

COMPUTER GRAPHICS

COGR-160 Computer Graphics I 4 cr.

Introductory course includes concepts of computer graphics, modeling techniques, interfaces, terminology, and color theory; principles of two-dimensional computer animation, image processing, and presentation media; and computer design theory. Primary emphasis upon PC computer software to produce animations of logos, titles and text, graphs, cartoon characters, cycling colors and special effects; presentation software; desktop publishing; and still image processing. Theory will include design criteria, storyboard preparation, image manipulation, and hands-on computer use for instructional, marketing, graphic design, and artistic purposes. Semester offered: Fall.

COGR-165 Computer Graphics II 4 cr.

Continuation of the Computer Graphics I with an emphasis on three-dimensional design, process, presentation, and imaging using PC-based computer graphics media and animation software, with a minor emphasis upon MAC-based programs and processes. This course will include preparation of three-dimensional images used for presentations, printed materials, and short animations. A final project will involve using composite three-dimensional objects for visualizing abstract concepts, solid objects in motion, or moving figures for education, sales, and marketing purposes. Prerequisite: COGR 160. Semester offered: Spring.

COMPUTER SCIENCE

COSC-095 Basic Computer Skills 1 cr.

Learn your way around the computer and its related components. Covers keyboard and mouse operations. Become familiar with the operating system's desktop, icons, and menus. Prerequisites: RDNG 050 or APRD 039. Semester offered: On Demand.

COSC-096 Working With Windows 1 cr.

Managing and organizing files and folders. Copying and moving files to a different folder or disk. Sort and find files. Prerequisites: RDNG 050 or APRD 039. Semester offered: On Demand.

COSC-097 Basic Computer/Internet Skills 3 cr.

Learn your way around the computer and the Internet. Covers keyboard and mouse operations; operating systems' desktop, icons, and menu system; and searching the internet and use of e-mail. This course combines COSC 095, COSC 096, and COSC 099 Semester offered: Fall, Spring, and Summer.

COSC-099 Basic Internet Skills 1 cr.

Practical search techniques and common vocabulary to make your searches more effective. Learn to use e-mail. Prerequisites: RDNG 050 or APRD 039. Semester offered: On Demand.

COSC-111 Computer Literacy 3 cr.

The evolution of computers, their application and their economic and social implications including a brief introduction to programming and computer literacy with a non-technical emphasis. For non-computing majors. Prerequisites: MATH 050 or APAR 040, ENGL 095 or APEN 070, and RDNG 050 or APRD 039. Semester offered: Fall, Spring, and Summer.

COSC-116 Spreadsheets 3 cr.

Comprehensive coverage of current spreadsheeting software - from basic data entry and formatting to complex functions, data importation, and Macro creation. Students will be taught most of the features available in the software, and will be required to apply those skills throughout the course. Special emphasis is placed on spreadsheet development for mathematical and financial/accounting applications. This course can be used to prepare for the corresponding Microsoft Certified Application Specialist exam. Prerequisites: MATH 096 or APAL 061, ENGL 095 or APEN 070, RDNG 113 OR APRD 081. Semester Offered: Fall, Spring.

COSC-118 Computer Programming Fundamentals I w/C++ 3 cr.

An introduction to programming and computing integrating problem solving and algorithmic design using the object-oriented programming language C++. Prerequisites: MATH 095 OR APAL 061, ENGL 095 or APEN 070, RDNG 095 or APRD 058. Semester offered: Fall and Spring.

COSC-122 Game Programming I 3 cr.

This course is an introduction to game programming as well as an introduction to the C++ computer programming language. A variety of game programs are presented in the textbook and most assignments involve making changes and/or improvements to the existing game programs. Games include Lost Fortune, Guess My Number, Word Jumble, Hangman, Tic-Tac-Toe, and Blackjack. Semester offered: on demand.

COSC-125 Business Microcomputer Applications 3 cr.

This course is designed to provide students with real world examples and procedures that will prepare them to be skilled users of microcomputers. Students gain hands-on experience in utilizing database, spreadsheet, and word processing applications in the Windows operating system. Semester offered: Fall, Spring, and Summer.[NM Common Course Number: BCIS 1113, Business Transfer Module]

COSC-135 Computer/Basic Management 3 cr.

A course in management using the computer for Automotive Technology students covering concepts in shop management, small business administration and accounting, and computer systems. Permission of Instructor. Semester offered: On Demand.

COSC-137 Energy Industry Microcomputer 3 cr.

This course is designed to give students in the School of Energy specific skills in using microcomputers. Students will be given hands-on experience in using scheduling, word processing, spreadsheet and graphic presentation applications. Students will also learn to work with a computer operating system. Pre-requisites: RDNG 095 or APRD 058

COSC-185 Database Management Systems 3 cr.

This course instructs students in the most current and widely used database programs on microcomputers. It teaches the concepts and procedures needed to become a designer, developer, and informed user of databases. Topics covered in this course include creating and editing tables, forms, reports, data access pages, and using the World Wide Web and hyperlink fields. This course can be used to prepare for the corresponding Microsoft Certified Application Specialist exam. Semester offered: Fall and Spring.