of the solar system. Topics include models of the night sky, natural laws describing celestial objects and light, telescopes, the Earth-Moon system, planets and satellites, and the Sun. Spring semester. Pre or Corequisites: [ASTR 1010L](#) or Department Head approval.

General Education Category: Natural Science Lecture or Natural Science Non-Lab

ASTR 1010L - Astronomy Laboratory - The Solar System (LB)

(1) Credit Hours

Laboratory to accompany ASTR 1010. Illustrates concepts of practical astronomy such as measuring planetary rotation rate and mass, using telescopes, deep sky observation session. Spring semester. 2 hours. Corequisites: [ASTR 1010](#) or Department Head approval. Laboratory/studio course fee will be assessed.

General Education Category: Natural Science Lab

ASTR 1020 - Introduction to Astronomy - Stars to Galaxies (LC)

(3) Credit Hours

Nature of stars and galaxies; evolution and structure of the observable universe with emphasis on the experimental foundations of the science. Fall semester. Corequisites: [ASTR 1020L](#) laboratory or approval of the head of the department.

General Education Category: Natural Science Lecture

ASTR 1020L - Astronomy Laboratory - Stars to Galaxies (LB)

(1) Credit Hours

Laboratory to accompany Astronomy 1020. Exercises and observations include learning to set up and use a telescope, spectroscopy, a deep sky observing session, a visit to Jones Observatory and Planetarium, photometry, and the Hubble Redshift-Distance relation. Two hours per week. Fall semester. Corequisites: [ASTR 1020](#) or approval of the head of the department. Laboratory/studio course fee will be assessed.

General Education Category: Natural Science Lab

ASTR 1999R - Special Projects

(1-9) Credit Hours

Individual or group studies. Cumulative limit of 4 hours. On demand. Prerequisites: Department Head approval.

ASTR 2999R - Group Studies

(1-9) Credit Hours

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

ASTR 3999R - Group Studies

(1-9) Credit Hours

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

ASTR 4010 - Solar System Astrophysics

(3) Credit Hours

Application of basic physical laws to the problem of the origin and evolution of the solar system. Solar structure and energy sources, radiative transfer, the solar magnetic field, the interplanetary medium, celestial mechanics, comets, meteors, asteroids, the planets, and their satellites. On demand. Prerequisites: [PHYS 3420](#) or Department Head approval.

ASTR 4997R - Research

(1-9) Credit Hours

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

ASTR 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.

ASTR 4999R - Group Studies

(1-9) Credit Hours

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

Biology

BIOL 1000 - How to Learn Biology

(1) Credit Hours

An introduction to strategies that empower students to succeed in biology and other college level courses; emphasis on study tools, metacognition, growth mindset, and time management, and how to apply these strategies to achieve higher levels of learning. Fall and Spring semesters. Lecture 1 hour. Corequisites: [BIOL 1110](#) or Department Head approval. Satisfactory/No Credit.

BIOL 1050 - Life on Earth (LL)

(4) Credit Hours

An introduction to systematic ways in which the human mind comprehends the natural world; emphasis on scientific reasoning, the diversity of life, evolutionary relationships, interactions between living systems, chemical transformation pathways, the natural and anthropogenic influences on Earth's climate, and how changes in climate affect living systems. The laboratory integrates the scientific approach and provides hands-on experience in developing and testing explanations for natural patterns observed in living systems. Lecture 3 hours, laboratory 2 hours. Corequisites: BIOL 1050L or Department Head approval. Credit will not apply toward any Biology, Geology or Environmental Science major.

General Education Category: Natural Science Lecture/Lab

BIOL 1100 - Conservation of Biodiversity (NL)

(3) Credit Hours

An introduction to systematic ways in which the human mind comprehends the natural world; emphasis on studies of living systems, natural processes, and related phenomena including evolution, population biology, ecosystem properties, biomes, extinction, human overpopulation, deforestation, global climate change, preservation of species, conservation ethics and economics, public policy, and sustainability. Credits not allowed toward the Biology and Environmental Science majors if the student has previously completed [BIOL 1120](#) or [ESC 1510](#).

. Lecture 3 hours. May be registered as [ESC 1100](#)

. Credit not allowed in both BIOL 1100 and [ESC 1100](#)

General Education Category: Natural Science Non-Lab

BIOL 1110 - Principles of Biology I (LL)

(4) Credit Hours

An introduction to systematic ways in which the human mind comprehends the natural world; emphasis on studies of living systems, natural processes, and related phenomena including methods of the biologist, Darwin's evolutionary theory, role of organic molecules in biological systems, cell organization, cellular division, Mendelian inheritance, molecular genetics, speciation, and global environmental issues. Ability to perform algebraic calculations is necessary for success. Lecture 3 hours, laboratory 2 hours. Corequisites: BIOL 1110L or Department Head approval. Laboratory/studio course fee will be assessed.

General Education Category: Natural Science Lecture/Lab

BIOL 1120 - Principles of Biology II (LL)

(4) Credit Hours

An introduction to systematic ways in which the human mind comprehends the natural world; emphasis on studies of living systems, natural processes, and related phenomena including evolutionary change in populations, origin and evolutionary history of life, systematics, survey of kingdoms, and ecology. Lecture 3 hours, laboratory 2 hours. Prerequisites: [BIOL 1110](#) with a minimum grade of C or Department Head approval. Corequisites: BIOL 1120L or Department Head approval. Laboratory/studio course fee will be assessed.

General Education Category: Natural Science Lecture/Lab

BIOL 1130 - Principles of Biology III

(3) Credit Hours

An Introduction to systematic ways in which the human mind comprehends the natural world; emphasis on studies of living systems, natural processes, and related phenomena including photosynthesis and cellular respiration, neural and hormonal communication, internal transport, gas exchange, food processing, osmoregulation and development in animals and growth, differentiation, and development in plants. Every semester. Prerequisites: [BIOL 1110](#) and [CHEM 1110](#) with grades of C or better or Department Head approval.

BIOL 1140 - Urban Gardening

(1) Credit Hours

A true teaching and experiential-learning course providing students the opportunity to understand and employ basic techniques of plant production, maintenance, harvesting and processing. Students will become familiar with concepts of soil quality, preparation techniques, and soil improvement strategies, using different treatment and management approaches. Students will learn to use and manipulate basic implements utilized in gardening activities, and to evaluate alternative methods / approaches to the use of agrochemicals to guarantee the production of true natural organic products. Students will also be involved in planning and organizing activities for the establishment of urban gardens. 2 contact hours / week, including field and classroom sessions. Laboratory/studio course fee will be assessed.

BIOL 1250 - The First Year Experience in Biology

(1) Credit Hours

An introduction to the college experience of first-year students at UTC and the aspects needed for a successful transition from high school to college. This includes an introduction to the department, successful learning techniques for biology, and expectations for academic success. Elective available to students with fewer than 30 earned hours. Recommended during the initial semester for biology majors who enter UTC with fewer than 15 hours. Fall semester. Lecture 1 hour. Only open to freshmen.

BIOL 1999R - Special Projects

(1-9) Credit Hours

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

BIOL 2010 - Anatomy & Physiology I

(4) Credit Hours

An introduction to the structure and function of the human body as seen in its various levels of organization: cellular, tissue, organ, and system. Every semester. Lecture 3 hours, laboratory 2 hours. Corequisites: BIOL 2010L. Laboratory/studio course fee will be assessed.

BIOL 2020 - Anatomy & Physiology II

(4) Credit Hours

A continued study of the structure and function of the human body as seen in its various levels of organization: cellular, tissue, organ, and organ systems. Every semester. Lecture 3 hours, Laboratory 2 hours. Prerequisites: [BIOL 2010](#) with a C or better and [CHEM 1050](#) /[CHEM 1050L](#) or [CHEM 1110](#) /[CHEM 1110L](#) with a C or better or Department Head approval. Corequisites: BIOL 2020L. Laboratory/studio course fee will be assessed.

BIOL 2060 - Human Anatomy

(4) Credit Hours

The structure of the human body as seen in its various levels of organization: cellular, tissue, organ, and system. Lecture 3 hours, laboratory 2 hours. Corequisites: BIOL 2060L or Department Head approval. Laboratory/studio course fee will be assessed.

Effective Spring 2026.

BIOL 2080 - Human Physiology

(4) Credit Hours

Studies of the physiological functions of the human body. Lecture 3 hours, laboratory 2 hours. Prerequisites: [CHEM 1110](#) and [CHEM 1110L](#) with minimum grades of C or [CHEM 1050](#) and [CHEM 1050L](#) with minimum grades of C or Department Head approval. Corequisites: BIOL 2080L or Department Head approval. Laboratory/studio course fee will be assessed.

BIOL 2100 - Microbiology and Health (LL)

(4) Credit Hours

Microorganisms as related to disease, immunity, food preservation, and sanitation. Lecture 3 hours, laboratory 2 hours. Prerequisites: [CHEM 1110](#) and [CHEM 1110L](#) or [CHEM 1050](#) and [CHEM 1050L](#) or Department Head approval. Corequisites: BIOL 2100L or Department Head approval. Laboratory/studio course fee will be assessed.

General Education Category: Natural Science Lecture/Lab

BIOL 2999R - Group Studies

(1-9) Credit Hours

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

BIOL 3060 - Ecology

(3) Credit Hours

The community concept with reference to structure, energy, cycles, and populations; the distribution of plants and animals with analyses of the factors involved. Prerequisites: [BIOL 1120](#) with minimum grades of C or Department Head approval. Pre or Corequisites: [BIOL 1130](#) or completion of [ESC 1510](#) with minimum grade of C, or Department Head approval.

BIOL 3070 - Ecology Laboratory

(1) Credit Hours

Field application of ecological principles. Field trips. Laboratory 2 hours. Prerequisites: [BIOL 1120](#) with minimum grades of C, or Department Head approval. Pre or Corequisites: [BIOL 1130](#) or completion of [ESC 1510](#) with minimum grade of C, and [BIOL 3060](#), or Department Head approval. Laboratory/studio course fee will be assessed.

BIOL 3250 - Genetics

(3) Credit Hours

Principles of classical (Mendelian), molecular, and population genetics including patterns of inheritance, genetic code and regulation of protein synthesis, recombinant DNA techniques, and evolution of the genome at the population and molecular levels. Prerequisites: [BIOL 1120](#) and [BIOL 1130](#) with minimum grades of C, [CHEM 1120](#) and [CHEM 1120L](#), or Department Head approval.

BIOL 3260 - Genetics Laboratory

(1) Credit Hours

Investigations in classical, molecular, and population genetics. Laboratory 2 hours. Pre or Corequisites: [BIOL 3250](#) or Department Head approval. Laboratory/studio course fee will be assessed.

BIOL 3350 - Evolution

(3) Credit Hours

Patterns, processes, and mechanisms of evolution; including adaptive and neutral evolution, population genetics, molecular evolution, the origin of species and higher taxonomic groups, adaptation and behavior, recognition of evolutionary relationships, and significance of evolution to humans. Prerequisites: [BIOL 1120](#) with minimum grades of C or Department Head approval. Pre or Corequisites: [BIOL 1130](#) or Department Head approval.

BIOL 3400 - Environmental Survey Methods

(4) Credit Hours

Field survey methods for compiling of botanical, zoological, geological, and archaeological data. To include mapping, sampling, and recording. Fall semester. Lecture 2 hours, laboratory 4 hours. Prerequisites: [ESC 1510](#) or [BIOL 1130](#) or Department Head approval. Also offered as [ESC 3400](#)

- . Credit not allowed in both BIOL 3400 and [ESC 3400](#)
- . Laboratory/studio course fee will be assessed.

BIOL 3999R - Group Studies

(1-9) Credit Hours

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

BIOL 4020 - Meiofauna Biodiversity

(4) Credit Hours

This course will explore patterns and mechanisms of biodiversity with a focus on small-sized invertebrates known as meiofauna. Students who take this course will become familiar with the major meiofaunal taxa and fundamental methods of biodiversity estimates and biomonitoring. The class is substantially hands-on. Students will develop, interpret, and analyze large and diverse datasets using computational tools, collect and analyze samples in the field, and develop an independent and creative research project. Fall semester. Lecture 3 hours, laboratory 3 hours. Prerequisites: [BIOL 3060](#) or [BIOL 3250](#) or [BIOL 3350](#) with minimum grade of C, or Department Head approval. Laboratory/studio course fee will be assessed.

BIOL 4050 - Comparative Vertebrate Zoology

(4) Credit Hours

The biology of the phylum Chordata, in particular the vertebrates, with an emphasis on their systematics, structural evolution, and functional morphology. Laboratory dissection of the shark, salamander, and cat. Lecture 3 hours, laboratory 4 hours. Prerequisites: [BIOL 3060](#) or [BIOL 3250](#) or [BIOL 3350](#) with minimum grades of C, or Department Head approval. Laboratory/studio course fee will be assessed.

BIOL 4070 - Entomology

(4) Credit Hours

Principles of entomology including the morphology, development, taxonomy, ecology, and importance of insects. Lecture 3 hours, laboratory 3 hours. Prerequisites: [BIOL 3060](#) or [BIOL 3250](#) or [BIOL 3350](#) with minimum grades of C, or Department Head approval. Laboratory/studio course fee will be assessed.

BIOL 4085 - Parasitology

(4) Credit Hours

A survey of parasitic organisms (excluding bacteria and viruses) with an emphasis on their diversity, evolutionary and ecological adaptations, as well as immunoparasitology and conservation biology. Lecture 2.5 hours, laboratory 3 hours.

4 credit hours. Pre or Corequisites: [BIOL 3060](#)

or [BIOL 3350](#)

or [BIOL 3250](#)

with a minimum grade of C or Department Head approval.

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