PROGRAM OVERVIEW

The Computer Information Systems program is designed to prepare students for careers in exciting Information Technology fields such as programming, software engineering, database administration, computer networking, multimedia, and web technologies. Microcomputer usage continues to grow at an ever increasing pace as does the demand for workers with solid technical skills and knowledge of programming, networking, and website development and management. The primary goal of the program is to prepare students for entry-level employment as well as providing marketable career advancement knowledge and skills. Students with interest in transferring to an Information Systems program at four-year institutions should consult with the Counseling department for needed course work.

Demand for computer software engineers will increase as computer networking continues to grow. For example, expanding Internet technologies have spurred demand for computer software engineers who can develop Internet, intranet, and World Wide Web applications. Programmers are employed in almost every industry, but the largest concentration is in computer systems design and related services. Large numbers of programmers also work for telecommunications companies, software publishers, financial institutions, insurance carriers, educational institutions, and government agencies. Prospects should be best for college graduates with knowledge of, and experience working with, a variety of programming languages and tools – including C++ and other object-oriented languages such as Java, as well as newer, domain-specific languages that apply to computer networking, database management, and Internet application development.

By fulfilling the program requirements, students are proficient in the use of current software application programs. They will be adept at integrating computer-based technology by applying both data and word processing aspects of information systems. They will understand how computers and software applications are utilized in today's information systems that support business decisions. Computer Information Systems personnel are involved in a variety of administrative, clerical, and accounting functions required to efficiently operate and maintain computerized business systems. This program leads to entry-level positions that maintain databases, manage projects, create presentations, and design, develop, and maintain websites. Typical positions are website creator, data entry/records clerk, computerized business systems supervisor, and self-employment.

PROGRAM LEARNING OUTCOMES (PLOs)

Upon completion of the Degree/Certificate program, students are able to:

- Create and debug code for specifications and write comprehensive program documentation.
- Demonstrate comprehensive understanding of language tools by synthesizing and integrating multiple languages constructs in a single project.
- Demonstrate basic understanding of computer hardware and software.

COMPUTER INFORMATION SYSTEMS

Associate in Science Degree

Requirements for the Associate in Science degree in Computer Information Systems may be met by completing 21 units of Required Courses and 23 units of Major Electives with a "C" or better along with general education courses meeting Plan B graduation requirements. Information on the Plan B requirements may be found in the catalog under Graduation/Transfer Requirements.

Students planning to continue studies at a four-year institution should consult a counselor concerning a transfer curriculum.

REQUIRED COURSES

<table>
<thead>
<tr>
<th>COURSE</th>
<th>DESCRIPTION</th>
<th>UNITS</th>
<th>COMPLETED</th>
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<tbody>
<tr>
<td>CO INFO 700</td>
<td>Computer Concepts</td>
<td>3</td>
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<tr>
<td>CO INFO 701</td>
<td>Introduction to Computers and Their Uses</td>
<td>3</td>
<td></td>
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<tr>
<td>CO INFO 709</td>
<td>Object Oriented Programming</td>
<td>3</td>
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<td>CO INFO 733</td>
<td>Microcomputer Data Base Programming</td>
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<tr>
<td>CO INFO 739</td>
<td>Programming in C++</td>
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<tr>
<td>CO INFO 757</td>
<td>XHTML Programming and Applications</td>
<td>3</td>
<td></td>
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<tr>
<td>CO INFO 787</td>
<td>Network Essentials</td>
<td>3</td>
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400 W. Washington Blvd.
Los Angeles, CA 90015
www.lattc.edu
A Certificate of Achievement in Computer Information Systems may be earned by completing 21 units of Required Courses and 18 units of Major Electives listed under for the Associate degree in Computer Information Systems with a "C" or better in each course.

The Computer Information Systems Certificate of Achievement is designed to prepare students for entry-level careers in exciting Information Technology fields such as entry-level programming, multimedia, and web technologies. Microcomputer usage continues to grow at an ever increasing pace as does the demand for workers with solid technical skills and knowledge of programming, and website development and management. The primary goal of the program is to prepare students for entry-level employment as well as providing marketable career advancement knowledge and skills.

**USEFUL LINKS**

LATTTC Catalog
http://college.lattc.edu/catalog/

LATTTC Financial Aid Office
http://college.lattc.edu/financialaid/

LATTTC Counseling Department
http://college.lattc.edu/counseling/

Graduation Plan A
http://college.lattc.edu/planA

Graduation Plan B
http://college.lattc.edu/planB

Electronics, CIS, & Computer Technology
http://college.lattc.edu/electronics/

You can enroll in these classes by logging on to the Student Information System at https://college.lattc.edu/register

For additional information consult a LATTTC college counselor.