ART & DESIGN RESOURCE GUIDE FALL 2022

ART & DESIGN CONTACT INFORMATION

NMU SCHOOL OF ART & DESIGN

School of Art & Design

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DEVOS ART MUSEUM

DeVos Art Museum

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Emily Lanctot Director and Curator 906-227-1481 elanctot@nmu.edu

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SCHOOL TECHNICIANS

Adam Shimum IT Support Specialist 906-227-2111 ashimun@nmu.edu

BUILDING HOURS

Please See Website For Current Hours: https://art.nmu.edu/department/resources/building.html

ART STUDIO HOURS

Please See Website For Current Hours: https://art.nmu.edu/department/resources/building.html

DEVOS ART MUSEUM HOURS

Please See Website For Current Hours: https://art.nmu.edu/department/resources/building.html

SCHEDULING APPOINTMENTS

Students need to schedule appointments with a 24 hour notice with faculty. Some faculty may be using online systems for appointments so make sure you check the syllabus for the class.

ART & DESIGN FACULTY INFORMATION

ART EDUCATION

Michael Letts

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ART HISTORY

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Emily Lanctot

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Jessy Fleury

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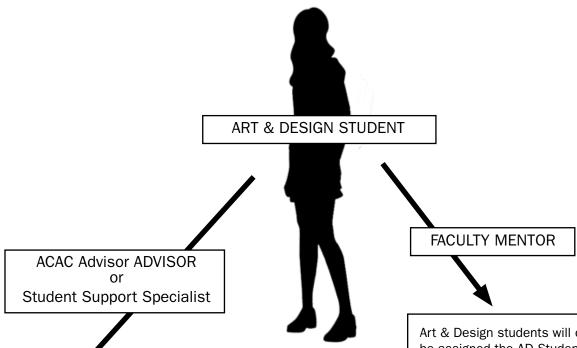
Chris Moore

chmoore@nmu.edu

Alison Taras

ataras@nmu.edu

ART & DESIGN ADVISING



New Art & Design Freshman are assigned an Academic and Career Advisement Center (ACAC) advisor and are required to meet with that advisor each semester to have holds removed for registering for classes. This requirement last for the first two semesters of a students time at NMU. After that time students are assigned to the School's Student Support Specialist

Please make sure you make an appointments early enough for registration, the week before will be far too crowded and you will delay your registration. Registration for Winter Semester is in late October and Registration for Fall Semester is in late March, check NMU Registrars web page for detailed schedules.

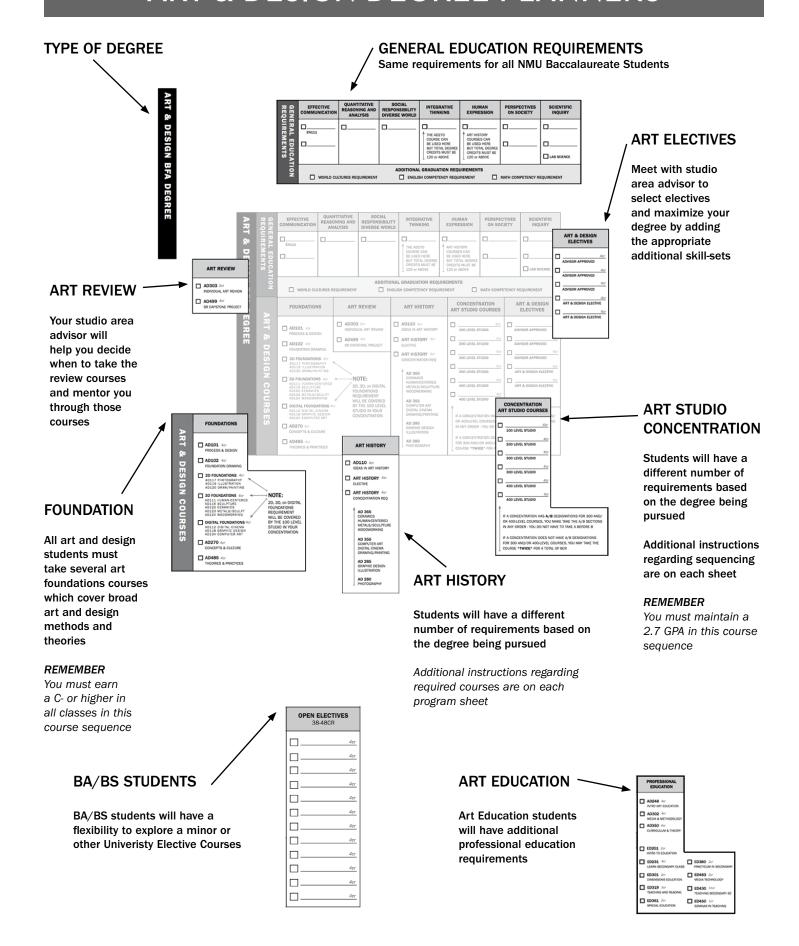
AD Student Support Specialist

Anastasia Greer 906-227- 1784 angreer@nmu.edu Art & Design students will officially be assigned the AD Student Support Specialist as an advisor at the end of their second semester.

However, you should be seeing your FACULTY MENTOR in the Art & Design building every semester including your first semester!

The Faculty Mentor can review your course selection prior to your meetings with ACAC and is also the individual who is knowledgeable about your concentration in art and design. Your Faculty Mentor is a working artist who will teach the courses in your concentration and knows how to review your artistic progress through the program. They can recommend the best path for you as a

ART & DESIGN DEGREE PLANNERS



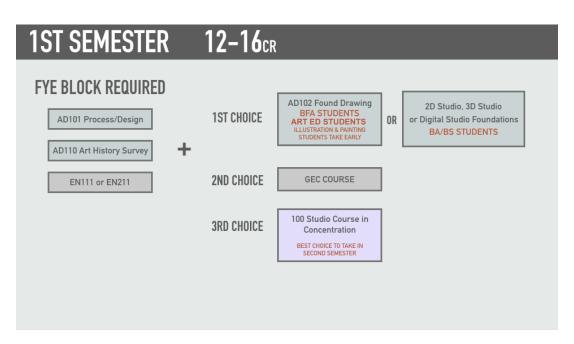
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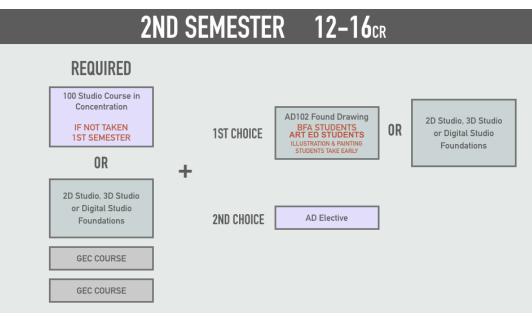
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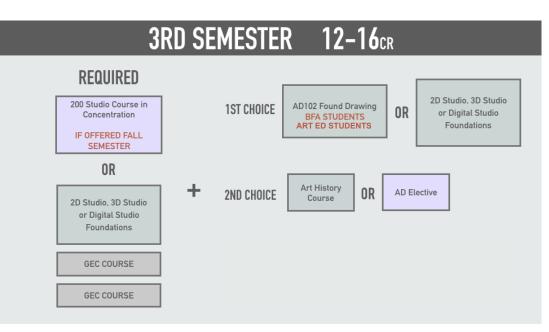
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SOCIAL MEDIA DESIGN MANAGEMENT

1st SEMESTER 12-16cr

AD101 Process/Design

AD118 Graphics Fnd

OR

GEC COURSE

PY100 Intro to Psychology

OR

SC101 Intro to Sociology

EN111 or EN211

OR

GEC COURSE

SOCIAL MEDIA DESIGN MANAGEMENT

2ND SEMESTER 12-16CR

AD118 Graphic Fnd IF NOT TAKEN 1st SEMESTER

MKT230 Intro to Marketing

PY100 Intro to Psychology OR SC101 Intro to Sociology

EN211 OR GEC COURSE

SOCIAL MEDIA DESIGN MANAGEMENT

3RD SEMESTER 12-16CR

AD218 GD Typographic

PR231 Intro to Relations

PY100 Intro to Psychology

OR SC101 Intro to Sociology

OR GEC

AD117 Photo Fnd

OR AD112 DCinema Fnd

OR AD134 ComArt Fnd

FOUNDATIONS

AD 101 Process and Design

4 credit hours Offered: Fall, Winter

An exploration of various technical methods of construction, production, and assembly used in the creation of art forms (2D, 3D, and 4D), integrated with an introduction to and application of the visual vocabulary of art (visual elements, principles of design, color theory).

AD 102 Foundational Drawing

4 credit hours Offered: Fall, Winter

Introductory drawing course focusing on the methods and knowledge needed to create various types of spatial illusions and translate observed information onto a two-dimensional surface.

AD 270 Concepts and Culture

4 credit hours

Offered: Fall, Winter

Applies toward the integrative thinking (intt) general education

requirement

Prerequisite: AD 101, 110 or 240 or 355 and sophomore

standing.

This course engages in the direct experiential understanding and development of ideas and intentions within art and design. The emphasis is on understanding the relationship of art/design and its maker to culture at-large as a method of contextualizing a student's current and future work. The comparative study of cultural products, visual representation, and visual conditioning, both historically and in contemporary society, will be discussed.

AD 485 Foundations: Theories and Practices

4 credit hours Offered: Fall, Winter Prerequisite: AD 270

Utilizing a range of analytical and practical frameworks this course includes an intensive examination of the methods, production, values, philosophies and theories surrounding art and design.

ART REVIEW

AD 303 Individual Art Review

2 credit hours Offered: Fall, Winter Graded: S/U

Prerequisite: AD 101 and 270 with C- minimum grade; completion or concurrent enrollment in 2D Studio, 3D Studio, and Digital Studio Foundation courses with C- minimum grade; completion or concurrent enrollment in selected 300-level studio concentration; permission of the instructor of the studio concentration. Students must attain a "B-" (2.70) average in their concentration to enroll.

In this course students will develop resumes, statements of intent, and portfolio presentations to be reviewed and evaluated by a small panel of faculty. Emphasis is placed on evidence of technical mastery, control of composition and design, and the successful development of ideas and concepts within the portfolio.

Note: Although this course may be repeated, students receiving either two "U" grades or who withdraw twice from the course will not be allowed to continue in the program.

AD 499 Senior Capstone Project

4 credit hours Offered: Fall, Winter

Prerequisite: AD 303 (with a grade of S); completion of studio concentration courses with "B-" (2.70) average; completion or concurrent enrollment in 400-level studio concentration; acceptance of the AD 499 Senior Capstone Project Application.

Development of a capstone project that demonstrates the student's competence in their discipline. Project will be exhibited in a school-approved gallery. Practices and expectations for professionals within the various fields of art and design will be discussed.

ART HISTORY

AD 110 Ideas in Art and Design History

4 credit hours Offered: Fall

This course draws from the disciplines of art history, philosophy, psychology and the social sciences in order to consider questions of interest to art historians and artists alike: What are the functions of art? Which principles shape visual expression? How is visual art related to larger cultural forces including religious, political, economic and so on? What is the relationship between art, artists and audiences? The course objective is to investigate these questions in a way that is relevant to each student's own creative development.

AD 200 Native American Art and Architecture

4 credit hours Offered: Fall

Applies toward the world cultures university requirement (wc) general

education requirement.

Prerequisite: EN 111 recommended.

A study of Native art and architecture from the pre-contact period to the present. A contextual approach is used to analyze material produced by the Anishinaabe, the Haudenosaunee and other indigenous peoples of North America.

AD 230 History of World Art: Ancient to Medieval

4 credit hours Offered: Fall

An introduction to world art from prehistory to 1400. The course introduces issues of artistic structure, meaning, context, technique and style in relation to specific artistic traditions. Its content includes visual arts of Africa, the Americas, Asia and the West from prehistory through the Gothic period.

AD 240 History of World Art: Renaissance to Modern

4 credit hours Offered: Winter

An introduction to world art from 1400 to the present. The course introduces issues of structure, meaning, context, technique and style in art in relation to specific artistic traditions. Content includes the visual arts of Africa, the Americas, Asia, the Pacific and the West from the Renaissance through Postmodernism.

AD 260 Why America Looks This Way

4 credit hours

Offered: Fall, Winter, Summer

Applies toward the human expression (hume) general education

requirement.

Survey of the ideas and events determining the development of American architecture.

AD 265 Art and Architecture of Japan

4 credit hours

Offered: Fall semester of odd-numbered years

Applies toward the world cultures university requirement (wc) general education requirement.

Survey of the visual arts and architecture of Japan from prehistory to the present. Includes consideration of the core values that are expressed through Japanese art.

AD 280 History of Photography

4 credit hours Offered: Fall

A study of the photographic medium as a means of political, technological, philosophical and creative endeavors from the invention of the daguerreotype to digital imaging. The history will be presented within the context of the development genres demonstrating the reciprocal effect of the medium with society.

AD 281 History and Culture of Animation

4 credit hours Offered: Fall

An introduction to the historical development of world animation from early optical devices for creating the illusion of motion to the latest computer-animated movies. While the history and culture of 2D animation is featured, stop-motion animation, 3D animation, and experimental animation (19th-21st centuries) are discussed as well.

AD 285 History of Graphic Expression

4 credit hours Offered: Fall

Chronological exploration of the history of graphic design and illustration from the era of the illuminated manuscript to the present. Emphasis is given to graphic expression in modern society from the mid-19th century on. Digital design and illustration are included.

ART HISTORY

AD 300 Art and Ideas in Asian Civilizations

4 credit hours

Offered: Winter of odd-numbered years

* Applies toward the world cultures university requirement (wc) general education requirement.

Prerequisite: EN 211 with a grade of "C" or better or HON 102 and HON 112 and junior standing.

Engages the formative ideas and artistic traditions of India, China and Japan. Considers the intersection of social forms, intellectual patterns, religious beliefs and aesthetic expressions within each cultural tradition.

AD 330 History of Renaissance Art

4 credit hours

Offered: Winter of even numbered years

Study of European art from 1400 to 1600 including examples of painting, sculpture, prints, architecture and the applied arts with an emphasis on painting. The art will be analyzed in relation to social contexts and the artists' intentions and methods.

AD 345 Modernity in Art: The Nineteenth Century

4 credit hours

Offered: Fall of odd numbered years

Prerequisite: EN 211 with a "C" or better and junior standing.

Survey of European and American art of the nineteenth century with introductory discussion of the late-eighteenth-century art. Artworks in a variety of media, styles, and nationalities are discussed, whereas the focus is on French Impressionist and Post-Impressionist paintings.

AD 355 Twentieth Century Art and Architecture

4 credit hours Offered: Winter

Applies toward the human expression (hume) general education

requirement.

Prerequisite: EN 211 with a grade of "C" or better or HON 102 and

HON 112 and sophomore standing.

Survey of visual art and architecture in the Western world from the second half of the 19th century through the present decade. The conceptual basis of the arts and their place in society is examined within a historical framework.

AD 365 History of Modern Craft and Design

4 credit hours Offered: Winter

Prerequisite: Junior standing.

History of modern craft and design considers the course of progressive design in the applied arts (craft, product and furniture design) from the nineteenth century to the present. Major movements in design history including the arts and crafts movement, art nouveau, modernism and postmodernism are investigated within a chronological framework. Social issues affecting design—from the relationship between design and consumerism, design and modern management practices, and design and national identity, to design ethics—will be considered within their historical contexts.

AD376 Art, Gender, Psyche

4 credit hours Offered: Winter

Iconographic and contextual exploration of visual images in historical and contemporary artworks through critical integration of two distinctive approaches: gender and psychoanalysis. Issues include creativities and struggles of major women artists in history, visual expressions of gender and sexuality, and imagery of the unconscious mind.

CERAMICS

AD 122 Ceramics: Foundations

4 credit hours Offered: Fall, Winter

Introduction to the methods and techniques of producing ceramic objects covering the various forming, finishing and firing techniques. Students experience techniques ranging from pinch, coil and slab construction.

AD 222 Ceramics: Wheel Forms

4 credit hours Offered: Fall

Development of the traditional skills of throwing, along with glazing and firing procedures. Supporting information is derived from historical and contemporary wheel-thrown forms.

AD 322A Ceramics Seminar: Mold Making

4 credit hours

Offered: Fall, even numbered years Prerequisite: AD 101 and AD 122.

Production of a collection of ceramic pieces that combine traditional and experimental techniques to develop a personal approach toward the ceramic material. Emphasis is on the fabrication of mold making for the investigation of ceramic objects. Personal works will engage with thematic explorations of various cultural topics.

AD 322B Ceramics Seminar: Surfaces

4 credit hours

Offered: Fall, odd numbered years Prerequisite: AD 101 and AD 122.

Production of a collection of ceramic pieces that combine traditional and experimental surface concerns and techniques to develop a personal approach toward the ceramic material. Emphasis is on the finishing and technical concerns related to clay and glaze formulation along with firing procedures for the investigation of ceramic objects. Personal works will engage with thematic explorations of various cultural topics.

AD 422A Ceramics Seminar: Design Practices

4 credit hours

Offered: Winter, odd numbered years

Prerequisite: AD 303 or concurrent enrollment, AD 322A or AD 322B, or instructor permission.

Production of a body of work that supports the student's personal concern for form supported by ideological and theoretical sources. Individual solutions for construction and finishing are stressed with a focus on current trends and issues in ceramics.

AD 422B Ceramics Seminar: Professional Practices

4 credit hours

Offered: Winter, even numbered years

Prerequisite: AD 303 or concurrent enrollment, AD 322A or 322B; or instructor permission.

Continuation of the study of the ceramic process to develop a body of work representing a personal approach supported by ideological and theoretical sources. Students will develop documents, objects and images as part of a professional portfolio to support BFA/BA thesis research

COMPUTER ART

AD 134 Computer Art: Foundations

4 credit hours Offered: Fall, Winter

Introduction to the concepts and practices of computer art. Foundational approaches to photoillustration, animation, and 3D modeling will be explored.

Note: Formerly Electronic Imaging

AD 234 Computer Art: Motion

4 credit hours Offered: Winter

Prerequisite: AD 134 or instructor permission.

Development of concepts and practices of computer art with an emphasis on keyframe and procedural animation methods.

AD 334A Computer Art: Integration

4 credit hours

Offered: Fall, even numbered years

Prerequisite: AD 234 or instructor's permission.

Development of concepts and practices of computer art with an emphasis on integrative methods of production. The intersections and integrative workflows of modeling, digital sculpting, animation, scripting, and interactivity will be explored.

AD 334B Computer Art: Motion II

4 credit hours

Offered: Fall, odd numbered years

Prerequisite: AD 234 or instructor permission.

Development of concepts and practices of computer art with an emphasis on digital forms of animation. Creative and commercial applications of animation will be explored while developing pre-professional production workflows.

AD 434A Computer Art: Advanced Studio

4 credit hours

Offered: Winter, odd number years

Prerequisite: AD 303 or concurrent enrollment, AD 334A or AD 334B, or instructor permission.

Development of concepts and methods for computer art with a focus on portfolio development. Topics may include advanced animation, experimental animation, scripting, game development, motion capture, digital sculpting, and advanced rendering with emphasis on creative exploration.

AD 434B Computer Art: Production Practices

4 credit hours

Offered: Winter, even number years

Prerequisite: AD 303 or concurrent enrollment, AD 334A or AD 334B, or instructor permission.

Development of concepts and methods for computer art with a focus on portfolio development. Topics may include advanced animation, scripting, game development, motion capture, digital sculpting, and advanced rendering with emphasis on professional production practices.

DIGITAL CINEMA

AD 112 Digital Cinema: Foundations

4 credit hours Offered: Fall, Winter

The foundations of digital video production; how to shoot and edit short-form cinematic works; survey of fiction, nonfiction, and experimental video production.

AD 212 Digital Cinema: Image Design

4 credit hours
Offered: Winter

Prerequisite: AD 112 or instructor permission.

Continued development of digital video production skills and knowledge emphasizing fiction video production; lighting strategies, camera work, composition, and post-production.

AD 312A Digital Cinema: Nonfiction Forms

4 credit hours

Offered: Fall, odd numbered years

Prerequisite: AD 212 or instructor permission.

Continued development of digital video and audio production skills and knowledge emphasizing nonfiction video production.

AD 312B Digital Cinema: Alternative Forms

4 credit hours Offered: Fall

Prerequisite: AD 212 or instructor permission.

Continued development of digital video and audio production skills and knowledge emphasizing experimental or innovative time-based media production.

AD 412A Digital Cinema: Production

4 credit hours

Offered: Winter, odd numbered years

Prerequisite: AD 303 or concurrent enrollment, AD 312A or AD 312B or instructor's permission.

Continued development of digital video and audio production skills and knowledge emphasizing development, production, and realization of a group practicum project; professional portfolio and statement development.

AD 412B Digital Cinema: Editing

4 credit hours

Offered: Winter, even numbered years

Prerequisite: AD 303 or concurrent enrollment, AD 312A or AD 312B, or instructor permission.

Continued development of digital video and audio production and post-production skills and knowledge emphasizing editing techniques; editing for impact, mood story; professional portfolio and statement development.

DRAWING/PAINTING

AD 120 Drawing/Painting: Foundations

4 credit hours Offered: Fall, Winter

Introductory drawing/painting course focusing on methods and knowledge needed to create various types of spatial illusions and translate observed information on to a two-dimensional surface.

AD 220 Intermediate Drawing/Painting

4 credit hours Offered: Winter Prerequisite: AD 120.

Development of techniques and skills related to all aspects of spatial illusions. Emphasis is placed on the importance of drawing as a basis for visual growth. Techniques for developing personal style and content are introduced.

AD 320A Advanced Drawing/Painting: History + Influence

4 credit hours.

Offered: Fall, even numbered years

Prerequisite: AD 220 or instructor permission.

Students will produce several bodies of work that demonstrate understanding of the psychological, historical, and social context of their studio practice within the history of painting and drawing. Students may produce work in any combination of drawing and painting media.

AD 320B Drawing/Painting: Research Strategies

4 credit hours

Offered: Fall, odd numbered years

Prerequisite: AD 220 or instructor permission.

Students will produce several bodies of work that demonstrate understanding of a range of research strategies related to personal, cultural, and historical themes. Studio work and terminology will be informed by readings, discussions, critiques, and presentations. Choice of media will largely be determined by the student.

AD 420A Drawing/Painting: Seminar I

4 credit hours

Offered: Winter, even numbered years

Prerequisite: AD 303 or concurrent enrollment, AD 320A or AD320B or

instructor permission.

Students will plan, research, and execute self-driven projects. The content of these projects will follow consistent and coherent themes determined by the student. Content will be supported by readings, discussions, critiques, and supported exposure to professional opportunities in the field.

AD 420B Drawing/Painting: Seminar II

4 credit hours

Offered: Winter, odd numbered years

Prerequisite: AD 303 or concurrent enrollment, AD 320A or AD320B or instructor permission.

Students will plan, research, and execute self-driven projects. The content of these projects will follow consistent and coherent themes determined by the student, which may also be related to their Senior Capstone Project. Course content will be supported by readings discussion and supported opportunities for professional development in the field.

GRAPHIC DESIGN

AD 118 Graphic Design: Foundations

4 credit hours Offered: Fall, Winter

Introduction to graphic design concepts with the development of technological and craft skills. Emphasis is placed on the use of process, typography and composition as well as the foundational skills of gestalt and color theory.

AD 218 Graphic Design: Typographic Systems

4 credit hours Offered: Fall, Winter Prerequisite: AD 118.

Implementation of typographic systems in concept and composition. Emphasis is placed on process, letterform, and layout as well as typography's use in interactivity and motion.

AD 318A Graphic Design: Web Design and Production

4 credit hours Offered: Fall Prerequisite: AD 218.

Advanced studies in the design and development of web sites. Emphasis is placed on the conceptual development and layout of websites as well as its use in multiple devices and environments. Front-end HTML and CSS coding will continue to be developed throughout this course.

AD 318B Graphic Design: Layout and Production

4 credit hours Offered: Winter Prerequisite: AD 218.

Advanced studies in visual systems; emphasis is placed on conceptual development, complex layout, production skills and three-dimensional design.

AD 418A Graphic Design: Interactivity Seminar

4 credit hours Offered: Winter

Prerequisite: AD 303 or concurrent enrollment, AD 318A or AD 318B, or instructor's permission.

Students will learn to apply research, problem solving, and the user's experience to interactivity. This course's focus is on app/software interfaces and other media, wayfinding and the conceptual development of interaction and design.

AD 418B Graphic Design: Branding Seminar

4 credit hours Offered: Fall

Prerequisite: AD 303 or concurrent enrollment, AD 318A or AD 318B, or instructor permission.

Advanced research and visual problem solving. Emphasis is placed on the creation and application of large-scale branding and identity systems.

HUMAN-CENTERED DESIGN

AD 111 Human Centered Design: Foundations

4 credit hours Offered: Fall, Winter

An introduction to design principles and processes while employing basic problem-solving techniques. Emphasis will be placed on development of design sketching and model making as a conceptual tool, interaction with form, thought processes, craftsmanship, and use of materials.

AD 211 Human Centered Design: Digital Visualization

4 credit hours Offered: Winter Prerequisite: AD 111.

Introduction to computer modeling, digital manufacturing process with advanced presentation and conceptual development skills.

AD 311A Human-Centered Design: Materials and **Processes**

4 credit hours

Offered: Fall, odd numbered years

Prerequisite: AD 211 or instructor permission.

This course is an exploration and application of materials, manufacturing processes, and techniques used in the production of products. Emphasis placed on the relationship materials, efficiency, sustainability and the user.

AD 311B Human Centered Design: Human Factors and Semantics

4 credit hours

Offered: Fall, even numbered years

Prerequisite: AD 211 or instructor permission.

This course explores the value of human factors in regard to physical and psychological realm as well as the social implications of design within culture as language through semantic principles.

AD 411A Human Centered Design: Design Research

4 credit hours

Offered: Winter, odd numbered years

Prerequisite: AD 303 or concurrent enrollment, AD 311A or AD 311B. or instructor's permission.

This course is a collaborative project based studio that focuses on problem finding as well as problem solving. Students will develop skills in exploratory research of trend, behavior, culture and concept.

AD 411B Human Centered Design: Senior Design Studio

4 credit hours

Offered: Winter, even numbered years

Prerequisite: AD 303 or concurrent enrollment, AD 311A or AD 311B,

or instructor permission.

This studio is a culmination of knowledge skills and process acquired through previous courses. Individuals will define a self-generated research project that address contemporary cultural issues. Preparation of a professional portfolio of work and resume will also be required.

ILLUSTRATION

AD 119 Illustration: Foundations

4 credit hours Offered: Fall, Winter

Introduction to illustration methods and concepts that enable the communication of an idea. Projects emphasize constructive drawing techniques, linear perspective, compositional design, ideation, and narrative picture-making.

AD 219 Illustration: Methods and Materials

4 credit hours Offered: Winter Prerequisite: AD 119.

Exploration of traditional techniques and methods for illustration with an emphasis on the narrative potential of applying color (theory) and material usage.

AD 319A Illustration: Digital Media

4 credit hours

Offered: Fall, odd numbered years

Prerequisite: AD 219 or instructor permission.

Exploration of digital media as a picture-making tool for illustrators. Projects emphasize ideation in a commercial context.

AD 319B Illustration: Narrative Figure

4 credit hours

Offered: Fall, even numbered years

Prerequisite: AD 219 or instructor permission.

Exploration of the human figure as a structural form and vehicle for expression in narrative art and illustration. Emphasis is placed on anatomy, working from observation, construction, gesture, composition, research, and creating reference to aid imagination.

AD 419A Illustration: Advanced Studio I

4 credit hours

Offered: Winter, even numbered years

Prerequisite: AD 303 or concurrent enrollment, AD 319A or AD 319B, or instructor's parmission

or instructor's permission.

Development of conceptual and problem-solving abilities within the framework of varied commercial situations, while encouraging personal artistic voice. Ideation, research, and the professional practice of an illustrator are emphasized.

AD 419B Illustration: Advanced Studio II

4 credit hours

Offered: Winter, odd numbered years

Prerequisite: AD 303 or concurrent enrollment, AD 319A or AD 319B,

or instructor's permission.

Further exploration of conceptual and problem-solving abilities within the framework of varied commercial situations, while encouraging personal artistic voice. Ideation, research, and the professional practice of an illustrator are emphasized.

METALSMITHING/SCULPTURE

AD 116 Sculpture: Foundations

4 credit hours Offered: Fall

An introduction to methods of synthesizing form in the production of sculpture. Process, technique, design and composition will be emphasized in assigned projects throughout the semester.

AD 123 Metalsmithing/Jewelry: Foundations

4 credit hours Offered: Fall, Winter

Introduction to methods and materials used to design and construct metal objects and jewelry. The course covers all traditional metalsmithing skills such as forming, cutting, soldering, casting, and finishing.

AD 223 Blacksmithing

4 credit hours Offered: Winter

Development of skills and knowledge of basic blacksmithing in the production of utilitarian and non-utilitarian forged objects. Beginning through advanced techniques of forging hot steel are covered.

AD 323A Production Casting and Mold Making

4 credit hours

Offered: Fall, odd numbered years

Prerequisite: AD 123 or instructor permission.

Production casting and mold-making for small metal outcomes: jewelry/sculpture. Individualized research of centrifugal, vacuum and gravity casting in combination with RTV and volcanized rubber molds.

AD 323B Sheet Metal Forming

4 credit hours

Offered: Fall, even numbered years

Prerequisite: AD 123 or instructor permission.

This course introduces sheet metal forming techniques including raising, sinking, folding and construction. Each student will produce a collection of finished works utilizing these techniques.

AD 423A Metalsmithing/Sculpture: Seminar

4 credit hours

Offered: Winter, odd numbered years

Prerequisite: AD 303 or concurrent enrollment, AD 323A or AD 323B, or instructor permission.

Production of a group of artwork focusing on multi-media assemblage, found objects and combined technologies.

AD 423B Foundry Bronze and Aluminum Casting

4 credit hours.

Offered: Winter, even numbered years

Prerequisite: AD 303 or concurrent enrollment, AD 323A or AD 323B, or instructor permission.

Development of skills and concepts in the production of sculpture using the techniques of foundry style investment bronze and aluminum casting. Concentration is focused upon learning various methods of casting, mold preparation, venting, gating and investing for gravity pour procedures. Students will also learn and practice the operation of the foundry in the production of their assignments.

PHOTOGRAPHY

AD 117 Photography: Foundations

4 credit hours.

Offered: Fall, Winter, Summer

Introduction to the fundamental technical and compositional aspects of digital photography. Students practice compositional strategies, methods of controlling manual digital SLR cameras, and basic non-destructive digital post-processing techniques through relevant and interrelated readings, lectures, discussions, demonstrations, assignments, and individual and group critiques.

AD 217 Photography: Methods and Techniques

4 credit hours. Offered: Fall, Winter Prerequisite: AD 117.

The course focuses on extending students' knowledge of fundamental photographic methodologies including professional lighting techniques, basic film and silver-based darkroom processes, and advanced non-destructive digital post-processing techniques. Students explore traditional photographic concepts and genres through relevant and interrelated readings, lectures, discussions, demonstrations, assignments, and individual and group critiques.

AD 317A Photography: The Extended Image

4 credit hours

Offered: Fall, odd numbered years

Prerequisite: AD 217 or instructor permission.

Students are introduced to techniques for expanding work beyond the traditional digital print while continuing to advance their individual photographic practices.

AD 317B Photography: Thematic Directions

4 credit hours

Offered: Fall, even numbered years

Prerequisite: AD 217 or instructor permission.

Students explore conceptual approaches to a range of photographic genres through creative projects while continuing to advance their individual photographic practices.

AD 417A Photography: Contemporary Practices

4 credit hours

Offered: Winter, odd numbered years

Prerequisite: AD 303 or concurrent enrollment, AD 317A or AD317B or instructor's permission.

Design and implementation of individual advanced projects while exploring contemporary theoretical and critical photographic concepts.

AD 417B Photography: Professional Practices

4 credit hours

Offered: Winter, even numbered years

Prerequisite: AD 303 or concurrent enrollment, AD 317A or AD317B or instructor's permission.

Design and implementation of individual advanced projects while gaining knowledge of professional practices within the photographic field.

WOODWORKING/FURNITURE

AD 124 Woodworking: Foundations

4 credit hours Offered: Fall, Winter

Introduction to both traditional hand tool joinery and contemporary joinery practices. Students are introduced to wood as a material, the history of woodworking, and contemporary theory in the field.

AD 224 Woodworking: Joinery, Boxes, and Cabinets

4 credit hours Offered: Winter

Introduction to the joinery techniques used in creating functional solid wood and plywood cabinetry. Emphasis is placed on the design and construction of doors, drawers, cabinets, and the use of both store-bought and handmade hardware.

AD 324A Woodworking: Construction, Technology, and Sustainability

4 credit hours

Offered: Fall, odd numbered years

Prerequisite: AD 124 or AD 224 or instructor permission.

Development of a professional portfolio through the production of new works in the studio. Emphasis is placed on understanding the various parameters of design, aesthetics, technology, sustainability, and relevance to contemporary standards in the field. Use of wood as a primary media is emphasized, though the use of alternate materials is also discussed as appropriate.

AD 324B Woodworking: Form, Volume, and Function

4 credit hours

Offered: Fall, even numbered years

Prerequisite: AD 124 or AD 224 or instructor permission.

Continued development of a professional portfolio through the production of new works in the studio. Emphasis is placed on understanding the various parameters of design, aesthetics, and relevance to contemporary standards in the field. Use of solid wood and plywood as a primary media is emphasized, while learning new techniques to explore volume and form in functional objects.

AD 424A Alternative Materials in Design

4 credit hours

Offered: Winter, even numbered years

Prerequisite: AD 303 or concurrent enrollment, AD 324A or AD324B or

instructor permission.

This course is a continuation of and expansion upon the skills and techniques covered in previous woodworking courses, while further developing personal creativity and design sensibilities. Emphasis is placed on the methods of designing and building functional objects with non-traditional construction materials including metal, cement, fabric, foam, paper and plastic.

AD 424B Woodworking: Seating and Complex Joinery

4 credit hours

Offered: Winter, odd numbered years

Prerequisite: AD 303 or concurrent enrollment, AD 324A or AD324B or

instructor permission.

Continued development of a professional portfolio. Emphasis is placed on the application of ideology and theory while maintaining a close attention to design, process, and concept of chair construction.

SPECIAL COURSES

AD 298 Directed Study

1-4 credit hours Offered: On demand

Prerequisite: Freshman or sophomore standing and instructor's

permission.

A course arranged by contract with the instructor of a particular studio area.

AD 295 Special Topics in Art and Design

1-4 Credit Hours Offered: On demand

Prerequisite: Freshman or sophomore standing.

A course providing art and design experiences not emphasized in regular course offerings.

Note: May be repeated if topic differs.

AD 492 Internship in Art and Design

1-4 credit hours Offered: On demand

Graded: S/U

Prerequisite: 160, AD 175, AD 270, AD 303, GPA 2.7, junior standing

and approval of the major professor.

The object of this course is to provide Art and Design majors with professional work experience in their chosen area of concentration.

AD 495 Special Topics in Art and Design

1-4 cr.

Offered: On demand

Prerequisite: Junior standing and instructor's permission. A course providing art and design experiences not emphasized in regular course offerings.

Note: May be repeated if topic differs.

AD 498 Directed Study

1-4 Credit Hours Offered: On demand

Prerequisite: Junior standing and instructor's permission.

A course arranged by contract with the instructor of a particular studio area.

ART EDUCATION

AD 248 Introduction to Art Education

4 Credit Hours

Offered: Offered every third semester. Consult with adviser for which semester course will be offered.

Prerequisite: AD 101, AD 270, a minimum grade point average of 2.70 in the department and admission to a teacher education program. Students must have a portfolio review of previous work.

An introduction to art education and concepts of knowledge, values and skills with different media in the art classroom. Emphasis is placed on comprehensive art education, audiovisual productions, planning and organizing of an art room and writing lesson plans. A "B" or higher must be earned to take AD 302.

AD 302 Media and Methodology for Art Education

4 Credit Hours

Offered: Offered every third semester. Consult with adviser for which semester course will be offered.

Prerequisite: Admission into pre-methods phase of the School of Education, Leadership and Public Service, ED 201, ED 231, ED 301 and AD 248. AD 248 with a minimum grade of "B" and a minimum GPA of 2.7 in the department.

To explore a variety of media used in the art classroom and to gain knowledge, values and skills in writing comprehensive art education lessons. To implement lesson plans in the schools/museums for practical application.

AD 310 Art for the Elementary Classroom Teacher

2 Credit Hours Offered: Fall. Winter

Prerequisite: Admission to teacher education.

A survey of a variety of teaching strategies to implement concepts of knowledge, values and skills in the art classroom. Emphasis is placed on design, creativity, visual structures, child development, artists, art criticism, aesthetics, lesson planning, and art production using a variety of media.

AD 350 Curriculum Theory and Objectives for Art Education

4 Credit Hours Offered: Fall

Prerequisite: Admission to the methods phase of teacher education, AD 248 and AD 302 with a minimum grade of "B". Transfer and post-baccalaureate students must have a portfolio of their work approved by the department.

An examination of how the history of art education influences art curricula today. Emphasis is on a written 15-week curriculum, discussion of creative problem solving, discipline, motivation, evaluation and student-teaching experience.

Note: May not be applied toward a non-teaching major or any minor in art and design. The art education courses listed above must be taken sequentially.

SOCIAL MEDIA DESIGN MANAGEMENT

AD 101 Process and Design

4 credit hours Offered: Fall, Winter

An exploration of various technical methods of construction, production, and assembly used in the creation of art forms (2D, 3D, and 4D), integrated with an introduction to and application of the visual vocabulary of art (visual elements, principles of design, color theory).

AD 118 Graphic Design: Foundations

4 credit hours Offered: Fall, Winter

Introduction to graphic design concepts with the development of technological and craft skills. Emphasis is placed on the use of process, typography and composition as well as the foundational skills of gestalt and color theory.

AD 218 Graphic Design: Typographic Systems

4 credit hours Offered: Fall, Winter Prerequisite: AD 118.

Implementation of typographic systems in concept and composition. Emphasis is placed on process, letterform, and layout as well as typography's use in interactivity and motion.

AD 285 History of Graphic Expression

4 credit hours Offered: Fall

Chronological exploration of the history of graphic design and illustration from the era of the illuminated manuscript to the present. Emphasis is given to graphic expression in modern society from the mid-19th century on. Digital design and illustration are included.

AD 488 Social Media Design Management

Offered: Winter 4 credit hours

Prerequisite: Senior, AD218, AD285, PR330, MKT 432 or MKT470

Advanced research and visual problem-solving. Emphasis is placed on the creation and application and coordination of branding and identity systems for social media platforms.

Art Skill Courses and Art Electives

Please see Graphic Design, Computer Art, Digital Cinema, Photography, and Special Course listings in previous sections.

MKT 230 Introduction to Marketing

Offered: Fall, Winter, Summer

4 credit hours

Study of the basic marketing functions from a managerial standpoint. Emphasis is placed on the development of a marketing mix to enhance the operational performance of all organizations that undertake marketing activities. Students further develop marketing-related knowledge and skills through integrated assignments and exposure to additional topics in marketing; emphasis is on the strategic implications of marketing decision-making.

MKT 335 Consumer Behavior Analysis

Offered: Fall 4 credit hours

Study of important psychological, sociological and cultural determinants of buying. Students are expected to make applications of concepts, theories and principles to specific marketing problems.

MKT 432 Advertising and Integrated Marketing Communications

Offered: Winter 4 credit hours

Study of the need to consider consumer needs and experiences in developing advertising and sales promotion campaigns for both traditional firms and new service firms. Students are expected to make applications of concepts, theories and principles to specific marketing problems.

MKT 470 E-Commerce and Digital Marketing

Offered: Contact department for information 4 credit hours

Prerequisites: MKT 230, junior standing or instructor's permission.

As e-commerce and the usage of social media and mobile devices continue to grow in importance from a marketing perspective, a variety of strategic issues and implementation challenges arise when either transforming a firm's existing business model or developing a new one. An understanding of existing and emerging issues and successful practices related to marketing in a digital environment will be developed.

MKT 491 Internship in Marketing

Offered: On Demand: 1-4 credit hours

Prerequisites: Junior standing or instructor's permission.

Professional experience for qualified marketing students. Working relationships will be established with organizations. Students are required to write a paper and will be evaluated by their faculty supervisor in consultation with the employer.

SOCIAL MEDIA DESIGN MANAGEMENT

PR 231 Introduction to Public Relations

Offered: Fall 4 credit hours

Prerequisites: Admission to PR 231 requires a 2.25 GPA.

The theory and practice of public relations, its function in organizations and its role in society. Topics include the history, communication theories and ethics of public relations, areas of practice in public relations and career opportunities.

PR 330 Public Relations Message Design

Offered: Winter 4 credit hours

Prerequisites: EN 211 and a "C" or better in PR 231.

Focus is on research, writing and planning skills unique to public relations. Topics include news releases and media kits, backgrounders and position papers, newsletters and brochures, advocacy advertising and special event design.

SP 320 New Media Literacy

Offered: Fall 4 credit hours

The study of various forms of "new" media. Topics include description of and practices associated with various forms of new media, the ethics associated with usage, and the impact of new media on society.

PR 350 Sport Public Relations and Media

Offered: Every Three Semesters 4 credit hours Prerequisites: A 2.25 GPA, declaration of a major in Public Relations, and a "C" or better in PR 231.

Students learn about the sport public relations field with a focus on publicity and promotion techniques used to attract fan attention and generate revenue. Unique aspects related to media relations and social media promotion are also covered.

EN 217 News Writing and Reporting

Offered: Fall, Winter 4 credit hours

Prerequisites: EN211

The mechanics of hard news reporting and writing in a converged media environment. Frequent exercises and critiques.

EFFECTIVE COMMUNICATION (EFFC)

EN 080	Reading and Writing (4 cr.)
EN 109	Intensive College Composition (4 cr.)
EN 111 ¹	College Composition I (4 cr.)
EN 211 ¹	College Composition II (4 cr.)
FR 300	Reading and Writing (4 cr.)
GR 202	Intermediate German II (4 cr.)
GR 301	Advanced German I (4 cr.)
LDR 100	Effective Communication in the Workplace (4 cr.)
SN 202	Intermediate Spanish II (4 cr.)
SN 301	Advanced Spanish (4 cr.)
SP 100	Public Address (4 cr.)
SW 272	Basic Crisis Intervention Skills (4 cr.) (4-0-0)

QUANTITATIVE REASONING AND ANALYSIS (QUAR)

AS 103#	Observational and Solar System Astronomy (4 cr.) (3-0-3)
AS 104 #	Stellar/Galactic Astronomy and Cosmology (4 cr.) (3-0-3)
CS 120	Computer Science I (4 cr.) (4-0-0)
Data 109	Introduction to Statistics (4 cr.) (4-0-0)
EC 140	Consumer Economics (4 cr.) (4-0-0)
EC 410	Managerial Economics (4 cr.)
MA 101	Quantitative Literacy (4 cr.) (4-0-0)
MA 111	College Algebra for Calculus Preparation (4 cr.) (4-0-0)
MA 113	Finate Mathematics (4 cr.) (4-0-0)
MA 115	Precalculus (4 cr.) (4-0-0)
MA 161	Calculus I (4 cr.) (4-0-0)
PH 101	Eureka: Einstein, the Universe and Everything (3 cr.)
PH 102#	Physics of Sound and Music (3 cr.) (2-0-2)
PL 160	Introduction to Logic (4 cr.)
PSY 201	Psychological Research I: Statistical Applications (4 cr.) (3-0-2)
SO 208	Methods of Social Research I (4 cr.)

GENERAL EDUCATION COURSE LISTINGS SOCIAL RESPONSIBILITY IN A DIVERSE WORLD (SOCR)

1 COURSES REQUIRED

* World Cultures Course

AH 336	Health Care in a Multi-Cultural Society (3 cr.) (3-0-0)
AN 100 *	Introduction to Socio-Cultural Anthropology (4 cr.)
BC 415 *	Intercultural Communication (4 cr.)
CHN 101	Elementary Chinese I (4 cr.)
DFST 360	Deaf History (4 cr.)
EN 311	World Literature in English (4 cr.)
EN 311Z *	World Literature in English (4 cr.)
EN 314 *	Traditional Oral Literatures: Selected Native American Cultures (4 cr.)
EN 316 *	Native American Novels and Poetry (4 cr.)
EN 317 *	Native American Drama, Nonfiction and Short Stories (4 cr.)
EN 375	Diverse Traditions in American Literature (4 cr.)
EN 375Z *	Diverse Traditions in American Literature (4 cr.)
EN 378	Early African-American Literature (4 cr.)
EN 379	Modern African-American Literature (4 cr.)
EN 411	Topics in World Literature (3-4 cr.)
EN 411Z *	Topics in World Literature (3-4 cr.)
FR 101	Elementary French I (4 cr.)
GC 164 *	Human Geography (4 cr.)
GC 300 *	Regional Studies: World Cultures (4 cr.)
GN 100	Introduction to Gender and Sexuality Studies (4 cr.)
GR 101	Elementary German I (4 cr.)
GR 201	Intermediate German I (4 cr.)
HL 322 *	International Health Issues (4 cr.)
HL 386 *	Interdisciplinary Study in Global Health Care - Latin America (3 cr.) (0-0-6)
HON 301 *	World Cultures: A Humanities Perspective (4 cr.)
HON 302 *	World Cultures: Social Sciences (4 cr.)
HS 201 *	World History to 1520 (4 cr.)
HS 202 *	World History since 1400 (4 cr.)
HS 233 *	Native American History (4 cr.)
HS 252 *	History of the Middle East since 600 (4 cr.)
HS 254 *	History of Africa (4 cr.)
HS 255	History of Asia (4 cr.)
HS 339	United States Immigration History (4 cr.)
IP 190	Introduction to International Studies (4 cr.)
LDR 300	Leadership in Diverse Workplaces (4 cr.)
NAS 204 *	Native American Experience (4 cr.)
NAS 212 *	Michigan & Wisconsin Tribal Relations (4 cr.)
NU 386 *	Interdisciplinary Study in Global Healthcare - Latin America (3 cr.) (0-0-6)
PL 188	Introduction to Enviromental Philosophy (4 cr.) (4-0-0)
PL 270 *	World Religions (4 cr.)
PR 332	Sustainable Business (4 cr.) (4-0-0)
PS 207	Ancient and Medieval Political Thought (4 cr.)
PS 440	Race, Politics and Public Policy (4 cr.) (4-0-0)
RUS 101	Elementary Russian I (4 cr.)
SN 101	Elementary Spanish I (4 cr.)
SN 102	Elementary Spanish II (4 cr.)
SN 201	Intermediate Spanish I (4 cr.)
S0 322	Social Class, Power and Mobility (4 cr.)
S0 372	Minority Groups (4 cr.)

INTEGRATIVE THINKING (INTT)

AD 270	Concepts and Culture (4 cr.)
AH 102	Growth and Development (3 cr.)
AN 287	Culture, Society, and Happiness (4 cr.) (4-0-0)
BC 430	Health Communication and Media (4 cr.)
CHN 210 *	Chinese Culture and Customs (4 cr.) (4-0-0)
CS 101	Web Site Construction (4 cr.)
EC 337	American Economic History (4 cr.)
EN 250	Introduction to Gender and Sexuality in Literature (4 cr.)
EN 283	Survey of British Literature I (4 cr.)
EN 284	Survey of British Literature II (4 cr.)
FR 202	Intermediate French II (4 cr.)
GC 101	Introduction to Environmental Science (4 cr.) (4-0-0)
HL 440	Critical Issues in Health Education (3 cr.)
HON 211	The Social Sciences (4 cr.)
HS 130 *	Globalization and You (4 cr.)
HS 135	History Virtual Tours (3-4 cr.)
HS 313X	Culture in Context: (Country Varies) (3-4 cr.)
HS 337	American Economic History (4 cr.)
HS 354	History of Prejudice (4 cr.)
INTT 222	Art Meets Science (4 cr.)
IP 313X	Culture in Context (3-4 cr.)
IP 490	International Studies Seminar (4 cr.)
LDR 400	Systems Thinking in Workplace Leadership (4 cr.)
NAS 240	Sacred Ground: Native Peoples, Mother Earth and Popular Culture (4 cr.)
NAS 315	History of Indian Boarding School Education (4 cr.)
NAS 320	American Indians: Identity and Media Images (4 cr.)
NAS 342 *	Indigenous Environmental Movements (4 cr.)
PL 100	Introduction to Philosophy (4 cr.)
PL 260	Philosophy of the Arts (4 cr.) (4-0-0)
PL 280	Philosophy of Religion (4 cr.)
PL 330	Existentialism (4 cr.)
SN 313X	Culture in Context (3-4 cr.)
SO 287	Culture, Society, and Happiness (4 cr.) (4-0-0)
SP 110	Interpersonal Communication (4 cr.)
SP 434*	Environmental Communication in an International Context: Brazil (4 cr.)

HUMAN EXPRESSION (HUME)

AD 181	Visual Literacy in Global Culture (4 cr.)
AD 260	Why America Looks This Way (4 cr.)
AD 355	Twentieth Century Art and Architecture (4 cr.)
DAN 305	History and Theory of Dance (4 cr.) (4-0-0)
EN 110	Good Books (4 cr.)
EN 112	Mythology (4 cr.)
EN 125	Introduction to Film (4 cr.)
EN 215	Introduction to Creative Writing (4 cr.)
EN 220	Introduction to Shakespeare (4 cr.)
EN 285	Survey of American Literature (4 cr.) (4-0-0)
EN 286	Survey of American Literature II (4 cr.) (4-0-0)
EN 310	Literature and the Bible (4 cr.)
EN 370	American Literature I: Columbus to the American Revolution (1492-1800) (4 cr.)
EN 371	American Literature II: Emergent National Voices (1800-1865) (4 cr.)
EN 372	American Literature III: Realism, Naturalism, through WWI (1865-1930) (4 cr.)
EN 373	American Literature IV: Modern Voices (1930-1970) (4 cr.)
EN 376	American Literature V: Contemporary Voices (1970-Present) (4 cr.)
FR 362	Survey of French Literature of the 18th and 19th Centuries (4 cr.)
FR 363	French Literature Since 1900 (4 cr.)
FR 426	18th Century French Literature (4 cr.)
FR 428	20th Century French Novel (4 cr.)
GR 412	Identity and Belonging in German Literature (4 cr.)
HON 111	Fine Art: Modern Sources (4 cr.) (4-0-0)
HS 110	History and Popular Culture (4 cr.)
MU 125	Music in Society (3 cr.) (3-0-0)
MU 127	The Beatles: Their Music, Their Times (3 cr.)
MU 145	Introduction to Music Literature (3 cr.) (3-0-0)
MU 320	Survey of Jazz, from its Origins to the Present (4 cr.)
MU 325 *	World Music (4 cr.)
NAS 101	Anishinaabe Language, Culture and Community I (4 cr.)
NAS 102	Anishinaabe Language, Culture and Community II (4 cr.)
NAS 207	Seasonal Exploration Anishinaabe Language (4 cr.)
NAS 424	Indigenous Activism and Contemporary Cultural Expression (4 cr.)
SN 315	Introduction to Literary Study in Spanish (4 cr.)
TH 130	The Theatre Experience (4 cr.)

PERSPECTIVES ON SOCIETY (PERS)

AIS 373	Issues in Scholarly Communications and Information Literacy (3 cr.)
AN 110	Introduction to Anthropology (4 cr.) (4-0-0)
BC 165	Introduction to Mass Media (4 cr.)
BC 471	Mass Communication and Society (4 cr.)
CJ 110	Introduction to Criminal Justice (4 cr.)
CJ 370	American Street Gangs (4 cr.) (4-0-0)
EC 101	Introduction to Economics (4 cr.)
EC 340	Capitalism, Socialism and Democracy (4 cr.)
ED 101	The American School (3 cr.)
EN 206	Survey of Journalism (4 cr.)
FR 310	Introduction to French Civilization and Culture (4 cr.)
GR 311	Central European Culture and Civilization (4 cr.)
HM 205	Food and Film (4 cr.) (4-0-0)
HN 362 *	Cultural Food Patterns (4 cr.)
HON 101	Origins of Western Values-Antiquity (4 cr.)
HON 201	Origins of Western Values - Medieval to Modern (4 cr.)
HS 120	Turning Points in History (4 cr.)
HS 221	The United States to 1865 (4 cr.)
HS 222	The United States Since 1865 (4 cr.)
HS 283	American Women's History (4 cr.)
HS 292	African American History (4 cr.)
HS 330	United States Sport History (4 cr.)
LDR 200	Ethical Leadership in the Workplace (4 cr.)
LG 317	World Studies through Literature in Translation (4 cr.)
LG 317z	World Studies through Literature in Translation (4 cr.)
MGT 121	Introduction to Business (4 cr.)
NAS 280 *	Storytelling by Native American Women (4 cr.)
NAS 330 *	Native Cultures and the Dynamics of Religious Experience (4 cr.)
PL 180	Introduction to Ethics (4 cr.) (4-0-0)
PL 181	Business Ethics (4 cr.)
PL 182	Computer, Information, and Technology Ethics (4 cr.)
PL 184	Legal Ethics (4 cr.)
PL 185	Medical and Bioethics (4 cr.)
PL 310	Social and Political Philosophy (4 cr.)
PS 101	Introduction to Political Science (4 cr.)
PS 105	American Government (4 cr.)
PS 215	Introduction to Law (4 cr.)
PS 309	State and Local Government (4 cr.)
PS 411	American Political Thought (4 cr.)
PSY 101	General Psychology (3 cr.) (3-0-0)
SN 310	Introduction to Spanish Civilization and Culture (4 cr.)
SN 312 *	Introduction to Spanish America (4 cr.)
SO 101	Introductory Sociology (4 cr.)
SO 113	Social Problems (4 cr.)
S0 232	Sociology of Family and Intimate Relationships (4 cr.)
S0 351	Social Change (4 cr.)
S0 353 *	Globalization and Asian Societies (4 cr.)
S0 362	Gender and Society (4 cr.)
TE 351	Humanity and Technology (4 cr.)

SCIENTIFIC INQUIRY (SCII) 2 COURSES REQUIRED

BI 100#	Biological Science (4 cr.) (3-0-2)
BI 111#	Introductory Biology: Principles (4 cr.) (3-0-3)
BI 210#	Principles of Ecology (4 cr.) (3-0-3)
BI 218#	Introduction to Cell and Molecular Biology (4 cr.) (3-0-3)
CH 105#	Chemical Principles (4 cr.) (3-0-2)
CH 109#	Introductory Organic and Biochemistry for the Health Sciences (4 cr.) (3-1-2)
CH 111#	General Chemistry I (5 cr.) (3-1-3)
GC 100	Physical Geography (4 cr.)
GC 210	Earth Hazards (4 cr.)
GC 255#	Physical Geology (4 cr.) (3-0-2)
LDR 220	Assessment in the Workplace (4 cr.)
PH 201#	College Physics I (5 cr.) (4-0-3)
PH 202#	College Physics II (5 cr.) (4-0-3)
PH 220#	Introductory Physics I (5 cr.) (4-0-2)
PH 221#	Introductory Physics II (5 cr.) (4-0-2)
PSY 100#	Introduction to Psychological Science (4 cr.) (3-0-2)
PSY 250#	Brain and Behavior (4 cr.) (3-0-2)
SO 308	Methods of Social Research II (4 cr.)
SW 308	Methods of Social Research II (4 cr.)

ADDITIONAL GRADUATION REQUIREMENTS LABORATORY SCIENCE REQUIREMENT (LAB)

Each baccalaureate student must take at least one course of three credits or more designated to meet the Laboratory Science University Requirement. These courses must meet the following requirements:

The course must have been approved for inclusion in the General Education program.

The course must have a designated laboratory as approved by the Committee on Undergraduate Programs (CUP).

At least two-thirds of the content must focus on a natural science discipline or combination of disciplines.

The natural science disciplines are astronomy, biology, chemistry, geology, meteorology, oceanography, and physics. Courses which do not originate in a department which is home to these disciplines must have the approval of the appropriate department(s) that the two-thirds of content requirement is met.

Below is the approved list of courses that will meet the Laboratory Science University Requirement:

- AS 103 Observational and Solar System Astronomy (4 cr.) (3 0 3)
- AS 104 Stellar/Galactic Astronomy and Cosmology (4 cr.) (3 0 3)
- BI 100 Biological Science (4 cr.) (3 0 2)
- BI 111 Introductory Biology: Principles (4 cr.) (3 0 3)
- BI 210 Principles of Ecology (4 cr.) (3 0 3)
- BI 218 Introduction to Cell and Molecular Biology (4 cr.) (3 0 3)
- CH 105 Chemical Principles (4 cr.) (3 0 2)
- CH 109 Introductory Organic and Biochemistry for the Health Sciences (4 cr.) (3 1 2)
- CH 111 General Chemistry I (5 cr.) (3 1 3)
- GC 255 Physical Geology (4 cr.) (3 0 2)
- PH 102 Physics of Sound and Music (3 cr.) (2 0 2)
- PH 201 College Physics I (5 cr.) (4 0 3)
- PH 202 College Physics II (5 cr.) (4 0 3)
- PH 220 Introductory Physics I (5 cr.) (4 0 2)
- PH 221 Introductory Physics II (5 cr.) (4 0 2)
- PSY 100 Introduction to Psychological Science (4 cr.) (3 0 2)
- PSY 250 Brain and Behavior (4 cr.) (3 0 2)

ADDITIONAL GRADUATION REQUIREMENTS WORLD CULTURES REQUIREMENT (WC)

Each baccalaureate student must take at least one course of three credits or more designated to meet the world cultures requirement. These courses deal primarily with living cultures of Asia, Africa and the non-Anglo-Saxon Americas. They may include such topics as literary, artistic and other cultural achievements; religious and ethical values; social, economic and political systems; or intellectual and historical trends. At least two-thirds of the content of each course concentrates on patterns of thought and action that account for the distinctive ethos of the world culture(s) being studied. Transfer students seeking approval of a substitute course to meet this requirement should contact the Registrar's Office and provide a course syllabus for the course they wish reviewed.

Below is the approved list of courses that will meet the Laboratory Science University Requirement:

AD 200 - Native American Art and Architecture (4 cr.)

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AD 265 - Art and Architecture of Japan (4 cr.)
AD 300 - Art and Ideas in Asian Civilizations ( 4 cr. )
AH 336 - Health Care in a Multi-Cultural Society (3 cr.) (3 - 0 - 0)
AN 100 - Introduction to Socio-Cultural Anthropology ( 4 cr. )
AN 210 - Ecological Anthropology: People, Culture and Nature ( 4 cr. )
AN 320 - Native Peoples of North America (4 - 4 cr.)
BC 415 - Intercultural Communication (4 cr.)
CHN 210 - Chinese Culture and Customs (4 cr.) (4 - 0 - 0)
CJ 435 - Domestic and International Terrorism ( 4 cr. )
EN 311 - World Literature in English ( 4 cr. )
EN 314 - Traditional Oral Literatures: Selected Native American Cultures ( 4 cr. )
EN 316 - Native American Novels and Poetry (4 cr.)
EN 317 - Native American Drama, Nonfiction and Short Stories ( 4 cr. )
EN 375 - Diverse Traditions in American Literature ( 4 cr. )
EN 411 - Topics in World Literature (3 - 4 cr.)
GC 164 - Human Geography ( 4 cr. )
GC 300 - Regional Studies: World Cultures ( 4 cr. )
HL 322 - International Health Issues ( 4 cr. )
HL 386 - Interdisciplinary Study in Global Health Care - Latin America ( 3 cr. )
HN 362 - Cultural Food Patterns (4 cr.)
HON 301 - World Cultures: A Humanities Perspective ( 4 cr. )
HON 302 - World Cultures: Social Sciences ( 4 cr. )
HS 130 - Globalization and You (4 cr.)
HS 135 - History Virtual Tours (3 - 4 cr.)
HS 201 - World History to 1520 (4 cr.)
HS 202 - World History since 1400 (4 cr.)
HS 233 - Native American History ( 4 cr. )
HS 251 - Latin American History ( 4 cr. )
HS 252 - History of the Middle East since 600 ( 4 cr. )
HS 254 - History of Africa (4 cr.)
HS 362 - History of Mexico (4 cr.)
IP 290 - Global Engagement ( 2 cr. )
LG 317Z - World Studies through Literature in Translation ( 4 cr. )
MU 325 - World Music (4 cr.)
NAS 204 - Native American Experience ( 4 cr. )
NAS 212 - Michigan & Wisconsin Tribal Relations (4 cr.)
NAS 280 - Storytelling by Native American Women (4 cr.)
NAS 330 - Native Cultures and the Dynamics of Religious Experience ( 4 cr. )
NAS 342 - Indigenous Environmental Movements ( 4 cr. )
NU 386 - Interdisciplinary Study in Global Healthcare - Latin America ( 3 cr. )
PL 270 - World Religions (4 cr.)
PS 321 - Politics in Islamic Nations (4 cr.)
PS 404 - Politics of East and Southeast Asia (4 cr.)
RUS 311 - Russian Literature (4 cr.)
SN 312 - Introduction to Spanish America ( 4 cr. )
SO 353 - Globalization and Asian Societies ( 4 cr. )
SP 434 - Environmental Communication in an International Context: Brazil ( 4 cr. )
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ADDITIONAL GRADUATION REQUIREMENTS WRITTEN ENGLISH COMPETENCY REQUIREMENT (COMP)

To satisfy Northern Michigan University's Written English Competency Requirement, students must complete two separate, but related, tasks:

A. First-Year Composition

Students should satisfy this requirement during their first or second semester in college. Students can satisfy this requirement in one of three ways:

- 1] Earning a B (3.0) in EN 109 Intensive College Composition, and its co-requisite, EN 109W Intensive College Composition Workshop (counts toward Effective Communication component); or
- 2]Earning a C (2.0) or better in EN 111 College Composition I (counts toward Effective Communication component); or
- 3]Successfully completing one of the following:
- a.) CLEP CLEP English Composition General Examination with Essay with a score of 50 or higher (counts toward Effective Communication component as EN 111 College Composition I);
- b.) AP English Literature and Composition or English Language and Composition with a score of 3 or higher (counts toward Effective Communication component as EN 111 College Composition I);
- c.) IB International Baccalaureate English Language Examination in English with a score of 5 or higher (counts toward Effective Communication component as EN 111 College Composition I);
- d.) Accuplacer WritePlacer Exam score of 7 (Serves as a placement exam; students still need two courses from Effective Communication component);
- e.) An equivalent or higher level composition course from another accredited college or university with a grade of C (2.0) or higher.

Note: If a student has already satisfied Intermediate Composition requirement, this also serves to meet the First Year Composition requirement.

B. Intermediate Composition

Students should satisfy this requirement soon after completing the First-Year Composition requirement. Students can satisfy this requirement in one of three ways:

- 1] Earning a "C" (2.0) or better in EN 211 College Composition II (counts toward Effective Communication component); or
- 2] Earning a "C" (2.0) or better in an equivalent course to EN 211 transferred from an accredited college or university (counts toward Effective Communication component as EN 211 College Composition II); or
- 3] Earning a "B" (3.0) or better in HON 101 and HON 111 (Students still need two courses from Effective Communication component.).

Below is the approved list of courses that will meet the Written English Competency University Requirement:

EN 109 Intensive College Composition (4 cr.)

EN 109W Intensive College Composition Workshop (1 cr.)

EN 111 College Composition I (4 cr.)

EN 211 College Composition II (4 cr.)

HON 101 Origins of Western Values-Antiquity (4 cr.)

HON 111 Fine Art: Modern Sources (4 cr.) (4-0-0)

ADDITIONAL GRADUATION REQUIREMENTS MATHEMATICS COMPETENCY REQUIREMENT (MATH)

Students may satisfy this requirement in one of three ways:

- 1] Earning a "C" (2.0) in MA 101 or higher level math course (excluding middle digit 5 courses); or
- 2] Earning a "C" (2.0) in quantitatively-oriented courses as approved by the Mathematics and Computer Science Department; or
- 3] Successfully completing one of the following:
 - a. CLEP Calculus or Precalculus score of 50 or greater;
 - b. CLEP College Algebra or Mathematics score of 63 or greater;
 - c. AP Calculus (AB or BC) score of 3 or greater;
 - d. IB Mathematics Studies or Mathematics (SL or HL) score of 5 or greater;
 - e. ACT mathematics score of 25 or greater;
 - f. SAT Mathematics score of 600 or greater;

DATA 109 - Introduction to Statistics (4 cr.) (4 - 0 - 0)

- g. SAT subject test in Mathematics (Level 1 or 2) score of 650 or greater;
- h. Proctored Math Placement Exam placement into MA 111, MA 115, MA 161, or MA 163; or
- i. Successful completion of the math portion of the Professional Readiness Exam taken by education majors.

Below is the approved list of courses that will meet the Mathematics Competency University Requirement:

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EC 140 - Consumer Economics ( 4 cr. ) (4 - 0 - 0)

MA 101 - Quantitative Literacy ( 4 cr. ) (4 - 0 - 0)

MA 111 - College Algebra ( 4 cr. ) (4 - 0 - 0)

MA 113 - Finite Mathematics ( 4 cr. ) (4 - 0 - 0)

MA 115 - Precalculus ( 4 cr. ) (4 - 0 - 0)

MA 161 - Calculus I ( 4 cr. ) (4 - 0 - 0)

MA 163 - Calculus II ( 4 cr. ) (4 - 0 - 0)

PSY 201 - Psychological Research I: Statistical Applications ( 4 cr. ) (3 - 0 - 2)

SO 208 - Methods of Social Research I ( 4 cr. )
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Transfer courses designated as MA 1001 will also count toward the Mathematics Competency University Requirement.