

DMAD-222 Adv 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. Prerequisites: DMAD-110, ARTS-151, COME-120, and ARTS-152. Corequisites: DMAD-220. Offered: Fall.

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. Prerequisites: DMAD-110, ARTS-151, and COME-120. Take PHOT-150 or PHOT-160. Corequisites: DMAD-232. Offered: Fall.

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. Prerequisites: DMAD-110, ARTS-151, and COME-120. Take PHOT-150 or PHOT-160. Corequisites: DMAD-230. Offered: Fall.

DMAD-241 3D Design and Animation 4 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. Prerequisites: DMAD-110, ARTS-151, COME-120 and MATH-115. Take PHOT-150 or PHOT-160. Offered: Fall.

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. Offered: On Demand.

DMAD-284 Digital Media/Design Portfolio Developmt 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. Prerequisites: DMAD-200, DMAD-210, DMAD-222, or DMAD-232. Offered: Spring.

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. Prerequisites: DMAD-202, DMAD-212, DMAD-222, or DMAD-232. Offered: Spring.

DRAFTING**DRFT-110 Technical Drafting I 3 cr.**

A study of the basic techniques of drafting and the preparation of drawings using traditional drafting methods and CAD. Prerequisites: Completion of Math-095 or appropriate Math Accuplacer score. Offered: Fall & Spring.

DRFT-111 Drafting for Industry 3 cr.

A study of the techniques of drafting and the reading and preparation of drawings from tradesmen. The graphic language of industry is covered in the areas of multi-view projection, dimensioning and sections. Offered: Spring.

DRFT-112 Materials and Processes 3 cr.

This introductory course in materials science will give the student a basic knowledge of industrially significant materials and commonly employed processing and manufacturing methods. Offered: Spring.

DRFT-113 Materials and Processes Lab 2 cr.

Exposes the drafting student to the theory and application of commonly employed manufacturing methods through experiences in a manufacturing environment. Corequisites: DRFT-112. 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. Offered: Spring.

DRFT-119 Surveying 4 cr.

Elementary plane surveying to include concepts, field work, and computation. Prerequisites: Completion of MATH-096 or appropriate Math Accuplacer score. Offered: Fall.

DRFT-120 Descriptive Geometry 3 cr.

The study of points, lines and planes and their spatial relationships. Problems in finding their true positions, lengths and shapes in space are solved by the principles of orthographic projection. Offered: Spring.

DRFT-121 Engineering Graphics 3 cr.

This course comprises a study of engineering graphics using the AutoCAD software package. Basic two-dimensional drafting techniques as well as wireframe, surface and solid modeling methods are employed in the production of technical drawings. Offered: Spring.

DRFT-150 Computer-Aided Drafting (CAD) 4 cr.

Instruction in the use of computer-aided drafting workstations to produce drawings in two-dimensional format, using the basic draw and edit commands. Corequisites: DRFT-110. Offered: Fall & Spring.

DRFT-201 Investigation in Civil Drafting 1 cr.

An introduction to the various aspects of civil drafting and engineering technology. Students research related topics and present their findings. Prerequisites: DRFT-115. Offered: Fall.

DRFT-210 Technical Drafting III 4 cr.

Design and working drawings, detail, subassembly and assembly drawings, and bill of materials are studied. Manufacturing methods and related drawing formats and topics in the mechanical and civil environment will be examined. Prerequisites: DRFT-115 and MATH-160. Offered: Fall.

DRFT-247 Const Practices & Estimating 4 cr.

Methodology and quantity calculations including excavation, foundations, concrete and masonry structures, steel, framing, flooring, drywall, roofing, insulations, and finish work. Corequisite: DRFT 248, MATH 160, and MATH 180. Offered: Spring.

DRFT-248 Civil Drafting I 4 cr.

Advanced instruction in common techniques specific to the civil drafting environment such as horizontal alignments and profiles, earthwork and GIS. Prerequisites: DRFT 150, and completion of MATH 096 or appropriate Math Accuplacer score. Corequisites: MATH 160 and MATH 180. Offered: Fall.

DRFT-249 Civil Drafting II 4 cr.

A study in the design and drawing of sites and parcels, alignments, plan and profile drawings, corridors and other land development operations in a 3D environment. Prerequisites: DRFT-248. Offered: Spring.

DRFT-255 Statics & Strength of Material 4 cr.

Practical approach to applying concepts of statics and strength of materials to solution of force systems. Prerequisites: MATH-180 and MATH-185. Offered: Spring.

DRFT-260 Advanced AutoCAD 4 cr.

A continuation of Computer-Aided Drafting. Topics in 3D modeling, customizing the CAD user interface and advanced drawing layout techniques are studied in depth. Prerequisites: DRFT-150. Offered: Fall & Spring.

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. Appropriate strategies for preventing and dealing with violence, aggression, anger, and stress will be included. Emphasis is placed on helping children become self-responsible, competent, independent, and cooperative learners. Prerequisites: Completion of ENGL-099 and RDNG-113 or appropriate English and Reading Accuplacer score. Offered: Fall.

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. This class includes a 75 hour practicum placement in an accredited and instructor approved early care and education center in addition to the regularly scheduled class meeting times. Students may be required to pass a background check. Prerequisites: Completion of ENGL-095 and RDNG-095 or appropriate English and Reading Accuplacer scores. Offered: Fall.

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: Completion of ENGL-095 and RDNG-095 or appropriate English and Reading Accuplacer score. Offered: Fall.

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. Offered: On Demand.

ECED-175 Curriculum Dev Through Play - Birth to 4 5 cr.

Play at the center of the curriculum in developmentally appropriate early childhood programs. It addresses content that is relevant for children birth through age four in developmentally and culturally sensitive ways of integrating content into teaching and learning experiences. Information on adapting content areas to meet the needs of children with special needs and the development of IFSP's is included. Curriculum development in all areas, including literacy, numeracy, the arts, health, science, social skills, and adaptive learning for children, birth through age four, is emphasized. Prerequisites: ECED-225 and ECED-145. Completion of ENGL-099 or appropriate English Accuplacer score. Offered: Fall. Faculty Permission Required.

ECED-222 Intro to Reading & Literacy 3 cr.

Designed to prepare early childhood professionals for promoting children's emergent literacy and reading development. The course addresses ways in which early childhood professionals can foster young children's phonemic awareness, literacy problem solving skills, fluency, vocabulary, comprehension, and language development. Strategies support the emergent literacy and reading skills of native speakers and English language learners. Prerequisites: Completion of ENGL-099 and RDNG-113 or appropriate English and Reading Accuplacer score. Offered: Spring.

ECED-225 Child Growth & Development 3 cr.

Provides students with the foundation for becoming a competent early childhood professional and knowledge of how young children grow, develop and learn. Major theories of child development will be integrated with all aspects of development. The adult's role in supporting each child's growth, development and learning will be