

# COMPUTER GRAPHICS

## DIGITAL DESIGN CERTIFICATE

The curriculum focus is on both visual communication and technical proficiency. Students will build a foundation within interactive design, web-based media, animation and motion graphics. The Digital Design Certificate will prepare students for careers in broadcast, video and interactive design.

### SEMESTER ONE

Introduction to Digital Design (12 sessions)

Adobe Flash I/II (12 sessions)

Special Effects with Adobe AfterEffects (6 sessions)

### SEMESTER TWO

Maya I/II (12 sessions)

Final Cut Express I/II (12 sessions)

### SEMESTER THREE

Adobe Flash III (6 sessions)

Introduction to Mobile Design (6 sessions)

Advanced Digital Design (12 sessions)

## GRAPHIC + WEB DESIGN CERTIFICATES

These certificates provide students, whether interested in traditional publishing or digital communications, with the creative and technical skills needed to compete in these exciting industries.

These programs are particularly well-suited for current graphics professionals wishing to upgrade their computer skills, production artists or programmers seeking career advancement, individuals working to establish their own businesses and creative young people looking for a way to enter the profession. The majority of classes are taught on the Macintosh platform, the industry standard for graphics professionals.

## GRAPHIC DESIGN CURRICULUM

### SEMESTER ONE

Introduction to Computer Graphics

Adobe InDesign I

Adobe Photoshop I/II

### SEMESTER TWO

Adobe InDesign II

Adobe Illustrator I/II

Elective One

### SEMESTER THREE

Basic Layout & Typography

Pre-Press Production Techniques

Elective Two

## WEB DESIGN CURRICULUM

### SEMESTER ONE

Web Design Fundamentals

Adobe Photoshop I/II

### SEMESTER TWO

Adobe Dreamweaver I/II

Adobe Flash I/II

### SEMESTER THREE

Imaging for the Web I/II or Web I plus elective

Designing for the Web

### SEMESTER FOUR

Advanced CSS and HTML (XHTML/HTML5);

(formerly Advanced Web Coding)

Web Design Portfolio & Professional Practices



## FACULTY

### SEAN CARROW

BFA in Animation, University of the Arts; AFA, Delaware College of Art and Design. Freelance artist, filmmaker, and animator who has worked with clients including Hallmark, Heritage Productions, Fresh Artists, Project 21 and WHYY among many others.

### BATES CARTER

IT Coordinator, DCAD; BS, Ithaca College. Bates has worked for several years in the IT industry. He manages the computer labs at DCAD and keeps them running at a state-of-the-art level.

### WARREN CHASE

BA, Rochester Institute of Technology. VP, Web Design at Digital Eye, LLC. Warren designs and builds web sites for a variety of regional clients. [www.digitaleyecom](http://www.digitaleyecom).

### LEN DAMICO

BA in Advertising and Public Relations, Penn State. He is the Art Director at The Star Group's Wilmington office on the Christina Riverfront.

### TROY HAVENS

Web Designer and Graphic Artist. For the past 10 years, Troy has been creating print designs and web sites for local non-profits. In 2004, he founded Strategieca, LLC.

### DAVID MANZOLILLO

BS, New York Institute of Technology. Creative Manager for Product Development, Bank of America. Developed computer graphics curriculum and taught at SUNY Farmingdale.

### JASON OLNEY

BFA in film with a minor in animation, University of the Arts. Since 2003 he has been a Senior Graphics Production Specialist at FineStationery.com in Wilmington. Fluent in Mac and PC, Jason has also attended DCAD.

### CHARLEY PARKER

Studied at the Pennsylvania Academy of the Fine Arts. Cartoonist, illustrator and web designer. Produces the award-winning online comic *Argon Zark!* and works for a variety of agencies in web development. [www.cparkerdesign.com](http://www.cparkerdesign.com)

### HERBERT SPARKS

BFA, University of Delaware. Professional Web Designer, Graphic Designer and Illustrator. Senior Web Designer and Developer at Trellest, Inc.

### BRIAN TRUONO

Associate Degree, Bradley Academy for the Visual Arts. Brian works as the Production Director at The Archer Group in Wilmington.

### BRAD WASON

AFA Delaware College of Art and Design; BS, Wilmington College. Brad is the Creative Director for Delaware Marketing Group. He is also the Graphic and Web Design Continuing Education Area Coordinator at DCAD.

### ROB WHITEHEAD

Web Designer, Web Publisher at Bank of America. Has extensive experience in photography, pre-press and imaging technology. Owned and operated Colourworks Photo Lab.



### MACINTOSH COMPETENCY WORKSHOP

COURSE ID: GD0040

Instructor: Bates Carter

ONE SESSION

Saturday, 9 AM – 1 PM; February 6

**NON-CREDIT** Tuition: \$100, 0.4 CEUs

This crash course on the Macintosh operating system is recommended for anyone who has never used a computer, is unsure of his or her skill level or who is unfamiliar with the Mac operating system (Mac OS). Basic operations such as opening and saving files, copying between directories, file management, and printing will be covered, and basic computer terminology will be explained. No experience necessary.

### ADOBE CREATIVE SUITE 4 WEEKEND WORKSHOPS WINTER SEMESTER

Instructor: David Manzollilo

Saturday, 10 AM – 4 PM; January 9, 16, 30

**NON-CREDIT** Tuition: \$100 each/\$275 for all three

Sharpen your skills or brush up on new features with three weekend workshops that will explore the basics, introduce image manipulation, color correction, vector illustration, page layout and pre-press production. These three workshops provide an overview of Adobe Creative Suite 4 and will be taught through discussions, demonstrations and hands-on exercises. A half-hour lunch break will be provided; students may bring their lunch or visit a local eatery.

Weekend 1: Adobe Photoshop CS 4

COURSE ID: GD0064

Saturday, 10 AM – 4 PM; January 9

Learn the basics of Photoshop, image manipulation, basic color correction and tips and tricks to enhance your work flow.

Weekend 2: Adobe Illustrator CS 4

COURSE ID: GD0070

Saturday, 10 AM – 4 PM; January 16

Explore the basics of Illustrator, and the advantages of vector illustration, Live Trace and Live Paint.

Weekend 3: Adobe InDesign CS 4

COURSE ID: GD0071

Saturday, 10 AM – 4 PM; January 30

Complete your workshop experience with learning the basics of page layout, importing Photoshop and Illustrator files, and utilizing the built in pre-press production tools.

### INTRODUCTION TO DIGITAL DESIGN

COURSE ID: GD0073

Instructor: David Manzollilo

TWELVE SESSIONS

Wednesday, 6 PM – 9:15 PM; February 17 – May 5

**NON-CREDIT** Tuition: \$480/Lab Fee: \$35; 3.9 CEUs

**CREDIT** Tuition: \$900/Lab Fee: \$35; 2 Credits

In this introductory course, students will be introduced to the principles of story boarding, script writing and presentation, time-based design, animation and digital video editing. Students will explore these foundation principles using Adobe Final Cut Express and Adobe AfterEffects.

### ADOBE PHOTOSHOP I

COURSE ID: GD0057 (MAC BASED)

Instructor: Jason Olney

SIX SESSIONS

Saturday, 9 AM – 12:15 PM; February 20 – March 27

COURSE ID: GD0054 (PC BASED)

Instructor: Rob Whitehead

SIX SESSIONS

Tuesday, 6 PM – 9:15 PM, February 16 – March 23

**NON-CREDIT** Tuition: \$295/ Lab Fee: \$35; 2 CEUs

**CREDIT** Tuition: \$450/Lab Fee: \$35; 1 Credit

This course introduces the new user to Photoshop, the most widely-used image processing and manipulation application for the desktop. Students explore this program's powerful painting, color-correction and retouching tools and investigate the relationship between image capture, resolution and output quality. *Basic computer knowledge required.*

### ADOBE PHOTOSHOP II

COURSE ID: GD0058 (MAC BASED)

Instructor: Jason Olney

SIX SESSIONS

Saturday, 9 AM – 12:15 PM; April 3 – May 8

COURSE ID: GD0055 (PC BASED)

Instructor: Rob Whitehead

SIX SESSIONS

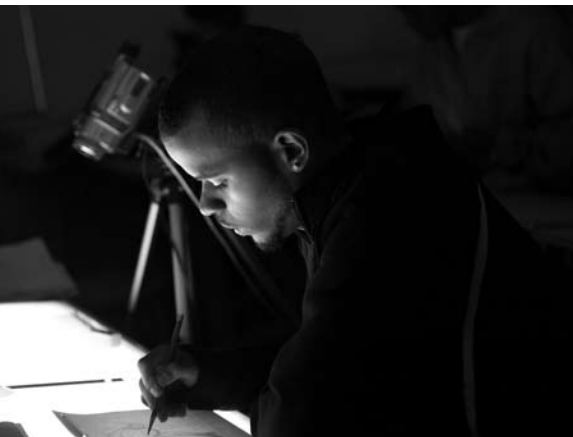
Tuesday, 6 PM – 9:15 PM, March 30 – May 4

**NON-CREDIT** Tuition: \$295/Lab Fee: \$35; 2 CEUs

**CREDIT** Tuition: \$450/Lab Fee: \$35; 1 Credit

Build on your basic understanding of Adobe Photoshop. Learn to unleash the power of this program through an exploration of layers, masks, paths and channels. Customize the application by combining multiple images from diverse sources.

*Prerequisite: Adobe Photoshop I.*



### ADOBE INDESIGN I

COURSE ID: GD0053

Instructor: David Manzolillo

SIX SESSIONS

Monday, 6 PM - 9:15 PM; February 15 – March 22

**NON-CREDIT** Tuition: \$295/Lab Fee: \$35; 2 CEUs

**CREDIT** Tuition: \$450/Lab Fee: \$35; 1 Credit

InDesign is the latest tool for page layout and electronic pre-press preparation. Because it's an Adobe product, InDesign is designed to work with Photoshop, Illustrator and Acrobat. In this course you will gain basic experience with the software as you work with page layout creation, creating and formatting text, inputting and manipulating images, and gain a basic understanding of color as it relates to printing. Exercises are designed to take full advantage of the basic tools within InDesign. *Macintosh knowledge required.*

### ADOBE INDESIGN II

COURSE ID: GD0060

Instructor: David Manzolillo

SIX SESSIONS

Monday, 6 PM - 9:15 PM; March 29 – May 3

**NON-CREDIT** Tuition: \$295/Lab Fee: \$35; 2 CEUs

**CREDIT** Tuition: \$450/Lab Fee: \$35; 1 Credit

Expand your knowledge of this powerful layout and production tool. Students will learn to create complex multi-page documents utilizing master pages and advanced paragraph and character styles (including the new nested styles feature). The use of tables within InDesign will be explored to automate design tasks. InDesign's robust PDF export capabilities, its helpful preflight and document packaging functions will also be explored.

*Prerequisite: Adobe InDesign I.*

### ADOBE ILLUSTRATOR I

COURSE ID: GD0041

Instructor: Len Damico

SIX SESSIONS

Thursday, 6 PM– 9:15 PM; February 18 – March 25

**NON-CREDIT** Tuition: \$295/Lab Fee: \$35; 2 CEUs

**CREDIT** Tuition: \$450/Lab Fee: \$ 35; 1 Credit

One of the backbones of modern graphic design and electronic publishing, Illustrator is the leading vector-based illustration software available. This course instructs the beginning student in the software's typical uses in today's design and publishing environment, covering basic drawing, tracing and typographic techniques. *Mac OS competency required.*

### ADOBE ILLUSTRATOR II

COURSE ID: GD0042

Instructor: Len Damico

SIX SESSIONS

Thursday, 6 PM – 9:15 PM; April 1 – May 8

**NON-CREDIT** Tuition: \$295/Lab Fee: \$35; 2 CEUs

**CREDIT** Tuition: \$450/Lab Fee: \$35; 1 Credit

Build on your basic understanding of Illustrator in this hands-on course. Explore the advanced capabilities of the software by creating dynamic type effects and using blends for realistic illustrations. Learn to integrate illustrations with Adobe Photoshop and web applications through a variety of problem-solving exercises. *Prerequisite: Adobe Illustrator I.*

### ADOBE DREAMWEAVER I

COURSE ID: WD0052

Instructor: Troy Havens

SIX SESSIONS

Saturday, 9 AM – 12:15 PM; February 20 – March 27

**NON-CREDIT** Tuition: \$295/Lab Fee: \$35; 2 CEUs

**CREDIT** Tuition: \$450/Lab Fee: \$35; 1 Credit

Unleash the power of Dreamweaver, a professional authoring tool for creating and managing web pages. Learn the palettes and inspectors used to construct web documents. Beginning with text formatting and tables, the class will cover the use of frames and the construction of image maps.

*Prerequisite: Web Design Fundamentals.*

### ADOBE DREAMWEAVER II

COURSE ID: WD0053

Instructor: Troy Havens

SIX SESSIONS

Saturday, 9 AM – 12:15 PM; April 3 – May 8

**NON-CREDIT** Tuition: \$295/Lab Fee: \$35; 2 CEUs

**CREDIT** Tuition: \$450/Lab Fee: \$35; 1 Credit

In this intermediate level class, students will expand their understanding of Dreamweaver by exploring advanced programming capabilities, including behaviors, cascading style sheets and Dynamic HTML.

*Prerequisite: Dreamweaver I.*



## ADOBE FLASH I

COURSE ID: AN0013

Instructor: Charley Parker

SIX SESSIONS

Tuesday, 6 PM - 9:15 PM; February 16 – March 23

**NON-CREDIT** Tuition: \$295/Lab Fee: \$35; 2 CEUs

**CREDIT** Tuition: \$450/Lab Fee: \$35; 1 Credit

Add Flash to your range of web design skills. Master the fundamentals of the most powerful and versatile tool for creating animation and interactivity for the web. Through in-class projects this course will show you how to create basic but professional-quality motion graphics for banner ads or web presentations, and how to build Flash-based web sites. The course starts with the basics of Flash interface, moves through tools and techniques into the design, planning and creation of Flash projects, and includes real-world considerations for preparing and publishing Flash files on the web.

*Computer graphics knowledge required.*

## ADOBE FLASH II

COURSE ID: AN0014

Instructor: Charley Parker

SIX SESSIONS

Tuesday, 6 PM - 9:15 PM; March 30 – May 4

**NON-CREDIT** Tuition: \$295/Lab Fee: \$35; 2 CEUs

**CREDIT** Tuition: \$450/Lab Fee: \$35; 1 Credit

Extend your command of the interactive power of Flash with this intermediate-level class. Add sophisticated techniques for creating multi-level movies that improve load time, using movie clips to organize and manipulate content and importing and controlling sound files. Learn advanced techniques for Flash's vector drawing tools and work with files imported from other programs. This course also de-mystifies the fundamentals of ActionScript. Flash's powerful scripting language can be surprisingly simple to use and gives you extraordinary control over animation and response to user actions. The course is flexible enough to accommodate student requests to explore particular aspects of this versatile program. *Prerequisite: Adobe Flash I.*

## MAYA I

COURSE ID: AN0054

Instructor: Sean Carrow

SIX SESSIONS

Saturday, 9 AM – 12:15 PM; February 20 – March 27

**NON-CREDIT** Tuition: \$295/Lab Fee: \$35; 2 CEUs

**CREDIT** Tuition: \$450/Lab Fee: \$35; 1 Credit

Maya is the leading 3D design animation software. This introductory class will provide students with an introduction to this powerful software, including an overview of tools, modeling, rigging, simple environments and basic animation.

## MAYA II

COURSE ID: AN0055

Instructor: Sean Carrow

SIX SESSIONS

Saturday, 9 AM – 12:15 PM; April 3 – May 8

**NON-CREDIT** Tuition: \$295/Lab Fee: \$35; 2 CEUs

**CREDIT** Tuition: \$450/Lab Fee: \$35; 1 Credit

Build on your knowledge of Maya to learn about lighting, cameras, textures, advanced rigging, surface painting, advanced modeling and character animation.

*Prerequisite: Maya I.*

## BASIC LAYOUT & TYPOGRAPHY

Course ID: GD0001

Instructor: Brad Wason

TWELVE SESSIONS

Wednesday, 6 PM – 9:15 PM; February 17 – May 5

**NON-CREDIT** Tuition: \$490/Lab Fee: \$35

**CREDIT** Tuition: \$900/Lab Fee \$35; 2 Credits

Learn to communicate effectively using principles of design and typography. Issues of space, texture, color, rhythm and meaning are addressed. Type and visual elements are combined to create effective layouts. Computer typography is introduced. *Pre-requisites: Quark I or InDesign I; Mac OS competency.*

## PRE-PRESS PRODUCTION TECHNIQUES

COURSE ID: GD0021

Instructor: Brad Wason

SIX SESSIONS

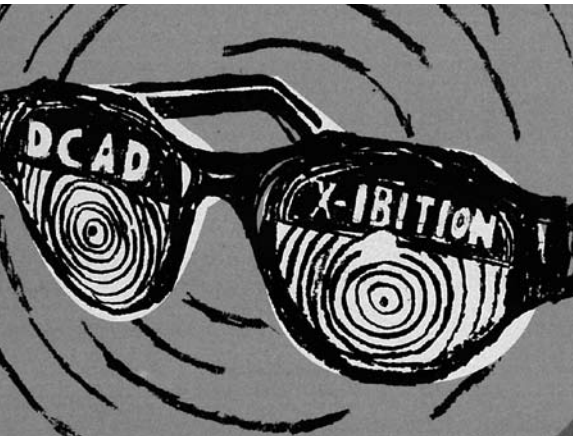
Monday, 6 PM – 9:15 PM; February 15 – March 22

**NON-CREDIT** Tuition: \$295/ Lab Fee: \$35; 3.9 CEUs

**CREDIT** Tuition: \$450/ Lab Fee: \$35; 2 Credits

Preparing material for professional printing is a crucial aspect of the design process. Learn to translate your design into a serviceable document. This class will explore the capabilities of various applications, platform translations, font management, scanning, color separation and printer selection.

*Prerequisite: QuarkXpress or InDesign.*





## WEB DESIGN PORTFOLIO & PROFESSIONAL PRACTICES

COURSE ID: WD0059

Instructor: Brad Wason

SIX SESSIONS

Monday, 6 PM – 9:15 PM; March 29 – May 3

This course will examine the professional practices used by web designers and developers to effectively market themselves. In a critique environment, students will develop a personal portfolio site as well as develop new projects to demonstrate their creative and technical skills and further expand their body of work. *Students must have completed all Web Design curriculum courses prior to enrolling in this course.*

## DESIGNING FOR THE WEB: THE WEB DESIGN PROCESS

COURSE ID: WD0003

Instructor: Brian Truono

TWELVE SESSIONS

Wednesday, 6 PM – 9:15 PM; February 17 – May 5

**NON-CREDIT** Tuition: \$480/Lab Fee: \$35; 3.9 CEUs

**CREDIT** Tuition: \$900/Lab Fee: \$35; 2 Credits

Learn, from beginning to end, how freelancers to professional agencies build web sites. Travel through the entire process: speaking with clients; developing proposals, timelines and outlines; managing time and employees; working through pricing, design and development stages; usability testing, site launch and beyond! *Basic HTML, Dreamweaver and Photoshop skills are required.*

## IMAGING FOR THE WEB

COURSE ID: WD0013

Instructor: Brian Truono

SIX SESSIONS

Tuesday, 6 PM – 9:15 PM; February 16 – March 23

**NON-CREDIT** Tuition: \$295/Lab Fee: \$35; 2 CEUs

**CREDIT** Tuition: \$450/Lab Fee: \$35; 1 Credit

Create dynamic and compact images for the web using Adobe Photoshop and Adobe ImageReady. Incorporate the powerful image-editing and optimization capabilities of these programs into your design and production process. Investigate slicing, patterned backgrounds, banner design, gif animations and color palettes. *Basic Photoshop, Dreamweaver and HTML skills required.*

## WEB DESIGN FUNDAMENTALS

COURSE ID: WD0040

Instructor: Warren Chase

TWELVE SESSIONS

Section A

Monday & Thursday, 6 PM - 9:15 PM; January 4 – February 11

Section B

Thursday, 6 PM – 9:15 PM, February 18 – May 6

**NON-CREDIT** Tuition: \$490/Lab Fee: \$35; 3.9 CEUs

**CREDIT** Tuition: \$900/Lab Fee: \$35; 2 Credits

The first course in the Web Design Certificate program explores HTML and Cascading Style Sheet (CSS), the major components of web site development. Learn how to format text, control page layout and understand hyperlinks and keys to comprehensive web site navigation. The course will cover creating compressed graphics, developing an online form, considering basic guidelines for search engine optimization and using an FTP application. Students will employ new knowledge to construct their own functional web site as a final project. *Prerequisite: Photoshop I.*

## ADVANCED CSS AND HTML (XHTML)

(Formerly Advanced Web Coding)

COURSE ID: WD0066

Instructor: Herb Sparks

TWELVE SESSIONS

Monday, 6 PM – 9:15 PM; February 15 – May 3

**NON-CREDIT** Tuition: \$490/Lab Fee \$35; 3.9 CEUS

**CREDIT** Tuition: \$900/Lab Fee \$35; 2 Credits

This course will cover advanced layout and design of web pages and web sites as a whole. Topics and exercises will include advanced CSS techniques, SEO, optimization, accessibility and an introduction to JavaScript with basic interactivity. Additional discussions will include the customization of the look and feel of blogs, CMS software and social media. All editing will be done by hand. *It is required that students have taken all previous web courses and have a good understanding of HTML, CSS, and the web design process.*