



Visual and Communication Arts

Faculty:

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Majors:

- Art
- Communication
- Digital Media
- Photography

Minors:

- Art
- Digital Communication
- Digital Video Production
- Journalism
- Photography

Teaching

Endorsements:

- Art, Grades PreK-12
- Journalism (add-on)

The visual and communication arts department (VACA) offers majors in art, communication, digital media and photography. These majors provide preparation for students to pursue professional jobs in a variety of careers and to pursue graduate work in a variety of programs.

In the context of an Anabaptist Christian university students are pushed to go beyond the aesthetic to consider the community and the global aspects of their work. VACA encourages students to be transformers of cultural and community landscapes. In order to serve in this way, image-makers need more than technical competency. They need to possess a conceptual and aesthetic framework that will allow them to communicate effectively, passionately and ethically. While intellectually rigorous, the VACA faculty seeks to nurture a profound appreciation for the spiritual, emotive and poetic aspects of human existence. The visual arts at EMU help students encounter a much bigger world that cannot always be described in logical terms. This requires that students explore: the ethical and cultural problems inherent in mass communication and the artistic endeavor, the increasingly international thrust of communication, the multicultural nature of the audience, and the place of the Anabaptist vision in an image culture. Students are expected to move comfortably from the studio, to the gallery, to the field and to the screen in their creative activities.

Careers in Visual and Communication Arts* include artist, art educator, photographer, graphic designer, video producer, web-producer, industrial designer, visual artist, web designer, video editor, journalist, photo-journalist, fine artist, interior designer, art therapist, community arts activist, production craftsperson, mobile media developer, advertising, broadcasting, screen printer, exhibit designer, gallery director, curator, fashion designer, theater set, lighting or sound designer, illustrator, arts administrator, framer, gallery preparator and graduate study in visual art, communication or film and video.

*Some art careers require education beyond the undergraduate level.

Being a part of the visual and communication arts within the context of a liberal arts education is an ideal situation. Students can explore many other disciplines and interests alongside their major. This enhances their personal and artistic growth as well as making them more interesting to employers and graduate schools.

The classes within the department encourage a commitment to doing hands-on work, critical analysis and careful thought in a collaborative spirit so that students and faculty learn from each other. The VACA programs at EMU, particularly in the junior and senior years, encourage a high level of independent work and individual initiative. Students should develop focused work habits that facilitate achievement beyond minimum classroom requirements.

The **art major** and **art education endorsement** provide preparation for students who will pursue professional art-related careers, independent art work and graduate work in art. The art major offers a variety of studio arts options after students finish a core curriculum.

The **communication major** offers students a broad group of core courses along with foundational courses in digital media, writing and theory.

The **digital media major** focuses on the intersection of digital video, internet media, audio, and digital photography within an increasing array of delivery systems.

The **photography major** builds a solid framework in digital photography grounded in aesthetic/critical theory and field and studio work.

Local internships are available to upper-level students who have a cumulative grade point average of 2.5 or higher. Additional opportunities for internships in a variety of media forms and classes at Howard University or the Corcoran College of Art + Design are available through the Washington Community Scholars' Center (see pages 193-195).

All seniors complete a major production or exhibit. (Communication majors complete an intensive internship to meet this requirement.) This senior exhibit/production represents a culminating event for every major—a chance to synthesize their learning experience in an outstanding body of work, to celebrate the accomplishments of a successful undergraduate career, and to showcase one's best work for the broader community. As such, this requires significant teamwork and collaboration with student colleagues and faculty, along with substantial preparation of the artistic work for presentation during the semester of graduation.

VACA policy on double majors in photography, art, digital media

The majors in photography, art, and digital media require that students complete major senior level projects in a Senior Studio Practicum course. Students who double major in these areas need to complete two major projects that meet departmental requirements. In lieu of taking Senior Studio Practicum twice, students may choose one of the following options to complete a senior project in the other major:

Option 1. With permission of department chair and faculty independent study supervisor: Student may complete a senior project in the other major by taking an independent study for 3 credits. The independent study form provides a place to indicate that this course will serve in place of the Senior Studio Practicum for the second major. Student will request a faculty independent study supervisor based on the medium in question. Note: The medium should relate to the major. Syllabus will be negotiated with the instructor in consultation with the department chair (and other relevant faculty).

Option 2. With permission of instructor and department chair: Student may complete a senior project in an

additional upper level VACA elective course (beyond the required electives for the major). Student will create a major body of work that meets departmental requirements and is relevant to the major. These requirements may go beyond the standard syllabus and will be negotiated with the instructor in consultation with the department chair (and other relevant faculty). Once the additional elective is approved, it will satisfy the the Senior Studio Practicum for the relevant major.

Major in Art

The major consists of 46 SH.

Core Courses

ART 111 Foundations of Design3
 COMM 332 Cinema and Visual
 Communication Theory3
 DIGM 213 Graphic Design3
 PHOTO 112 Digital Photography . . .3

Additional Courses

ART 141 Drawing3
 *ART 181 Three-Dimensional
 Design3
 ART 251 Painting3
 ART 321 Survey of Western Art3
 *ART 322 Survey of World Art3
 *ART 391 Junior/Senior Art
 Seminar3
 *ART 443 Advanced Drawing3
 *ART 453 Advanced Painting **OR**
 *ART 473 Advanced Ceramics.3
 ART 492 Senior Studio Practicum . . .4

Electives

Choose two courses from the following list:
 *ART 261 Papermaking.3
 *ART 262 Printmaking: Relief and
 Screen3
 ART 271 Ceramics3
 *ART 323 Survey of Modern and
 Contemporary Art3
 ART 399 Art Internship.3
 *PHOTO 241 Black and White
 Photography3

*PHOTO 361 Conservation
 Photography3

Major in Art, PreK-12 Teaching Endorsement

Required courses for teacher licensure program (PreK-12) include the following:

Education Curriculum

All ED courses must be passed with a grade of “C” or better.

ED 101 Exploring Teaching.2
 ED 201 Computers and Instructional
 Technology in Education1
 ED 232 Learning, Motivation
 and Assessment (PreK-6)3
 ED 351 General Curriculum and
 Methods for Middle and Secondary
 Teaching1
 ED 381 Reading and Writing Across
 the Curriculum (6-12)2
 ED 401 Examining Foundations of
 Education2
 ED 411 Reflective Teaching
 Seminar and Portfolio1
 ED 461 Elementary Student
 Teaching (PreK-6)7
 ED 462 Middle/High School
 Student Teaching (6-12)7

Other licensure requirements:

American History.3
 PSYC 202 Developmental Psychology .3

Recommended Education Courses:

ED 301 Needs of Diverse Learners . . .3
 ED 391 Middle School Curriculum. . .3

Art Education Curriculum

ART 111 Foundations of Design3
 ART 141 Drawing3
 *ART 181 Three-Dimensional
 Design3
 ART 251 Painting3
 *ART 261 Papermaking.3
 *ART 262 Printmaking: Relief and
 Screen3

ART 271 Ceramics3
 ART 321 Survey of Western Art3
 *ART 322 Survey of World Art3
 *ART 397 Elementary School Art
 Methods.3
 *ART 398 Secondary School Art
 Methods.3
 ART 443 Advanced Drawing3
 *ART 473 Advanced Ceramics.3
 PHOTO 112 Digital Photography . . .3

As a corequisite to the first of the two art methods courses (ART 397 Elementary School or ART 398 Secondary School) students take ED 351 General Curriculum and Methods. ART 397 and ART 398 must be passed with a grade of C or better. Successful passing of the Praxis I exam and admission to teacher education are required before enrolling in the second art methods course. Successful passing of the Praxis II exam is required for completion of the program in art education. Additionally, teacher candidates must comply with all teacher education requirements listed on pages 88-93.

Major in Communication

The major in communication consists of 48 SH.

Core Courses

ART 111 Foundations of Design3
 COMM 332 Cinema and Visual
 Communication Theory3
 DIGM 213 Graphic Design3
 PHOTO 112 Digital Photography . . .3

Additional Courses

COMM 231 Pop Culture and Mass
 Communication.3
 COMM 241 News and Feature
 Writing3
 COMM 342 Campus Communications:
 Weather Vane.2
 COMM 391 Communication
 Internship6

DIGM 251 Video Camera and Non-
 Linear Editing4
 DIGM 261 Web Design3
 DIGM 362 Video Web Applications
 and Social Media3

Choose one of the following courses:

PXD 151 Exploring Conflict and
 Peace3
 PXD 375 Globalization and Justice . .3
 PXD 385 History and Philosophy of
 Nonviolence.3

Electives

Choose three courses from the following list:
 *DIGM 281 Audio Production3
 DIGM 352 2-D Animation/After
 Effects3
 *DIGM 456 Live Event and Field
 Production.3
 PHOTO 352 Color Photography . . .3
 PHOTO 464 Advanced Photoshop . .3
 Marketing or public relations course
 taken while at WCSC

Major in Digital Media

The major in digital media consists of 50 SH.

Core Courses

ART 111 Foundations of Design3
 COMM 332 Cinema and Visual
 Communication Theory3
 DIGM 213 Graphic Design3
 PHOTO 112 Digital Photography . . .3

Additional Courses

ART 321 Survey of Western Art **OR**
 *ART 323 Survey of Modern and
 Contemporary Art.3
 ART 492 Senior Studio Practicum. . .4
 COMM 231 Pop Culture and Mass
 Communication.3
 DIGM 251 Video Camera and Non-
 Linear Editing4
 DIGM 261 Web Design3
 DIGM 352 2-D Animation/After
 Effects3

DIGM 362 Video Web Applications and Social Media . . . . .	.3
*DIGM 453 Documentary Video Production . . . . .	.3
PHOTO 352 Color Photography . . .	.3
PHOTO 464 Advanced Photoshop . .	.3

Electives

Choose two courses from the following list:

COMM 241 News and Feature Writing . . . . .	.3
*DIGM 281 Audio Production . . . . .	.3
*DIGM 454 Narrative Video . . . . .	.3
*DIGM 456 Live Event and Field Production . . . . .	.3

Major in Photography

The major in photography consists of 49 SH.

Core Courses

ART 111 Foundations of Design . . . . .	.3
COMM 332 Cinema and Visual Communication Theory . . . . .	.3
DIGM 213 Graphic Design . . . . .	.3
PHOTO 112 Digital Photography . . .	.3

Additional Courses

*ART 323 Survey of Modern and Contemporary Art . . . . .	.3
ART 492 Senior Studio Practicum . .	.4
DIGM 261 Web Design . . . . .	.3
PHOTO 352 Color Photography . . .	.3
PHOTO 464 Advanced Photoshop . .	.3
*PHOTO 478 Documentary Photography . . . . .	.3
*PHOTO 489 Studio Photography . .	.3

Electives

Choose five courses from the following list:

ART 141 Drawing . . . . .	.3
ART 321 Survey of Western Art . . . . .	.3
COMM 231 Pop Culture and Mass Communication . . . . .	.3
COMM 241 News and Feature . . . . .	.3
DIGM 362 Video Web Applications and Social Media . . . . .	.3

*PHOTO 241 Black and White Photography . . . . .	.3
*PHOTO 361 Conservation Photography . . . . .	.3
*PHOTO 375 Photography Print and Portfolio Workshop . . . . .	.3
*PHOTO 376 Alternative Photo Processes . . . . .	.3

Minor in Art

The 18 SH minor provides a focused experience in art for students wishing to supplement primary study in another discipline.

(Art minors are strongly encouraged to take ART 111 and ART 141 as a beginning course sequence.)

ART 111 Foundations of Design . . . . .	.3
ART 141 Drawing . . . . .	.3
ART ___ Elective . . . . .	.3
ART ___ Elective . . . . .	.3

Choose one of the following courses:

ART 321 Survey of Western Art . . . . .	.3
*ART 322 Survey of World Art . . . . .	.3
*ART 323 Survey of Modern and Contemporary Art . . . . .	.3

Choose one of the following courses:

*ART 181 Three-Dimensional Design . . . . .	.3
ART 271 Ceramics . . . . .	.3

Minor in Digital Communication

The minor in digital communication consists of 18 SH.

COMM 241 News and Feature Writing . . . . .	.3
COMM 332 Cinema and Visual Communication Theory OR	
COMM 231 Pop Culture and Mass Communication . . . . .	.3
DIGM 261 Web Design . . . . .	.3
DIGM Video Web Applications and Social Media . . . . .	.3
PHOTO 112 Digital Photography . . .	.3

Choose one of the following courses: (3 SH)

COMM 342 Campus Communications: Weathervane	1-3
DIGM 213 Graphic Design . . . . .	.3
DIGM 251 Video Camera and Non-linear Editing . . . . .	.3
*DIGM 281 Audio Production . . . . .	.3

Photography and art majors must choose an elective other than Graphic Design.

The digital communication minor may not be combined with a digital media major or communication major.

Minor in Digital Video Production

The minor in digital video production consists of 18 SH.

COMM 332 Cinema and Visual Communication Theory . . . . .	.3
DIGM 251 Video Camera and Non-linear Editing . . . . .	.3
DIGM 352 2-D Animation/After Effects . . . . .	.3
PHOTO 112 Digital Photography . . .	.3

Choose two of the following courses:

*DIGM 281 Audio Production . . . . .	.3
DIGM 362 Video Web Applications and Social Media . . . . .	.3
*DIGM 453 Documentary Video . . .	.3
*DIGM 454 Narrative Video . . . . .	.3
*DIGM 456 Live Event and Field Production . . . . .	.3

The digital video minor may not be combined with a digital media major or communication major.

Minor in Journalism

The minor in journalism consists of 18 SH.

COMM 231 Pop Culture and Mass Communication . . . . .	.3
COMM 241 News and Feature Writing . . . . .	.3
COMM 342 Campus Communications: WeatherVane . . . . .	.3
COMM 391 Communication Internship . . . . .	.3
DIGM 362 Video Web Applications and Social Media . . . . .	.3
POL 101 Introduction to Politics . . .	.3

Minor in Photography

The minor in photography consists of 18 SH.

COMM 332 Cinema and Visual Communication Theory . . . . .	.3
PHOTO 112 Digital Photography . . .	.3
PHOTO 352 Color Photography . . . .	.3

Choose three courses (9 SH) from the PHOTO offerings.

Add-on Teaching Endorsement in Journalism

A teaching endorsement may be added to an existing teaching license if the candidate has a baccalaureate degree, an endorsement in any teaching area and 15 semester hours in journalism. Students choose 15 semester hours from the following list of courses: COMM 231, COMM 241, COMM 342, DIGM 453, POL 101.

Art (ART)

111 Foundations of Design 3

As a foundation to the visual and communication arts program, this course emphasizes visual skills and creative problem-solving related to principles of design in two-dimensional art. Students explore the elements of composition and color theory in a hands-on studio environment.

141 Drawing 3

This course is designed to develop confidence in drawing and build basic drawing and perceptual skills. A variety of drawing media, techniques and conceptual approaches will be used.

*181 Three-Dimensional Design 3

An introduction to three-dimensional design principles necessary for making everything from chairs to site-specific and sculptural forms. Individual and collaborative design processes are a focus. (Spring 2014)

251 Painting 3

An introduction to painting in water-mixable oil or acrylic media. This course is designed to develop confidence in painting along with basic techniques and perceptual skills. A variety of approaches are used. Prerequisite: ART 141 or instructor permission.

*261 Papermaking 3

An exploratory course in handmade paper as an art medium. Topics covered will include sheet forming, shaped-screen laminating, embedding, embossing, free and mould casting, pulp painting, collage and assemblage techniques. A variety of vegetable fibers will be introduced and integrated papermaking with other arts will be explored. An introduction to the origins and development of paper, its use in history, the ecological and cultural implications of making paper and the work in paper of contemporary artists will provide a broad context for this medium. (Spring 2013)

*262 Printmaking: Relief and Screen 3

Relief printmaking is an ancient form favored by contemporary artists in which images are printed on paper from wood and other materials. Screen printing is a newer process in which ink is forced through fabric onto paper and other materials. These processes are used to develop rich, colorful prints with an emphasis on visual ideas and technique. (Fall 2012)

271 Ceramics 3

An introduction to the basics of clay work using hand-building techniques such as pinch, coil and slab construction and a potter's wheel. Students participate in centuries old ceramic traditions and explore ceramics in contemporary art contexts.

321 Survey of Western Art 3

A thematic approach to the history and appreciation of Western art which examines the ways in which religious, social, political and philosophical concepts have been expressed in art.

*322 Survey of World Art 3

A thematic approach to the history and appreciation of art outside the Western mainstream. (Spring 2013)

*323 Survey of Modern and Contemporary Art 3

An introduction to modern and contemporary art with emphasis on the interpretation of artistic production within its historical, political, social, cultural, and theoretical contexts. Issues to be addressed may include the meaning of originality in art; the relationship of art and mass culture; how the institutional framework for viewing art can influence or determine meaning; the rejection of studio-based art; and art as it confronts the issues of the day. (Spring 2014)

*391 Junior/Senior Art Seminar 3

This course uses a combination hands-on and discussion format to study individual and contemporary methods, theories and professional practices in art. Course readings and related research are primarily dictated by special abilities and interests of students who will work in a chosen medium or mixed media. Prerequisite: junior or senior art, photography or digital media major. Open to non-majors with consent of instructor. (Fall 2012)

*397 Elementary School Art Methods (Art Education) 2-3

A study of the aims and philosophy of art education in the elementary school with emphasis on child development through art. Students will experience art techniques and materials suitable for children from Pre-K through grade 6 with emphasis on appropriate motivational and teaching methods. Topics to be covered may include: the role of art in society and in the schools; fundamentals of art; sequential and discipline based art curricula; teaching strategies; art motivation; art integration with the sciences, social studies, and cultural understandings; evaluation; teaching art history, criticism and aesthetics; writing instructional objectives and lesson plans; and teaching art production. For art education majors field experience in the elementary setting is a component of the course. Admission to teacher education and ED 351 may be prerequisites. A two-credit option without a practicum is available for students who are not pursuing Art Education. (Fall 2013)

*398 Secondary School Art Methods (Art Education) 3

A study of the aims and philosophy of art education at the secondary school level. Secondary School Art Methods will include advanced studies of curriculum and lesson design and integration; classroom organization and management techniques; delivery of art courses as electives; teaching art history, aesthetics, and evaluation; teaching art production appropriate to the adolescent; and the function of art in the schools and community. Students will understand contemporary issues in art education by examining research history and philosophy of art education. The relationships between developments in education as a whole and art education will be explored as well as adolescent creative learning styles and development. Field experience in a secondary art setting is a component of the course. Admission to teacher education and ED 351 may be prerequisites. (Fall 2012)

399 Art Internship 3

Provides students with an opportunity to integrate theory and practice by working in a professional art/design-related environment. Consultation with and reporting to the faculty advisor guide the student's experience. Travel and other expenses are the student's responsibility. Can be done during the summer. Grading is on a Pass/Fail basis. Prerequisite: Junior or senior status; consent of instructor.

***443 Advanced Drawing** **3**

Further development of drawing techniques, visual processes and experimental approaches. The capacity to change one's perspective and habits and an openness to taking risks are encouraged. This course is for students who want to explore drawing in its own right, strengthen work in other media through enhanced drawing skills, or connect drawing with other arts or disciplines. Advanced investigation into physical, intellectual and emotional aspects of drawing. Content development, individual direction and creative voice are stressed along with further development of drawing skills. Emphasis is placed on independent inquiry and self-directed initiative. Prerequisite: ART 141. (Fall 2013)

***453 Advanced Painting** **3**

Further development of techniques and visual strategies using oil and acrylic media. The capacity to change one's perspective and habits and an openness to taking risks are encouraged to understand various ways artists approach structure and meaning in painting. Advanced investigation into physical, intellectual and emotional aspects of painting. Content development, individual direction and creative voice are stressed along with further development of painting skills. Emphasis is placed on independent inquiry and self-directed initiative. Prerequisite: ART 251. (Spring 2014)

***473 Advanced Ceramics** **3**

Further development of techniques and visual strategies using ceramic media. Advanced investigation into physical, intellectual and emotional aspects of ceramic work. Content development, individual direction and creative voice are stressed along with further development of technical skills. Emphasis is placed on independent inquiry and self-directed initiative. Prerequisite: ART 271. (Spring 2014)

492 Senior Studio Practicum **4**

Each student will produce a thesis project for the senior art major exhibit consisting of a body of focused, coherent artwork in a chosen medium and direction. Students proposing work in media beyond the scope of the art curriculum must obtain approval for their project from the instructor. Students working in ceramics must have prior experience in reduction firing. The course is structured around independent studio work with individual and group critiques, discussions of issues in contemporary art and professional practice. Professional practices related to preparation and installation of the art major senior exhibit or the senior photography major. The digital media major will do a major production in the medium of choice (video, internet, interactive design). ART 492 is required for all art, photography and digital media majors during the senior year.

499 Independent Study **1-3**

Communication (COMM)

231 Pop Culture and Mass Communication **3**

A survey of mass communication theory showing how the mass media influences and is influenced by the political, economic and social systems. Shows how the mass media in all their forms—newspaper, broadcasting, magazines, TV and the web—helps to shape the culture and set the agenda for all of our institutions: government, business, religion, fashion and entertainment. Heavy emphasis will be placed on how an audience is defined, on the communication process, and the influence of advertising and audience on what is being communicated.

241 News and Feature Writing **3**

Workshop for magazine and newspaper writing: generating story ideas, interviewing, observing, fact-checking, researching and drafting news stories, features, book reviews, editorials and more.

332 Cinema and Visual Communication Theory **3**

Movies will be the foundation for exploring how these texts, with their narrative and visual formulas, influence culture. Special emphasis will be given to critiques in the areas of gender, race and violence. Select theorists of visual communication will give students a broad theoretical base to continue the exploration of other digital media with their mixture of photograph, kinetic text, sound and time-based media. Students will explore in-depth one film, using the critical analysis of one theorist, to demonstrate their ability to analyze and critique. Students will also explore how these theories and the formal properties of digital media function in their own artistic works.

342 Campus Communications: WeatherVane **1-3**

Credit given for writing, design, photography production of the student-run university newspaper. Students should expect to take two semesters of Campus Communications at one credit each except in the case of editors serving on the WeatherVane. Other Campus Communications topics by arrangement.

391 Communication Internship **3-6**

Students gain experience by completing a communication internship with an outside agency. Prerequisite: permission of instructor.

***392 Topics** **3**

Faculty may offer a topics course exploring a variety of art, digital media and photography issues.

499 Independent Study **1-3**

Digital Media (DIGM)

213 Graphic Design **3**

Illustrator, Photoshop and InDesign are used in creative visual problem solving. Design process is emphasized, and typographic design and image/text relationships provide a focus. Prerequisite: ART 111.

251 Video Camera and Non-linear Editing **4**

This course is a practical hands-on introduction to the video camera and to non-linear editing of the material that comes from the video camera. It covers operation of the camera, basic lighting and sound, camera movement and support. Issues of composition, content, aesthetics, continuity and creativity will be explored with exercises, labs and real-life shooting. The non-linear video editing will cover both technical and philosophical issues of editing. Students will edit exercises and their own productions. Prerequisite: PHOTO 112 or equivalent.

261 Web Design **3**

This class explores the Web as a medium for both artistic expression and organizational communication. Students will construct several web sites using both HTML coding and contemporary Web design software. Prerequisite: PHOTO 112 or equivalent.

***281 Audio Production 3**

In this course students produce a variety of short and long form audio productions, from promotional spots to news features as well as music performances and audio portraits. Students will work with digital software editing programs to produce works utilizing a variety of recording and processing techniques. Course sections would include psychoacoustics (sound and how we hear it), the production process (from idea to finished product), microphones (types and uses), live recording, audio processing and effects, editing, and numerous projects with a variety of applications. (Spring 2013)

352 2-D Animation/After Effects 3

Explores the art and communication of merging video, the graphic arts and text into messages with multiple layers of meaning and artistic interest. Students will become adept at compositing; moving video, still images, text and line art. Layered Photoshop files will be animated into finished video. The primary forms studied for this class will be opening and closing logos, advertising, PSA's, music video and short form 2-D animated storytelling. Prerequisite: PHOTO 112 or equivalent and DIGM 251 or faculty approval.

362 Video Web Applications and Social Media 3

Video web applications explores the techniques and theory behind social networking and technology. Participants will create their own blog with a specific social theme or issue – then learn to create and link text, audio, photos and video in order to build on that theme and create a dialogue and awareness around it. The class will focus specifically on creating content to engage a targeted audience. Participants will learn to track their audience, build their base of followers and efficiently link several social networking technologies including Facebook, Twitter and others. Prerequisite: PHOTO 112.

***453 Documentary Video Production 3**

Students will study how video documentaries are constructed, and used to communicate. They will research, design and produce a documentary video on a selected subject. Students should bring experience in video production to this class. Prerequisite: must have taken at least DIGM 251. (Spring 2014)

***454 Narrative Video 3**

Students will study the narrative structure of video story-telling and the process of narrative video production. They will work at creating a variety of short form narratives and completing at least two independent projects from pre-production to post-production. Prerequisite: DIGM 251. (Spring 2013)

***456 Live Event and Field Production 3**

Offered with the Mennonite biennial youth convention. Pre-production work of the live show and four or five video pieces that will be shown during the convention. During the event itself students will produce the live show for the large screen (camera operators, grips, directors, cg operators and switcher operator) and also edit a five-minute video report for each day. At the end of the convention the students will edit a 30-40 minute report video. Prerequisite: DIGM 251 or equivalent. Requires instructor permission. (Summer 2013)

499 Independent Study 1-3

Photography (PHOTO)

112 Digital Photography 3

This hands-on course introduces students to digital imaging processes that include camera acquisition and scanning, digital image correction and compositing, and output to print and digital media. Students will explore raster-based image manipulation in Adobe Photoshop. Students gain foundational skills in photographic composition and digital image manipulation as well as a basic understanding of how digital images may be employed in electronic media and art production.

***241 Black and White Photography 3**

In this introduction to black and white film photography, students photograph in the field and studio while learning to control and manipulate a camera, process film and produce prints in the dark room. Students will also explore art concepts and elements of visual language in relationship to both past and present photographic practices. (Spring 2015)

352 Color Photography 3

Digital darkroom work and archival printing from color negatives. Topics include image capture, color theory, image correction and interpretation, color management, digital output methods and contemporary practices and theory related to color photography. Prerequisite: PHOTO 112.

***361 Conservation Photography 3**

Explores the intersection of photography and environmental conservation. Topics include aesthetic responses to the natural world, visual documentation of ecosystems, conservation advocacy and the relationship between human communities and the natural world. Prerequisite: PHOTO 112. (Fall 2013)

***375 Photography Print and Portfolio Workshop 3**

This class offers the opportunity for students to develop an artistic vision as expressed through photography. Using advanced digital black and white and color techniques, they will develop a coherent body of work for gallery and web display. Though class demonstrations concentrate on digital techniques and fine archival printing, students may also pursue independent work concentrating in dark room processes. Prerequisites: PHOTO 112 and PHOTO 352. (Spring 2014)

***376 Alternative Photo Processes 3**

Students will experiment with alternative acquisition and printing processes. Acquisition methods will cover pinhole, panoramic and infrared processes. Students will print on alternative forms such as art and Japanese papers, metal surfaces, canvas and other media forms. Prerequisite: PHOTO 112 and PHOTO 352. (Fall 2012)

464 Advanced Photoshop Studio 3

Students will study advanced Photoshop techniques with special emphasis on compositing. Students will study montage techniques, image repair, darkroom effects and color management. Students will create a unified set of prints and a web gallery. Prerequisite: PHOTO 112 and PHOTO 352 .

478 Documentary Photography*3**

Using photographs as building blocks, students will construct narrative documentaries. These documentaries will be constructed for at least four distribution methods: gallery, print, online documentary magazine, and mixed-media forms combining image and audio. Students will also consider possible feedback and interaction methods like blogging and other social media. Students will study storytelling, narrative construction, research and interview techniques, the history of photographic documentary, technical skills and the expanding uses of documentary photography. Students will practice this form while paying attention to the technical, aesthetic, philosophic and ethical issues involved. Prerequisite: PHOTO 112 and PHOTO 352. (Fall 2012)

489 Studio Photography*3**

This class explores aesthetic and technical issues related to photography in a studio environment. Students learn how to create professional lighting setups in relation to multiple photographic genres including traditional portraits and more conceptual/experimental approaches to image-making. Prerequisite: PHOTO 352. (Spring 2014)

499 Independent Study**1-3**

**Indicates courses offered in alternate years.*