

Degree and Certificate Program Descriptions

AA-T Associate in Arts Degree for Transfer	CA Certificate of Achievement
AS-T Associate in Science Degree for Transfer	CN Certificate of Completion (noncredit)
AA Associate of Arts degree	CY Certificate of Competency (noncredit)
AS Associate of Science degree	SC Skills Certificate (non-transcribed)

baccalaureate degrees in 60 semester or 90 quarter units. These degrees require students to meet both of the following requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district and meeting the requirements of an approved transfer model curriculum.
2. Obtainment of a minimum grade point average of 2.0.

Required courses	19
ACCTG 001 Introductory Accounting I	5
ACCTG 002 Introductory Accounting II	5
ECON 001 Principles of Economics I	3
ECON 002 Principles of Economics II	3
BUS 005 Business Law I	3
Elective units, list A (chosen from the following)	4-5
MATH 236 Calculus for Business and Social Science	5
MATH 227 Statistics	4
Elective units, list B (chosen from the following)	5-6
And any course from List A not already used.	
COS 901 Computers and Their Use	3
BUS 001 Introduction to Business	3
Additional CSU GE or IGETC units	28-30
(37-39 units, minus 9 major units that may be double-counted as GE)	
CSU-transferable elective units	0-4
TOTAL	60

BUSINESS ADMINISTRATION (AA)

MAJOR CODE: 0505.00

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.

Required courses	26-27
ACCTG 1 Introductory Accounting I	5
ACCTG 2 Introductory Accounting II	5
BUS 005 Business Law I	3
CO SCI 901 Introduction to Computer and Their Use	3
ECON 001 Principles of Economics I	3
ECON 002 Principles of Economics II	3
MATH 227 Statistics	4
OR	
MATH 236 Calculus for Business & Social Science	5
Additional LACCD GE plan units	18
(21 units, minus 3 major units that may be double-counted as GE)	
Degree-applicable elective units	5-6
TOTAL	60

CHEMISTRY

SCIENCE DIVISION

CHEMISTRY (AA)

MAJOR CODE: 1905.00

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.

Degree and Certificate Program Descriptions

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

Program Learning Outcomes: Upon successful completion of this program, students will be able to...

- Utilize an appropriate and effective scientific methodology to analyze physical and chemical processes in the workplace and in everyday living.
- Explain and analyze the chemical world –as chemistry is a basic science with connections to many careers
- Research and interpret scientific literature.

Required courses	45
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 037 Physics for Engineers and Scientists I	5
PHYSICS 038 Physics for Engineers and Scientists II	5

Additional LACCD GE plan units **15**
(21 units, minus 3 units that may be waived from area E for this "high-unit" major; and minus 3 major units that may be double-counted as GE)

TOTAL **60**

CHILD DEVELOPMENT

BEHAVIORAL SCIENCE DIVISION

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, Certificates 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.

Program Learning Outcomes: Upon successful completion of this program, students will be able to...

- Understanding Young Children: Practice and demonstrate an understanding of child development and their relationships with children and families to understand children as individuals and to plan responses to their unique needs and potentials.
- Equity Fairness, and Diversity: Practice, model, and teach behaviors appropriate in a diverse society by creating a safe, secure learning environment for all children; by showing appreciation of and respect for the individual differences and unique needs of each member of the learning community; and by empowering children to give and expect equity, fairness, and dignity.
- Assessment: Critically investigate, interpret and analyze results of the strengths and weaknesses of multiple assessment methodologies and know how to use them effectively. Utilize a variety of methods, they

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systematically observe, monitor, and document children's activities and behavior, analyzing, communicating, and using the information they decide would improve their work with children, parents, and others.

- Promoting Child Development and Learning: Practice and demonstrate an understanding of how to promote children's cognitive, social, emotional, physical, and linguistic development by organizing and orchestrating the environment in ways that best facilitate the development and learning of young children.
- Knowledge of Integrated Curriculum: Apply critical thinking to design and implement academic subjects, and assessment tools so that the program design is developmentally appropriate learning experience that integrate within and across the disciplines.
- Multiple Teaching Strategies for Meaningful Learning: Utilize a variety of practices and resources to promote individual development, meaningful learning and social cooperation.

EARLY CHILDHOOD EDUCATION (AS-T)

MAJOR CODE: 1305.00

The AS-T in Early Childhood Education for transfer is intended for students who are planning to transfer to a California State University (CSU) into a Bachelor of Child Development, Child and Adolescent Development, Human Development, or Educational programs; guaranteeing admission to the CSU system but not to a specific campus or major. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

Career options available to students following completion of a four-year Bachelor's degree in Early Childhood Education include Head Start Teacher, Program Director, Site Supervisor, and Educational Specialist.

Program Learning Outcomes: Upon successful completion of this program, students will be able to...

- Design and implement an early childhood education curriculum that is developmentally appropriate, culturally aware, and encourages parent involvement.
- Demonstrate the use of developmentally appropriate practices for young children.
- Evaluate and demonstrate the roles of Early Childhood Education professionals in preparing children for school success.
- Plan and implement curriculum domain experiences/activities for preschool and/or school-age children.

- Advocate for children's rights to develop their potential for becoming productive, well-adjusted members of society.
- Implement a plan for professional success to include obtaining a California Child Development Permit to qualify for employment in programs receiving funding from Federal, State, private (profit and non-profit), and family child care sources.
- Develop practical ideas for implementing culturally relevant and anti-bias education in core curriculum areas.

This degree complies with The Student Transfer Achievement Reform Act (Senate Bill 1440). Information on which campuses accept this degree can be found at <http://www.sb1440.org/>.

Students who complete an ADT and transfer to a similar major at a CSU are guaranteed a pathway to finish their baccalaureate degrees in 60 semester or 90 quarter units. These degrees require students to meet both of the following requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district and meeting the requirements of an approved transfer model curriculum.
2. Obtainment of a minimum grade point average of 2.0.

Required courses	24
CH DEV 001 Child Growth and Development	3
CH DEV 002 Early Childhood: Principles and Practices	3
CH DEV 007 Intro. To Curriculum in Early Childhood Education	3
CH DEV 010 Health, Safety and Nutrition	3
CH DEV 011 Child, Family and Community	3
CH DEV 022 Practicum in Child Development	4
CH DEV 034 Observation & Recording Children's Behavior	3
CH DEV 042 Teaching in a Diverse Society	3
Additional CSU GE or IGETC units	34-36
(37-39 units, minus 3 major units that may be double-counted as GE)	
CSU-transferable elective units	0-2
TOTAL	60

Degree and Certificate Program Descriptions

CHILD DEVELOPMENT (AA)

MAJOR CODE: 1305.00

Required courses	34
CH DEV 001 Child Growth and Development	3
CH DEV 002 Early Childhood: Principles and Practices	3
CH DEV 007 Introduction to Curriculum ECE	3
CH DEV 008 Curriculum in ECE	3
CH DEV 010 Health Safety, and Nutrition	3
CH DEV 011 Child, Family, and Community	3
CH DEV 022 Practicum in Child Development I	4
CH DEV 023 Practicum in Child Development II	4
CH DEV 034 Observing and Recording Children's Behavior	3
CH DEV 042 Teaching in a Diverse Society	3
CH DEV 065 Adult Supervision and Early Childhood Mentoring	2

Specialization electives (any one of the following sets) 6

Child Health, Safety, and Nutrition:

CH DEV 010 Health, Safety, and Nutrition AND	3
FAM &CS 021 Nutrition	3

Infant Studies:

CH DEV 030 Infant and Toddler Studies I AND	3
CH DEV 031 Infant Studies II	3

Administration and Supervision:

CH DEV 038 Admin & Supervision Early Childhood Programs I AND	3
CH DEV 039 Admin & Supervision Early Childhood Programs II	3

Special Needs:

CH DEV 044 Early Intervention Children w/Special Needs AND	3
CH DEV 045 Programs for Children w/Special Needs	3

School Age Programs:

CH DEV 046 School Age Programs I AND	3
CH DEV 047 School Age Programs II	3

Additional LACCD GE plan units 18

(21 units, minus 3 major units that may be double-counted as GE)

Degree-applicable elective units 2
TOTAL 60

CHILD DEVELOPMENT (CA)

MAJOR CODE: 1305.00

Gainful Employment

To find information about the careers for which this certificate prepares you, the costs associated with the program, median debt accumulated by students completing the program, and time to completion, please visit the Gainful Employment Disclosure website at: <http://wlac.edu/Gainful-Employment/index.aspx>.

Required courses 28

CH DEV 001 Child Growth and Development	3
CH DEV 002 Early Childhood: Principles and Practices	3
CH DEV 007 Introduction to Curriculum ECE	3
CH DEV 008 Curriculum in ECE	3
CH DEV 010 Health, Safety, & Nutrition	3
CH DEV 011 Child, Family, and Community	3
CH DEV 022 Practicum in Child Development I	4
CH DEV 042 Teaching in a Diverse Society	3
FAM &CS 021 Nutrition	3

Elective units (chosen from the following) 3-4

CH DEV23 Practicum in Child Development II	4
CH DEV30 Infant and Toddler Studies I	3
CH DEV31 Infant and Toddler Studies II	3
CH DEV34 Observing and Recording Children's Behavior	3
CH DEV38 Administration & Supervision of Early Childhood Programs I	3
CH DEV39 Administration & Supervision of Early Childhood Programs II	3
CH DEV46 School Age Programs I	3
CH DEV47 School Age Programs I	3

TOTAL 31-32

ADMINISTRATION AND SUPERVISION OF EARLY CHILDHOOD PROGRAMS (SC)

MAJOR CODE: 1305.13

Required courses 17

CH DEV 007 Introduction to Curriculum ECE OR	3
CH DEV 008 Curriculum in ECE	3
CH DEV 010 Health, Safety, & Nutrition	3
CH DEV 038 Admin & Supervision Early Childhood Programs I	3
CH DEV 039 Admin & Supervision Early Childhood Programs II	3
CH DEV 065 Adult Supervision/Early Childhood Mentoring	2

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HEALTH, NUTRITION, AND FOOD SANITATION IN EARLY CHILDHOOD PROGRAMS (SC)

MAJOR CODE: 1305.20

Required courses	12
CH DEV 001 Child Growth and Development	3
CH DEV 010 Health, Safety, & Nutrition	3
FAM & CS 021 Nutrition	3
HEALTH 011 Principles of Healthy Living	3
OR	
HEALTH 012 Safety Education and First Aid	3

INFANT AND TODDLER STUDIES (SC)

MAJOR CODE: 1305.13

Required courses	15
CH DEV 001 Child Growth and Development	3
CH DEV 002 Early Childhood: Principles and Practices	3
CH DEV 011 Child, Family, and Community	3
CH DEV 030 Infant and Toddler Studies I	3
CH DEV 031 Infant Studies II	3

PRESCHOOL ASSOCIATE TEACHER (SC)

MAJOR CODE: 1305.01

Required courses	12
CH DEV 001 Child Growth and Development	3
CH DEV 002 Early Childhood: Principles and Practices	3
CH DEV 007 Introduction to Curriculum ECE	3
OR	
CH DEV 008 Curriculum in ECE	3
CH DEV 011 Child, Family, and Community	3

SCHOOL AGE PROGRAMS (SC)

MAJOR CODE: 1305.01

Required courses	15
CH DEV 007 Introduction to Curriculum ECE	3
CH DEV 008 Curriculum in ECE	3
CH DEV 011 Child, Family, and Community	3
CH DEV 046 School Age Programs I	3
CH DEV 047 School Age Programs II	3

SPECIAL NEEDS CHILDREN (SC)

MAJOR CODE: 1305.20

Required courses	15
CH DEV 030 Infant and Toddler Studies I	3
CH DEV 031 Infant Studies II	3
CH DEV 034 Observing and Recording Children's Behavior	3
CH DEV 044 Early Intervention Children w/Special Needs	3
CH DEV 045 Programs for Children w/Special Needs	3

CINEMA

ARTS & PERFORMANCE DIVISION

CINEMA (SC)

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 short digital film.

Required courses	9
CINEMA 001 Introduction to Motion Picture Production	3
CINEMA 003 History of Motion Pictures	3
CINEMA 005 Introduction	3

Elective units (chosen from the following)	6
ART 639 Introduction to Digital Imaging	3
CINEMA 018 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 Intro to Multimedia Computer Applications	3
MULTIMD 210 Digital Editing	3
MULTIMD 320 Web Design	3

TOTAL 15

CLIMATE CHANGE AND ENVIRONMENTAL STUDIES SCIENCE DIVISION

The Associate in Arts degree in Climate Change and Environmental Studies is an interdisciplinary program designed to provide students with the background necessary to understand the impacts that climate change will have on their personal lives and careers, their local communities, our global society, and local to global ecosystems and environments. The degree is designed as a pathway for students wishing to transfer to Environmental Studies or other programs at four-year universities, or for students wishing to bring new expertise to their current careers. The Climate Change and Environmental Studies Associate Degree of Art requires satisfactory completion of all courses with a grade of "C" or better.

Program Learning Outcomes: Upon successful completion of this program, students will be able to...

- Explain how the climate system operates and how we can use data from the past and today to model future changes.
- Discuss the impact of human activity on the climate system.
- Evaluate and interpret qualitative and quantitative data from multiple science, social science, and humanities disciplines to make informed decisions about climate change and other environmental issues.

CLIMATE CHANGE AND ENVIRONMENTAL STUDIES (AA)

MAJOR CODE: 1901.00

Required courses	10
ENV SCI 024 Global Climate Change	3
PHILOS 028 Environmental Ethics	3
MATH 227 Statistics	4
Elective units list A	4
BIOLOGY 003 Introduction to Biology	4
BIOLOGY 010 Natural History I	4
Elective units list B	
(must include a lab component) 4-5	
CHEM 056 Chemistry for Non-science Majors	4
CHEM 060 Introduction to General Chemistry	5

EARTH 001 Earth Science 1	3
AND	
EARTH 002 Earth Science 2 Laboratory	2
GEOG 001 Physical Geography	3
AND	
GEOG 015 Physical Geography Lab	2
GEOLOGY 001 Physical Geology 1	3
AND	
GEOLOGY 006 Physical Geology Laboratory	2
Elective units list C	6
ANTHRO 102 Human Ways of Life:	
Cultural Anthropology	3
COMM 122 Intercultural Communication	3
ECON 001 Principles of Economics	3
ECON 011 Economics of Globalization	3
GEOG 002 Cultural Elements of Geography	3
GEOG 007 World Regional Geography	3
POL SCI 060 Introduction to Globalization	3
SOC 002 American Social Problems	3

Additional CSU GE or IGETC units 15-18
(37-39 units, minus 21-22 major units that may be double-counted as GE)

CSU-transferable elective units
17-21

TOTAL UNITS 60

COMMUNICATION STUDIES

LANGUAGE ARTS DIVISION

COMMUNICATION STUDIES (AA-T)

MAJOR CODE: 1506.00

The Associate of Arts degree in Communication Studies includes coursework that aligns with lower-division requirements for transfer to various universities within the University of California (UC) and California State University (CSU) systems.

Students interested in transferring to a four-year college or university may also consider the Associate of Arts degree in Liberal Arts and Sciences (Arts and Humanities emphasis). 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.

Degree and Certificate Program Descriptions

AA-T Associate in Arts Degree for Transfer	CA Certificate of Achievement
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AS Associate of Science degree	SC Skills Certificate (non-transcribed)

The Associate in Arts in Communication Studies for Transfer (AA-T) Degree prepares students for transfer into a Bachelor of Arts program in Communication Studies at a California State University (CSU). This degree aligns with the college's mission to provide a transfer pathway for student success.

This degree complies with The Student Transfer Achievement Reform Act (Senate Bill 1440). Information on which campuses accept this degree can be found at <http://www.sb1440.org/>.

Students who complete an ADT and transfer to a similar major at a CSU are guaranteed a pathway to finish their baccalaureate degrees in 60 semester or 90 quarter units. These degrees require students to meet both of the following requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district and meeting the requirements of an approved transfer model curriculum.
2. Obtainment of a minimum grade point average of 2.0.

Program Learning Outcomes: Upon successful completion of this program, students will be able to...

- Research and collect data on the demographics, needs and expectations of the audience.
- Analyze the audience and adjust to its needs when delivering a speech.
- Plan speeches that have clear purposes: to inform, to debate, to persuade or to resolve conflict.
- Employ effective interpersonal communication skills and strategies that foster improved relationships with other individuals in dyads or small groups.
- Apply critical thinking to formulating speeches and in assisting audiences in understanding, investigating or questioning the contents and purpose of a speech.
- Deliver speeches that incorporate a combination of verbal and non-verbal, written and/or visual and auditory expressions and media.
- Employ voice projection, enunciation, pacing, eye contact and other effective delivery strategies.
- Employ small group communication strategies.
- Employ relaxation techniques to prepare for delivery.
- Script a speech.

Required course	3
COMM 101 Oral Communication	3

Elective units, list A (chosen from the following)	6
COMM 104 Argumentation	3
COMM 121 Process of Interpersonal Communication	3
COMM 151 Small Group Communication	3

Elective units, list B (chosen from the following)	6
Any course from List A that has not already been used	
ART 635 Desktop Publishing Design	3
CINEMA 100 Intro to Motion Picture Production	3
COMM 122 Intercultural Communication	3

Elective units, list C (chosen from the following)	3
Any course from List A that has not already been used	
ANTHRO 102 Human Ways of Life: Cultural Anthropology	3
COMM 111 Voice and Articulation	3
ENGLISH 102 College Reading and Composition II	3
PSYCH 001 General Psychology	3
SOC 001 Introduction to Sociology	3

Additional CSU GE or IGETC units **25-36**
(37-39 units, minus 3-12 major units that may be double-counted as GE)

CSU-transferable elective units **6-17**

TOTAL **60**

COMMUNICATION STUDIES (AA)

MAJOR CODE: 1506.00

The Associate of Arts degree in Communication Studies includes coursework that aligns with lower-division requirements for transfer to various universities within the University of California (UC) and California State University (CSU) systems.

Program Learning Outcomes: Upon successful completion of this program, students will be able to...

- Research and collect data on the demographics, needs and expectations of the audience.
- Analyze the audience and adjust to its needs when delivering a speech.
- Plan speeches that have clear purposes: to inform, to debate, to persuade or to resolve conflict.
- Employ effective interpersonal communication skills and strategies that foster improved relationships with other individuals in dyads or small groups.
- Apply critical thinking to formulating speeches and in assisting audiences in understanding, investigating or questioning the contents and purpose of a speech.

Degree and Certificate Program Descriptions

- Deliver speeches that incorporate a combination of verbal and non-verbal, written and/or visual and auditory expressions and media.
- Employ voice projection, enunciation, pacing, eye contact and other effective delivery strategies.
- Employ small group communication strategies.
- Employ relaxation techniques to prepare for delivery.
- Script a speech.

Required courses	12
COMM 101 Oral Communication	3
COMM 104 Argumentation	3
COMM 121 Process of Interpersonal Communication	3
COMM 151 Small Group Communication	3

Electives units (chosen from the following)	9
ENGLISH 102 College Reading & Comprehension II	3
THEATER 200 Introduction to Acting	3
CINEMA 001 Intro to Motion Picture Production	3
ART 635 Desktop Publishing	3
ANTHRO 102 Human Ways of Life: Cultural Anthro	3
PSYCH 001 General Psychology	3
SOC 001 Introduction to Sociology	3
COMM 122 Intercultural Communication	3

Additional LACCD GE plan units 15
(21 units, minus 6 major units that may be double-counted as GE)

Degree-applicable elective units 24

TOTAL 60

COMPUTER APPLICATIONS OFFICE TECHNOLOGIES

COMPUTER SCIENCE & APPLICATION DIVISION

CAOT – GENERAL OFFICE (CA)

MAJOR CODE: 0514.00

This program is primarily designed for career & technical education and workforce training. This program prepares students for office administration occupation with emphasis on computer application office technologies such as word processing, electronic spreads sheet and computerized accounting.

Program Learning Outcomes: Upon successful completion of this program, students will be able to ...

- Use current and emerging computing technology to enhance business and individual productivity.
- Be proficient in the use of general computer application office technologies.
- Use Office suite of programs to solve typical business programs.

Required courses	27
ACCTG 001 Introductory Accounting I	5
ACCTG 025 Automated Accounting Methods and Procedures	3
BUS 001 Introduction to Business	3
BUS 031 Business English	3
BUS 032 Business Communications	3
CAOT 079 Word Processing Applications	3
CO SCI 901 Intro to Computers and Their Use	3
CO SCI 930 Microcomputer Application Software	4

LEGAL SECRETARY (CA)

MAJOR CODE: 0514.10

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

Program Learning Outcomes: Upon successful completion of this program, students will be able to...

- Use current and emerging computing technology to enhance business and individual productivities.
- Be proficient in the use of general and specialized computer software and used in law offices and the courts.
- Attend to details accurately in the preparation, perfection and assembly of appropriate forms, document, exhibits, and records.
- Be knowledgeable of legal terms and definitions, and applicable federal and state laws, as they may pertain to the specialty practiced.

Gainful Employment

To find information about the careers for which this certificate prepares you, the costs associated with the program, median debt accumulated by students completing the program, and time to completion, please visit the Gainful Employment Disclosure website at: <http://wlaac.edu/Gainful-Employment/index.aspx>.

Required courses	17
CAOT 023A Legal Secretarial Procedures IA	1
CAOT 023B Legal Secretarial Procedures IB	1
CAOT 023C Legal Secretarial Procedures IC	1

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CAOT 039	Word Processing: Keyboarding and Operations OR	3
CO SCI 901	Introduction to Computers and Their Use	3
CAOT 084	Microcomputer Office Applications: Word Processing OR	3
CAOT 085	Microcomputer Office Applications: Spreadsheet3	
CAOT 079	Word Processing Applications	3
CAOT 93	Legal Document Production	2
PARALEGAL 010	Intro to Law and Legal Profession	3

illustrate network security with industry leading network operating system.

Program Learning Outcomes: Upon successful completion of this program, students will be able to...

- Install, configure and manage industry standard computer operating system with security emphasis- Install, configure, manage and troubleshoot industry leading network systems
- Install and configure routers and switches internetwork operating systems
- Administer server network operating systems and infrastructure
- Understand a full range of security concepts & techniques and apply them to the network, application and information system
- Learn cloud technology and manage virtualized environments.

COMPUTER NETWORK AND SECURITY MANAGEMENT

COMPUTER SCIENCE & APPLICATION DIVISION

The Computer Science Information Technology programs provide instruction to students interested in careers in computing, systems administration, computer network & security, business application, web design & development and database administration.

A Computer Science Information Technology option, Computer Network & Security Management option and Web Support & Database Administration option are offered.

The degree and certificate program in Computer network and Security Management combines CompTIA, Microsoft system administration, CISCO networking, VMware virtualization technology and other in-demand IT certification training to help students develop skills to manage and maintain industry leading computer operating and network system with security emphasis.

Microsoft and Cisco network training at WLAC prepare students to pass Microsoft and Cisco certification exams. These industry-demand certifications are important to those who wish to pursue a career working with Microsoft and CISCO network. This program helps students build core foundation for Microsoft domain network and learn Cisco router configuration techniques.

These programs are also intended to help students develop skills to administer industry standards network and information system with security emphasis. The courses examine and

COMPUTER NETWORK AND SECURITY MANAGEMENT (AA)

MAJOR CODE: 0708.10

Required courses	21
CO SCI 934	Operating System 3
CO SCI 965	Intro to Computer Networks 3
CO SCI 972	Intro to Cisco Network Fundamentals 3
CO SCI 974	Intro to Cisco Routers 3
CO SCI 980	Intro to Computer Information Security I 3
CO SCI 982	Intro to Microsoft Server OS 3
CO SCI 985	Network & Info Security System 3
Electives units (chosen from the following)	9
CO SCI 185	Directed Study – Computer Science- Information Technology 1
CO SCI 285	Directed Study – Computer Science- Information Technology 2
CO SCI 901	Introduction to Computers and Their Use 3
CO SCI 916	Introduction to Computer Hardware 3
CO SCI 922	Computer Forensics 3
CO SCI 935	Introduction to Linux + 3
CO SCI 951	Apple Administration 3
CO SCI 967	Advanced Linux operating System and Applications 3
CO SCI 973	Virtualization and Cloud Computing Essentials 3
CO SCI 975	Information Storage and Management for Computer Networks 3
CO SCI 976	Vsphere Install, Configure, and Management 3

Consult a counselor to develop an educational plan.
Visit the Transfer Center for additional information about transferring.

Degree and Certificate Program Descriptions

CO SCI 977	Implementing a Virtual Desktop Infrastructure	3
CO SCI 983	Microsoft Network Infrastructure Administration	3
CO SCI 984	Introduction to Windows Active Directory Services	3
CO SCI 986	Palo Alto Network Cybersecurity Essentials	3
CO SCI 988	Installing, Configuring, and Administering Microsoft SQL	3
CO SCI 991	Computer Laboratory	1
Additional LACCD GE plan units		21
Degree-applicable elective units		9
TOTAL		60

COMPUTER NETWORK AND SECURITY MANAGEMENT (AS)

MAJOR CODE: 0708.10

Required courses		21
CO SCI 934	Operating System	3
CO SCI 965	Intro to Computer Networks	3
CO SCI 972	Intro to Cisco Network Fundamentals	3
CO SCI 974	Intro to Cisco Routers	3
CO SCI 980	Intro to Computer Information Security I	3
CO SCI 982	Intro to Microsoft Server OS	3
CO SCI 985	Network & Info Security System	3
Electives units (chosen from the following)		9
CO SCI 185	Directed Study – Computer Science-Information Technology	1
CO SCI 285	Directed Study – Computer Science-Information Technology	2
CO SCI 901	Introduction to Computers and Their Use	3
CO SCI 916	Introduction to Computer Hardware	3
CO SCI 922	Computer Forensics	3
CO SCI 935	Introduction to Linux +	3
CO SCI 951	Apple Administration	3
CO SCI 967	Advanced Linux operating System and Applications	3
CO SCI 973	Virtualization and Cloud Computing Essentials	3
CO SCI 975	Information Storage and Management for Computer Networks	3
CO SCI 976	Vsphere Install, Configure, and Management	3
CO SCI 977	Implementing a Virtual Desktop Infrastructure	3

CO SCI 983	Microsoft Network Infrastructure Administration	3
CO SCI 984	Introduction to Windows Active Directory Services	3
CO SCI 986	Palo Alto Network Cybersecurity Essentials	3
CO SCI 988	Installing, Configuring, and Administering Microsoft SQL	3
CO SCI 991	Computer Laboratory	1
Additional LACCD GE plan units		21
Degree-applicable elective units		9
TOTAL		60

COMPUTER NETWORK AND SECURITY MANAGEMENT (CA)

MAJOR CODE: 0708.10

Gainful Employment

To find information about the careers for which this certificate prepares you, the costs associated with the program, median debt accumulated by students completing the program, and time to completion, please visit the Gainful Employment Disclosure website at: <http://wlaac.edu/Gainful-Employment/index.aspx>.

Required courses		21
CO SCI 934	Operating System	3
CO SCI 965	Intro to Computer Networks	3
CO SCI 972	Intro to Cisco Network Fundamentals	3
CO SCI 974	Intro to Cisco Routers	3
CO SCI 980	Intro to Computer Information Security I	3
CO SCI 982	Intro to Microsoft Server OS	3
CO SCI 985	Network & Info Security System	3
Electives units (chosen from the following)		9
CO SCI 185	Directed Study – Computer Science-Information Technology	1
CO SCI 285	Directed Study – Computer Science-Information Technology	2
CO SCI 901	Introduction to Computers and Their Use	3
CO SCI 916	Introduction to Computer Hardware	3
CO SCI 922	Computer Forensics	3
CO SCI 935	Introduction to Linux +	3
CO SCI 951	Apple Administration	3
CO SCI 967	Advanced Linux operating System and Applications	3
CO SCI 973	Virtualization and Cloud Computing Essentials	3

Degree and Certificate Program Descriptions

AA-T Associate in Arts Degree for Transfer	CA Certificate of Achievement
AS-T Associate in Science Degree for Transfer	CN Certificate of Completion (noncredit)
AA Associate of Arts degree	CY Certificate of Competency (noncredit)
AS Associate of Science degree	SC Skills Certificate (non-transcribed)

CO SCI 975	Information Storage and Management for Computer Networks	3
CO SCI 976	Vsphere Install, Configure, and Management	3
CO SCI 977	Implementing a Virtual Desktop Infrastructure	3
CO SCI 983	Microsoft Network Infrastructure Administration	3
CO SCI 984	Introduction to Windows Active Directory Services	3
CO SCI 986	Palo Alto Network Cybersecurity Essentials	3
CO SCI 988	Installing, Configuring, and Administering Microsoft SQL	3
CO SCI 991	Computer Laboratory	1
TOTAL		30

- Use current and emerging computing technology to enhance business and individual productivities.
- Install, configure and administer computer network system.
- Install, configure and manage computer operating system with security settings.
- Design and develop web page, web site and web application
- Design, develop and administer an e-commerce system.
- Pursue continuing educational opportunities within the emerging field of computer technology.

COMPUTER SCIENCE INFORMATION TECHNOLOGY (AA)

MAJOR CODE: 0702.00

Computer science program is designed to give students a strong background in the fundamentals of Computer Science, software design and development. Students will be able to document Software System requirements and use different programming languages to design, implement, test and deploy Software Solutions to solve technical/business problems. The program also covers design, administer, and maintaining databases.

COMPUTER SCIENCE INFORMATION TECHNOLOGY

COMPUTER SCIENCE & APPLICATION DIVISION

Computer programmers write, test, and maintain the detailed instructions, called programs that computers must follow to perform their functions. Programmers also conceive, design, and test logical structures for solving problems by computer. Many technical innovations in programming—advanced computing technologies and sophisticated new languages and programming tools—have redefined the role of a programmer and elevated much of the programming work done today.

This major provides the student with the basic skills required of core computer science. Courses include programming in low-level and essential languages, data structures, database and web programming and network operating system fundamentals.

Students finishing this major are well equipped to work in the field of computer science as well as transfer to a four-year degree program in the area of Computer Science, Mathematics or Engineering.

Program Learning Outcomes: Upon successful completion of this program, students will be able to...

- Understand the system, assess the need, develop algorithm and create a program using computing technology.
- Design, administer and maintain a database system for an organization.

Required courses	22
CO SCI 902	Introduction to Computer Science 3
CO SCI 917	Beginning Micro-Assembly Language 3
CO SCI 934	Operating System 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 980	Intro to Computer Information Security I 3
CO SCI 990	Object-Oriented Programming in Java 4

Electives units (chosen from the following)	8
CO SCI 185	Directed Study – Computer Science- Information Technology 1
CO SCI 285	Directed Study – Computer Science- Information Technology 2
CO SCI 900	Introduction to Robotics 3
CO SCI 901	Introduction to Computers and Their Use 3
CO SCI 902	Introduction to Computer Science 3
CO SCI 903	Introduction to Python Programming 3
CO SCI 933	Database Design and Programming 3
CO SCI 934	Operating Systems 3
CO SCI 935	Introduction to Linux + 3

Consult a counselor to develop an educational plan.
Visit the Transfer Center for additional information about transferring.

Degree and Certificate Program Descriptions

CO SCI 938	Web Application Programming Using Visual Basic VB.NET	3
CO SCI 940	C++ Programming II	3
CO SCI 942	Discrete Structure	3
CO SCI 953	Database Management Using Oracle	3
CO SCI 955	Programming for Mobile Application	3
CO SCI 957	Introduction to Web Development HTML5 & CSS	3
CO SCI 958	Web Page Development	4
CO SCI 959	Advanced Programming for Mobile Devices	3
CO SCI 962	Web Programming Using JavaScript	4
CO SCI 963	Advanced Web Application Programming	3
CO SCI 967	Advanced Linux operating System and Applications	3
CO SCI 980	Introduction to Computer and Information Security I	3
CO SCI 988	Installing, Configuring, and Administering Microsoft SQL	3
Additional LACCD GE plan units		21
Degree-applicable elective units		9
TOTAL		60

COMPUTER SCIENCE INFORMATION TECHNOLOGY (CA)

MAJOR CODE: 0702.00

Computer science program is designed to give students a strong background in the fundamentals of Computer Science, software design and development. Students will be able to document Software System requirements and use different programming languages to design, implement, test and deploy Software Solutions to solve technical/business problems. The program also covers design, administer, and maintaining databases.

Gainful Employment

To find information about the careers for which this certificate prepares you, the costs associated with the program, median debt accumulated by students completing the program, and time to completion, please visit the Gainful Employment Disclosure website at: <http://wlaac.edu/Gainful-Employment/index.aspx>.

Required courses		22
CO SCI 902	Introduction to Computer Science	3
CO SCI 917	Beginning Micro-Assembly Language	3
CO SCI 934	Operating System	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 980	Intro to Computer Information Security I	3
CO SCI 990	Object-Oriented Programming in Java	4
Electives units (chosen from the following)		8
CO SCI 185	Directed Study – Computer Science-Information Technology	1
CO SCI 285	Directed Study – Computer Science-Information Technology	2
CO SCI 900	Introduction to Robotics	3
CO SCI 901	Introduction to Computers and Their Use	3
CO SCI 902	Introduction to Computer Science	3
CO SCI 933	Database Design and Programming	3
CO SCI 934	Operating Systems	3
CO SCI 935	Introduction to Linux +	3
CO SCI 938	Web Application Programming Using Visual Basic VB.NET	3
CO SCI 942	Discrete Structure	3
CO SCI 953	Database Management Using Oracle	3
CO SCI 955	Programming for Mobile Application	3
CO SCI 957	Introduction to Web Development HTML5 & CSS	3
CO SCI 958	Web Page Development	4
CO SCI 959	Advanced Programming for Mobile Devices	3
CO SCI 962	Web Programming Using JavaScript	4
CO SCI 963	Advanced Web Application Programming	3
CO SCI 967	Advanced Linux operating System and Applications	3
CO SCI 980	Introduction to Computer and Information Security I	3
CO SCI 988	Installing, Configuring, and Administering Microsoft SQL	3
TOTAL		30

COMPUTER RETAIL SALES AND SUPPORT (CA)

MAJOR CODE: 0708.00

The Computer Retail Sales and Support Certificate of Achievement is the first stage of the statewide IT Technician pathway and prepares students to develop their fundamental IT Technician Skills. While completing coursework in customer service, communication, Microsoft Office, and information systems coursework, along with earning the CompTIA A+ industry certification, students gain practical experience as they learn how to succeed in an IT retail environment. Upon completion of this program, students would be qualified for entry level IT positions such as Retail

Degree and Certificate Program Descriptions

AA-T Associate in Arts Degree for Transfer	CA Certificate of Achievement
AS-T Associate in Science Degree for Transfer	CN Certificate of Completion (noncredit)
AA Associate of Arts degree	CY Certificate of Competency (noncredit)
AS Associate of Science degree	SC Skills Certificate (non-transcribed)

Salespersons, Customer Service Representatives, Retail Sales Workers, and Sales Representatives.

Program Learning Outcomes: Upon successful completion of this program, students will be able to...

- Use current and emerging computing technology to enhance business and individual productivities.
- Create documents, presentations, spreadsheet and database for course work, professional purpose and personal use.
- Install and set up modern operating system, manage system resources and configure security settings.
- Install and set up modern operating system, manage system resources and configure security settings.

Gainful Employment

To find information about the careers for which this certificate prepares you, the costs associated with the program, median debt accumulated by students completing the program, and time to completion, please visit the Gainful Employment Disclosure website at: <http://wlac.edu/Gainful-Employment/index.aspx>.

Required courses	22
BUS 001 Introduction to Business	3
BUS 032 Business Communication	3
CAOT 048 Customer Service	3
CO SCI 901 Introduction to Computers and Their Uses	3
CO SCI 916 Introduction to Computer Hardware	3
CO SCI 930 Microcomputer Application Software	4
CO SCI 934 Operating Systems	3

CLOUD COMPUTING – AMAZON WEB SERVICES (CA)

MAJOR CODE: 0708.00

As cloud technologies continue to help organizations transform their businesses at a rapid pace, employees with the necessary cloud skills are in high demand. Industry research from Global Knowledge shows that two-thirds of IT decision-makers are reporting a gap between their team's skill levels and the knowledge required to achieve organizational objectives. AWS Academy is working to solve that problem. AWS Academy enables educational institutions like West to deliver curriculum and hands on learning experiences to prepare students for employment in cloud roles. Students will acquire AWS Cloud computing skills through hands-on practical experience and can prepare for AWS Certification needed to pursue industry jobs.

Gainful Employment

To find information about the careers for which this certificate prepares you, the costs associated with the program, median

debt accumulated by students completing the program, and time to completion, please visit the Gainful Employment Disclosure website at: <http://wlac.edu/Gainful-Employment/index.aspx>.

Required courses	12
CO SCI 923 Introduction to Amazon Web Services	3
CO SCI 924 Amazon Web Services – Data Storage	3
CO SCI 925 Amazon Web Services – Computing Services	3
CO SCI 926 Amazon Web Services - Security	3

COMPUTER WEB SUPPORT AND DATABASE ADMINISTRATION

COMPUTER SCIENCE & APPLICATION DIVISION

COMPUTER WEB SUPPORT AND DATABASE ADMINISTRATION (AA)

MAJOR CODE: 0709.00

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

This program is also intended for students interested in business application, database design & programming and e-commerce. Students will be instructed in designing and maintaining databases that are used to serve dynamic data to websites.

Program Learning Outcomes: Upon successful completion of this program, students will be able to...

- Understand how the Internet uses HTML, Client side and Server side scripting to build modern web sites.
- Design and maintain websites using HTML, CSS, and JavaScript.
- Design and develop web applications using ASP.Net, JavaScript and HTML5 technologies.
- Design and maintain databases that are used to server dynamic data to websites.
- Design and develop dynamic database applications using enterprise databases such as Oracle, Microsoft SQL Server and MySQL.

Degree and Certificate Program Descriptions

- Understand the core concepts in building an E-Commerce site that is published on the Internet.

Required courses	20
CO SCI 933 Database Design & Programming	3
CO SCI 953 Database Management Using Oracle	3
CO SCI 957 Introduction to Web Development	3
CO SCI 958 Web Page Development	4
CO SCI 962 Web Development with JAVA Script	4
CO SCI 988 Microsoft SQL Server	3

Elective units (chosen from the following)	11
CO SCI 185 Directed Study – Computer Science-Information Technology	1
CO SCI 285 Directed Study – Computer Science-Information Technology	2
CO SCI 937 E-commerce Essentials	3
CO SCI 938 Web Application Programming Using Visual Basic VB.NET	3
CO SCI 952 Introduction to Web Technology and Design	3
CO SCI 955 Programming for Mobile Application	3
CO SCI 959 Advanced Programming for Mobile Devices	3
CO SCI 963 Web Application Using ASP.net	3
CO SCI 967 Advanced Linux operating System and Applications	3
CO SCI 980 Introduction to Computer and Information Security I	3
CO SCI 988 Installing, Configuring, and Administering Microsoft SQL	3

Additional LACCD GE plan units 18
(21 units, minus 3 major units that may be double-counted as GE)

Degree-applicable elective units 11

TOTAL 60

COMPUTER WEB SUPPORT AND DATABASE ADMINISTRATION (AS)

MAJOR CODE: 0709.00

Required courses	20
CO SCI 933 Database Design & Programming	3
CO SCI 953 Database Management Using Oracle	3
CO SCI 957 Introduction to Web Development	3
CO SCI 958 Web Page Development	4
CO SCI 962 Web Development with JAVA Script	4
CO SCI 988 Microsoft SQL Server	3

Elective units (chosen from the following) 11

CO SCI 185	Directed Study – Computer Science-Information Technology	1
CO SCI 285	Directed Study – Computer Science-Information Technology	2
CO SCI 901	Introduction to Computers and Their Uses	3
CO SCI 937	E-commerce Essentials	3
CO SCI 938	Web Application Programming Using Visual Basic VB.NET	3
CO SCI 952	Introduction to Web Technology and Design	3
CO SCI 955	Programming for Mobile Application	3
CO SCI 959	Advanced Programming for Mobile Devices	3
CO SCI 963	Advanced Web Application Programming	3
CO SCI 967	Advanced Linux operating System and Applications	3
CO SCI 980	Introduction to Computer and Information Security I	3
CO SCI 988	Installing, Configuring, and Administering Microsoft SQL	3

Additional LACCD GE plan units 18
(21 units, minus 3 major units that may be double-counted as GE)

Degree-applicable elective units 11

TOTAL 60

COMPUTER WEB SUPPORT AND DATABASE ADMINISTRATION (CA)

MAJOR CODE: 0709.00

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

This program is also intended for students interested in business application, database design & programming and e-commerce. Students will be instructed in designing and maintaining databases that are used to serve dynamic data to websites.

Gainful Employment

To find information about the careers for which this certificate prepares you, the costs associated with the program, median debt accumulated by students completing the program, and time to completion, please visit the Gainful Employment Disclosure website at: <http://wlaac.edu/Gainful-Employment/index.aspx>.

Degree and Certificate Program Descriptions

AA-T Associate in Arts Degree for Transfer	CA Certificate of Achievement
AS-T Associate in Science Degree for Transfer	CN Certificate of Completion (noncredit)
AA Associate of Arts degree	CY Certificate of Competency (noncredit)
AS Associate of Science degree	SC Skills Certificate (non-transcribed)

Required courses	20
CO SCI 933 Database Design & Programming	3
CO SCI 953 Database Management Using Oracle	3
CO SCI 957 Introduction to Web Development	3
CO SCI 958 Web Page Development	4
CO SCI 962 Web Development with JAVA Script	4
CO SCI 988 Microsoft SQL Server	3
Elective units (chosen from the following)	11
CO SCI 185 Directed Study – Computer Science-Information Technology	1
CO SCI 285 Directed Study – Computer Science-Information Technology	2
CO SCI 901 Introduction to Computers and Their Uses	3
CO SCI 937 E-commerce Essentials	3
CO SCI 938 Web Application Programming Using Visual Basic VB.NET	3
CO SCI 952 Introduction to Web Technology and Design	3
CO SCI 955 Programming for Mobile Application	3
CO SCI 959 Advanced Programming for Mobile Devices	3
CO SCI 963 Advanced Web Application Programming	3
CO SCI 967 Advanced Linux operating System and Applications	3
CO SCI 980 Introduction to Computer and Information Security I	3
CO SCI 988 Installing, Configuring, and Administering Microsoft SQL	3
TOTAL	31

BUSINESS APPLICATION & DATABASE MANAGEMENT (CA)

MAJOR CODE: 0701.00

This program is intended for students interested in business application, database design & programming and e-commerce. Students will be instructed in designing and maintaining databases that are used to serve dynamic data to websites.

Gainful Employment

To find information about the careers for which this certificate prepares you, the costs associated with the program, median debt accumulated by students completing the program, and time to completion, please visit the Gainful Employment Disclosure website at: <http://wlaac.edu/Gainful-Employment/index.aspx>.

Required courses	9
CO SCI 933 Database Design & Programming	3
CO SCI 953 Database Management Using Oracle	3

CO SCI 988 Microsoft SQL Server	3
Elective units (chosen from the following)	7
CO SCI 185 Directed Study – Computer Science-Information Technology	1
CO SCI 285 Directed Study – Computer Science-Information Technology	2
CO SCI 901 Introduction to Computers and Their Uses	3
CO SCI 930 Microcomputer Application Software	4
CO SCI 937 E-Commerce Essentials	3
CO SCI 938 Web Application Programming Using Visual Basic VB.NET	3
CO SCI 948 Advanced Spreadsheet	3
CO SCI 955 Programming for Mobile Application	3
CO SCI 958 Web Page Development	4
CO SCI 959 Advanced Programming for Mobile Devices	3
CO SCI 967 Advanced Linux operating System and Applications	3
CO SCI 980 Introduction to Computer and Information Security I	3
TOTAL	16

COMPUTER NETWORK MANAGEMENT (CA)

MAJOR CODE: 0708.10

Microsoft and Cisco network training at WLAC prepare students to pass Microsoft and Cisco certification exams. These industry-demand certifications are important to those who wish to pursue a career working with Microsoft and CISCO network. This program helps students build core foundation for Microsoft domain network and learn Cisco router configuration techniques.

Gainful Employment

To find information about the careers for which this certificate prepares you, the costs associated with the program, median debt accumulated by students completing the program, and time to completion, please visit the Gainful Employment Disclosure website at: <http://wlaac.edu/Gainful-Employment/index.aspx>.

Required courses	9
CO SCI 972 Intro to Cisco Network Fundamentals	3
CO SCI 982 Intro to Microsoft Server OS	3
CO SCI 974 Intro to Cisco Routers	3

Elective units (chosen from the following)	8
CO SCI 185 Directed Study – Computer Science-Information Technology	1
CO SCI 285 Directed Study – Computer Science-Information Technology	2

Degree and Certificate Program Descriptions

CO SCI 385	Directed Study – Computer Science- Information Technology	3
CO SCI 916	Introduction to Computer Hardware	3
CO SCI 934	Operating Systems	3
CO SCI 951	Apple Administration	3
CO SCI 967	Advanced Linux operating System and Applications	3
CO SCI 973	Virtualization and Cloud Computing Essentials	3
CO SCI 975	Information Storage and Management for Computer Networks	3
CO SCI 976	Vsphere Install, Configure, and Management	3
CO SCI 977	Implementing a Virtual Desktop Infrastructure	3
CO SCI 980	Introduction to Computer and Information Security I	3
CO SCI 983	Microsoft Network Infrastructure Administration	3
CO SCI 984	Introduction to Windows Active Directory Services	3
CO SCI 985	Network and Information System Security	3
CO SCI 986	Palo Alto Network Cybersecurity Essentials	3
CO SCI 987	VMware VSphere: Installation, Configuration and Management	3
CO SCI 991	Computer Laboratory	1
TOTAL		17

MOBILE APPLICATION DEVELOPMENT (CA)

MAJOR CODE: 0707.10

The Certificate of Achievement in Mobile Application Development provides students with a high quality education that prepares them for professional career in mobile Application development. The curriculum prepares students to develop mobile application for popular platforms such as Android and Apple IOS. Students will be able to pursue careers in the following areas such as software engineer, web and mobile application developer.

This program of study is designed to prepare students to work successfully as a member of a Mobile Application Development team. Upon completion of the required courses, the students can apply for Certificate of Achievement in Mobile Application Development.

Required courses		15
CO SCI 939	Programming in C	3
CO SCI 955	Programming for Mobile App	3
CO SCI 957	Intro to Web Develop HTML & CSS	3
CO SCI 959	Advanced Programming for Android	3
CO SCI 990	Object Oriented Programming Java	3

NETWORK & INFORMATION SYSTEM SECURITY (CA)

MAJOR CODE: 0708.10

This program is intended to help students develop skills to administer industry standards network and information system with security emphasis. The courses examine and illustrate network security with industry leading network operating system. This program is also designed to help students prepare to complete CompTIA security+ certification exam.

Gainful Employment

To find information about the careers for which this certificate prepares you, the costs associated with the program, median debt accumulated by students completing the program, and time to completion, please visit the Gainful Employment Disclosure website at: <http://wlaac.edu/Gainful-Employment/index.aspx>.

Required courses		9
CO SCI 965	Introduction to Computer Networks	3
CO SCI 980	Intro to Computer & Info Security I	3
CO SCI 985	Network & Info System Security	3
CO SCI Electives	Choose CO SCI Electives*	7

Elective units (chosen from the following)		7
CO SCI 185	Directed Study – Computer Science- Information Technology	1
CO SCI 285	Directed Study – Computer Science- Information Technology	2
CO SCI 385	Directed Study – Computer Science- Information Technology	3
CO SCI 916	Introduction to Computer Hardware	3
CO SCI 922	Computer Forensics	3
CO SCI 934	Operating Systems	3
CO SCI 951	Apple Administration	3
CO SCI 967	Advanced Linux operating System and Applications	3
CO SCI 973	Virtualization and Cloud Computing Essentials	3
CO SCI 975	Information Storage and Management for Computer Networks	3
CO SCI 976	VSphere Install, Configure, and Management	3
CO SCI 977	Implementing a Virtual Desktop Infrastructure	3
CO SCI 980	Introduction to Computer and Information Security I	3
CO SCI 983	Microsoft Network Infrastructure Administration	3
CO SCI 984	Introduction to Windows Active Directory Services	3
CO SCI 985	Network and Information System Security	3

Degree and Certificate Program Descriptions

AA-T Associate in Arts Degree for Transfer	CA Certificate of Achievement
AS-T Associate in Science Degree for Transfer	CN Certificate of Completion (noncredit)
AA Associate of Arts degree	CY Certificate of Competency (noncredit)
AS Associate of Science degree	SC Skills Certificate (non-transcribed)

CO SCI 986	Palo Alto Network Cybersecurity Essentials	3
CO SCI 991	Computer Laboratory	1
TOTAL		16

WEB SUPPORT & ADMINISTRATION (CA)

MAJOR CODE: 0709.00

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

Gainful Employment

To find information about the careers for which this certificate prepares you, the costs associated with the program, median debt accumulated by students completing the program, and time to completion, please visit the Gainful Employment Disclosure website at: <http://wlaac.edu/Gainful-Employment/index.aspx>.

Required courses		11
CO SCI 957	Intro to Web Page Development	3
CO SCI 958	Web Development Using HTML	4
CO SCI 962	Web Programming Using JavaScript	4
Elective units (chosen from the following)		6
CO SCI 185	Directed Study – Computer Science-Information Technology	1
CO SCI 285	Directed Study – Computer Science-Information Technology	2
CO SCI 937	E-commerce Essentials	3
CO SCI 938	Web Application Programming VB.net	3
CO SCI 948	Advanced Spreadsheet	3
CO SCI 952	Introduction to Web Technology and Design	3
CO SCI 955	Programming for Mobile Application	3
CO SCI 963	Advanced Web Application Programming	3
CO SCI 967	Advanced Linux operating System and Applications	3
CO SCI 980	Introduction to Computer and Information Security I	3
CO SCI 990	Object Oriented Programming Java	3
TOTAL		17

CORRECTIONS

BEHAVIORAL SCIENCE DIVISION

(Also see ADMINISTRATION OF JUSTICE)

CORRECTIONS (SC)

MAJOR CODE: 2105.10

Required courses		15
ADM JUS 008	Juvenile Procedures	3
ADM JUS 039	Probation and Parole	3
ADM JUS 075	Introduction to Corrections	3
ADM JUS 309	Correctional Interviewing & Counseling	3
CORR 002	Correctional Institutions	3

DENTAL ASSISTING

HEALTH SCIENCES DIVISION

(Also see any of the following health industry programs)

ADDICTION STUDIES
ALLIED HEALTH
DENTAL HYGIENE (BS)
HEALTH SCIENCE
MEDICAL ASSISTING
PARAMEDICINE
PARAMEDIC
PUBLIC HEALTH

The Dental Assistant Program is designed to prepare students to work successfully as a member of the dental team.

Dental Assistants can work in a variety of settings such as dental offices of general dentists and dental specialists, dental schools, private and government hospitals and clinics, state and local public health departments.

Upon completion of the program the dental assistant student will be prepared to:

- Provide comprehensive dental assisting care to individuals from diverse socioeconomic, educational, and cultural backgrounds according to state regulations in a safe and ethical manner.
- Assist in the clinical setting with dental treatment procedures while assuming responsibility for prevention of disease transmission in the work environment. Responsibilities include: using dental instruments and materials, taking and processing dental radiographs, taking impressions and performing many other dental