

graphic design, HTML, site management, typography, theory, e-commerce, and web development tools. Projects will be created by identifying a target audience, addressing accessibility issues and adhering to current web design standards.

DMAD-210 Intro to Non-Linear Video 2 cr.
This course is an introduction to digital video editing using Adobe Premiere. Students will learn how to create simple and complex video sequences in a non-linear video editing system. Video projects will be optimized for web, eBook, mobile devices, and DVD distribution.

DMAD-212 Digital Video Production 3 cr.
This hands-on course focuses on the process required to create video compositions. Students will be studying composition, lighting, recording and sound recording techniques, and various script styles. Student teams will work using electronic field production techniques to create numerous projects.

DMAD-220 Intro to Digital Layout and Design 2 cr.
This course is an introduction to digital layout and design using Adobe InDesign. Students will learn how to create multi-column and multi-page layouts in a digital environment. Techniques of type formatting, digital image management, layers, and vector drawing will be explored. Design projects will be optimized for print and web distribution.

DMAD-222 Advanced Digital Layout and Design 3 cr.
This course focuses on creating effective digital layout and design. There is an emphasis on projects that are found in work environments such as creating advertising, promotional, and newsletter materials. The techniques and skills covered can also be applied to creative projects where principles of design and typography are needed. Projects will be optimized for both print and web distribution.

DMAD-230 Intro to Vector Animation 2 cr.
This course is an introduction to vector graphics and two dimensional animation. Students will learn how to use and integrate Flash and Adobe Illustrator to create animations for web delivery. Non-animated vector graphics and illustrations for print and web delivery will also be created.

DMAD-232 Interactive 2D Animation 3 cr.
This hands-on course focuses on the process required to create interactive two dimensional animations for multimedia. Students will create animations using project planning, scriptwriting and storyboard techniques. There is an emphasis on creating animated works that adhere to principles of design and composition.

DMAD-240 3D Design and Animation 3 cr.
This hands-on introductory course focuses on the process required to create 3D graphics and animation. Students will learn concepts of working in 3D space, modeling, image maps and lighting. Animation techniques include working with keyframes and creating jointed hierarchies. Projects will be optimized for web and video delivery.

DMAD-280 Cooperative Education 3 cr.
Supervised cooperative work program. Student is employed in an individualized digital media arts and design field. Student will be supervised and rated by the employer and instructor.

DMAD-284 Digital Media Arts and Design Portfolio 3 cr.
This course is to be taken during the final semester of the DMAD program. Students will use past work created during the course of the DMAD Program as part of developing a professional portfolio and resume to use in entering the digital media and design profession. Discussions will cover aspects of creating and marketing a brand identity to potential employers. Portfolios will be created in areas of specified career paths including video, web and print media.

DMAD-286 Multimedia Project Management 3 cr.
An introduction to project management, as it relates to the design and production of multimedia. Students will work on team and individual projects that focus on creating integrated advertising materials for promotional campaigns. Effective methods for managing large multimedia projects and coordinating efforts with clients and stakeholders will also be covered.

DRAFTING

DRFT-110 Technical Drafting I 3 cr.
The course will comprise a study of the techniques of drafting and the preparation of drawings using traditional drafting methods. Prerequisites: MPE or MATH 095. Semester offered: Fall, Spring.

DRFT-111 Drafting for Industry 3 cr.
The course will comprise a study of the techniques of drafting and the reading and preparation of drawings for craftspeople. The graphic language of industry is covered in the areas of multi-view projection, welding, and machining trades. Semester offered: Spring.

DRFT-112 Materials and Processes 3 cr.
This introductory course in materials science will give the student a basic knowledge of materials and commonly employed processing and manufacturing methods. Semester offered: Spring.

DRFT-113 Materials and Processes Lab 2 cr.
This course will expose the drafting student to the theory and application of commonly employed manufacturing methods through experiences in a shop environment. Corequisite: DRFT 112. Semester offered: Spring.

DRFT-115 Technical Drafting II 4 cr.
This course comprises the use of auxiliary views, geometric tolerancing, threads, fasteners and springs, dimensioning, axonometric projection, oblique projection and perspective drawing in the production of drawings. Prerequisites: DRFT 110 and DRFT 150. Semester offered: Spring.

DRFT-119 Surveying 4 cr.
Elementary plane surveying to include concepts, field work, and computation. Prerequisite: MATH 096 or Accuplacer score of 61 in Algebra. Semester offered: Fall.

DRFT-120 Descriptive Geometry 3 cr.
Descriptive geometry is a study of points, lines and planes in their spatial relationships. Problems in finding their true positions, lengths and shapes are solved by the principles of orthographic projection. Semester offered: Spring.

DRFT-150 Computer-Aided Drafting (CAD) 4 cr.
A course designed to train students in the use of computer-aided drafting equipment to produce engineering drawings in two-dimensional format, using the basic draw and edit commands. Corequisite: DRFT 110. Semester offered: Fall and Spring.

DRFT-201 Investigation in Civil Drafting 1 cr.
This course involves an introduction to the various aspects of civil drafting and engineering technology. Students will have an opportunity to investigate working environments and look at actual drafting and design projects within the industry. An overview of various aspects of the design criteria and CAD drafting capabilities will be discussed and studied. Prerequisite: DRFT 115. Semester offered: Fall.

DRFT-210 Technical Drafting III 4 cr.
Design and working drawings detail, subassembly and assembly drawings, and bill of materials and revisions. Manufacturing methods and related drawing formats will be covered. Tolerance Studies, fits, allowances and functional geometric tolerance will be examined. Prerequisites: DRFT 115, DRFT 150, MATH 180, and MATH 185. Corequisite: MATH 188. Semester offered: Fall.

DRFT-225 Piping Design and Drafting 4 cr.
A course in the design and drafting of piping systems including pipe fittings, valves, pumps, and vessels and their symbols. Prerequisite: DRFT 150. Semester offered: On Demand.

DRFT-247 Const Practices and Estimating 4 cr.
This course involves quantity calculations including excavation, foundations, concrete and masonry structures, steel, framing, flooring, drywall and wetwall, roofing, insulation, and finish work. Corequisite: DRFT 248, MATH 180, and MATH 185. Semester offered: Spring.

DRFT-248 Civil Drafting I 4 cr.
This course comprises instruction in the symbols, terminology, standards and techniques of civil drafting, mapping and topographic drafting. Emphasis on the use of AutoCAD for drawing production. Prerequisites: DRFT 110, 150, and MATH 096 or MPE; Corequisites: MATH 180 and MATH 185. Semester offered: Fall.

DRFT-255 Statics and Strength of Material 4 cr.
Practical approach to applying concepts of statics and strength of materials to solution of force systems. Prerequisite: MATH 180 and MATH 185. Semester offered: Spring.

DRFT-260 Advanced AutoCAD 4 cr.
This course is a continuation of beginning Computer-Aided Drafting and is taught on PC computers using the latest release of AutoCAD by Autodesk, Inc. The more advanced commands are included in topics covered by this course, such as model space and paper space, digitizing and three-dimensional drawing. Prerequisite: DRFT 150 or equivalent. Semester offered: Fall and Spring.

DRFT-265 AutoCAD for Theatre 4 cr.
This course includes techniques for using AutoCAD drafting software in the areas of set and costume design on the personal computer. The courses technical content addresses the subject from an intermediate

perspective for graphic design in theatre. There will be two major projects required for course completion. This course requires extensive CAD lab hours to complete project assignments. Prerequisites: DRFT 110 and DRFT 150. Semester offered: Spring.

DRFT-280 Cooperative Education 1-12 cr.
This course provides an introduction to industry and the application of design and drafting technology principles. Students are supervised and rated by both the instructor and employer. Semester offered: On Demand.

EARLY CHILDHOOD EDUCATION

ECED-120 Guiding Young Children 3 cr.
Explores various theories of child guidance and the practical application of each. Provides developmentally appropriate methods for guiding children and effective strategies and suggestions for facilitating positive social interactions. Emphasis is placed on helping children become self-responsible, competent, independent, and cooperative learners. Prerequisites: APEN 070+ or ENGL 099; APRD 081+ or RDNG 113.

ECED-132 Infant-Toddler Development 3 cr.
Emphasizes the knowledge necessary to work with typically and atypically developing children ages birth-2 years of age. It lays a foundation for the promotion of the health, welfare and development of all infants and toddlers. Prerequisites: APEN 070+ or ENGL 095; APRD 058+ or RDNG 095.

ECED-142 Working with Infant's Family 3 cr.
Intended to assist students in gaining the ability to observe, discuss and implement basic elements of quality programming for infants and toddlers in home, small group or whole group care situations. Prerequisites: APEN 070+ or ENGL 095; APRD 058+ or RDNG 095.

ECED-145 Health, Safety and Nutrition 2 cr.
Provides information related to standards and practices that promote children's physical and mental well-being, sound nutritional practices, and maintenance of safe learning environments. Students gain knowledge necessary for creating safe learning environments for decreasing risk and preventing childhood injury. Prerequisites: APEN 070+ or ENGL 095; APRD 058+ or RDNG 095.

ECED-150 Professionalism 2 cr.
Provides a broad-based orientation to the field of early care and education. Early childhood history, philosophy, ethics and advocacy are introduced. Basic principles of early childhood systems are explored. Multiple perspectives on early care and education are introduced. Professional responsibilities such as cultural responsiveness and reflective practice are examined. Prerequisites: APEN 070+ or ENGL 095; APRD 058+ or RDNG 095.

ECED-152 Family-Centered Professionalism 3 cr.
Intended to provide hands on experiences with families, infants and toddlers. Student could be placed in the field as well as a college classroom to gain deeper understanding of their role as a professional that implements family-centered programming. Prerequisites: APEN 070+ or ENGL 095; APRD 058+ or RDNG 095.