CMUN 6  Introduction to Conflict Resolution  
Units: 3.0  Hours: 3.0 Lecture  
Transferable: CSU; CSU-GE:D7; GAV-GE:D2  
Introduction to Conflict Resolution introduces students to conflict resolution and mediation. Integrating theory and practice, students will assess core concepts about the causes and resolution of conflict, and will practice communication skills for conflict resolution. Students will examine how ethnicity, gender, and class affect power in conflict situations. They will be able to formulate appropriate conflict resolution strategies, and will develop and practice various basic co-mediation skills. This course has the option of a letter grade or pass/no pass. This course is also listed as POLS 6 and PSYC 6. ADVISORY: English 250 and English 260.

CMUN 8  Interpersonal Communication  
Units: 3.0  Hours: 3.0 Lecture  
Transferable: CSU; UC; CSU-GE:A1; IGETC:1C; GAV-GE:A1; F  
This course studies the communication process in an interpersonal (dyadic) setting. This class will explore the ways in which we can improve our communication with others. Verbal and nonverbal messages, self-concept, cultural differences, gender differences, perception, listening and conflict management will be explored. C-ID: COMM 130.

CMUN 10  Small Group Communication  
Units: 3.0  Hours: 3.0 Lecture  
Transferable: CSU; UC; CSU-GE:A1; IGETC:1C; GAV-GE:A1; CAN-SPCH10  
An introductory course that develops basic individual reasoning skills, insights and experiences in information-sharing, interacting, decision-making, problem-solving, resolution of disputes and other issues central to group processes. ADVISORY: Eligible for English 250 and English 260.

CMUN 11  Business Communication  
Units: 3.0  Hours: 3.0 Lecture  
Transferable: CSU  
This course will explore business communication contexts by examining organizational cultures, strategic vision and goal setting, leadership managerial roles, and team building communication. Emphasis is placed on analytical and organizational skills, listening, nonverbal and verbal communication, public speaking communication methodology, and domestic and international relations through use of hybrid online and classroom environment for lecture and application. PREREQUISITE: English 250. ADVISORY: Communication 1A or English 1A.

CMUN 129  Presentation Graphics - MS PowerPoint  
Units: 1.0  Hours: 1.0 Lecture  
Transferable: CSU  
This introductory course in presentation graphics will use Microsoft Office’s “PowerPoint” software to create a computerized presentation with text and objects. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit. This course is also listed as CSIS 129. ADVISORY: CSIS 126 or word processing skills in the Windows environment.

CGD 2  2D/3D Technical Computer Graphics I  
Units: 3.0  Hours: 2.0 Lecture and 3.0 Laboratory  
Transferable: CSU  
Introduction to graphic and design competencies architects, engineers, game/simulation developers, industrial designers and other careers professional designers use when producing and marketing real and/or virtual consumer products. Prepares students to create consumer products, buildings and other designed objects by developing freehand sketches, creating SolidWorks models and/or other graphics while applying theory and knowledge of elements and principles of visual design, creative problem solving, typography, professional ethics and research skills. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. ADVISORY: LIB 3 and MATH 404G.

CGD 4  2D/3D Technical Computer Graphics II  
Units: 3.0  Hours: 2.0 Lecture and 3.0 Laboratory  
Transferable: CSU  
Intermediate computer graphics design course expands skills and concepts introduced in CGD 2. Develops technical design and graphic skills required to create explain, analyze, model, render, and animate products using a problem solving process and applying knowledge of 2D and 3D technical drafting standards used in manufacturing and engineering. Other topics include ergonomics, materials, design/typography/color principles and theories. Projects assigned integrate technology with design and focus upon proposing, producing and marketing useful products by developing and visually communicating ideas that are necessary for succeeding in desired design career(s). May be repeated once for credit. ADVISORY: Completion of CGD 2 with a grade of C or better.

CGD 6  Advanced Computer Graphics  
Units: 4.0  Hours: 2.0 Lecture and 6.0 Laboratory  
Transferable: CSU  
Technical skills for using computer design for precision manufacturing, including ANSI/ASME Y14.5 2009 geometric dimensioning and tolerancing (GD&T). Prepares students for careers as designers, engineers; CAD/CAM/CAE specialist, drafter, inspectors, machinists, technical sales, and other jobs that interpret engineering drawings. Students may concurrently enroll in CGD 110. ADVISORY: Eligible for English 250, 260 and Mathematics 233. Computer lab work can be done both in lab and off-site.

CGD 8  Advanced Computer Graphics for Design Application I  
Units: 3.0  Hours: 2.0 Lecture and 3.0 Laboratory  
Transferable: CSU  
Advanced course in applied computer graphics and associated interdisciplinary design proficiencies required by careers that design, engineer, manufacture and/or market products. Applies theories, principles and skills covered in CGD 4 and integrates business, sustainable design, and hybrid products. Design solutions reflect technical understanding, aesthetic principles and addresses societal needs in a cost effective manner. Presentations include animating and rendering models and/or other graphics while applying theory and knowledge of elements and principles of visual design, creative problem solving, typography, professional ethics and research skills. Portfolios support advancement in student-selected career pathways by communicating competence in computer graphics and design. May be repeated once for credit. ADVISORY: Eligible for English 250, 260 and Mathematics 233.

CGD 9  Advanced Computer Graphics for Design Application II  
Units: 3.0  Hours: 2.0 Lecture and 3.0 Laboratory  
Transferable: CSU  
Advanced computer graphics and design course that combines technical computer graphic skills with interdisciplinary design proficiencies including creating computer imagery, transformations, and rendering to create 3D model using geometric primitives, projections for computer animation and data visualization. Includes structural analysis and emphasis on developing products that include ergonomic features and sustainable materials. Work within electronic portfolio demonstrates skills and knowledge of technical graphic design to visualize, develop and present products to meet societal needs. ADVISORY: Satisfactory score on the English placement exam or a grade of C or better in English 250, completion of Mathematics 233 or satisfactory Mathematics placement. Completion of CGD 2 and CGD 8 with a grade of C or better. Computer lab work can be done both in lab and off-site.

Computer Art: see CGD, CSIS or Digital Media

COMPUTER GRAPHICS AND DESIGN

CGD 1  Industrial Sketching and Problem Solving  
Units: 2.0  Hours: 1.0 Lecture and 3.0 Laboratory  
Transferable: CSU  
Graphical problem solving techniques used by professional designers in various fields of application using both traditional freehand and the computer. Emphasis is on developing the mental ability to visualize objects/shapes and their manipulation. This is an open entry exit supervised class. Students may concurrently enroll in CGD 110 or GCD 2L. May be repeated three times for a total of 8 units. ADVISORY: Eligible for English 250, English 260 and Mathematics 205. Computer lab work can be done both in lab and off-site.
CGD 30  Introduction to Environmental Design  
Units: 3.0  Hours: 2.0 Lecture and 3.0 Laboratory  
Transferable: CSU  
Develops skills and building information modeling (BIM) computer aided design (CAD) skills necessary for designing and producing a set of plans for an array of environmental projects, such as residential remodels, landscape projects, interior design and other small construction projects. Includes use of Revit and/or other technical design tools, introduction to building codes, sustainable design concepts, specifications and other architectural construction document basics necessary for getting permits and entering environmental design careers.

CGD 110  Computer Graphics Lab  
Units: 1.0 TO 4.0  Hours: 3.0 TO 12.0 Laboratory  
Transferable: CSU  
Complements computer graphics and art courses by providing additional competence in software applications, libraries, and graphical user interfaces to support computer graphics and design projects by providing supervised practice and individualized computer assisted learning on software and techniques commonly found in the computer graphic design field. This is an open entry/exit class and may be repeated three times for credit. This course has the option of a letter grade or pass/no pass. ADVISORY: Concurrent enrollment in corresponding computer graphic and design classes. Computer lab work can be done both in lab and off-site.

CGD 160  Technical Desktop Publishing/Graphics  
Units: 3.0  Hours: 2.0 Lecture and 3.0 Laboratory  
Transferable: CSU  
Create multimedia presentations to effectively communicate ideas and market designs. Applies concepts, theories and principles of typography, color and design to create digitally based portfolios for application to four year colleges or for entry level employment. ADVISORY: Eligible for English 250 and 260. Familiarity with word processing, keyboarding, and DOS file management. Computer lab work can be done both in lab and off-site.

CGD 190  Occupational Work Experience/Computer Graphics & Design  
Units: 1.0 TO 4.0  Hours: 5.0 TO 20.0 Laboratory  
Transferable: CSU  
Occupational work experience for students who have a job related to their major. A training plan is developed cooperatively between the employer, college and student. (PINP grading) 75 hours per semester paid work = 1 unit. 60 hours non-paid (volunteer) work per semester = 1 unit. May be taken for a maximum total of 16 units. Minimum 2.00 GPA. REQUIRED: Declared vocational major.

CSIS 2L  Computers in Business Lab - MS Office  
Units: 1.0  Hours: 3.0 Laboratory  
Transferable: CSU  
Computer Lab emphasizing business application in Microsoft Word, Excel, Access, Power Point and Integration. Internet searches are included. This course has the option of a letter grade or pass/no pass. Since supervised repetition and practice enhance skills/proficiencies. This course may be repeated once for credit.

CSIS 3  Research Skills  
Units: 2.0  Hours: 2.0 Lecture  
Transferable: CSU  
Research and evaluation skills using the Internet and other electronic resources, as well as traditional printed materials. Also listed as LIB 3. This course has the option of a letter grade or pass/no pass. May be repeated once for credit. ADVISORY: Eligible for English 250 and 260.

CSIS 5  C++ Scientific Programming  
Units: 3.0  Hours: 2.0 Lecture and 3.0 Laboratory  
Transferable: CSU, UC; CAN:CSCI4  
An introduction to computer problem solving and programming using the C++ language for science and engineering majors. Students will write programs for a variety of scientific and mathematical applications. This course has the option of a letter grade or pass/no pass. PREREQUISITE: Mathematics 1A ADVISORY: Completion of CSIS 10.

CSIS 6  Web Page Authoring I  
Units: 2.0  Hours: 2.0 Lecture  
Transferable: CSU; GAV-GE:E2  
An introduction to using Hypertext Mark-Up Language (HTML) and Extensible HTML (XHTML) to create web pages which can be uploaded and displayed on the World Wide Web. Students will use HTML/XHTML to create web pages with text in various sizes and colors, links to other sites, background color or patterns, graphics, tables and mailto links. Principles of design and color as they apply to screen presentations will be included. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit. Also listed as LIB 6 and DM 6. ADVISORY: CSIS 1 or CSIS 2 or CSIS 3/LIB 3 advised.

CSIS 7  Web Page Authoring II  
Units: 2.0  Hours: 2.0 Lecture  
Transferable: CSU  
This course is a continuation of CSIS 6, Web Page Authoring I. Topics that will be covered include XHTML, frames, advanced tables, forms, scripting languages, image maps, Cascading Style Sheets (CSS), and new trends in web page technology. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit. This course is also listed as DM 7. ADVISORY: CSIS 6

CSIS 8  Introduction to the Internet  
Units: 1.0  Hours: 3.0 Lecture  
Transferable: CSU; GAV-GE:E2  
This course will provide students the opportunity to learn to use the Internet and the World Wide Web. Topics to be covered include history of the Internet and development of the WWW, web browsers, search engines, tools to develop web pages, how to get connected and local Internet providers. This is a pass/no pass course. May be repeated three times for credit. ADVISORY: CSIS 124

CSIS 9  Computer Education for Teachers  
Units: 3.0  Hours: 3.0 Lecture  
Transferable: CSU  
The history, uses and development of computers in education. Basic computer skills and terminology will be taught in context of teacher education. Students who successfully complete this course will understand general and specific skills and knowledge required to meet the Technology Standard for Multiple and Single Subject Credential Candidates. This course has the option of a letter grade or pass/no pass. This course is also listed as CD 12. ADVISORY: CSIS 122 Computer Keyboarding, or equivalent; English 250 with a grade of C or better.