

“C” Majors

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CHEMISTRY

CHILD DEVELOPMENT

CINEMA

COMPUTER APPLICATIONS AND OFFICE TECHNOLOGIES

COMPUTER SCIENCE INFORMATION TECHNOLOGY

CORRECTIONS
(SEE ADMINISTRATION OF JUSTICE)

The following section details the required curriculum for every degree and certificate program offered at the college. Students must complete all course requirements to petition for a skill certificate or state-approved Certificate of Achievement. In order to be eligible for an Associate degree, students must fulfill all major courses, all West general education requirements (Plan A or Plan B), and all other graduation requirements for a total of at least 60 units. Students should refer to “Graduation Requirements” (in the “Academics” section of this catalog) for additional information. Students are also encouraged to seek assistance from counselors and faculty.

Transfer students should consult the Transfer Center or the Counseling Office for major preparation and general education requirements for the particular transfer institution of their choice. Transfer students who want to obtain an Associate degree may select one of the Liberal Arts and Science degrees which require completion of the West, CSU, or IGETC general education core and at least 18 units of coursework in an approved area of emphasis (see Liberal Arts & Science Section for details).



MAJOR REQUIREMENTS

CERTIFICATES OF ACHIEVEMENT

CERTIFICATE OF ACHIEVEMENT

MAJOR CODE 0501.00

(29 UNITS)

| REQUIRED COURSES | UNITS |
|--|-----------|
| ACCTG 1 Introductory Accounting | 5 |
| OR | |
| ACCTG 21 Bookkeeping & Accounting I | 3 |
| AND | |
| ACCTG 22 Bookkeeping & Accounting II | 3 |
| CO SCI 901 Introduction to Computers and Their Use | 3 |
| BUS 1 Introduction to Business | 3 |
| BUS 32 Business Communications | 3 |
| BUS 38 Business Computations | 3 |
| LAW 1 Business Law I | 3 |
| MGMT 1 Principles of Management | 3 |
| OR | |
| MKTG 1 Principles of Selling | 3 |
| MKTG 21 Principles of Marketing | 3 |
| REAL ES 1 Real Estate Principles | 3 |
| TOTAL UNITS | 29 |

BUSINESS ADMINISTRATION

ASSOCIATE DEGREES

(ALSO SEE MANAGEMENT - SMALL BUSINESS)

The Associate of Arts degree in Business Administration includes coursework that aligns with specific lower-division major requirements for Business Administration and related majors at various universities within the University of California (UC) and California State University (CSU) systems.

Students are encouraged to visit the Transfer Center for complete information regarding transfer requirements for the institution of their choice. Students interested in transfer are also encouraged to consult the Counseling Office for individualized educational planning.

Career opportunities in Business Administration are available for multiple professions including accounting managers, stockbrokers, financial consultants, insurance brokers, marketing managers and computer specialists. In addition, a prospective professor of business may get a start in the associate and baccalaureate programs in business administration.

ASSOCIATE OF ARTS DEGREE

MAJOR CODE 0505.00

(26 UNITS, PLAN A) + All other West requirements for Associate Degree

| REQUIRED COURSES | UNITS |
|--|-----------|
| ACCTG 1 Introductory Accounting I | 5 |
| ACCTG 2 Introductory Accounting II | 5 |
| CO SCI 901 Introduction to Computers and Their Use | 3 |
| ECON 1 Principles of Economics I | 3 |
| ECON 2 Principles of Economics II | 3 |
| LAW 1 Business Law I | 3 |
| MATH 227* Statistics | 4 |
| TOTAL UNITS | 26 |

* Higher level Mathematics coursework may be substituted to meet transfer requirements at varying four-year institutions.

CHEMISTRY

ASSOCIATE DEGREES

The Associate of Arts degree in Chemistry includes coursework that aligns with specific lower-division major requirements for the Chemistry major at various universities within the University of California (UC) and California State University (CSU) systems. Additional coursework in Math and Physics is required at some UC and CSU campuses.

Students are encouraged to visit the Transfer Center for complete information regarding transfer requirements for the institution of their choice. Students interested in transfer are also encouraged to consult the Counseling Office for individualized educational planning.

The Associate Degree in Chemistry is designed to provide students with a strong basic foundation for baccalaureate study in Chemistry.

ASSOCIATE OF ARTS DEGREE

MAJOR CODE 1905.00

(45 UNITS, PLAN B) + All other West requirements for Associate Degree

| REQUIRED COURSES | UNITS |
|--|-----------|
| CHEM 101 General Chemistry I | 5 |
| CHEM 102 General Chemistry II | 5 |
| CHEM 211 Organic Chemistry for Science Majors I | 5 |
| CHEM 212 Organic Chemistry for Science Majors II | 5 |
| MATH 261 Calculus I | 5 |
| MATH 262 Calculus II | 5 |
| MATH 263 Calculus III | 5 |
| PHYSICS 37 Physics for Engineers and Scientists I | 5 |
| PHYSICS 38 Physics for Engineers and Scientists II | 5 |
| TOTAL UNITS | 45 |

CHILD DEVELOPMENT

The Child Development program is designed for students who are interested in working with young children. The program centers on continuing experiences in a wide variety of pre-school settings and will also meet the needs of persons who are currently employed in pre-school centers, but who want to increase their professional skills. Young children are society's most valuable resource, and they must be nurtured with this judgment clearly in view. Students in the Child Development program strive to gain a deep understanding of the total development and potential of young children. The field is expanding, with excellent job opportunities existing throughout the nation.

The Child Development Program serves those entering and currently employed in the rapidly expanding field of Early Childhood Education. Students will be prepared to teach in pre-school programs, including private schools, children's centers, Head Start programs, parent cooperatives and parochial schools, as well as serving as educational aides in elementary schools. The Child Development Program at West Los Angeles College prepares those individuals that are interested in opening their own Child Care facility. The program also benefits anyone interested in understanding children, their development, and their behavior.

All students must make an appointment for advisement in the Child Development Office (GC 180). Applications and a student profile record must be on file. Students will be advised to take a Math and an English assessment test.

THERE ARE RESIDENCY REQUIREMENTS AT WEST LOS ANGELES COLLEGE FOR THE AWARDING OF SKILLS CERTIFICATES, CERTIFICATE OF ACHIEVEMENT, AND ASSOCIATE OF ARTS DEGREE IN CHILD DEVELOPMENT: Any student who has completed Child Development courses at colleges within the Los Angeles Community College District is eligible for a Child Development Skills Certificate, Certificate of Achievement, or an Associate of Arts Degree in Child Development at West Los Angeles College. However, there is a 12-unit residency requirement of coursework that must be completed at West Los Angeles College. These 12 units of coursework do not have to be in the field of Child Development.

Students who have taken courses outside the Los Angeles Community College District and are applying for one of the certificates or the degree must not only meet the 12-unit residency requirement, but must also meet the following additional requirements:

Students who are applying for a Skills Award, a Certificate of Achievement, or an Associate of Arts Degree in Child Development must complete a majority of the required coursework within the Los Angeles Community College District. Courses taken outside of the Los Angeles Community College District must be evaluated by the Department Chairperson.

The format for participating in the Child Development program is as follows:

ASSOCIATE DEGREES

The Associate of Arts degree in Child Development is considered both an academic program and a career educational training program for both transfer and workforce training/development. The curriculum is specifically designed so that it includes the 24 core units that are transferable to the CSU's in the Child Development major and are also aligned with course requirements for lower division units to transfer to other four-year colleges or university institutions as well.

Students interested in transferring to a four-year college or university with a major in Child Development may earn the Associate of Arts degree in Liberal Arts and Sciences with an emphasis in Behavioral and Social Sciences in addition to the degree in Child Development. Students should consult the Transfer Center or the Counseling Office for major preparation and general education requirements of the particular transfer institution of their choice. In the employment arena the employers prefer an A.A. degree in Child Development.

ASSOCIATE OF ARTS DEGREE

MAJOR CODE 1305.00

(40 UNITS, PLAN B)+ All other West requirements for Associate Degree

| REQUIRED COURSES | | UNITS |
|----------------------|---|-------|
| CD 1 | Child Growth and Development | 3 |
| CD 2 | Early Childhood: Principles and Practices | 3 |
| CD 7 (Formerly CD 4) | Introduction to Curriculum in ECE | 3 |
| CD 8 (Formerly CD 3) | Curriculum in ECE | 3 |
| CD 11 | Child, Family, and Community | 3 |
| CD 22 | Practicum in Child Development I | 4 |
| CD 23 | Practicum in Child Development II | 4 |
| CD 34 | Observing and Recording Children's Behavior | 3 |
| CD 42 | Teaching in a Diverse Society | 3 |
| CD 48 | Positive Guidance in Early Childhood Settings | 3 |
| CD 65 | Adult Supervision and Early Childhood Mentoring | 2 |

PLUS 6 UNITS OF SPECIALIZATION:

Child Health, Safety, and Nutrition:

| | | |
|--------|-------------------------------|---|
| CD 10 | Health, Safety, and Nutrition | 3 |
| FCS 21 | Nutrition | 3 |

Infant Studies:

| | | |
|-------|------------------------------|---|
| CD 30 | Infant and Toddler Studies I | 3 |
| CD 31 | Infant Studies II | 3 |

Administration and Supervision:

| | | |
|-------|---|---|
| CD 38 | Admin. and Supervision of Early Childhood Programs I | 3 |
| CD 39 | Admin. and Supervision of Early Childhood Programs II | 3 |

MAJOR REQUIREMENTS

Special Needs:

| | | |
|-------|--|---|
| CD 44 | Early Intervention for Children with Special Needs | 3 |
| CD 45 | Programs for Children with Special Needs | 3 |

School Age Programs:

| | | |
|-------|------------------------|---|
| CD 46 | School Age Programs I | 3 |
| CD 47 | School Age Programs II | 3 |

Family Child Care:

| | | |
|-------|--|---|
| CD 60 | Introduction to Family Child Care I | 3 |
| CD 61 | Introduction to Family Child Care II | 3 |
| CD 62 | Developmental Profiles: Pre-Birth - Age Eight | 3 |
| CD 63 | Creative Curriculum in a Family Child Care Setting | 3 |

Early Literacy:

| | | |
|------------|--|---|
| CD 35 | Literacy Development in Young Children | 3 |
| Speech 135 | Storytelling | 3 |

| | |
|--------------------|-----------|
| TOTAL UNITS | 40 |
|--------------------|-----------|

Note: Students must complete 10 out of the 13 courses within the Los Angeles Community College District. West Los Angeles College requires that CD 22 and CD 23 be taken in residency at West Los Angeles College.

Note: There are pre-requisites and co-requisites for some of the Child Development courses:

- CD 1 and 2 are pre-requisites for CD 7 and 8.
- CD 1, 2, 7, and 8 are pre-requisites for CD 22 and 23.
- CD 42 is a co-requisite for CD 22.
- CD 48 and 65 are co-requisites for CD 23.

CERTIFICATES OF ACHIEVEMENT

Certificate of Achievement in Child Development - (31 units) requires 10 courses (State Approved). The student must complete 7 out of the 11 courses (including CD 22) within the Los Angeles Community College District. West Los Angeles College requires that CD 22 (Practicum) be completed in residency at West Los Angeles College.

CERTIFICATE OF ACHIEVEMENT

MAJOR CODE 1305.00

(31 UNITS)

| REQUIRED COURSES | UNITS | |
|----------------------|---|---|
| CD 1 | Child Growth and Development | 3 |
| CD 2 | Early Childhood: Principles and Practices | 3 |
| CD 7 (Formerly CD 4) | Introduction to Curriculum in ECE | 3 |
| CD 8 (Formerly CD 3) | Curriculum in ECE | 3 |
| CD 10 | Health, Safety, and Nutrition | 3 |
| CD 11 | Child, Family, and Community | 3 |
| CD 22 | Practicum in Child Development I | 4 |
| CD 34 | Observing and Recording Children's Behavior | 3 |
| CD 42 | The Child in a Diverse Society | 3 |
| CD 48 | Positive Guidance in Early Childhood Settings | 3 |
| TOTAL UNITS | 31 | |

SKILL CERTIFICATES

Note: Skill certificates are not state-approved and are not included on transcripts. Only students completing state-approved degrees and/or certificates may participate in commencement.

SKILL CERTIFICATE IN ASSOCIATE TEACHER

MAJOR CODE 1305.01

The student must complete 3 out of the 4 required courses within the Los Angeles Community College District.

| REQUIRED COURSES | UNITS | |
|----------------------|---|---|
| CD 1 | Child Growth and Development | 3 |
| CD 2 | Early Childhood: Principles and Practices | 3 |
| CD 7 (Formerly CD 4) | Introduction to Curriculum in ECE | 3 |
| | OR | |
| CD 8 (Formerly CD 3) | Curriculum in ECE | 3 |
| CD 11 | Child, Family, and Community | 3 |
| TOTAL UNITS | 12 | |

SKILL CERTIFICATE IN DIRECTOR PRIVATE PRESCHOOL

MAJOR CODE 1305.00

The student must complete 4 out of the 5 required courses within the Los Angeles Community College District.

| REQUIRED COURSES | UNITS | |
|----------------------|---|---|
| CD 7 (Formerly CD 4) | Introduction to Curriculum in ECE | 3 |
| | OR | |
| CD 8 (Formerly CD 3) | Curriculum in ECE | 3 |
| CD 11 | Child, Family, and Community | 3 |
| CD 38 | Admin. and Supervision of Early Childhood Programs I | 3 |
| CD 39 | Admin. and Supervision of Early Childhood Programs II | 3 |
| TOTAL UNITS | 15 | |

SKILL CERTIFICATES IN SPECIALIZED AREAS*

*The following skill certificates will only be awarded upon the completion of core coursework (i.e., CD 1; 2; 7 or 8; and 11).

Note: Skill certificates are not state-approved and are not included on transcripts. Only students completing state-approved degrees and/or certificates may participate in commencement.

CURRICULUM DEVELOPMENT IN EARLY CHILDHOOD PROGRAMS

MAJOR CODE 1305.12

| | | |
|----------------------|---|---|
| CD 1 | Child Growth and Development | 3 |
| CD 2 | Early Childhood: Principles and Practices | 3 |
| CD 7 (Formerly CD 4) | Introduction to Curriculum in ECE | 3 |
| CD 8 (Formerly CD 3) | Curriculum in ECE | 3 |
| CD 42 | The Child in a Diverse Society | 3 |
| TOTAL UNITS | 15 | |

INFANT AND TODDLER STUDIES

| MAJOR CODE 1305.13 | | |
|---------------------------|---|-----------|
| CD 1 | Child Growth and Development | 3 |
| CD 2 | Early Childhood: Principles and Practices | 3 |
| CD 11 | Child, Family, and Community | 3 |
| CD 30 | Infant and Toddler Studies I | 3 |
| CD 31 | Infant and Toddler Studies II | 3 |
| TOTAL UNITS | | 15 |

EARLY LITERACY DEVELOPMENT

| MAJOR CODE 1305.14 | | |
|---------------------------|--|-----------|
| CD 1 | Child Growth and Development | 3 |
| CD 2 | Early Childhood: Principles and Practices | 3 |
| CD 11 | Child, Family, and Community | 3 |
| CD 35 | Fostering Literacy Development in Young Children | 3 |
| SPEECH 135 | Storytelling | 3 |
| TOTAL UNITS | | 15 |

SPECIAL NEEDS CHILDREN

| MAJOR CODE 1305.20 | | |
|---------------------------|--|-----------|
| CD 30 | Infant and Toddler Studies I | 3 |
| CD 31 | Infant Studies II | 3 |
| CD 34 | Observing and Recording Children's Behavior | 3 |
| CD 44 | Early Intervention for Children with Special Needs | 3 |
| CD 45 | Programs for Children with Special Needs II | 3 |
| TOTAL UNITS | | 15 |

SCHOOL AGE PROGRAMS

| MAJOR CODE 1305.15 | | |
|---------------------------|-----------------------------------|-----------|
| CD 7 (Formerly CD 4) | Introduction to Curriculum in ECE | 3 |
| CD 8 (Formerly CD 3) | Curriculum in ECE | 3 |
| CD 11 | Child, Family, and Community | 3 |
| CD 46 | School Age Programs I | 3 |
| CD 47 | School Age Programs II | 3 |
| TOTAL UNITS | | 15 |

ADMINISTRATION AND SUPERVISION OF EARLY CHILDHOOD PROGRAMS

| MAJOR CODE 1305.16 | | |
|--|---|-----------|
| <i>(Must hold a Specialization Skill Certificate in Curriculum Development to qualify for this award.)</i> | | |
| CD 7 (Formerly CD 4) | Introduction to Curriculum in ECE | 3 |
| | OR | |
| CD 8 (Formerly CD 3) | Curriculum in ECE | 3 |
| CD 10 | Health, Safety, and Nutrition | 3 |
| CD 11 | Child, Family, and Community | 3 |
| CD 38 | Administration and Supervision of Early Childhood Programs I | 3 |
| CD 39 | Administration and Supervision of Early Childhood Programs II | 3 |
| CD 65 | Adult Supervision and Early Childhood Mentoring | 2 |
| TOTAL UNITS | | 17 |

HEALTH, NUTRITION, SAFETY AND FOOD SANITATION OF EARLY CHILDHOOD PROGRAMS

| MAJOR CODE 1305.17 | | |
|---------------------------|--------------------------------|-----------|
| CD 1 | Child Growth and Development | 3 |
| CD 10 | Health, Safety, and Nutrition | 3 |
| FCS 21 | Nutrition | 3 |
| HEALTH 11 | Principles of Healthful Living | 3 |
| | OR | |
| HEALTH 12 | Safety Education and First Aid | 3 |
| TOTAL UNITS | | 12 |

OBSERVATION, ASSESSMENT, AND GUIDANCE IN EARLY CHILDHOOD PROGRAMS

| MAJOR CODE 1305.18 | | |
|---------------------------|---|-----------|
| CD 1 | Child Growth and Development | 3 |
| CD 2 | Early Childhood: Principles and Practices | 3 |
| CD 11 | Child, Family, and Community | 3 |
| CD 34 | Observing and Recording Children's Behavior | 3 |
| CD 48 | Positive Guidance in Early Childhood Settings | 3 |
| TOTAL UNITS | | 15 |

FAMILY CHILD CARE PROVIDERS

| MAJOR CODE 1305.81 | | |
|---------------------------|---|----------|
| CD 60 | Introduction to Family Child Care I | 1 |
| CD 61 | Introduction to Family Child Care II | 1 |
| CD 62 | Developmental Profiles: Pre-Birth Through Age Eight | 2 |
| CD 63 | Creative Curriculum in a Family Child Care Setting | 2 |
| TOTAL UNITS | | 6 |

CINEMA

SKILL CERTIFICATES

Note: Skill certificates are not state-approved and are not included on transcripts. Only students completing state-approved degrees and/or certificates may participate in commencement.

SKILL CERTIFICATE IN CINEMA

MAJOR CODE 0612.00
 Students earning a skill certificate in Cinema acquire a broad, general understanding of film theory, history, and production. Students will get hands-on experience in film production and be instructed in the mechanics of writing for film. They will have the opportunity to analyze screenplays, write a script, and/or produce their own short video or film. Courses are offered in screen writing, script treatment, content development, film history and analysis, and producing and editing of a digital short film.

| REQUIRED COURSES | UNITS |
|--|--------------|
| CINEMA 1 Introduction to Motion Picture Production | 3 |
| CINEMA 3 History of Motion Pictures | 3 |
| CINEMA 5 Introduction to Screenwriting | 3 |

MAJOR REQUIREMENTS

PLUS 6 UNITS FROM THE FOLLOWING:

| | | |
|--------------------|--|-----------|
| ART 639 | Introduction to Digital Imaging | 3 |
| BRDCST 1 | Fundamentals of Radio and TV Broadcasting | 3 |
| BRDCST 7 | Radio Announcing I | 3 |
| BRDCST 12 | Broadcast Station Operation I | 3 |
| BRDCST 17 | Industrial and Commercial Voice-over Techniques | 3 |
| BRDCST 25 | Radio/TV/Film Writing | 3 |
| CINEMA 18 | Main Currents in Motion Pictures | 3 |
| CINEMA 107 | Understanding Motion Pictures | 3 |
| CINEMA 111 | Cinema: Developing Content for Movies | 3 |
| CINEMA 112 | Script Analysis | 3 |
| MULTIMD 100 | Introduction to Multimedia Computer Applications | 3 |
| MULTIMD 210 | Digital Editing | 3 |
| MULTIMD 320 | Web Design | 3 |
| TOTAL UNITS | | 15 |

COMPUTER APPLICATIONS AND OFFICE TECHNOLOGIES

ASSOCIATE DEGREES

The Associate of Arts degree in Computer Applications and Office Technologies is primarily designed for vocational education and workforce training/development. The curriculum is not aligned with course requirements for transfer to a specific major at a four-year college or university. For more information visit the department website at <http://www.wlac.edu/csit/index.html>.

WORD PROCESSING

This curriculum prepares students for office administration occupations with emphasis on computer business application such as advanced word processing, electronic spreadsheet for business analysis, presentation graphics and computerized accounting.

ASSOCIATE OF ARTS DEGREE - WORD PROCESSING

MAJOR CODE 0514.01

(39 UNITS, PLAN B) + All other West requirements for Associate Degree

| REQUIRED COURSES | UNITS | |
|------------------|---|---|
| ACCTG 21 | Bookkeeping & Accounting | 3 |
| ACCTG 25 | Automated Accounting Methods and Procedures | 3 |
| BUS 1 | Introduction to Business | 3 |
| BUS 31 | Business English | 3 |
| BUS 32 | Business Communications | 3 |
| BUS 38 | Business Computations | 3 |

| | | |
|------------|--|---|
| CAOT 39 | Word Processing: Keyboarding and Operations OR | 3 |
| CAOT 84 | Microcomputer Office Applications: Word Processing | 3 |
| CO SCI 901 | Introduction to Computers and Their Use | 3 |
| CO SCI 930 | Microsoft Advance Business Application | 4 |
| CO SCI 934 | Operating Systems | 3 |

ELECTIVES (8 UNITS FROM THE FOLLOWING)

| | |
|----------------------------|-----------|
| Any CAOT or CO SCI courses | 8 |
| TOTAL UNITS | 39 |

CERTIFICATES OF ACHIEVEMENT

CERTIFICATE OF ACHIEVEMENT - WORD PROCESSING

MAJOR CODE 0514.01

(30 UNITS)

| REQUIRED COURSES | UNITS | |
|------------------|--|---|
| ACCTG 21 | Bookkeeping & Accounting | 3 |
| ACCTG 25 | Automated Accounting Methods and Procedures | 3 |
| BUS 31 | Business English | 3 |
| BUS 32 | Business Communications | 3 |
| CAOT 39 | Word Processing: Keyboarding and Operations OR | 3 |
| CAOT 84 | Microcomputer Office Applications: Word Processing | 3 |
| CO SCI 901 | Introduction to Computers and Their Use | 3 |
| CO SCI 930 | Microsoft Advance Business Application | 4 |
| CO SCI 934 | Operating Systems | 3 |

ELECTIVES (5 UNITS FROM THE FOLLOWING)

| | |
|----------------------------|-----------|
| Any CAOT or CO SCI courses | 5 |
| TOTAL UNITS | 30 |

CERTIFICATE OF ACHIEVEMENT - LEGAL SECRETARY

MAJOR CODE 0514.10

(17 UNITS)

This program prepares individuals with the knowledge and skills to perform secretarial duties and assume specific responsibilities in a legal office.

| REQUIRED COURSES | UNITS | |
|--------------------|--|---|
| CAOT 23ABC | Legal Secretarial Procedures | 3 |
| CAOT 39 | Word Processing, Keyboarding and Operations | 3 |
| CAOT 79 | Word Processing Applications | 3 |
| CAOT 84 | Microcomputer Office Applications: Word Processing | 3 |
| CAOT 93 | Legal Documents Production | 2 |
| PARALEGAL 10 | Introduction to Law and Legal Profession | 3 |
| TOTAL UNITS | 17 | |

COMPUTER SCIENCE INFORMATION TECHNOLOGY

ASSOCIATE DEGREES

COMPUTER SCIENCE INFORMATION TECHNOLOGY OPTION
COMPUTER NETWORK AND SECURITY MANAGEMENT
OPTION
COMPUTER WEB SUPPORT AND DATABASE
ADMINISTRATION OPTION

The Associate degrees in Computer Science Information Technology are primarily designed for vocational education and workforce training/development. Although the curriculum is not specifically designed for transfer to a four-year college or university, the program offers a variety of courses that fulfill some lower-division requirements for transfer.

Students interested in transferring to a four-year college or university with a major in Computer Science or a related major may consider the Associate of Arts degree in Liberal Arts and Sciences with an emphasis in Math, Science, and Computer Science. Students should consult the Transfer Center or the Counseling Office for major preparation and general education requirements of the particular transfer institution of their choice.

The Associate degrees in Computer Science Information Technology provide instruction to students interested in careers in computing, information systems management and security, computer network, web development and database administration, and business application. A Computer Science Information Technology option, Computer Web Support and Database Administration option, and a Computer Network and Security Management option are offered.

NOTE: The Associate of Arts degree (AA) follows Plan A with 30 units of major courses and 30 units of General Education courses. The Associate of Science degree (AS) follows Plan B with 30 units of major courses, 18 units of GE courses, and 12 units of any CO SCI courses. For more information visit the department website at <http://www.wlac.edu/csit/index.html>.

ASSOCIATE OF ARTS OR SCIENCE DEGREE - COMPUTER SCIENCE INFORMATION TECHNOLOGY OPTION

MAJOR CODE 0702.00

(30 UNITS, PLAN A OR PLAN B) + All other West requirements for Associate Degree

| REQUIRED COURSES | UNITS |
|--|-------|
| CO SCI 902 Introduction to Computer Science | 3 |
| CO SCI 917 Beginning Micro-Assembly Language | 3 |
| CO SCI 934 Operating Systems | 3 |
| OR | |

| | |
|--|---|
| CO SCI 935 Introduction to Linux+ | 3 |
| CO SCI 936 Introduction to Data Structures | 3 |
| CO SCI 939 Programming in C | 3 |
| CO SCI 965 Introduction to Computer Networks | 3 |
| CO SCI 990 Object-Oriented Programming in Java | 4 |

ELECTIVES (8 UNITS FROM THE FOLLOWING)

| | |
|--------------------|-----------|
| Any CO SCI courses | 8 |
| TOTAL UNITS | 30 |

ASSOCIATE OF ARTS OR SCIENCE DEGREE - COMPUTER NETWORK AND SECURITY MANAGEMENT OPTION

MAJOR CODE 0708.12

(30 UNITS, PLAN A OR PLAN B) + All other West requirements for Associate Degree

| REQUIRED COURSES | UNITS |
|--|-------|
| CO SCI 934 Operating Systems | 3 |
| OR | |
| CO SCI 935 Introduction to Linux+ | 3 |
| CO SCI 965 Introduction to Computer Networks | 3 |
| CO SCI 972 Introduction to Cisco Network Fundamentals | 3 |
| CO SCI 974 Introduction to Cisco Routers | 3 |
| CO SCI 980 Introduction to Computer and Information Security I | 3 |
| CO SCI 982 Introduction to Microsoft Server Operating System | 3 |
| CO SCI 985 Network and Information System Security | 3 |

ELECTIVES (9 UNITS FROM THE FOLLOWING)

| | |
|---|-----------|
| CO SCI 913 Apple Care Administrator | 3 |
| CO SCI 967 Linux.Apache.MySQL.Virtual and Cloud Computing | 3 |
| CO SCI 981 Administering Computer Networks and Security | 3 |
| CO SCI 983 Microsoft Networking Infrastructure Administration | 3 |
| CO SCI 984 Introduction to Windows Active Directory Services | 3 |
| CO SCI 987 Information Storage Management/Virtual Server | 3 |
| CO SCI 988 Microsoft SQL Server | 3 |
| CO SCI 989 Microsoft Exchange Server | 3 |
| TOTAL UNITS | 30 |

ASSOCIATE OF ARTS OR SCIENCE DEGREE - COMPUTER WEB SUPPORT & DATABASE ADMINISTRATION OPTION

MAJOR CODE 0709.00

(31 UNITS, PLAN A OR PLAN B) + All other West requirements for Associate Degree

| REQUIRED COURSES | UNITS |
|---|-------|
| CO SCI 933 Database Design (Microsoft Access) | 3 |
| CO SCI 938 Web Application Programming Using VB.net | 3 |
| CO SCI 953 Database Management Using Oracle | 3 |
| CO SCI 957 Introduction to Web Page Development | 3 |
| CO SCI 962 Web Programming Using JavaScript | 4 |
| CO SCI 963 Web Application Using ASP.net | 3 |

MAJOR REQUIREMENTS

ELECTIVES (12 UNITS FROM THE FOLLOWING)

| | | |
|--------------------|---|-----------|
| CO SCI 937 | E-Commerce Essentials | 3 |
| CO SCI 952 | Web Page Development Using Macromedia Flash | 3 |
| CO SCI 958 | Web Development Using HTML | 4 |
| CO SCI 967 | Linux.Apache.MySQL.Virtual and Cloud Computing | 3 |
| CO SCI 980 | Introduction to Computer and Information Security I | 3 |
| CO SCI 982 | Introduction to Microsoft Server Operating System | 3 |
| CO SCI 987 | Information Storage Management/Virtual Server | 3 |
| CO SCI 988 | Microsoft SQL Server | 3 |
| CO SCI 989 | Microsoft Exchange Server | 3 |
| CO SCI 990 | Object Oriented Programming in Java | 4 |
| TOTAL UNITS | | 31 |

CERTIFICATES OF ACHIEVEMENT

CERTIFICATE OF ACHIEVEMENT - BUSINESS APPLICATION AND DATABASE MANAGEMENT

MAJOR CODE 0701.00

(16 UNITS)

This program enables the student to use application software such as advanced word processing, electronic spreadsheet, database management and presentation graphics to solve typical business problems and perform business analysis.

Concentration in Microsoft and Oracle database application development and Linux database system administration. See Department for course sequence.

REQUIRED COURSES (16 UNITS FROM THE FOLLOWING)

| | | |
|--------------------|---|-----------|
| CO SCI 912 | Apple Application Development | 3 |
| CO SCI 930 | Intermediate Microsoft Office Application | 4 |
| CO SCI 933 | Database Design (Microsoft Access) | 3 |
| CO SCI 934 | Operating System | 3 |
| CO SCI 937 | E-Commerce Essentials | 3 |
| CO SCI 938 | Web Application Programming Using VB.net | 3 |
| CO SCI 953 | Database Management Using Oracle | 3 |
| CO SCI 967 | Linux.Apache.MySQL.Virtual and Cloud Computing | 3 |
| CO SCI 980 | Introduction to Computer and Information Security I | 3 |
| CO SCI 988 | Microsoft SQL Server | 3 |
| CO SCI 989 | Microsoft Exchange Server | 3 |
| CO SCI 990 | Object Oriented Programming in Java | 4 |
| TOTAL UNITS | | 16 |

CERTIFICATE OF ACHIEVEMENT - COMPUTER NETWORK AND INFORMATION SYSTEM SECURITY

MAJOR CODE 0708.11

(16 UNITS)

The curriculum is intended to help students develop skills to design, administer, and manage the heterogeneous corporate network and information system with security emphasis. The courses examine and illustrate network security with industry leading network operating systems. Individual courses will assist students in preparing for related industry certification exams.

REQUIRED COURSES UNITS

| | | |
|------------|---|---|
| CO SCI 965 | Introduction to Computer Networks | 3 |
| CO SCI 980 | Introduction to Computer and Information Security I | 3 |
| CO SCI 985 | Network and Information System Security | 3 |

ELECTIVES (7 UNITS FROM THE FOLLOWING)

| | | |
|--------------------|--|-----------|
| CO SCI 913 | Apple Care Administrator | 3 |
| CO SCI 967 | Linux.Apache.MySQL.Virtual and Cloud Computing | 3 |
| CO SCI 981 | Administering Computer Networks and Security | 3 |
| CO SCI 982 | Introduction to Microsoft Server Operating System | 3 |
| CO SCI 983 | Microsoft Networking Infrastructure Administration | 3 |
| CO SCI 984 | Introduction to Windows Active Directory Services | 3 |
| CO SCI 987 | Information Storage Management/Virtual Server | 3 |
| CO SCI 988 | Microsoft SQL Server | 3 |
| CO SCI 989 | Microsoft Exchange Server | 3 |
| CO SCI 992 | Computer A+ Hardware Laboratory | 1 |
| TOTAL UNITS | | 16 |

CERTIFICATE OF ACHIEVEMENT - COMPUTER NETWORK AND SECURITY MANAGEMENT

MAJOR CODE 0708.13

(30 UNITS)

| REQUIRED COURSES | UNITS | |
|------------------|---|---|
| CO SCI 934 | Operating Systems OR | 3 |
| CO SCI 935 | Introduction to Linux+ | 3 |
| CO SCI 965 | Introduction to Computer Networks | 3 |
| CO SCI 972 | Introduction to Cisco Network Fundamentals | 3 |
| CO SCI 974 | Introduction to Cisco Routers | 3 |
| CO SCI 980 | Introduction to Computer and Information Security I | 3 |
| CO SCI 982 | Introduction to Microsoft Server Operating System | 3 |
| CO SCI 985 | Network and Information System Security | 3 |

ELECTIVES (9 UNITS FROM THE FOLLOWING)

| | | |
|--------------------|--|-----------|
| CO SCI 913 | Apple Care Administrator | 3 |
| CO SCI 967 | Linux.Apache.MySQL.Virtual and Cloud Computing | 3 |
| CO SCI 981 | Administering Computer Networks and Security | 3 |
| CO SCI 983 | Microsoft Networking Infrastructure Administration | 3 |
| CO SCI 984 | Introduction to Windows Active Directory Services | 3 |
| CO SCI 987 | Information Storage Management/Virtual Server | 3 |
| CO SCI 988 | Microsoft SQL Server | 3 |
| CO SCI 989 | Microsoft Exchange Server | 3 |
| TOTAL UNITS | | 30 |

CERTIFICATE OF ACHIEVEMENT - COMPUTER NETWORK MANAGEMENT

(17 UNITS)

MAJOR CODE 0706.01

Microsoft Network training at West prepares students to pass Microsoft Certification exams. These industry-demand certifications are important to those who wish to pursue a career working with Microsoft network. This program provides support professionals' core foundation for supporting Microsoft domain network.

| REQUIRED COURSES | | UNITS |
|---|---|--------------|
| CO SCI 972 | Introduction to Cisco Network Fundamentals | 3 |
| CO SCI 974 | Introduction to Cisco Routers | 3 |
| CO SCI 982 | Introduction to Microsoft Server Operating System | 3 |
| ELECTIVES (8 UNITS FROM THE FOLLOWING) | | |
| CO SCI 913 | Apple Care Administrator | 3 |
| CO SCI 967 | Linux.Apache.MySQL.Virtual and Cloud Computing | 3 |
| CO SCI 980 | Introduction to Computer and Information Security I | 3 |
| CO SCI 981 | Administering Computer Networks and Security | 3 |
| CO SCI 983 | Microsoft Networking Infrastructure Administration | 3 |
| CO SCI 984 | Introduction to Windows Active Directory Services | 3 |
| CO SCI 985 | Network and Information System Security | 3 |
| CO SCI 987 | Information Storage Management/Virtual Server | 3 |
| CO SCI 988 | Microsoft SQL Server | 3 |
| CO SCI 989 | Microsoft Exchange Server | 3 |
| CO SCI 991 | Cisco Router Laboratory | 1 |
| CO SCI 992 | Computer A+ Hardware Laboratory | 1 |
| TOTAL UNITS | | 17 |

CERTIFICATE OF ACHIEVEMENT - COMPUTER SCIENCE INFORMATION TECHNOLOGY

MAJOR CODE 0702.00

(30 UNITS)

| REQUIRED COURSES | | UNITS |
|---|-------------------------------------|--------------|
| CO SCI 902 | Introduction to Computer Science | 3 |
| CO SCI 917 | Beginning Micro-Assembly Language | 3 |
| CO SCI 934 | Operating Systems | 3 |
| | OR | |
| CO SCI 935 | Introduction to Linux+ | 3 |
| CO SCI 936 | Introduction to Data Structures | 3 |
| CO SCI 939 | Programming in C | 3 |
| CO SCI 965 | Introduction to Computer Networks | 3 |
| CO SCI 990 | Object-Oriented Programming in Java | 4 |
| ELECTIVES (8 UNITS FROM THE FOLLOWING) | | |
| | Any CO SCI courses | 8 |
| TOTAL UNITS | | 30 |

CERTIFICATE OF ACHIEVEMENT - COMPUTER WEB SUPPORT & DATABASE ADMINISTRATION

MAJOR CODE 0709.00

(31 UNITS)

| REQUIRED COURSES | | UNITS |
|-------------------------|--|--------------|
| CO SCI 933 | Database Design (Microsoft Access) | 3 |
| CO SCI 938 | Web Application Programming Using VB.net | 3 |
| CO SCI 953 | Database Management Using Oracle | 3 |
| CO SCI 957 | Introduction to Web Page Development | 3 |
| CO SCI 962 | Web Programming Using JavaScript | 4 |
| CO SCI 963 | Web Application Using ASP.net | 3 |

ELECTIVES (12 UNITS FROM THE FOLLOWING)

| | | |
|--------------------|---|-----------|
| CO SCI 937 | E-Commerce Essentials | 3 |
| CO SCI 952 | Web Page Development Using Macromedia Flash | 3 |
| CO SCI 958 | Web Development Using HTML | 4 |
| CO SCI 967 | Linux.Apache.MySQL.Virtual and Cloud Computing | 3 |
| CO SCI 980 | Introduction to Computer and Information Security I | 3 |
| CO SCI 982 | Introduction to Microsoft Server Operating System | 3 |
| CO SCI 987 | Information Storage Management/Virtual Server | 3 |
| CO SCI 988 | Microsoft SQL Server | 3 |
| CO SCI 989 | Microsoft Exchange Server | 3 |
| CO SCI 990 | Object Oriented Programming in Java | 4 |
| TOTAL UNITS | | 31 |

CERTIFICATE OF ACHIEVEMENT - WEB SUPPORT AND ADMINISTRATION

MAJOR CODE 0709.05

(16 UNITS)

The curriculum is intended to help students develop skills in designing, building, programming, populating with contents, branding, marketing, supporting, and managing websites. This program also provides students with the knowledge and skills to administer web site security and to manage client-server database.

REQUIRED COURSES (16 UNITS FROM THE FOLLOWING)

| | | |
|--------------------|--|-----------|
| CO SCI 933 | Database Design and Programming | 3 |
| CO SCI 937 | E-Commerce Essentials | 3 |
| CO SCI 938 | Web Application Programming Using VB.net | 3 |
| CO SCI 952 | Web Design Using Flash | 3 |
| CO SCI 953 | Database Management Using Oracle | 3 |
| CO SCI 957 | Introduction to Web Page Design | 3 |
| CO SCI 958 | Web Page Development Using HTML | 3 |
| CO SCI 962 | Web Development with JAVA Script | 4 |
| CO SCI 963 | Web Application Using ASP.net | 3 |
| CO SCI 967 | Linux.Apache.MySQL.Virtual and Cloud Computing | 3 |
| CO SCI 988 | Microsoft SQL Server | 3 |
| CO SCI 990 | Object-Oriented Programming in Java | 4 |
| TOTAL UNITS | | 16 |

CORRECTIONS

(SEE ADMINISTRATION OF JUSTICE)

DENTAL HYGIENE

ASSOCIATE DEGREES

The Associate of Science degree in Dental Hygiene is primarily designed for vocational education and workforce training/development. The curriculum is not aligned with course requirements for transfer to a specific major at a four-year college or university.