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CAN Course Descriptions

- CAN:** CSCI 10
Title: Computer Organization and Assembly Programming
Description: Functional organization of digital computers and low level programming; internal representation of data, binary arithmetic, machine instructions, addressing modes, subroutine linkage, macros and interrupts, assembly language programming assignments.
Prerequisite: Programming Concepts and Methodology I.
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- CAN:** CSCI 12
Title: Programming in the PASCAL Language
Description: Syntax, control and data structures. Software life-cycle including design, development, styles, documentation, testing and maintenance, case studies and software projects. Critical features of the language include arrays, functions, procedures, records and files.
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- CAN:** CSCI 14
Title: Programming in the ADA Language
Description: Syntax, control and data structures. Software life-cycle including design, development, styles, documentation, testing and maintenance, case studies and software projects. Critical features of the language include arrays, functions, procedures, records and files.
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- CAN:** CSCI 16
Title: Programming in the C Language
Description: Syntax, control and data structures. Software life-cycle including design, development, styles, documentation, testing and maintenance, case studies and software projects. Critical features of the language include arrays, functions, pointers, structures, files.
Prerequisite: Intermediate Algebra.
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- CAN:** CSCI 18
Title: Programming in the C++ Language
Description: Syntax, control and data structures. Software life-cycle including design, development, styles, documentation, testing and maintenance, case studies and software projects. Critical features of the language include objects, encapsulations, inheritance and polymorphism. Introduction to object-oriented design.
Prerequisite: Programming in the C Language.
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- CAN:** CSCI 2
Title: Computer Literacy
Description: A beginning computer course which includes computer hardware, software, terminology, ethics and societal impact. Students will become familiar with operating systems, word processing, spread sheets, database management systems, telecommunications and networks.
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- CAN:** CSCI 20
Title: Programming in the FORTRAN Language for Science and Engineering
Description: Syntax, control and data structures. Software life-cycle including design, development, styles, documentation, testing and maintenance, case studies and software projects. Critical features of the language include numerical techniques for scientific and engineering applications.
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CAN: CSCI 22
Title: Programming Concepts and Methodology I
Description: Introduces the discipline of computer science using a high level language; provides an overview of computer organization and an introduction to software engineering. Topics include methodologies for program design, development, style, testing, and documentation; algorithms, control structures, sub-programs, and elementary data structures.
Prerequisite: Intermediate Algebra.

CAN: CSCI 24
Title: Programming Concepts and Methodology II
Description: Application of software engineering techniques to the design and development of large programs; data abstraction and structures and associated algorithms. Topics include lists, stacks, queues, trees, searching, sorting, recursion.
Prerequisite: Programming Concepts and Methodology I.

CAN: CSCI 26
Title: Discrete Mathematics
Description: Elements of discrete mathematics which have applications to computer science; methods of proof including mathematical induction. Topics include logic, sets, relations, graphs, trees, combinatorics and Boolean algebra.
Prerequisite: Pre-calculus.

CAN: CSCI 4
Title: Programming in the FORTRAN Language
Description: Syntax, control and data structures. Software life-cycle including design, development, styles, documentation, testing and maintenance, case studies and software projects.
Prerequisite: Intermediate Algebra.

CAN: CSCI 6
Title: Programming in the BASIC Language
Description: Syntax, control and data structures. Software life-cycle including design, development, styles, documentation, testing and maintenance, case studies and software projects.

CAN: CSCI 8
Title: Programming in the COBOL Language
Description: Syntax, control and data structures. Software life-cycle including design, development, styles, documentation, testing and maintenance, case studies and software projects. Critical features of the language include COBOL divisions, data definition, perform statement, tables, file creation and maintenance, sorting, control-breaks, subroutines and sub-programs.

Send mail to info@cansystem.org with questions or comments about this web site.

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