

Extended Clinical Practicums

An 8-week professional health-care laboratory practicum. Emphasis in patient-care applications. Subject areas are to be coordinated with the Clinical Site Education Coordinator and the Program Director. Graded S/U. Prerequisite: Successful completion of the 24-week clinical practica of the Clinical-Year Program and permission of Program Director.

MTCH521, 522, 523 (1,1,1)**Seminar in Clinical Laboratory Science**

Cooperative research into topics of current interest in the literature. Each quarter the student prepares presentations based on current readings. Faculty and guest lecturers also contribute to the seminar series. Admission by permission of the Graduate Program Coordinator.

MTCH525 (6-12)**Advanced Studies in Clinical Laboratory Science**

Designed in consultation with and coordinated by the area specialty adviser. Cumulative report, presentation, and defense required. Prerequisite: Certification and/or licensure as a clinical laboratory scientist and permission of the Graduate Program Coordinator. Repeatable to 12 credits. Clinical placement depends on clinical site availability.

MTCH595 (1-4)**Independent Study/Readings/Research Project**

Topics may be from immunology, immunohematology, clinical chemistry, hematology, microbiology, other areas of patient-care science, medical technology education, management, or applications especially relevant to clinical laboratories. Repeatable in a different subject area. Independent readings earn S/U grades. Prerequisite: Permission of Graduate Program Coordinator.

ART, ART HISTORY, AND DESIGN

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Academic Programs	Credits
BFA: Design and Photography Digital Art and Design Graphic Design Photography	118
BFA: Visual Arts Ceramics Painting Pre-Art Therapy Printmaking	118
BA: Art Art History Pre-Art Therapy Visual Art	47 63 67
BS: Art Education Minor in Art History Minor in Graphic Design Minor in Visual Art	68 30 32 30

It is the mission of the Department of Art, Art History, and Design to develop our God-given creative gifts in order to integrate our personal, spiritual, and professional lives.

Undergraduate Programs

BFA: Design and Photography—118

The Bachelor of Fine Arts degree is recommended for students planning to enter one of the visual-art professions and/or to do graduate work in visual art or art therapy. The studio-oriented BFA program requires 118 credits of visual-art and art-history courses plus the General Education courses. Central to the BFA curriculum is 38-48 credits of advanced design or visual-art work in a single emphasis. The process for entering a BFA program is two-fold. First, students are accepted into the BA degree program of the Department of Art, Art History, and Design. Upon completion of the introductory-level courses and successful BFA review (no later than the end of their sophomore year), students can be accepted into the BFA program.

BFA 16-credit Complementary Area Requirement: Each of the BFA degree emphases has a 3-part curriculum: (1) Art History; (2)

Visual Art Foundation; and (3) Advanced Visual Art. Additional cognates along with the General Education requirements complete the specifications for graduation for the BFA degrees.

BFA students must take courses beyond the introductory level in an area(s) which complement(s) their chosen media emphasis. For example, if the 38-credit emphasis is ceramics (3-dimensional), then the complementary area may be painting and/or printmaking (2-dimensional); and conversely, if the 38-credit emphasis is painting (2-D), then the complementary area may be sculpture and/or ceramics (3-D). The photography emphasis may allow 8 credits of graphic design (ART214 and 414) to be substituted to meet the complementary area requirement. The Graphic Design complementary area is shaped with the student's adviser and may include such areas as computer graphics, photographic arts, marketing, and communication.

Digital Art and Design Emphasis (2-D)

The digital art and design emphasis is recommended for those wishing to combine the study of art and design with the opportunity to explore more extensively computer graphics environments as a medium for visual communication and/or personal artistic expression.

The degree prepares students to enter one of the computer-based visual communication-oriented professions educated as an artist or designer/visual communicator, or to enter graduate studies in electronic visualization.

Art History—16

ART 235, 236, 440, one ARTH elective.

Visual Art Foundation—32

ART104, 105, 106, 207, 208, 300, 304; PHTO 115.

Digital Media Foundation—22

COSC125; DGME180, 255, 310, 320; an elective in consultation with adviser (2 credits).

Advanced Digital Media—48

ART214, 314, 414 (24 credits), 495 Senior Exhibition and Slide Portfolio, 1; DGME320, 355; electives in consultation with adviser (7 credits).

Graphic Design Emphasis (2-D)

The BFA in Graphic Design (design for visual communication) is a specialized curriculum recommended for those who plan to enter one of the visual-communication design or electronic (computer-oriented) visualization professions.

The visual art and design courses develop strong hand-eye coordination skills and a direct feeling for materials and form, along with an understanding of professional design process. The art-history courses develop intellectual breadth and critical perspectives needed to inform the design process. The graphic arts provide a foundation in the technologies of the profession.

Art History—16

ARTH235, 236, 440, ARTH elective

Visual-Art Foundation—36

ART104, 105, 106, 107 or 108, 207, 208, 300; one ARTH elective. Select two from ART304; PHTO115, 206.

Graphic Arts Foundation—18

DGME180, 200, 310; 5 credits of electives chosen in consultation with adviser

Advanced Graphic Design—41

ART214, 314, 414 (32 credits); 495 (Senior exhibition and slide portfolio, 1).

Cognate Courses—8

Select two courses from COMM320; MKTG310; JOUR354, 468.

Photography Emphasis (2-D)

Recommended for those preparing for professions that require people with well-developed perceptual skills who are comfortable working with complex equipment and changing technologies. Photography students are expected to develop a creative, experimental, and artistic approach to their work, regular and productive work habits, and eventually a personal focus that leads to a senior exhibition and portfolio. The BFA requires the following course work, including 16 credits of advanced work in a complementary 2-D or 3-D studio art medium (available in ceramics, painting, printmaking, and sculpture).

Art History/Theory—23

ARTH235, 236, 440 and elective (4 credits); PHTO210, 300.

Visual Art and Photography Foundation—35
ART104, 105, 106, 107, 108, 207, 208, 300; PHTO115.

Advanced Visual Art and Photography—63
ART304 (repeatable to 8 credits), 495 (1 credit), and complementary visual art courses up to 16 credits; PHTO 206, 207, 220, 280, 390 (repeatable to 12 credits), 410; DGME255, 355; elective in consultation with adviser (2 credits).

Cognate: JOUR275 Photojournalism.

BFA: Visual Art: Ceramics (3-D), Painting (2-D), Printmaking (2-D), Pre-Art Therapy

The following three course groups are common to all BFA Visual Art and Pre-Art Therapy Emphases (except Photography).

Art History Foundation—23

ARTH235, 236, 420, 440, plus two electives in art history (8 credits)

Visual Art Foundation—36

2-D courses: ART104, 105, 106, 207, 300;
3-D courses: ART107, 108, 208, and PHTO115.

Advanced Visual Art—59

ART304, 495; advanced work in one 2-D or 3-D emphasis (39 credits in one: ceramics, painting, or printmaking); complementary 2-D or 3-D emphasis (total of 16 credits).

Ceramics Emphasis (3-D)

Recommended for those pursuing studio pottery as a profession and who are comfortable working with ideas of aesthetic form, personal experimentation, technical production, and utilitarian purpose. Students work with a variety of traditional and state-of-the-art equipment and methods to gain a broad understanding of clay forming, glazing, and firing techniques necessary for the development of a personal focus. Early emphasis is placed on the mastery of ceramic craft and the development of regular and productive studio habits. Later, emphasis is placed on the development of a personal direction, senior exhibition, and portfolio. For the BFA degree in ceramics, students register for 39 credits of ART307 and 16 credits of complementary 2-D coursework.

Painting Emphasis (2-D)

Recommended primarily for those planning to enter graduate school. Emphasis is on developing perceptions of form and color, a strong sense of 2-D design, awareness of the visual world as subject matter for aesthetic and intellectual response, the

work habits necessary to turn feelings and ideas into satisfying compositions, and an eventual personal focus for purposes of a senior exhibition and portfolio. For their advanced work, students register for 39 credits of ART305 and 16 credits of complementary 3-D coursework.

Pre-Art Therapy Emphasis

Recommended for those planning to do graduate work in art therapy and to enter that profession. May require credits beyond the normal college load. In addition to fulfilling the BFA degree requirements, students should also take PSYC101, 251, 252, 454, 460; RECR280.

Printmaking Emphasis (2-D)

Recommended for those planning for professions that require people who are comfortable working with ideas of aesthetic form, personal experimentation, technological production, and utilitarian purpose. Students work with traditional and contemporary graphics/printmaking processes that result in the production of multiple works which are personal, aesthetic, and/or functional in purpose. Emphasizes the student's development of regular and productive studio work habits and a personal focus which leads to a senior exhibition and portfolio. For their advanced work, students register for 39 credits of ART 306 Printmaking and 16 credits of complementary 3-D course work.

BA: Art—63

The BA: Art is a liberal arts degree that relates broad intellectual knowledge to material, spiritual, and emotional awareness. The degree requires 63 credits in visual-art and art-history courses, a minor in a non-art second area, and the General Education requirements including a foreign language. Each of the BA emphases listed below require the following art history courses:

Art History Foundation—19

ARTH220, 235, 236, 420, 440.

Art History Emphasis

Recommended for those planning to do graduate work in the humanities or enter professions that appreciate a broad overview of history and culture. Students study the values expressed by a society's visual arts and architecture and the responses of its creative artists and cultural critics. In addition to the 19 credits of art-history foundation courses listed above, the following courses are also required: Electives in Art History (12 credits); 2-D Visual Arts (4 credits); 3-D Visual Arts (4 credits); and 8 credits from ARCH260, 361, 362, or 363.

Required cognates: HIST115, 116, 400 or 487.

Pre-Art Therapy Emphasis

Pre-art therapy students take the visual-arts foundation and advanced visual-art component from the visual-art emphasis listed below (48 credits) and 4 credits of ART 380 Topics is required—topics which relate to the study or practice of art therapy. A minor in Behavioral Sciences is required, including PSYC101, 251, 252, 454, 460.

Visual Art Emphasis

Recommended for those planning to enter professions that require skilled eye-hand coordination, sensitive workmanship, and well-developed perceptual and conceptual skills. In addition to the

19 credits of art history listed above, visual-art majors must take 4 credits of art history electives, and the following 44 credits of visual art (32 credits foundation and 12 credits advanced):

Visual Art Foundation—32

2-D Courses: ART104, 105, 106, 207, 300;

3-D Courses: ART107, 108, 208.

Advanced Visual Art—12

Selected in consultation with the adviser from advanced drawing, painting, printmaking, ceramics, and sculpture courses.

BS: Art Education—68

This degree, offered in cooperation with the Department of Teaching, Learning, and Administration, prepares students to teach art on the elementary and secondary levels. Majors desiring teacher certification or who are planning to teach art must complete the requirements for denominational and/or state teacher certification through the School of Education. Students must take either ART457 or ART459 as well as the following 68 credits from the Department of Art, Art History, and Design:

Art History—13

ARTH220, 235, 236, 420 (1 credit).

Visual Art Foundation—32

ART104, 105, 106, 107, 108, 207, 208, 300.

Advanced Visual Art Requirements—21

In consultation with the adviser, do advanced work in one or a combination of the following media: ceramics, painting, printmaking, photography, or sculpture.

Electives in Art—2**Minor in Art History—30**

Recommended for students of literature, history, and sociology as a complementary area of study. Art history examines the images created by various cultures and social groups and provides an alternative way for students to understand the conventions, concepts, attitudes, and values that produced them.

Required courses: ARTH220, 235, 236, 420, 440, and 11 elective credits in Art History.

Required cognates: HIST115, 116.

Minor in Graphic Design—32

Recommended for students of communication, graphic arts, marketing, and architectural and landscape studies. Graphic Design is concerned with producing effective visual communication.

Required courses: ART104, 207, 214, 300, 414 (to 12 credits); ARTH220.

Required cognates: GRPH120; DGME200.

Minor in Visual Art—30

Recommended but not limited to students of education, technology, the humanities, and the design areas.

Required courses: ART104, 105, 106, 107, 108, 207; ARTH220 plus 2 elective credits in studio or art history.

A minimum of 36 credits is required for persons seeking teacher certification in art.

Courses

(Credits)

See inside back cover for symbol code.

ART HISTORY, THEORY, AND

ISSUES

ART380 (1-4)
Topics in Art
 Courses currently in Intuitive Perspective, Rendering, African Arts, Asian Arts, and Post-Modernism.

ART495 9 (1-4)
Independent Reading/Project
 Repeatable to 4 credits in one term under the direction of a faculty member specializing in the subject matter to be studied. The project includes mounting an exhibition of the student's work and making a photographic record of all work done during his/her collegiate experience. Repeatable to 8 credits.

ARTH220 (3 or 4)
Language of Art
 Presents the elements of visual language and studies them in relationship to images of famous paintings, sculptures, and contemporary advertisements. Does not duplicate an art history course.

ARTH235 (4)
Prehistoric to Medieval Art
 Examines the ancient images of non-Western and Western cultures as they are manifested in famous works of art and architecture.

ARTH236 (4)
Renaissance to Modern Art
 A survey of selected Western and non-Western artists, techniques, and cultural eras from 1300 to 1945.

ARTH328 (4)
Artists of the Renaissance
 A chronology and analysis of Italian masters from Giotto to Raphael, and northern masters from VanEyck to Rembrandt. A study of the importance of social and cultural influences impacting these artists and the contributions made through their art.

ARTH329 (4)
Nineteenth Century and Impressionism
 A chronological study of the major artists influencing culture, primarily in France, from David to Cezanne in the movements of Neo-classicism, romanticism, realism, impressionism, and post-impressionism.

ARTH420 9 (1)
Seminar in Contemporary Trends
 Studies current trends in a specific area of contemporary art. May contain readings, discussion, and student presentations. Repeatable to 3 credits.

ARTH440 9 (4)
Art since 1945
 Selected artists associated with post-war Western culture, the critical schools they are associated with, and the major influences upon their work.

ARTH450 (1-6)
Art Study Tour
 A pursuit of general cultural and artistic interests to be found in Europe or Asia.

IDSC200 (4)
Christ in Music and Art
 Investigates religious themes in art and music

inspired by the life of Christ. Principles for understanding and evaluating art and music from the Christian perspective are discussed. Credit not applicable toward a major or minor in Music or Art.

VISUAL ART

The department reserves the right to hold some student work until the termination of the Spring student show. Students leaving the campus at the end of the quarter must take their work with them. Because of minimal storage space, work and supplies remaining in the department after the close of the Spring quarter are removed and discarded.

ART104 \$ (2 or 4)
Introduction to Drawing
 Drawing the human figure, still-life objects, and architecture to facilitate the development of observational and expressive skills. Basic drawing approaches, methods, tools, media, and systems of perspective are explored.

ART105 (2 or 4)
Introduction to Painting
 Fundamentals of color mixing, composition of the subject matter, and picture problem solving are introduced. Students may choose oil or acrylic.

ART106 \$ (2 or 4)
Introduction to Printmaking
 Explores methods such as woodcut, linoleum cut, etching and engraving, lithography, and screenprinting. Emphasis on technical-skills development and personal images.

ART107 \$ (2 or 4)
Introduction to Ceramics
 Emphasis on pottery and vessel creation. Explores aspects of clay preparation, hand forming, wheel techniques, and glaze application, with raku and stoneware firing techniques.

ART108 Alt \$ (2 or 4)
Introduction to Sculpture
 Teaches basic techniques of tool usage and material manipulation while producing sculpture in clay, stone, and wood.

ART207 (4)
Basic Design I
 A study of the elements and organizational principles of 2-dimensional design.

ART208 Alt (4)
Basic Design II
 Emphasis on the conceptual possibilities and problems inherent in working with 3-dimensional materials and space.

ART214 (2 or 4)
Introduction to Graphic Design
 A transition from design theory to design application as it relates to visual communication. A series of projects develops basic skills and familiarity with design process and the graphic design profession. Prerequisites: GRPH120, ART207.

ART300 Alt \$ (4)
Principles of Color
 A hands-on study of the phenomenon of color and color mixing with consideration given to the interaction of color in nature, art, and design.

ART304 (2 or 4)
Drawing
 Students use many media and concentrate on individual methods of expression through drawing. Prerequisite: ART 104.

ART305 (2-8)
Painting
 Supervised independent study leading toward an artistic style with exploration in a selected area chosen from landscape, figure study, portraiture, abstract, and the newer innovations in the field of painting. Prerequisite: ART105.

ART306 (2-8)
Printmaking
 One of the major methods (relief, planographic, intaglio, stencil) may be selected for quarter-long exploration. Anything over 4 credits in one quarter needs permission of instructor. Prerequisite: ART106.

ART307 \$ (2-8)
Ceramics
 An exploration of an area of ceramic practice. Topics may include production pottery, electric kiln ceramics, clay and glazes, woodfiring, raku, creating large pots, throwing and altering. Repeatable. Prerequisite: ART107.

ART308 Alt (2-8)
Sculpture
 The expressive use of a range of materials through the skills of modeling, carving, and construction. Usually one medium is studied during the quarter. Repeatable. Prerequisite: ART108. Over 4 credits by permission of instructor.

ART314 (2 or 4)
Illustration
 Concentrates on illustration solutions to visual communication needs. Studio assignments are given to provide experience in a variety of media for various applications: advertising, editorial, and book. Prerequisite: ART104.

ART414 (2-8)
Design for Visual Communications
 A series dealing with typography (Autumn), publication design (Winter), and advertising design (Spring). Other emphases: Corporate-identity design, package design, environmental graphics, and illustration. Courses give students practical experience in graphic design. Portfolio development for seniors. Prerequisites: ART207, 214, GRPH120. More than 4 credits a quarter needs permission of instructor.

ART457 9 (4)
Art Methods: Elementary
 Covers the process of teaching creativity and artistic expression to students at the elementary level. The focus is on understanding the developmental levels of creativity in children. Art is also integrated in the rest of the curriculum. Art projects are part of this course.

ART459 9 (4)
Art Methods: Secondary
 Deals with teaching creativity and artistic expression to students at the secondary level. It covers the developmental levels of students and gives practical ideas for developing individual creativity. Project ideas are part of the course.

PHOTOGRAPHY

See course descriptions under Technology Education: Photography on p. 139.

GRAPHIC ARTS AND DIGITAL MEDIA

See course descriptions under Technology Education: Digital Multimedia on p. 137.

BEHAVIORAL SCIENCES

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Academic Programs	Credits
BS: Behavioral Sciences	60
Anthropology	
Public Health	
Student Development	
Substance Abuse	
BS: Family Studies	60
BS: General Studies	60
Cross-Cultural Relations	
Human Organization and Development	
BS: Psychology	60
General Program	
Health Psychology	
Pre-professional Program	
BS: Sociology	60
Development	
Deviant Behavior	
Sociology of the Family	
Minor in Anthropology	30
Minor in Behavior Sciences	30
Minor in Behavior Sciences (with teacher certification)	36
Minor in Family Studies	30
Minor in Geography	30
Minor in Psychology	30
Minor in Sociology	30
MSA	48
• Community Development	
• International Development	

The Department of Behavioral Sciences is organized as a consortium where faculty share expertise and research endeavors in related disciplines. The behavioral sciences are concerned with the study of how human beings think and behave as individuals, and in sociocultural and ecological systems.

DEPARTMENT AIMS

This department aims (1) to introduce students to the salient discoveries and procedures accumulated from research in behavioral sciences disciplines and (2) to empower students to utilize this knowledge in furthering the mission of Seventh-day Adventists: restoring men and women to the image of their Maker. The department fulfills these aims by three principal means: (1) instruction by Christian professors; (2) coursework which develops a strong liberal-arts foundation and interdisciplinary preparation

leading to many different fields of Christian service; and (3) extracurricular participation by students in voluntary religious activities, community service, and research.

TEACHER CERTIFICATION

Students seeking teacher certification on the secondary level may enroll in the BS in Behavioral Sciences (Student Development Emphasis), the Behavioral Sciences minor in teacher certification, or the Sociology minor. Elementary certification is available only for the Behavioral Sciences minor in teacher certification. See the School of Education for full details.

MINORS, COGNATES, AND ELECTIVES

Majors should take advantage of the variety of undergraduate courses available at Andrews to acquire a broad education. Combining behavioral science courses with other areas such as business, health, and language provides avenues for reaching individual professional goals.

Students should counsel with advisers in selecting cognates and electives. Volunteer work is most beneficial and majors are urged to seek opportunities through the Community Service Assistantship Program (CSAP). Those planning to pursue graduate studies should seek opportunities in research.

RESEARCH SEQUENCE

It is strongly recommended that all BS majors take the Research Methods Sequence during their junior year.

Undergraduate Programs**BS: Behavioral Sciences—60****Core Courses—30-32**

ANTH124 or 336, 200; PSYC101, 210, 450; SOCI119, 306, 427; PSYC469 OR SOCI474.

A minimum of 36 credits must be selected from courses numbered 300 or above.

Cognate Requirement

STAT285.

The remaining credits are to be selected from at least two of the areas offered in the department or as specified in an area of emphasis below. Majors are required to take the major field test in either psychology or sociology. Those with specific vocational goals may wish to consider one of the following areas of emphasis:

Anthropology Emphasis**Core Courses—30-32****Emphasis Courses**

ANTH205, 478, 496 (6 credits); ENGL440; FMST350; SOCI425.

Required cognates

BIOL111,112 or 155, 156, 157; ECON308; GEOG125; HIST400; STAT285. For students planning graduate-level training in anthropology, foreign language is highly recommended.

Public Health Emphasis**Core Courses—30-32****Emphasis Courses**

BHSC440 Topics: Human Disease, Community Health, Health Behavior Change, Substance Abuse Prevention; PSYC319, 354, 420, 460, 471; SOCI415, 420, 428.