Note: Cross listed as GCMW 291; may be taken 4 times

Graphic designers, whether employed by business or freelance, need to understand contract terms, negotiation, conditions, and the statutory and case law uniquely applicable to graphic design. Understanding the terms of a contract is essential to protecting the rights to use of work product and obtaining compensation. Failing to do so usually results in abuse of rights and non-compensation.

GCIP 292 Legal Issues for Graphic Designers and Web Developers

(Formerly GC 292)

3 hours lecture

Prerequisite: GCIP/R GCIP 149 and/or GCMW/R GCMW 102 Note: Cross listed as GCMW 292

This course will cover most legal issues that confront graphic designers and web developers in the day-to-day operation of the businesses. Specific legal issues will include business formation, contracts, copyright, licensing, deep linking, click wrap agreements, and the risks and benefits of self employment versus employment by a business.

GCIP 295 Directed Study in Graphic Communications (1,2,3) (Formerly GC 295)

3, 6, or 9 hours laboratory

Prerequisite: Approval of project or research by department chairperson/ director

Note: Cross listed as GCMW 295; may be taken 4 times

Transfer acceptability: CSU

Independent study for students who have demonstrated skills and/or proficiencies in Graphic Communications subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

GCIP 296 Special Projects (1,2,3)

(Formerly GC 296)

2, 4, or 6 hours lecture/laboratory

Recommended preparation: Advanced coursework or job-related experience Note: Cross listed as GCMW 296; may be taken 4 times

Transfer acceptability: CSU

Independent work on a specified sustained project which does not fit into the context of regularly scheduled classes. Students work from a contract agreed upon by the student and the instructor.

Graphic Communications -Multimedia & Web (GCMW)

See also Graphic Communications and

Graphic Communications - Imaging & Publishing

Contact the Graphic Communications Department for further information. (760) 744-1150. ext. 2452 Office: GI-6

For transfer information, consult a Palomar College Counselor.

Associate in Arts Degrees -

AA Degree requirements are listed in Section 6 (green pages). Digital Video

- Interactive Media Design Emphasis in 3D Modeling and Animation
- Interactive Media Design Emphasis in Multimedia Design
- Interactive Web Multimedia and Audio
- Internet Emphasis in Graphic Communication
- New Media Compositing, Authoring, and Distribution

Certificates of Achievement -

Certificate of Achievement requirements are listed in Section 6 (green pages). Digital Video

- Interactive Media Design Emphasis in 3D Modeling and Animation
- Interactive Media Design Emphasis in Multimedia Design
- Interactive Web Multimedia and Audio
- · Internet Emphasis in Graphic Communication
- New Media Compositing, Authoring, and Distribution

Certificates of Proficiency -

Certificate of Proficiency requirements are listed in Section 6 (green pages).

- Digital Animation, Compositing, and Music
- Digital Media
- E Commerce Design
- Internet Publisher
- Video Game Artist
- Web Data Base Design

(3)

- Web Graphics
- Web Motion Graphics

PROGRAMS OF STUDY

Digital Animation, Compositing, and Music

This program is directed at the digital design and implementation of 3D animations, graphic compositing and music.

CERTIFICATE OF PROFICIENCY

Program Requirements (5 courses minimum required, 15 units total)		Units
ARTI 246	Digital 3D Design and Modeling	3
ARTI 247	Digital 3D Design and Animation	3
GCMW 204	Motion Graphics for Multimedia	3
GCMW 206	Motion Graphics Production and Compositing	3
MUS 180	Computer Music I	3
MUS 184	Electronic Ensemble	3
TOTAL UNITS		15

Digital Animation, Compositing, and Music Certificate of Proficiency is also listed in Art and in Music.

Digital Media

Digital Media encompasses digital video editing in both analog and digital media. The certificate prepares students for employment in the film, video, Internet, and television industries. Major growth in this industry is anticipated as Internet and television merge into one medium.

CERTIFICATE OF PROFICIENCY

Program Requirements		Units
CINE/RTV 125 or	Beg Film/Video Field Production	
GCIP/		
R GCIP 140	Digital Imaging/Photoshop I	3
GCMW 204	Motion Graphics for Multimedia	3
GCMW 205	Digital Video for Multimedia	3
RTV 270	Digital Video Editing	3
RTV 275	Avid Editing for Television & Film	3
TOTAL UNITS		15

Digital Media Certificate of Achievement is also listed under Radio and Television.

Digital Video

Digital Video encompasses editing and design in using both digital and analog media. This degree prepares students for employment in the film, video, Internet, and television industries.

A.A. DEGREE MAJOR OR **CERTIFICATE OF ACHIEVEMENT**

Program Requirements GCIP/		Units
R GCIP 140	Digital Imaging/PhotoShop I	3
GCMW 165	Digital Video Design	3
GCMW 204	Motion Graphics for Multimedia	3
GCMW 205	Digital Video for Multimedia	3
RTV/CINE 125	Beg Film/Video Field Production	3

RTV 230 RTV 270 RTV 275	Digital Audio with Pro Tools Digital Video Editing Avid Editing for Television and Film	3 3 3
Electives (2 co	urses minimum required, 6 units total)	Units
ARTI 246	Digital 3D Design and Modeling	3
ARTI 247	Digital 3D Design and Animation	3
DT 180	3D Studio Max-Intro to 3D Modeling/Animation	3
GCIP/		5
R GCIP 152	Desktop Publishing/Illustrator I	3
GCIP 240	Digital Imaging/PhotoShop III	3
GCMW/	- 8.m	2
R GCMW 101	Multimedia I	3
GCMW 201	Multimedia II	3
GCMW 203	Web Multimedia	3
GCMW 108	Web Motion Graphics I	3 3 3
GCMW 208	Web Motion Graphics II	3
RTV 50	Basic Television Acting	Ĩ
RTV 110	Broadcast Writing and Producing	3
RTV/ENTT 120	Digital Television Production	3
RTV 150	Performance and Acting for Broadcast and Film	3
RTV 170	Introduction to Video Editing	3
RTV/CINE 225	Intermediate Film and Video Field Production	3
TOTAL UNITS		30

Digital Video A.A. Degree Major or Certificate of Achievement is also listed under Radio and Television.

E - Commerce Design

Provides students with a basis for understanding and participating in the design and production of e-business and e-commerce. Specific skills for the E-Commerce Design certificate include Web production, site accessibility, shopping carts, site and data management, security, privacy, and commercial site promotion. Teamwork, problem solving, production process, communication and creativity are core competencies. Upon completion of the certificate, the student may find a job as a graphic designer, Web author, or graphical user interface designer.

CERTIFICATE OF PROFICIENCY

Program Requirements		Units
BUS 157	E-Commerce	3
GCIP/		
GCMW 290 or	Copyright for Graphic Design and Web Developers	
GCIP/		
GCMW 291	Contracts for Graphic Design and Web Developers	I
GCMW 202	Web Page Layout II	3
GCMW 217	Online Store Design I	3
GCMW 218	Online Store Design II	3
GCMW 220 or	Designing for Web Standards I	
GCMW 216	Web Data Base Design I	3
GCMW 232	Web Accessibility Design	<u> </u>
TOTAL UNITS		

Interactive Media Design

Prepares students with specific skills necessary for employment in the field of multimedia design and production. Students may choose an emphasis in either 3D modeling and animation, which emphasizes production skills and authoring systems, or multimedia design, which emphasizes content development and visual design of multimedia productions. Both areas of emphasis collaborate on an actual multimedia production.

Emphasis in 3D Modeling and Animation

A.A. DEGREE MAJOR OR **CERTIFICATE OF ACHIEVEMENT**

Program Requirements		Units
ARTI 100	Introduction to Illustration	3
ARTI 246	Digital 3D Design and Modeling	3
ARTI 247	Digital 3D Design and Animation	3
DT 180	3D Studio Max-Intro to 3D Modeling/Animation	3
DT 182	3D Studio Max-Adv 3D Modeling/Animation	3
GCIP/	C C	
R GCIP 140	Digital Imaging/Photoshop I	3
GCMW 204	Motion Graphics for Multimedia	3
Electives (Sele	ct two courses)	
ART 241	Computer Graphics	3
ART 248	Character Animation	1.5
ARTD 150	Digital Concepts/Techniques in Art	3
ARTD 220	Motion Design	3
DT/R DT 128	SolidWorks Intro 3D Design and Presentation	3
DT 184	Real Time 3D Technical/Game Animation	2
GCIP 240	Digital Imaging/Photoshop III	3
GCMW 201	Multimedia II	3
ENTT/RTV 120	Digital Television Production	3
RTV 124	Staging and Lighting for Television	3
TOTAL UNIT	S	24.5 – 27

Emphasis in Multimedia Design

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requi	irements	Units
ARTD 100	Graphic Design I	3
ARTD 220	Motion Design	3
ARTI 247	Digital 3D Design and Animation	3 3
GCIP 240	Digital Imaging/Photoshop III	3
GCMW/		
R GCMW 101	Multimedia I	3
GCMW 201	Multimedia II	3
GCMW 204	Motion Graphics/Multimedia	3
Electives (Sele	ct two courses)	
ART 197G	Topics in Art – Computer Art	3
ARTD 150	Digital Concepts and Techniques in Art	3
ARTI 246	Digital 3D Design/Modeling	3 3 3
DT 180	3D Studio Max-Intro to 3D Modeling/Animation	3
DT 182	3D Studio Max-Adv 3D Modeling/Animation	
GC 100	Graphic Communications	3
GCIP/		
R GCIP 140	Digital Imaging/Photoshop I	3
GCIP/		
R GCIP 152	Desktop Publishing/Illustrator I	3
GCMW/		
R GCMW 102		3
GCMW 197B	Topics in Multimedia	3
GCMW 203	Web Multimedia	3
MUS 180	Computer Music I	3 3 3 3
RTV 170	Introduction to Video Editing	3
TOTAL UNITS		27

TOTAL UNITS

Interactive Media Design A.A. Degree or Certificate of Achievement is also listed in Art and in Drafting Technology.

Interactive Web Multimedia and Audio

This program is directed at interactive methods of Web production that include creation of audio for the Internet. Students will learn techniques and software to create animated and interactive Web sites and audio production for the Internet.

Program Requirements GCMW/		Units
R GCMW 101 GCMW/	Multimedia I	3
R GCMW 102	Web Page Layout I	3
GCMW 108	Web Motion Graphics I	3
GCMW 123	Audio for the Internet	3
GCMW 140	Web Graphics	3
GCMW 203	Web Multimedia	3
GCMW 208	Web Motion Graphics II	3
GCMW 229	Interactive Streaming Media	3 3 3 3 3 3 3
Electives (selec	ct 2 courses)	
GCIP/	,	
R GCIP 140	Digital Imaging/PhotoShop I	3
GCIP 141	Digital Imaging/PhotoShop II	3 3 3 3 3 3
GCIP 240	Digital Imaging/PhotoShop III	3
GCMW 104	Motion and Sound	3
GCMW 165	Digital Video Design	3
GCMW 202	Web Page Layout II	3
GCMW 204	Motion Graphics for Multimedia	3
GCMW 205	Digital Video for Multimedia	
GCMW 220	Designing for Web Standards I	3
GCMW 221	Designing for Web Standards II	3
GCMW 228	Web Motion Graphics III	3
GCMW 236	Flash Game Design	3 3 3 3 3
MUS 180	Computer Music I	3
RTV 230	Digital Audio with Pro Tools	3
TOTAL UNITS		30

Internet

As the vast web of global and local information networks grow, several skills and forms of literacy are becoming essential for anyone who wants to obtain the full benefits of the Communications Age.

An individual's ability to capitalize on the opportunities offered by interactive communications requires mastery of these information and communication proveniences:

- Navigational skills The ability to move smoothly among arrays of autonomous and globally interconnected information, contacts, forums, and discussion groups in order to locate and connect to information and expertise from relevant sources.
- **Information literacy** An understanding of which information is most useful, relevant, and reliable, as well as the ability to analyze, distill, integrate, compose, and classify information to create knowledge.
- Distribution skills Frameworks for rethinking methods of packaging, presenting, providing access, and disseminating information and knowledge in this new medium.
- Communications literacy Integrating new forms of information, knowledge, and message development into evolving patterns of organizational and interpersonal communication.

This certificate offers preparation skills for the above areas of emphasis involving the Internet.

Emphasis in Graphic Communication

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Units 3

Program	Requirements
BUS 157	E-Commerce

TOTAL UNITS	S	23
GCMW 220	Designing for Web Standards I	3
GCMW 229	Interactive Streaming Media	3
GCMW 217 or	Online Store Design I	
GCMW 202	Web Page Layout II	3
GCMW 140	Web Graphics	3
GCMW 108	Web Motion Graphics I	3
R GCMW 103	Interactive Publishing with PDFs	3
GCMW/		
R GCMW 102 or	r Web Page Layout I	
GCMW/		
R CSIS 110	Web Site Development with XHTML	2
CSWB 110/		

Internet - Emphasis in Business Education

See Business

Internet Publisher

Prepares students with specific skills necessary for entry-level employment in the field of Web design and production. Students will be able to design and produce simple Websites that have text, graphics, and multimedia.

CERTIFICATE OF PROFICIENCY

Program Requirements		Units
GCMW/		
R GCMW 102	Web Page Layout I	3
GCMW 140	Web Graphics	3
GCMW 203	Web Multimedia	3
GCMW 220	Designing for Web Standards I	3
TOTAL UNITS		12

New Media Compositing, Authoring and Distribution

This program is directed at alternative methods of digital video compilation and release. Students will learn techniques and software to compile and composite digital video for release on CD ROM, DVD, and the Internet.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements		Units
GCIP 240	Digital Imaging/PhotoShop III	3
GCMW/		
R GCMW 101	Multimedia I	3
GCMW 201	Multimedia II	3 3 3
GCMW 165	Digital Video Design	3
GCMW 204	Motion Graphics for Multimedia	
GCMW 205	Digital Video for Multimedia	3
GCMW 206	Motion Graphics Production and Compositing	3
GCMW 229	Interactive Streaming Media	3
Electives (2 co	urse minimum required, 6 units total)	
ARTD 220	Motion Design	3
ARTI 246	Digital 3D Design and Modeling	3 3
ARTI 247	Digital 3D Design and Animation	3
GC 101	History of Graphic Communications	3
GCIP/		
R GCIP 140	Digital Imaging/PhotoShop I	3
GCIP 141	Digital Imaging/PhotoShop II	3
GCIP/		
R GCIP 152	Desktop Publishing/Illustrator I	3
GCIP/		
GCMW 295	Directed Study in Graphic Communications	3

TOTAL UNITS		30
RTV 275	Avid Editing for Television and Film	3
RTV 270	Digital Video Editing	3
RTV 230	Digital Audio with Pro Tools	3
RTV 170	Introduction to Video Editing	3
GCMW 236	Flash Game Design	3
GCMW 221	Designing for Web Standards II	3
GCMW 220	Designing for Web Standards I	3
GCMW 203	Web Multimedia	3
GCMW 123	Audio for the Internet	3
GCMW 228	Web Motion Graphics III	3
GCMW 208	Web Motion Graphics II	3
GCMW 108	Web Motion Graphics I	3
GCMW 202	Web page Layout II	3
R GCMW 102	Web Page Layout I	3
GCMW/	opecial rojecto	5
GCMW 296	Special Projects	3
GCIP/		

Video Game Artist

This certificate program introduces students to the video game industry, video game design, and the creation of both 2D and 3D artwork for video games.

CERTIFICATE OF PROFICIENCY

Program Requirements		Units
CSCI 160	Overview of the Video Game Industry	4
CSCI 161	Game Design	4
ART 241 or	Computer Graphics	
GCIP/		
R GCIP 140 or	Digital Imaging/Photoshop I	
GCIP 141 or	Digital Imaging/Photoshop II	
GCIP 240	Digital Imaging/Photoshop III	3
ARTI 246 or	Digital 3D Design and Modeling	
DT 180 or	3D Studio Max – Intro 3D Modeling/Animation	
DT 182	3D Studio Max – Adv 3D Modeling/Animation	3
ARTD 220 or	Motion Design	
ARTI 247 or	Digital 3D Design and Animation	
DT 184 or	Real Time 3D Technical/Game Animation	
GCMW 204	Motion Graphics for Multimedia	2,3
TOTAL UNITS		16 - 17

Video Game Artist Certificate of Proficiency is also listed under Computer Science and Information Systems.

Web Data Base Design

The Web site developer must present the complexity and volume of information so that the site's visitor may make decisions quickly and accurately. Data-driven dynamic pages are also interactive, allowing the visitor to choose the information that they would like to see. The increasingly sophisticated site development for online stores and multimedia, for example, requires a range of diverse and multifaceted skills from database design, computer graphics, Web design, site design and architecture, graphical user interface design, to cross-platform competence. The World Wide Web, as a graphical user interface, offers new career opportunities to graphic designers who have the skills to maintain sites that contain large amounts of data that changes frequently. The ability to package, share, and manage data to consumers across the Internet is in high demand. The Web Data Base Design certificate prepares for employment in dynamic business environments that need large-scale as well as smaller sites.

CERTIFICATE OF PROFICIENCY

Program Requirements		Units
GCMW 202	Web Page Layout II	3
GCMW 216	Web Data Base Design I	3
GCMW 217 or	Online Store Design I	
GCMW 218	Online Store Design II	3

TAL UNITS	5	16 - 18
MW 164	Interactive Web Graphics	
MW 154	Preparing Web Graphics	1
CMW 292	Legal Issues Graphic Designers/Web Developers	3
CMW 291	Contracts for Graphic Designers/Web Developers	I
IP/ CMW 290	Copyright for Graphic Designers/Web Developers	I
WB 210	Active Server Pages	3
DB 220	SQL Server Programming	3
S 180	Access for Business	I
ective Course	es (Select one course)	
MW 226	Web Data Base Design II	3
MW 220	Designing for Web Standards I	3
MW 220	Designing for Web Standards I	

Web Graphics

Designed to meet the increasing needs of organizations and businesses that publish on the World Wide Web. Specific skills for the Web Graphics certificate include typography, visual acuity, graphic design, Web color, and file formats. The certificate prepares students to gain competence with the basic applications used in industry for digital graphics and Web publishing. Teamwork, problem solving, workflow and production process, communication and creativity are core competencies. Upon completion of the certificate, the student may find a job as a Web production artist, graphic production assistant, or graphic designer.

CERTIFICATE OF PROFICIENCY

Program Requirements GCMW/		Units
R GCMW 102	Web Page Layout I	3
GCMW 202	Web Page Layout II	3
GCMW 108	Web Motion Graphics I	3
GCMW 140	Web Graphics	3
GCMW 154 or	Preparing Web Graphics	
GCMW 164	Interactive Web Graphics	1
GCMW 203	Web Multimedia	3
GCMW 232	Web Accessibility Design	1
TOTAL UNITS		17

Web Motion Graphics

Prepares students with specific skills necessary for employment in the field of Interactive Web multimedia design and production. A high level of skill and time are needed to create professional motion graphics. Specific skills include an attention to detail, knowledge of various illustration and animation software, technical and analytical problem solving, and visual acuity. Teamwork, creativity, communication, understanding of the production process and interactivity are core competencies. Typical job opportunities are in entertainment, business, corporate, and educational industries.

CERTIFICATE OF PROFICIENCY

Program Requirements GCMW/		Units	
R GCMW 102	Web Page Layout I	3	
GCMW 108	Web Motion Graphics I	3	
GCMW 208	Web Motion Graphics II	3	
GCMW 164	Interactive Web Graphics	1	
GCMW 203	Web Multimedia	3	
GCMW 229	Interactive Streaming Media	3	
TOTAL UNITS		16	
COURSE OFFERINGS			
GCMW 101	Multimedia I	(3)	

(Formerly GC 200)

6 hours lecture/laboratory Note: Cross listed as R GCMW 101; may be taken 4 times

Transfer acceptability: CSU

Introduction to multimedia authoring software combining text, graphics, sound, animation, video clips and user interface to produce effective visual presentations.

GCMW 102 Web Page Layout I

(Formerly GC 202)

6 hours lecture/laboratory

Note: Cross listed as R GCMW 102; may be taken 4 times

Transfer acceptability: CSU

A hands-on introduction to page layout for the Internet. Typographic considerations, screen layout, graphical interfaces, and structured page design for effective Internet communications.

GCMW 102A Web Page Layout IA

(Formerly GC 230)

3 hours lecture/laboratory

Note: May be taken 4 times **Transfer acceptability:** CSU

A hands-on introduction to page layout for the Internet. Typographic considerations, screen layout, graphical interfaces, graphics preparation and structured page design for effective Internet communications. The course is designed to introduce students to Web production and site maintenance; special projects facilitate the needs of more advanced students. (For beginning and intermediate levels).

GCMW 102B Web Page Layout IB

(Formerly GC 231)

3 hours lecture/laboratory **Note:** May be taken 4 times

Transfer acceptability: CSU

A hands-on introduction to page layout for the Internet. Typographic considerations, screen layout, graphical interfaces, graphics preparation and structured page design for effective Internet communications. The course is designed to introduce students to Web production and site maintenance; special projects facilitate the needs of more advanced students. (For beginning and intermediate levels).

GCMW 103 Interactive Publishing with PDF's (3) (Formerly GC 203)

6 hours lecture/laboratory

Note: Cross listed as R GCMW 103; may be taken 4 times

Transfer acceptability: CSU

This hands-on course looks at a comprehensive range of print, Web, and multimedia features in Adobe Acrobat for creating and distributing electronic documents reliably and securely. Topics and projects include e-books, forms, editing, prepess, accessibilty, capture, and a variety of methods to convert and repurpose documents.

GCMW 104 Motion and Sound

(Formerly GC 104)

6 hours lecture/laboratory

Note: May be taken 4 times

Introduction to combining motion with sound for multimedia. Includes an overview of motion graphics and sound design for the multimedia industry. Course will consider current trends in motion graphics and soundtracks for film titles, television programs and advertising, interactive media and experimental works. This is a hands-on course using digital tools for creating and editing audio and motion graphics.

GCMW 108 Web Motion Graphics I

(Formerly GC 208)

6 hours lecture/laboratory

Note: May be taken 4 times

Transfer acceptability: CSU

Introduction of core concepts: vectors, the Stage, Scenes, Timelines, Layers, Keyframes, Shapes, Symbols (Graphic, Button, Movie Clip), Tweening, native drawing tools and external editors, frame-by-frame animation, Actions and Actionscript. Development of basic skills in web motion graphics. Exporting and embedding SWF files in Web pages. Macromedia's Flash will be used to create dynamic visual presentations with auditory components to communicate more effectively on the Web.

GCMW 108A Web Motion Graphics IA (1.5) (Formerly GC 234) 3 hours lecture/laboratory Note: May be taken 4 times

Transfer acceptability: CSU

(3)

(1.5)

(1.5)

(3)

(3)

A hands-on introduction to page layout for the Internet. Typographic considerations, screen layout, graphical interfaces, graphics preparation and structured page design for effective Internet communications. The course is designed to introduce students to Web production and site maintenance; special projects facilitate the needs of more advanced students. (For beginning and intermediate levels).

GCMW 108B Web Motion Graphics IB (1.5) (Formerly GC 235) 3 hours lecture/laboratory Note: May be taken 4 times Transfer acceptability: CSU

A hands-on introduction to page layout for the Internet. Typographic considerations, screen layout, graphical interfaces, graphics preparation and structured page design for effective Internet communications. The course is designed to introduce students to Web production and site maintenance; special projects facilitate the needs of more advanced students. (For beginning and intermediate levels).

GCMW 123	Audio for the Internet	(3)
(Formerly GC	223)	
// / .		

(Formerly GC 223) 6 hours lecture/laboratory Note: May be taken 4 times Transfer acceptability: CSU

Introduction to sound and audio on the World Wide Web. Topics covered include digitizing audio for the internet, audio formats, optimization techniques and bandwidth considerations. This is a hands-on class using audio editing, html, and graphics editing software. Upon completion of course, student will create and publish a website incorporating audio on the internet.

tion. This course includes industry standard techniques for vieb graphics and other display media. It covers the mechanics for image production as well as methodologies for asset management, file compression, scanning, animation, image maps, slices, interactive rollovers, navigation, integration with multiple applications, layouts for screens, GIF and JPEG file formats, image resolution, and color depth.

GCMW 154 Preparing Web Graphics	(1)
(Formerly GC 154)	
2 hours lecture/laboratory	
Note: May be taken 4 times	
Transfer acceptability: CSU	
Hands-on course to produce optimized graphics for the Web with applica	tions
such as Adobe's ImageReady or Macromedia's Fireworks, cross-platform pro	oduc-

such as Adobe's ImageReady or Macromedia's Fireworks, cross-platform production environments: edit bitmap and vector graphics; format text; select Web-safe color; simple animation; generate HTML and JavaScript automatically; integrate with other Web production applications.

GCMW 164	Interactive Web Graphics	(1)
(Formerly GC I	64)	
2 hours lecture/le	aboratory	
Note: May be ta	iken 4 times	
Transfer accept	ability: CSU	
Hands-on course	to produce optimized graphics for the Web	with applications

Hands-on course to produce optimized graphics for the Web with applications such as Adobe's ImageReady or Macromedia's Fireworks, cross-platform production environments: design complex buttons and navigation bars, image maps, slicing complex graphics, animation, batch processing, and scripting; generate HTML and JavaScript automatically; integrate with other Web Production applications.

GCMW 165 **Digital Video Design**

(Formerly GC 165) 6 hours lecture/laboratory Note: May be taken 3 times Transfer acceptability: CSU

Explores project planning, setup, editing and output of Digital Video. Incorporates sound, graphics, 2D animation and text for full-screen, web, CD-ROM, or DVD playback. Projects and assignments utilize transitions, superimposing, transparency and keying along with video, audio and other special effects.

GCMW 197A Topics in Internet

(Formerly GC 197D)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture, laboratory, or lecture/laboratory may be scheduled by the department. Refer to Class Schedule.

Note: May be taken 4 times Transfer acceptability: CSU

Graphic Communications topics in Internet. See Class Schedule for specific topic offered. Course title will designate subject covered.

GCMW 197B Topics in Multimedia (.5-5)

(Formerly GC 197E)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture, laboratory, or lecture/laboratory may be scheduled by the department. Refer to Class Schedule.

Note: May be taken 4 times

Transfer acceptability: CSU

Graphic Communications topics in multimedia. See Class Schedule for specific topic offered. Course title will designate subject covered.

GCMW 201 Multimedia II (3)

(Formerly GC 201) 6 hours lecture/laboratory Prerequisite: GCMW/R GCMW 101 Recommended preparation: GCMW 165 or GCMW 205 Note: May be taken 4 times Transfer acceptability: CSU

Strategies and techniques for designing successful user multimedia interface. There will be emphasis on usability and design issues, incorporation of underlying metaphors, screen design, and navigational styles. Authoring systems, video compositing, digital imaging and audio editing applications will be explored.

GCMW 202 Web Page Layout II

(Formerly GC 212) 6 hours lecture/laboratory Prerequisite: GCMW/R GCMW 102 and GCMW 140

Note: May be taken 4 times

Transfer acceptability: CSU

Multimedia web site design and production using advanced WYSIWYG editor that permits editing hypertext markup language (HTML) as well as designing to current standards of CSS and interactivity. Includes mechanics for site production as well as methodologies for project planning and management.

GCMW 203 Web Multimedia

(Formerly GC 206) 6 hours lecture/laboratory Prerequisite: GCMW/R GCMW 102 Recommended preparation: GCIP/R GCIP 140 Note: May be taken 4 times

Transfer acceptability: CSU

Open discussion of current technologies, social issues, and design theory directly related to multimedia for the Internet and the World Wide Web. Experimental and practical application of multimedia in graphical user interface and user navigation design via assigned class projects.

GCMW 204 Motion Graphics for Multimedia

(Formerly GC 204) 6 hours lecture/laboratory (3)

Prerequisite: GCMW 165

Recommended preparation: GCIP/R GCIP 140 **Note:** May be taken 4 times Transfer acceptability: CSU Explores project planning, setup, execution, and output of motion-based graphics.

Incorporates exploration and integration of sound, graphics, digital video, 2-D animation, and text for multimedia.

GCMW 205 Digital Video for Multimedia

(Formerly GC 207) 6 hours lecture/laboratory Prerequisite: GCMW 165 and 204 Note: May be taken 4 times Transfer acceptability: CSU

Exploration of concepts, design and development of digital video production and editing skills as they relate to CD Rom/DVD, Internet, and Digital Video Tape.

GCMW 206 Motion Graphics Production and Compositing (3) (Formerly GC 213)

6 hours lecture/laboratory Prerequisite: GCMW 204 and 205

Note: May be taken 4 times

This course will be a "cap course" in which the student combines skills learned in multiple disciplines. For example the student will combine video skills learned in Graphic Communications and RTV with skills learned in ART or CAD by compositing a video that incorporates 3D rendered characters with live video footage. The student will complete the work by preparing it for publication using VHS, DVD, and online Streaming technologies.

GCMW 208	Web Motion Graphics II	(3)
(Formerly GC 2	09)	
6 hours lecture/la	iboratory	
Note: May be tak		
Transfer accepto	ability: CSU	
Development of	intermediate skills in web motion graphics: introduction o	of ob-

ject-oriented design as applied to dynamic animation presentations; communication between graphical elements and instances; use of scripting and variables; creation of sound objects; use of components to improve efficiency; using Dynamic Text and ActionScript. Integrating digital audio and video with Flash presentations. Macromedia's Flash will be used to create dynamic visual presentations with audio and video assets to communicate more effectively on the Web.

GCMW 214	Designing Data Bases Visually	(3)
(Formerly GC 2	14)	
6 hours lecture/la	iboratory	
Prerequisite: G	CMW/R GCMW 102 and GCMW 202	
Note: May be tak	ken 4 times	
Transfer accepte	ability: CSU	
Organize and track people, projects, images and information in visually designed cross-platform relational data bases using graphic tools via wizards, templates and custom capabilities. Lay out powerful forms for the end user implementing graphi- cal user interface standards. Publish for print and Web and intranet. Share and integrate secure data with workgroups across networks or other applications. Course is hands-on and will feature such applications as FileMaker Pro.		es and graphi- re and
GCMW 216	Web Data Base Design I	(3)
(Formerly GC 2	5	
6 hours lecture/la	,	
	CMW/R GCMW 102	
Recommended	preparation: GCMW 202	
Note: May be tak	ken 4 times	
Transfer accepte	ability: CSU	
Hands-on course	for creating Web pages that draw dynamic content from	n data-
bases. Design and	create a simple database for use on the Web. Create Web	forms

that add, modify or delete records from a database. Plan and implement a Web application using modern Web design tools such as Dreamweaver.

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GCMW 217 Online Store Design I

(Formerly GC 217) 6 hours lecture/laboratory Prerequisite: GCMW/R GCMW 102 and GCMW 202 Note: May be taken 4 times Transfer acceptability: CSU

Design of interactive commercial web sites with emphasis on online shopping cart and database creation and management. Hands-on production of an online store. Perspective through web store case studies and models. Evaluation of various e-commerce solutions, security/privacy and payment options, site promotion/advertising, analysis tools and trends in appropriate web graphics, multimedia and software. Project management methods for e-commerce site life cycle.

GCMW 218 Online Store Design II

(Formerly GC 218) 6 hours lecture/laboratory Prerequisite: GCMW/R GCMW 102 and GCMW 202 Note: May be taken 4 times

Transfer acceptability: CSU

Hands-on design and production of interactive commercial Web sites with emphasis on complex data-driven online shopping carts. Perspective through Web store case studies and models. Emphasis on forms production to send and dynamically display data for catalog, inventory, customers, etc. Produce components such as guest books, counters, e-mail, etc. to enhance an e-commerce site. Project Management methods for e-commerce site life cycle.

GCMW 220 Designing for Web Standards I

(Formerly GC 215) 6 hours lecture/laboratory Prerequisite: GCMW 202 Recommended preparation: GCMW/R GCMW 102 Note: May be taken 4 times Transfer acceptability: CSU

Web site design and production using the current standards of the hypertext markup language (HTML) and other advanced tools (multimedia applications and Java Script, Java, etc.). Use of HTML editors for site authoring and mechanics as well as methodologies for project planning and management.

GCMW 221 Designing for Web Standards II

(Formerly GC 219) 6 hours lecture/laboratory Prerequisite: GCMW 202 and 220 Note: May be taken 4 times Transfer acceptability: CSU

Current standards of Web design set forth by the W3C mandate changes in the way Web designers create their Web pages. This course teaches the use of XHT-ML and CSS to implement Web typography and advanced Web page layouts that comply with current Web standards. Use of modern Web page layout and design tools such as Dreamweaver to aid your work flow will also be taught.

GCMW 226 Web Data Base Design II

(Formerly GC 226) 6 hours lecture/laboratory **Prerequisite:** GCMW 202 and 216 **Note:** May be taken 4 times **Transfer acceptability:** CSU Advanced topics in the use of data

Advanced topics in the use of databases on the Web. Plan and implement an advanced Web application using robust Web database servers. Build your application using advanced Web design tools such as Dreamweaver.

GCMW 228 Web Motion Graphics III

(Formerly GC 211) 6 hours lecture/laboratory Prerequisite: GCMW 108 Recommended preparation: GCMW 208 Note: May be taken 4 times Transfer acceptability: CSU Dynamic Web content - explore the creation of dynamic Flash presentations. Skinnable components and presentations. Incorporating server-side technologies: Flash as a front-end to a database; using Flash Communications Server and Cold-Fusion MX to enable rich internet application capabilities. Production of audio and digital video for Flash; integration of non-embedded media.

GCMW 229	0	(3)
(Formerly GC 2	/	
6 hours lecture/l	aboratory	
Recommended	preparation: GCMW 104 and 202	
Note: May be ta	ken 3 times	
Transfer accept	tability: CSU	
This course exp combines lectur skills in the inter methods, develo ate formats. Part	lores the various aspects of interactive streaming e, hands on lessons, exercises, projects, and grou ractive streaming process. Students evaluate and p and author various media, and deliver the cont cicular attention is given to design, usability, and a ming media on the web.	up work to build select streaming tent in appropri-
GCMW 232 (Formerly GC 2	Web Accessibility Design 232)	(1)

2 hours lecture/laboratory **Prerequisite:** GCMW 202 and 220 **Note:** May be taken 4 times **Transfer acceptability:** CSU

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Evaluate screen and Web design techniques to maximize accessibility by people with physical disabilities. Implement tools to convert documents to accessible formats. Produce sites that are accessible. Use various resources from the World Wide Web Consortium and publishers such as checklists, examples of code, conversion tools, test tools, etc. Review legal requirements (Americans with Disabilities Act and the Web Accessibility Initiative) for various sectors to provide fully accessible Web sites.

GCMW 236	Flash Game Design	(3)
(Formerly GC 2	236)	
6 hours lecture/la	aboratory	
Prerequisite: GC	CMW 108 and 208	
Note: May be tal	ıken 4 times	
A hands-on intro	oduction to game design using Flash 5. Actions	Script for game
development, scr	reen layout, game interfaces, and structured g	ame layout for
effective game de	esign. The course is designed to introduce st	udents to Flash
0 0	concepts. Projects apply ActionScript and game la	ayout principles.
(For beginning an	nd intermediate levels).	

GCMW 290	Copyright for Graphic Designers & Web Developers	(1)
(Formerly GC 290) I hour lecture		

Note: Cross listed as GCIP 290; may be taken 4 times

Copyright is an old and well codified area of law. The statutes and cases, however, have created complexities that are sometimes difficult to understand. This course covers the basics of copyright law, copyright registration, methods of informing viewers of copyright protections and liability, and the ways in which a graphic designer may enforce copyright. The damages and remedies of injunction and compensation are included.

GCMW 291	Contracts for Graphic Designers	
	& Web Developers	(1)
(Formerly GC	291)	
I hour lecture		

Note: Cross listed as GCIP 291; may be taken 4 times

Graphic designers, whether employed by business or freelance, need to understand contract terms, negotiation, conditions, and the statutory and case law uniquely applicable to graphic design. Understanding the terms of a contract is essential to protecting the rights to use of work product and obtaining compensation. Failing to do so usually results in abuse of rights and non-compensation.

(2)

GCMW 292 Legal Issues for Graphic Designers and Web Developers

(Formerly GC 292)

3 hours lecture

Note: Cross listed as GCIP 292

This course will cover most legal issues that confront graphic designers and web developers in the day-to-day operation of the businesses. Specific legal issues will include business formation, contracts, copyright, licensing, deep linking, click wrap agreements, and the risks and benefits of self employment versus employment by a business.

GCMW 295 Directed Study in Graphic Communications (1,2,3)

(Formerly GC 295)

3, 6, or 9 hours laboratory

Prerequisite: Approval of project or research by department chairperson/ director

Note: Cross listed as GCIP 295; may be taken 4 times

Transfer acceptability: CSU

Independent study for students who have demonstrated skills and/or proficiencies in Graphic Communications subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

GCMW 296 Special Projects

(Formerly GC 296)

2, 4, or 6 hours lecture/laboratory

Note: Cross listed as GCIP 296; may be taken 4 times

Transfer acceptability: CSU

Independent work on a specified sustained project which does not fit into the context of regularly scheduled classes. Students work from a contract agreed upon by the student and the instructor.

Health (HE)

Contact the Physical Education Department for further information. (760) 744-1150. ext. 2462 Office: O-10

COURSE OFFERINGS

HE 100	Health Education and Fitness Dynamics
3 hours lecture	
Coreauisite: HF	1001

Transfer acceptability: CSU; UC

Individual well being will be developed through the study of the emotional, spiritual, intellectual, social, and physical qualities of health.

HE 100L Health Performance Lab (1,1.5,2)

3, 4.5, or 6 hours laboratory

Corequisite: HE 100

Transfer acceptability: CSU; UC

Fitness lab course designed to develop and encourage positive attitude and habits with regards to Health Education and fitness dynamics. Lab activity will primarily utilize exercise equipment as it relates to cardiovascular efficiency, body composition, muscular strength and endurance and flexibility. An individual fitness profile will be established, including pre-post testing, to determine each students' fitness accomplishments.

HE 165 Fundamentals of Nutrition (3)

3 hours lecture

Note: Cross listed as FCS 165

Transfer acceptability: CSU; UC – FCS 165, FCS 185, BIOL 185, HE 165 combined: maximum credit, one course; CAN FCS 2

The study of how food nourishes the body. Investigation of diet fads and fallacies. Eating for fitness, and planning meals for optimum health throughout the life cycle.

HE 197 Current Topics in Health (1,2,3)

1, 2, or 3 hours lecture

Note: May be taken 4 times with different subject matter

Transfer acceptability: CSU

(3)

(1,2,3)

(3)

Current issues in health education meeting student and community educational needs dealing with the social, mental, and physical aspects of personal health. Course title will designate subject covered.

Health Occupations

See Emergency Medical Education, Dental Assisting, Medical Assisting, and Nursing Education

History (HIST)

Contact the Economics, History and Political Science Department for further information. (760) 744-1150. ext. 2412

Office: P-17K

COURSE OFFERINGS

HIST 101	History of the United States	
	Through Reconstruction	(3)

3 hours lecture

Note: This course plus History 102 meets the State requirement in American History and Institutions.

Transfer acceptability: CSU; UC - HIST 101 and 102 or AS 101 and 102 combined: maximum credit, one pair; CAN HIST 8; HIST 101+102=CAN HIST SEQ B

Political, economic, social, and cultural development of the American people through Reconstruction with particular emphasis on the colonial period; the Revolution; constitutional development; westward expansion with emphasis on California and frontier influences; emergence of sectionalism; the Civil War and Reconstruction.

HIST 102	History of the United States	
	Since Reconstruction	(3)
• • •		

3 hours lecture

 $\ensuremath{\textit{Note:}}$ This course plus History 101 meets the State requirement in American History and Institutions.

Transfer acceptability: CSU; UC – HIST 101 and 102 or AS 101 and 102 combined: maximum credit, one pair; CAN HIST 10; HIST 101+102=CAN HIST SEQ B

Political, economic, social, and cultural developments of the American people since Reconstruction. Emphasis will be on the westward and farm movements, industrial development, twentieth century reform movements, the United States as a world power, and civil rights. Special consideration will be given to the development of California state and local government.

HIST 105	History of Western Civilization	
	Through the Reformation	(3)

3 hours lecture

Transfer acceptability: CSU; UC; CAN HIST 2, HIST 105+106=CAN HIST SEQ A

A survey of ancient civilizations, Greece, Rome and medieval Europe, with emphasis on the heritage, ideas, attitudes, and institutions basic to Western Civilization.

HIST 106	History of Western Civilization	
	Since the Reformation	(3)

3 hours lecture

Transfer acceptability: CSU; UC; CAN HIST 4, HIST 105+106=CAN HIST SEQ A

Emergence of modern Europe, expansion of European power and influences; emphasis on cultural and intellectual trends which affect Western civilization in the Twenty-first Century.

HIST 107	World History to 1650	(3)
3 hours lecture		

Transfer acceptability: CSU; UC

The growth of civilizations and the interrelationships of the peoples of Europe, Asia, Africa, and America to 1650.