COMPUTER PROCESSING (CPU)

CPU-1151 Introduction to Computers (1.5 Credits)
This course provides an introduction to personal computers that focuses on three primary Microsoft applications: Word, Excel, and PowerPoint. Students review the components and operation of microcomputers and gain a working knowledge of the operating system, word processing, spreadsheet, and other software applications.
Instruction (3)
Equivalent to CPU-151.

CPU-1160 Geomatics Programming I (3 Credits)
An introduction to programming for Geographical Information Systems with emphasis on the creation of simple and complex routines to build an understanding of the structure of Python language, build applications to automate survey data processing and graphical software packages. Not available for supplemental.
Instruction (3)
Equivalent to CPU-2255, CPU-255.
Requisite courses: Take SUR-1150 (Required, Previous).

CPU-1165 Business Applications II (3 Credits)
A skills-based approach to using spreadsheet applications to solve common business problems. Includes macros and spreadsheet integration with other software programs. Not available for supplemental.
Instruction (3)
Equivalent to CPU-165, BUS-266.

CPU-2251 Computer Applications (1.5 Credits)
This course covers projects requiring the use of spreadsheet, word processing, database and/or presentation software. It bridges the gap between merely knowing the various tasks a certain type of software can perform and actually using the program to edit a newsletter, design a three-fold brochure, prepare and present reports, or perform some basic data analysis. Students are introduced to integrated applications. Not available for supplemental.
Instruction (3)
Equivalent to CPU-251.
Requisite courses: Take CPU-1151 (Required, Previous).

CPU-2253 Technology in Education (3 Credits)
This course provides learners with an exposure to and analysis of educational software. Assistive technology in educational settings, including K - Grade 12 information technology curriculum are covered. Not available for supplemental.
Instruction (3)
Equivalent to CPU-253.

CPU-2254 Basic Desktop Publishing (3 Credits)
A skills-based approach to the creation of effective business publications, using industry standard software to effectively communicate intended messages. Emphasis is the evaluation and integration of creative design elements. Not available for supplemental.
Instruction (3)
Equivalent to CPU-254.
Requisite courses: Take BUS-1185 CPU-1151 or AOP-1142 (Required, Previous).

CPU-2275 Geomatics Programming II (3 Credits)
An examination of advanced concepts in programming with Python for Geographical Information Systems. Emphasis will be placed on complex routines and data structures for automating data transfer from raw survey data to graphical software packages and for accessing ArcGIS functionalities utilizing Python libraries. Not available for supplemental.
Instruction (4)
Equivalent to CPU-275.
Requisite courses: Take CPU-1160 (Required, Previous).