COURSE DESCRIPTIONS

**COURSE CODE: CDM 1241. Web Design Fundamentals. 1.5 Credit.**
In this hands-on course, students explore the technical and design fundamentals of creating a website. Students learn how to hand-code Web pages with HTML and CSS, to format text, incorporate images, build tables and create links, as well as how to use Photoshop to prepare images for the web. Through lectures, demonstrations and critiques students are introduced to the elements of good web design, the basics of user interface, and recommended standards. Students design and build a simple website that implements each of the skills and techniques covered in the course. Each student is required to host and upload their website. Students enrolling in this class must have at least 2 years of experience using a Macintosh computer to save, find and open files. They must also be familiar with browsing the web.

**COURSE CODE: CDM 1500. Introduction to VectorWorks. 1.5 Credit.**
Introduction to the practice of architectural drawing and detailing through the use of VectorWorks, an industry-standard CAD software for Exhibition Design, Theater Design, Landscape Design, and increasingly used by Architects. Through this course students learn the basics of orthogonal projections (Plan, Elevation, Section) while learning to use and navigate the interface of VectorWorks.

**COURSE CODE: CDM 2230. Page Layout for Print and Interactive Design. 3 Credits.**
This course focuses on Adobe InDesign’s layout and typesetting tools for print and interactive design. Course content covers page layout, grid systems, typography, styles, tables and forms, color space, file formats, resolution sizes for print and interactive documents. Project and software workflow is included in course projects. Prerequisites: CDM 1200 or CFN 1000.

**COURSE CODE: CDM 2280. Interactive Web Design I. 3 Credits.**
This course offers a technical and conceptual introduction to web design. Topics covered include visual design; the fundamentals of website structure and navigation; accessibility and usability; writing HTML and CSS; and content management systems. Projects examine the web as a platform for both client-driven and self-published work.

**COURSE CODE: CDM 2300. Motion Graphics I: After Effects. 3 Credits.**
Motion graphics and visual effects for animation, digital video, and film using Adobe After Effects. Visual storytelling through kinetic sequencing, using images, type, and sound. Students learn to create and communicate with pre-visualization tools such as storyboards and style frames before animating in the timeline. Asset management, timeline work flow, keyframes, sound, compositing techniques, basic keying, effects, lighting, and camera use. Projects cover all facets of motion design and narrative storytelling from conceptual design to final production. Prerequisites: CDE 1090 or CDM 1200.
CDM 2320. Digital Illustration I for Designers. 3 Credits.
Digital illustration for print and web. Application of traditional illustration to digital media, using primarily Adobe Photoshop and Illustrator. Focus on concept development and personal style. Critiques consider composition, lighting, content, meaning, and other constructive criteria.

CDM 2420. Sound Design and Editing. 3 Credits.

CDM 3010. Special Topics in Design. 3 Credits.
Topics vary by semester. May be repeated for credit provided topic differs. See department for more details. Prerequisite: CDE 1090.

CDM 3090. Digital Media Design Studio III. 3 Credits.
Mood boards, storyboards, style frames, video editing, narrative structure, animation, and motion graphics for the network television industry. Design and animation methodology, processes, language, and critique process. Project workflow, professional presentation, and professional practices for designers and animators are integrated into course projects. The semester long course project is a network ID package that includes a 10 second open, bump in, bump out, lower thirds, and in-show transitions. Adobe After Effects and handcraft tools. Restricted to students in the BFA in digital media design program. Prerequisite: CDE 2091.

CDM 3091. Digital Media Design Studio IV. 3 Credits.
In this advanced level course, students learn and develop skill sets in research, script writing, and voice-overs. Course projects include creating mood boards, storyboards, style frames, video editing, narrative structure, animation, and motion graphics. Students learn design and animation methodology, processes, language, and critique process. Project workflow, professional presentation, and professional practices for designers and animators are integrated into course projects. Course projects include a Network Promo animation and a kinetic infographic. Students expand their skill sets with Adobe After Effects and handcraft tools in course projects. At the end of the semester, students obtain experience in professional animation projects and skill sets, while understanding on-the-job expectations for a fast-paced professional animation studio in the network television and film industry. Restricted to students in the BFA in digital media design program. Prerequisite: A grade of "C" or better in CDM 3090 or permission of the department chair.

CDM 3280. Interactive Web Design II. 3 Credits.
In this course, students learn to design for dynamic systems. Building on the foundation of Interactive Web Design I, students use tools such as JavaScript, PHP, and SQL in to create pages that communicate up-to-the-minute information. Prerequisite: CDM 2280.

CDM 3300. Motion Graphics II: After Effects. 3 Credits.
Animation and motion graphics using Adobe After Effects. Kinetic sequence projects include narrative animation and type in motion. Students develop advanced level storyboards and style frames as pre-visualization tools. Projects incorporate sound and audio files as tone and storytelling elements. Project workflow emphasizes narrative exploration, pacing, timing, and scene transitions. Projects encompass all facets of motion design and narrative storytelling from conceptual design to final production. Prerequisite: CDM 2300.

CDM 3310. Animation I: Cinema 4D. 3 Credits.
3D animation using Cinema 4D software. 3D space, scale, perspective, modeling, lighting, camera use, textures, and rendering. Students learn 3D animation processes, methods, and workflow as they design and produce small- and large-scale objects in 3D environments. Course content and projects focus on Cinema 4D integration with Adobe Illustration and Adobe Photoshop.

CDM 3311. Animation II: Cinema 4D. 3 Credits.
Intermediate course in 3D animation using Cinema 4D software. Skill sets, project workflow, and production in 3D animation, including 3D space, modeling, lighting, camera use, and textures. Animation processes, methods, and workflow while creating large-scale projects using the software. Introduction of more advanced subjects of character rigging and animation, Dynamics, BodyPaint, Particles and MoGraph, with an exploration of the integration between Cinema 4D and After Effects. Prerequisites: CDM 3311.

CDM 3320. Digital Illustration II for Designers. 3 Credits.
The visual communication art of illustration. Students apply drawings to visual story development by composing graphics, concept art, covers, and other application techniques for a variety of media for print and web. Adobe Photoshop with Adobe Illustrator. Prerequisite: CDM 2320.

CDM 3340. Entertainment Design: Movie Key Art. 3 Credits.
This course introduces the fundamental basics of Movie Key Art for the purpose of movie marketing campaigns, which includes movie posters, promotional merchandise, dvd packaging, outdoor and Internet advertising. Topics covered include the history of Movie Key Art, marketing strategy with ideation and branding, as well as typeface development and using Adobe Creative Suite software at an advanced level. Through the use of Adobe Photoshop, Illustrator and Indesign, the process of Key Art Design for movie advertising will be handled step by step. Establishing pay rates and professional practice in the design industry is discussed in this course. Course projects focus on individual and team collaboration for a real world Studio Experience. Prerequisites: CDE 2091 and CGD 2060.
CDM 3420. Sound Design. 3 Credits.
This course introduces students to audio recording, mixing and mastering skills, as well as creative application of post-production techniques on campus, in the workplace, and at home. Focused on teaching audio recording and post-production mixing basics, this course also concentrates on the history of recording and recording technologies; recording personnel and duties; legal aspects of sound production and design, and the role of the creative process in the world of constantly emerging multimedia and communication technologies. This class features hands-on recording and digital editing in real-world scenarios using a variety of equipment and techniques.

CDM 3430. Design for Mobile Devices. 3 Credits.

CDM 3440. Web Applications: Google, Smart Phones, Drupal, Joomla. 3 Credits.
In this two-part course, learn how to leverage tools used to create mobile and online applications for businesses and organizations. Part 1 focuses on basic iPhone and Google apps. Part 2 covers Drupal, Joomla and Wordpress implementation, including which platform works best for a particular business or organizational model. Prerequisites: CDM 2280 or CDM 1200 or CFN 1000.

CDM 3490. Digital Media Design Thesis I. 3 Credits.
The senior thesis project includes conducting research, writing a thesis paper, interviewing a motion designer or animation professional, writing a script, and designing a thesis animation. Discussion and critique of motion design and animation's role in contemporary culture, commerce, and social identity. This is the culminating project for the BFA in digital media design. Restricted to students in the BFA in digital media design program. Prerequisite: CDM 3091.

CDM 3491. Digital Media Design Thesis II. 3 Credits.
Digital Media Design Senior Thesis is comprised of three components: written paper, interview of digital media design professional, and final multi-media installation. Students must have received a grade of C or above in CDM 4090 to have it count toward the prerequisite requirement. Students finalize the written thesis paper on a design-related topic in the digital media design field. Then, students interview a prominent practitioner in the field of Digital Media Design. As the third component of Digital Media Design Senior Thesis, students translate their thesis paper into a multi-media installation which can be either a rich media interactive experience or a linear or non-linear motion/video narrative. Upon completion, the thesis projects are presented in a special museum exhibition. Restricted to students in the BFA in digital media design program. Prerequisites: CDM 4090 or CDM 4000; or permission of the department chair.

CDM 4300. Motion Graphics III: After Effects. 3 Credits.
Techniques and professional methods for digital filmmaking, video production, and visual effects; process and project workflow for large-scale projects, narrative storytelling, and best professional practices. Builds upon project work in CDM 3300 Prerequisite: CDM 3300.

CDM 4301. Motion Graphics IV. 3 Credits.
Students enrolled in this course learn techniques and apply professional methods for digital filmmaking, video production and visual effects. Advanced course projects include storytelling with camera tracking, green screen, and digital compositing. This course builds upon projects from CDM 4300 Motion Graphics III. Topics covered include process and project workflow for large-scale projects, narrative storytelling, and best professional practices. Students develop advanced level story boards and style frames as pre-visualization tools. Projects incorporate sound and audio files as a tool, tone, and storytelling element. Project workflow emphasizes narrative exploration, pacing, timing, and scene transitions. Critiques are integrated into course projects. Students learn and develop professional verbal communication skills as they develop their creative and technological skill sets Prerequisite: CDM 4300.

CDM 4311. Time-based Media and Animation III. 3 Credits.
This is an advanced course in 3D animation using Cinema 4D software. Students learn advanced skill sets, project workflow, and production in 3D animation, which includes: 3D space, modeling, lighting, camera use, and textures. Students learn animation processes, methods, and workflow while designing and producing a single, high quality animation short, graphics package, commercial campaign, or other equally complex portfolio piece. Students explore the high level subjects of scripting and expressions, while delving deeper into the capabilities of the core foundations of the software as it relates to texture painting and UVs, Organic Modeling, high quality renders, project optimization, and production processes as they relate to real world expectations. Prerequisite: CDM 3312.

CDM 4330. Interaction Design. 3 Credits.
Design - says Elizabeth Coleman - is the art of organizing the world of things to maximum effect. How does this instinct for structure and consequences speak to a practice in interactive media? This course explores ways of shaping experiences and creating meaning in interfaces and on the web. Subjects include user-centered design, information architecture, design documentation, and art direction Prerequisites: CDE 2091 and CGD 2060.

CDM 6010. Topics in Design. 3 Credits.
Issues in contemporary design practice. Topics vary by semester. May be repeated for credit provided topic differs. See department for more details. Materials fee.