

**R DT 202    Advanced Computer Aided Architectural Drafting II** (4)*8 hours lecture/laboratory***Recommended preparation:** DT/R DT 200**Note:** Cross listed as DT 202; graded only; may be taken 2 times**Transfer acceptability:** CSU

Third-party architectural software for use in conjunction with AutoCAD software. Preparation of 3D architectural models and their manipulation for preparation of individual architectural working drawings including: dimensioned floor plans, building sections, elevations, etc.

## Graphic Communications - Imaging & Publishing (R GCIP)

See also **Graphic Communications and  
Graphic Communications - Multimedia & Web**

**COURSE OFFERINGS**

Courses taken for college credit may be applied toward a certificate or an Associate in Arts degree.

**R GCIP 103    Acrobat for Print** (3)*6 hours lecture/laboratory***Note:** Cross listed as GCIP 103; may be taken 4 times**Transfer acceptability:** CSU

Hands-on instruction in creating and editing high quality, print-ready PDF files using Adobe Acrobat. This course also includes the estimating of materials and labor relative to current industry practices for the production of a printed product.

**R GCIP 140    Digital Imaging/Photoshop I** (3)*6 hours lecture/laboratory***Note:** Cross listed as GCIP 140; graded only; may be taken 4 times**Transfer acceptability:** CSU

The study of digital imaging and editing with Adobe Photoshop for visual, pictorial and graphic use in all media. Emphasis on creating and enhancing imagery for effective use in mass communication mediums.

**R GCIP 149    Page Layout and Design I** (3)*6 hours lecture/laboratory***Note:** Cross listed as GCIP 149; may be taken 4 times**Transfer acceptability:** CSU

Introduction to electronic document design and page layout, electronic composition, text and graphics entry with computers. Students will create a variety of projects including but not limited to: brochures, flyers, and newsletters.

**R GCIP 152    Desktop Publishing/Illustrator I** (3)*6 hours lecture/laboratory***Note:** Cross listed as GCIP 152; graded only; may be taken 4 times**Transfer acceptability:** CSU

Introduction to electronic layout on the microcomputer. Illustrator will help the student generate new images or convert bitmapped images into PostScript. Quality levels needed for electronic output will be evaluated.

**R GCIP 170    Screen Printing** (3)*hours lecture/laboratory***Note:** Cross listed as GCIP 170; graded only; may be taken 4 times**Transfer acceptability:** CSU

Screen printing theory and application of layout and image preparation, computer applications, stencil methods, process camera and basic screen printing techniques. Practical application is stressed.

**R GCIP 172    Textile Screen Printing** (3)*(Formerly R GC 172)**6 hours lecture/laboratory***Note:** Cross listed as GCIP 172; graded only; may be taken 3 times**Transfer acceptability:** CSU

Theory and application of screen printing for textile use. Copy preparation for multicolor reproduction, color matching, ink selection, and mesh and stencils for material compatibility.

**R GCIP 197A    Topics in Graphic Communications** (.5-4)*(Formerly R GC 197A)*

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:** Cross listed as GCIP 197A; graded only; may be taken 3 times**Transfer acceptability:** CSU

Short term or special topic course, lecture or laboratory courses in various topics in Graphic Communications.

**R GCIP 249    Page Layout and Design II** (3)*(Formerly R GC 249)**6 hours lecture/laboratory***Prerequisite:** GCIP/R GCIP 140 and GCIP/R GCIP 149**Note:** Cross listed as GCIP 249; may be taken 4 times**Transfer acceptability:** CSU

Intermediate concepts of electronic document layout, typography, and graphics.

Software capabilities in creating sophisticated graphic and type treatments.

**R GCIP 260    Portfolio Development and Presentation** (3)*(Formerly R GC 260)**6 hours lecture/laboratory***Prerequisite:** R GCIP/GCIP 140 and R GCIP/GCIP 152**Note:** Cross listed as GCIP 260; graded only; may be taken 2 times**Transfer acceptability:** CSU

Students will develop a personal portfolio to showcase their graphic skills and techniques. Various resources, including the Internet, will be used to conduct a job search, develop a resume and learn interviewing techniques. Guest speakers will share industry tips. Students will practice presentation and interviewing skills, with feedback from professionals working in graphics and related industries.

## Graphic Communications - Multimedia & Web (R GCMW)

See also **Graphic Communications and**

**Graphic Communications - Imaging & Publishing**

**COURSE OFFERINGS**

Courses taken for college credit may be applied toward a certificate or an Associate in Arts degree.

**R GCMW 101    Multimedia I** (3)*(Formerly R GC 200)**6 hours lecture/laboratory***Note:** Cross listed as GCMW 101; graded only; 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.

**R GCMW 102    Web Page Layout I** (3)*(Formerly R GC 202)**6 hours lecture/laboratory***Note:** Cross listed as GCMW 102; graded only; 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.

**R GCMW 103 Interactive Publishing with PDF's** (3)  
 (Formerly R GC 203)  
 6 hours lecture/laboratory  
**Note:** Cross listed as GCMW 103; graded only; 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, prepress, accessibility, capture, and a variety of methods to convert and repurpose documents.

## Optical Technology (R OT)

### Certificates of Proficiency -

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

### PROGRAM OF STUDY

#### Optical Technology

Prepares students for entry-level positions as optical dispensing technicians, optical lab technicians, optometric assistants, ophthalmic assistants, and other occupations in the vision care field.

In order to earn a certificate, students must achieve a minimum grade of 'C' in each of the certificate program courses.

### CERTIFICATE OF PROFICIENCY

Required Courses	Units
R OT 50      Optical Technology I	8
R OT 55      Optical Technology II	8
<b>TOTAL UNITS</b>	<b>16</b>

Recommended Electives: R OT 60, 97

### COURSE OFFERINGS

Courses taken for college credit may be applied toward a certificate or an Associate in Arts degree.

Courses numbered under 100 are not intended for transfer credit.

**R OT 50      Optical Technology I** (8)  
 6 hours lecture-6 hours laboratory  
**Note:** Graded only  
 Basic theory of light and optics; anatomy and function of the eye; spectacle frame and lens design and fabrication; tools of the trade; and dispensing skills for optical technicians.

**R OT 55      Optical Technology II** (8)  
 6 hours lecture-6 hours laboratory  
**Prerequisite:** R OT 50  
**Note:** Graded only  
 In-depth study of anatomy and function of the eye. Advanced theories of light, lenses, mirrors, and optics. Specialized dispensing skills. Topic preparation for the American Board of Opticianry (ABO) certification exams.

**R OT 70      Ophthalmic Medical Assisting I** (2)  
 4 hours lecture/laboratory  
**Prerequisite:** R OT 50  
**Note:** Graded only  
 Introduction to assisting in the ophthalmic medical environment. Topics include ophthalmic exam, ophthalmic drugs, structure, function and common diseases of the eye and related tissues, optics and refraction, ocular motility and visual fields. Course content aligns with national certification standards for Certified Ophthalmic Assistant (COA) as set forth by the Joint Commission on Allied Health Personnel in Ophthalmology (JCAHPO).

**R OT 75      Ophthalmic Medical Assisting II** (2)  
 4 hours lecture/laboratory  
**Prerequisite:** R OT 70

**Note:** Graded only  
 Intermediate-level training in the ophthalmic health field. Includes keratometry, topography, refractometry, retinoscopy, slit lamp examination, tonometry, visual field testing, ultra-sound A-Scan measurements, intraocular implant calculations and ultra-sound B-Scan examination. Course content aligns with national certification standards for Certified Ophthalmic Technician (COT) as set forth by the Joint Commission on Allied Health Personnel in Ophthalmology (JCAHPO).

**R OT 97      Optical Technology Topics** (.5-4)

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:** Graded only; may be taken 4 times  
 Topics in Optical Technology. See Class Schedule for specific topic offered. Course title will designate subject covered.

## Upholstery (R UP)

### Certificates of Proficiency -

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

### PROGRAM OF STUDY

#### Automotive Upholstery

Prepares students for employment in a variety of specialized areas of upholstery including automobiles, trucks, recreational vehicles and watercraft. Students will master skills and techniques specific to each area of interest.

In order to earn a certificate, students must achieve a minimum grade of 'C' in each of the certificate program courses.

### CERTIFICATE OF PROFICIENCY

Program Requirements	Units
R UP 85      Basic Upholstery	4
R UP/R AT 90      Automotive Upholstery	4
<b>TOTAL UNITS</b>	<b>8</b>

#### Upholstery

Prepares students for variety of positions in upholstery and related industries. Students will master skills and techniques required for furniture upholstery and accessories, antique restoration, custom draperies and window treatments.

In order to earn a certificate, students must achieve a minimum grade of 'C' in each of the certificate program courses.

### CERTIFICATE OF PROFICIENCY

Program Requirements	Units
R UP 85      Basic Upholstery	4
R UP 86      Advanced Upholstery	4
R UP 88      Antique Furniture Restoration	3
R UP 95      Window Treatments	1.5
R UP 96      Decorator Accessories	1.5
<b>TOTAL UNITS</b>	<b>14</b>