Communication Studies

Chair: Kathleen Beaufait
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PROGRAMS OFFERED
Courses Only - No Degree/Certificate

Oral communication is basic to all human activity-to individual development, to interpersonal activity and to the functioning of all political, business, economic cultural and social institutions. Speech communication examines communication behavior with the goal of understanding the structure, patterns, and effects of human communication and of facilitating a higher quality of communication effectiveness both for individuals and for society. It seeks to improve individual abilities for public speaking, handling informal conversations, creating and maintaining healthy relationships, interacting with individuals from other cultures, solving problems in groups and reaching sound decisions, managing the communication dynamics of an organization and becoming effective producers and consumers of informative, persuasive and artistic messages. The mission of this department is to effectively teach these skills.

CSIT
(Computer Science/Information Technology)

Chair: Roger Wolf
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www.lacitycollege.edu/academic/departments/math/csitdept/

PROGRAMS OFFERED
Associate of Science:
Computer Science/Information Technology
Computer Information Systems

Certificates:
Applications Software
Programming Languages

Skill Certificates:
Database Administration
Database Developer
Web Client Technologies

Student learning outcomes for each degree and certificate program are available on the SLO Guide for Students website at http://tinyurl.com/laccsloforstudents

NOTE: The official abbreviation for Computer Science/Information Technology (CSIT) is “CO SCI”. If you have a talent for math and science our programs will prepare you to enter more advanced university programs or directly enter careers related to Computer and Information Systems, System Analysis, Computer Science, Database Administration, Computer Operations, Information Processing Services, Computer Software Engineering, Telecommunications, and Web Development and Technologies. According to the Department of Labor median hourly earnings for high demand occupations in technology and other computer fields at the entry levels range from nearly $12/hour to $26/hour. With advance training and or a Bachelors degree, salaries can exceed $42/hour. The Computer Science Information Technology discipline program at Los Angeles City College offers two Associate degrees that students can choose from depending on their career and educational goals. The first, Associate of Science in Computer Science, is designed for students with transfer goals to the Computer Science program at four-year universities. The second, an associate of science in Computer Information Systems, 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. Students with interest in transferring to the Information Systems program at four-year universities should consult with the Computer Science department for needed course work. The following tables list the requirements for each degree. For information on general education courses, students are encouraged to see a counselor for advisement.

COMPUTER SCIENCE
Associate of Science Degree
Transfer Program

First Semester
CO SCI 104 ................................................................. 3
CO SCI 107 ................................................................. 3
(CO SCI 103 is a prerequisite to required CO SCI courses and can be used to fulfill a general education requirement)

Second Semester
CO SCI 134 ................................................................. 3
CO SCI 139 ................................................................. 3

Suggested Major Preparation:
Physics 1 ....................................................................... 4
Math 261 ..................................................................... 5

Third Semester
CO SCI 140 or 141 ..................................................... 3
CO SCI 186 .................................................................. 3

Suggested Major Preparation:
Philosophy 7, 8, or 9 ..................................................... 3

Fourth Semester
CO SCI 136 .................................................................. 3
CO SCI 158 .................................................................. 3

Total Major Units .......................................................... 24

Note: On approval by the Computer Science/Information Technology discipline, students may use Math 262, 263 and Physics 2, 3 as substitute to any of the CO SCI requirements except CO SCI 139, CO SCI 140 (or 141), and CO SCI 136 as long as a minimum of 18 CO SCI units is met.

To complete general education requirements in this area of study, Plan A for the AA/AS Degree is required.

PLAN A: Please consult with a counselor about specific courses needed or see the college catalog “Graduation Requirements” section. Plan A is designed for transfer to a four-year college or university. However, requirements vary depending upon the individual institution.
Please consult with a counselor for the specific requirements of the university you plan to attend.

3-6 Units ................................................ English Composition
6-9 Units .............................................. Communication/Analytical Thinking
3 Units .................................................. Natural Sciences
3 Units .................................................. Humanities
9 Units ................................................. Social/Behavioral Sciences
(including American History & Governments)
3-4 Units ............................................. Health/Physical Education
3-5 Units .............................................. Math Competency

**COMPUTER INFORMATION SYSTEMS**

**Associate of Arts Degree**

**Career Program**

**First Semester**

CO SCI 104 .................................................. 3
CO SCI 107 .................................................. 3

*(CO SCI 103 is a prerequisite to required CO SCI courses and can be used to fulfill a general education requirement)*

**Second Semester**

CO SCI 134 .................................................. 3
CO SCI 139 or 141 ......................................... 3
CO SCI 158 .................................................. 3
CO SCI 181 .................................................. 3

**Third Semester**

CO SCI 136 .................................................. 3
CO SCI 156 .................................................. 3
CO SCI 182 .................................................. 3
CO SCI 186 .................................................. 3

**Fourth Semester**

CO SCI 138, 140, or 142 ................................ 3
CO SCI 187 .................................................. 3

**Suggested Electives:**

CO SCI 167 .................................................. 3
CO SCI 168 .................................................. 3

**Total Major Units........................................... 36**

To complete general education requirements in this area of study, Plan B for the AA/AS Degree is required.

**PLAN B:** Please consult with a counselor about specific courses needed or see the college catalog

“Graduation Requirements” section. Plan B is not designed for transfer to a four-year college.

3 Units .................................................. English Composition
3 Units .................................................. Communication/Analytical Thinking
3 Units .................................................. Natural Sciences
3 Units .................................................. Humanities
3 Units .................................................. Social/Behavioral Sciences
(including American History & Governments)
3-4 Units ............................................. Health/Physical Education
3-5 Units .............................................. Math Competency
CERTIFICATE PROGRAMS

Certificates in Computer Science-Information technology will be issued by the Computer Science/Information Technology discipline upon submittal of an application to the department by the student and successful completion of one or more of the following sequences.

APPLICATIONS SOFTWARE

Certificate
This sequence of courses prepares students for careers in applications software development and usage in fields related to databases, networking, web technologies, business analysis, and/or programming. Students successfully completing this program will find opportunities for employment in various industries depending on the track chosen for the electives.

- CO SCI 103 or 101 and 108 ................................................. 4-7
- CO SCI 104 .................................................................... 3
- CO SCI 107 .................................................................... 3
- CO SCI 134 .................................................................... 3
- CO SCI 138 .................................................................... 3
- CO SCI 148 .................................................................... 3
- CO SCI 186 .................................................................... 3

Electives .............................................................................. 6

Total Units ........................................................................... 28-31

Acceptable Electives:
- Database Track: 2 courses from CO SCI 187, 188, 189, 198, and 199
- Networking Track: 2 courses from CO SCI 181, 182, and 183
- Operating Systems Track: 3 courses from CO SCI 167, 168, and 169
- Programming Track: 2 courses from CO SCI 136, 139, 140, 141, and 142
- Web Technologies Track: 2 courses from CO SCI 144, 155, 156, 158, and 159.

DATABASE ADMINISTRATION

Skill Certificate
This course sequence offers state of the art hands-on training in designing and implementing Oracle relational databases and prepares students for the Oracle professional certification in database administration.

- CO SCI 186 .................................................................... 3
- CO SCI 187 .................................................................... 3
- CO SCI 188 .................................................................... 3
- CO SCI 189 .................................................................... 3
- CO SCI 198 .................................................................... 3

Total Units ........................................................................... 15

DATABASE DEVELOPER

Skill Certificate
Use Oracle Developer Suite 10g and deploy applications on the Web with Oracle Application Server 10g. The students learn how to build forms and reports and use the web to access them. Students also learn the procedural language PL/SQL for Oracle.

- CO SCI 186 .................................................................... 3
- CO SCI 198 .................................................................... 3
- CO SCI 199 .................................................................... 3

Total Units ........................................................................... 9

WEB CLIENT TECHNOLOGIES

Skill Certificate
Program provides training in the use of client-side web technologies for design and development of interactive web sites. Skills include use of HTML, DHTML, XML, Java, Java Script, Dreamweaver and Flash in web site development.

- CO SCI 141 .................................................................... 3
- CO SCI 151 .................................................................... 3
- CO SCI 152 .................................................................... 3
- CO SCI 103 .................................................................... 4
- CO SCI 150 .................................................................... 3

Total Units ........................................................................... 16

VBA Application Skill Certificate
This certificate program provides the students with an advanced level of instruction and techniques in Microsoft Visual Basic Applications and Visual Basic programming. Students will learn developing and implementing Macros in Microsoft Excel and Microsoft Access. Students will be able complete this certificate program Online.

- CO SCI 103 .................................................................... 4
- CO SCI 133 .................................................................... 3
- CO SCI 134 .................................................................... 3
- CO SCI 138 .................................................................... 3
- CO SCI 148 .................................................................... 3

Total Units ........................................................................... 16
JAVA PROGRAMMING LANGUAGE Certificate
This course sequence provides students with comprehensive training in high-demand programming languages and tools such as Visual Basic, Java. Successful completion of the program will prepare students for an exciting career in software analysis, design, and development.

CO SCI 108 ................................................................. 3
CO SCI 104 ................................................................. 3
CO SCI 107 ................................................................. 3
CO SCI 141 ................................................................. 3
CO SCI 142 ................................................................. 3
Total ................................................................. 15

C++ PROGRAMMING LANGUAGE Certificate
This course sequence provides students with comprehensive training in high-demand programming languages and tools such as Visual Basic, C++. Successful completion of the program will prepare students for an exciting career in software analysis, design, and development.

CO SCI 103 ................................................................. 3
CO SCI 104 ................................................................. 3
CO SCI 107 ................................................................. 3
CO SCI 139 ................................................................. 3
CO SCI 140 ................................................................. 3
Total ................................................................. 15

COMPUTER TECHNOLOGY

(323) 953-4000 ext. 2810 • JH312
www.lacitycollege.edu/academic/departments/ctel/index.html

PROGRAMS OFFERED
Associate of Science:
Computer Technology

Certificates:
Computer Technology
Program in A+ Certification
Program in Network+ Certification

Student learning outcomes for each degree and certificate program are available on the SLO Guide for Students website at http://tinyurl.com/laccsloforstudents

The computer technology curriculum has been developed to provide training in the principles underlying the design of modern computer systems. The program presents theory of computer architecture and design, operation of equipment, and diagnostic programming. Emphasis is placed on essential electronics, design of digital systems used in robotics, automation and industrial control, data processing, and networking. Practical aspects of maintenance, troubleshooting, and integration of digital and analog systems are included.

To complete general education requirements in this area of study, Plan B for the AA/AS Degree is required.

PLAN B: Please consult with a counselor about specific courses needed or see the college catalog “Graduation Requirements”