

AA-T	Associate in Art 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-transcripted)

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.

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 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

DEGREE AND CERTIFICATE PROGRAM REQUIREMENTS

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

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 courses24

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 units34-36

(37-39 units, minus 3 major units that may be double-counted as GE)

CSU-transferable elective units0-2

TOTAL **60**

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SC	Skills Certificate (non-transcripted)

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.....3
	AND
FAM &CS 021	Nutrition .....3

Infant Studies:

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

Administration and Supervision:

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

Special Needs:

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

School Age Programs:

CH DEV 046	School Age Programs I.....3
	AND
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://wlaac.edu/Gainful-Employment/index.aspx>.

Required courses28

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 DEV 023	Practicum in Child Development II..... 4
CH DEV 030	Infant and Toddler Studies I..... 3
CH DEV 031	Infant and Toddler Studies II..... 3
CH DEV 034	Observing and Recording Children's Behavior 3
CH DEV 038	Administration & Supervision of Early Childhood Programs I 3
CH DEV 039	Administration & Supervision of Early Childhood Programs II 3
CH DEV 046	School Age Programs I 3
CH DEV 047	School Age Programs I 3

TOTAL31-32

DEGREE AND CERTIFICATE PROGRAM REQUIREMENTS

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

ADMINISTRATION AND SUPERVISION OF EARLY CHILDHOOD PROGRAMS (SC)

MAJOR CODE: 1305.13

Required courses 17

CH DEV 007	Introduction to Curriculum ECE	3
	OR	
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

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

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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: 0302.00

Required courses 10

ENV SCI 024	Global Climate Change	3
PHILOS 028	Environmental Ethics	3
MATH 227	Statistics	4

Elective units list A (Select 1) 4

BIOLOGY 003	Introduction to Biology	4
	OR	
BIOLOGY 003A	Introduction to Biology-Lecture	3
	AND	
BIOLOGY 003B	Introduction to Biology-Laboratory	1
BIOLOGY 010	Natural History I	4

Elective units list B (Select 1-2) (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

DEGREE AND CERTIFICATE PROGRAM REQUIREMENTS

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

GEOLOGY 001	Physical Geology 1	3
	AND	
GEOLOGY 006	Physical Geology Laboratory	2
Elective units list C (Select 2)		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.

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 course3

AA-T	Associate in Art Degree for Transfer
AS-T	Associate in Science Degree for Transfer
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COMM 101 Public Speaking3

Elective units, list A (chosen from the following)..... 6

COMM 104 Argumentation and Debate3
 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 001 Intro to Motion Picture Production3
 COMM 122 Intercultural Communication3

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 Anthropology3
 COMM 190 Communication and New Media3
 ENGLISH 102 College Reading and Composition II3
 PSYCH 001 General Psychology.....3
 SOC 001 Introduction to Sociology3

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.
- 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 Public Speaking 3
 COMM 104 Argumentation and Debate 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 Design 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

DEGREE AND CERTIFICATE PROGRAM REQUIREMENTS

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

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
CIS 101* (formerly Co Sci 901)	Introduction to Computers and Their Uses	3
CIS 104* (formerly Co Sci 930)	Microcomputer Applications 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
CAOT 039	Word Processing: Keyboarding and Operations.....	3
	OR	
CIS 101* (formerly Co Sci 901)	Introduction to Computers and Their Uses	3
CAOT 084	Microcomputer Office Applications: Word Processing.....	3
	OR	
CAOT 085	Microcomputer Office Applications: Spreadsheet	3
CAOT 079	Word Processing Applications	3
CAOT 93	Legal Document Production	2
PARALEGAL 010	Intro to Law and Legal Profession	3

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COMPUTER SCIENCE AND COMPUTER INFORMATION SYSTEMS

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.

Three broad options are offered within Computer Science and Computer Information Systems:

- A Computer Science Information Technology option
- Computer Network & Security Management option
- Web Support & Database Administration option

Both AA and AS degrees, in addition to Certificates of Achievement, are offered within the three options. The general degree requirements are as follows:

- AA degree:
 - 30 units of major courses
 - 21 units of G.E. courses
 - 9 units of any **GE** / CS / CIS courses
- AS degree:
 - 30 units of major courses
 - 18 units of G.E. courses
 - 12 units of any CS / CIS courses

New Computer Science Disciplines and Course Numbers

Computer Science Realignment: Students should enroll in the new course number effective spring 2020.

CS = Computer Science,
CIS = Computer Information System,
MIT = Manufacturing Industrial Technology

Formerly	New Course Number
Co Sci 185	CIS 185
Co Sci 285	CIS 285
Co Sci 900	MIT220
Co Sci 901	CIS 101
Co Sci 902	CS 101
Co Sci 903	CS 119
Co Sci 916	CIS 212
Co Sci 917	CS 118
Co Sci 922	CIS 166
Co Sci 930	CIS 104
Co Sci 933	CIS 120
Co Sci 934	CIS 213
Co Sci 935	CIS 113
Co Sci 936	CS 136
Co Sci 937	CIS 190
Co Sci 939	CS 116
Co Sci 940	CS 216
Co Sci 942	CS 131
Co Sci 951	CIS 110
Co Sci 952	CIS 147
Co Sci 953	CIS 219
Co Sci 955	CS 140
Co Sci 957	CIS 148
Co Sci 958	CIS 150
Co Sci 959	CS 141
Co Sci 965	CIS 214
Co Sci 967	CIS 115
Co Sci 972	CIS 229
Co Sci 973	CIS 231
Co Sci 974	CIS 230
Co Sci 975	CIS 232
Co Sci 976	CIS 233
Co Sci 980	CIS 211
Co Sci 982	CIS 227
Co Sci 983	CIS 217
Co Sci 984	CIS 218
Co Sci 985	CIS 215
Co Sci 986	CIS 236
Co Sci 987	CIS 235
Co Sci 988	CIS 237
Co Sci 990	CS 213
Co Sci 991	CIS 300

DEGREE AND CERTIFICATE PROGRAM REQUIREMENTS

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

Formerly	New Course Number
Co Info 923	CIS 192
Co Info 924	CIS 193
Co Info 925	CIS 194
Co Info 926	CIS 195

COMPUTER NETWORK AND SECURITY MANAGEMENT

COMPUTER SCIENCE & APPLICATION DIVISION

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 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 (AA)

MAJOR CODE: 0708.10

Required courses21

CIS 213	A+ Certification Preparation-Software.....	3
CIS 214	Intro to Network +.....	3
CIS 229	Intro to CISCO Network Fundamentals ..	3
CIS 230	Intro to Cisco Routers	3
CIS 211	Security+ Certification Preparation	3
CIS 227	Server Admin and Network Security	3
CIS 215	Network Security Fundamentals	3

Electives units (chosen from the following)9

CIS 185	Directed Study.....	1
CIS 285	Directed Study.....	2
CIS 101	Intro to Computers and Their Uses	3
CIS 212	A+ Certification Preparation-Hardware ...	3
CIS 166	Computer Forensics I.....	3
CIS 113	Intermediate Linux	3
CIS 110	Apple Administration	3
CIS 115	Advanced Linux and Application	3
CIS 231	Virtualization and Cloud Computing Essentials.....	3
CIS 232	Information Storage and Management for Computer Networks	3
CIS 233	VSphere Install, Configure and Management	3
CIS 217	Microsoft Network Infrastructure Admin..	3
CIS 218	Intro to Windows Active Directory Services	3
CIS 236	Palo Alto Cyber Security Essentials.....	3
CIS 237	Install, Conf, Administer MS SLQ	3
CIS 300	Computer Laboratory	1

Additional LACCD GE plan units21

Elective units any GE/CS/CIS9

TOTAL60

AA-T	Associate in Art Degree for Transfer
AS-T	Associate in Science Degree for Transfer
AA	Associate of Arts degree
AS	Associate of Science degree

CA	Certificate of Achievement
CN	Certificate of Completion (noncredit)
CY	Certificate of Competency (noncredit)
SC	Skills Certificate (non-transcripted)

COMPUTER NETWORK AND SECURITY MANAGEMENT (AS)

MAJOR CODE: 0708.10

Required courses..... 21

CIS 213	A+ Certification Prep Software	3
CIS 214	Intro to Network +	3
CIS 229	Intro to CISCO Network Fundamentals ...	3
CIS 230	Intro to Cisco Routers	3
CIS 211	Security+ Certification Preparation	3
CIS 227	Server Admin and Network Security	3
CIS 215	Network Security Fundamentals	3

Electives units (chosen from the following)..... 9

CIS 185	Directed Study	1
CIS 285	Directed Study	2
CIS 101	Intro to Computers and Their Uses	3
CIS 212	A+ Certification Preparation-Hardware	3
CIS 166	Computer Forensics I	3
CIS 113	Intermediate Linux	3
CIS 110	Apple Administration	3
CIS 115	Advanced Linux and Application	3
CIS 231	Virtualization and Cloud Computing Essentials	3
CIS 232	Information Storage and Management for Computer Networks	3
CIS 233	VSphere Install, Configure and Management	3
CIS 217	Microsoft Network Infrastructure	3
CIS 218	Intro to Windows Active Directory Services	3
CIS 236	Palo Alto Cyber Security Essentials	3
CIS 237	Install, Configure and Administer Microsoft SLQ	3
CIS 300	Computer Laboratory	1

Additional LACCD GE plan units..... 18

Elective units any CS/CIS..... 12

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

CIS 213	A+ Certification Preparation-Software.....	3
CIS 214	Intro to Network +	3
CIS 229	Intro to CISCO Network Fundamentals ..	3
CIS 230	Intro to Cisco Routers	3
CIS 211	Security+ Certification Preparation	3
CIS 227	Server Admin and Network Security	3
CIS 215	Network Security Fundamentals	3

Electives units (chosen from the following)..... 9

CIS 185	Directed Study.....	1
CIS 285	Directed Study.....	2
CIS 101	Intro to Computers and Their Uses	3
CIS 212	A+ Certification Preparation-Hardware ...	3
CIS 166	Computer Forensics I.....	3
CIS 113	Intermediate Linux	3
CIS 110	Apple Administration	3
CIS 115	Advanced Linux and Application	3
CIS 231	Virtualization and Cloud Computing Essentials.....	3
CIS 232	Information Storage and Management for Computer Networks	3
CIS 233	VSphere Install, Configure and Management	3
CIS 217	Microsoft Network Infrastructure Admin ..	3
CIS 218	Intro to Windows Active Directory Services	3
CIS 236	Palo Alto Cyber Security Essentials.....	3
CIS 237	Install, Configure and Administer Microsoft SLQ	3
CIS 300	Computer Laboratory	1

TOTAL **30**

DEGREE AND CERTIFICATE PROGRAM REQUIREMENTS

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

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.

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/develop/implement/test software program which demonstrate the use of classes, object and file operations to solve business & scientific problems using C++ and Java language.
- Use current and emerging computing technology to enhance business and individual productivities.
- 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.

Required courses..... 21

CS 101	Introduction to Computer Science	3
CS 118	Microcomputer Assembly Language	3
CIS 213	A+ Certification Preparation-Software OR	
CIS 113	Intermediate Linux.....	3
CS 136	Introduction to Data Structures	3
CS 116	Programming in C	3
CIS 211	Security+ Certification Preparation	3
CS 213	Advanced Programing in Java	3

Electives units (chosen from the following).....9

CIS 185	Directed Study.....	1
CIS 285	Directed Study.....	2
MIT220	Introduction to Robotics	3
CIS 101	Intro to Computers and Their Uses	3
CS 101	Introduction to Computer Science	3
CS 119	Programming in Python.....	3
CIS 120	Introduction to Databases	3
CIS 213	A+ Certification Preparation Software	3
CIS 113	Intermediate Linux	3
CS 216	Object Oriented Programming in C++	3
CS 131	Discrete Structure	3
CIS 219	Intro to Oracle: SQL and PL/SQL	3
CS 140	Programming for Mobile Devices	3
CIS 148	Introduction to Web Development HTML5 & CSS.....	3
CIS 150	Advanced Website Dev. using Java script and Ajax.....	4
CS 141	Advanced Programming for Mobile Devices	3
CIS 115	Advanced Linux and Application	3
CIS 211	Introduction to Computer and Information Security I	3
CIS 237	Install, Configure and Administer Microsoft SLQ	3

Additional LACCD GE plan units21

Elective units any CS/CIS.....9

TOTAL60

AA-T	Associate in Art Degree for Transfer
AS-T	Associate in Science Degree for Transfer
AA	Associate of Arts degree
AS	Associate of Science degree

CA	Certificate of Achievement
CN	Certificate of Completion (noncredit)
CY	Certificate of Competency (noncredit)
SC	Skills Certificate (non-transcripted)

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://wlac.edu/Gainful-Employment/index.aspx>.

Required courses..... 21

CS 101	Introduction to Computer Science	3
CS 118	Microcomputer Assembly Language	3
CIS 213	A+ Certification Preparation-Software OR	
CIS 113	Intermediate Linux	3
CS 136	Introduction to Data Structures	3
CS 116	Programming in C	3
CIS 211	Security+ Certification Preparation	3
CS 213	Advanced Programing in Java	3

Electives units (chosen from the following)..... 9

CIS 185	Directed Study	1
CIS 285	Directed Study	2
MIT220	Introduction to Robotics	3
CIS 101	Intro to Computers and Their Uses	3
CS 101	Introduction to Computer Science	3
CIS 120	Introduction to Databases.....	3
CIS 213	Operating Systems	3
CIS 113	Intermediate Linux	3
CS 131	Discrete Structure	3
CIS 219	Intro to Oracle: SQL and PL/SQL	3
CS 140	Programming for Mobile Devices	3
CIS 148	Introduction to Web Development HTML5 & CSS	3
CIS 150	Advanced Website Dev. using Java script and Ajax.....	4
CS 141	Advanced Programming for Mobile Devices	3
CIS 115	Advanced Linux and Application	3

CIS 211	Introduction to Computer and Information Security I	3
CIS 237	Install, Configure and Administer Microsoft SLQ	3
TOTAL	.....	30

COMPUTER RETAIL SALES AND SUPPORT ITTP STAGE I (CA)

MAJOR CODE: 0708.00

Corrections made 9/22/2020

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 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
CIS 101	Intro to Computers and Their Uses.....	3

DEGREE AND CERTIFICATE PROGRAM REQUIREMENTS

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

CIS 212	A+ Preparation-Hardware.....	3
CIS 104	Microcomputer Application Software	4
CIS 213	A+ Preparation-Software	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://wlaac.edu/Gainful-Employment/index.aspx>.

Required courses..... 12

CIS 192	Introduction to Amazon Web Services	3
CIS 193	Amazon Web Services – Data Storage ...	3
CIS 194	Amazon Web Services – Computing Services	3
CIS 195	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.
- Understand the core concepts in building an E-Commerce site that is published on the Internet.

Required courses 16

CIS 120	Database Design & Programming	3
CIS 219	Intro to Oracle: SQL and PL/SQL	3
CIS 148	Introduction to Web Development.....	3
CIS 150	Advanced Website Dev. Using Java script and Ajax	4
CIS 237	Microsoft SQL Server	3

AA-T	Associate in Art 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-transcripted)

Elective units (chosen from the following).....	15
CIS 185	Directed Study .....1
CIS 285	Directed Study .....2
CIS 190	E-commerce Essentials .....3
CIS 147	Introduction to Web Page Design .....3
CS 140	Programming for Mobile Devices .....3
CS 141	Advanced Programming for Mobile Devices .....3
CIS 115	Advanced Linux and Application .....3
CIS 211	Introduction to Computer and Information Security I .....3
CIS 237	Install, Configure and Administer Microsoft SLQ .....3
Additional LACCD GE plan units.....	21
Degree-applicable elective units	9
TOTAL	61

COMPUTER WEB SUPPORT AND DATABASE ADMINISTRATION (AS)

MAJOR CODE: 0709.00

Required courses.....	16
CIS 120	Database Design & Programming .....3
CIS 219	Intro to Oracle: SQL and PL/SQL .....3
CIS 148	Introduction to Web Development .....3
CIS 150	Advanced Website Dev. using Java script and Ajax .....4
CIS 237	Microsoft SQL Server .....3
Elective units (chosen from the following).....	15
CO SCI 185	Directed Study – Computer Science- Information Technology .....1
CO SCI 285	Directed Study – Computer Science- Information Technology .....2
CIS 185	Directed Study .....1
CIS 285	Directed Study .....2
CIS 101	Intro to Computers and Their Uses s .....3
CIS 190	E-commerce Essentials .....3
CIS 147	Introduction to Web Page Design .....3
CS 140	Programming for Mobile Devices .....3
CS 141	Advanced Programming for Mobile Devices .....3
CIS 115	Advanced Linux and Application .....3

CIS 211	Introduction to Computer and Information Security I 3
CIS 237	Install, Configure and Administer Microsoft SLQ 3
Additional LACCD GE plan units	18
Elective units any CS/CIS courses	9
TOTAL	61

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>.

Required courses	16
CIS 120	Database Design & Programming 3
CIS 219	Intro to Oracle: SQL and PL/SQL 3
CIS 148	Introduction to Web Development..... 3
CIS 150	Advanced Website Dev. using Java script and Ajax 4
CIS 237	Microsoft SQL Server..... 3
Elective units (chosen from the following)	15
CIS 185	Directed Study..... 1
CIS 285	Directed Study..... 2
CIS 101	Intro to Computers and Their Uses s 3
CIS 190	E-commerce Essentials 3
CIS 147	Introduction to Web Page Design 3
CS 140	Programming for Mobile Devices 3

DEGREE AND CERTIFICATE PROGRAM REQUIREMENTS

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

CS 141	Advanced Programming for Mobile Devices	3
CIS 115	Advanced Linux and Application	3
CIS 211	Introduction to Computer and Information Security I.....	3
CIS 237	Install, Configure and Administer Microsoft SLQ (CIS120).....	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://wlac.edu/Gainful-Employment/index.aspx>.

Required courses..... 9

CIS 120	Database Design & Programming	3
CIS 219	Intro to Oracle: SQL and PL/SQL	3
CIS 237	Microsoft SQL Server	3

Elective units (chosen from the following)..... 7

CIS 185	Directed Study	1
CIS 285	Directed Study	2
CIS 101	Intro to Computers and Their Uses s.....	3
CIS 104	Microcomputer Application Software	4
CIS 190	E-Commerce Essentials	3
CS 140	Programming for Mobile Devices	3
CIS 150	Advanced Website Dev. using Java script and Ajax	4
CS 141	Advanced Programming for Mobile Devices	3
CIS 115	Advanced Linux and Application	3
CIS 211	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://wlac.edu/Gainful-Employment/index.aspx>.

Required courses..... 9

CIS 229	Intro to CISCO Network Fundamentals ..	3
CIS 227	Intro to Microsoft Server OS	3
CIS 230	Intro to Cisco Routers	3

Elective units (chosen from the following)..... 8

CIS 185	Directed Study.....	1
CIS 285	Directed Study.....	2
CIS 212	A+ Certification Preparation-Hardware ...	3
CIS 213	A+ Certification Preparation-Software.....	3
CIS 110	Apple Administration	3
CIS 115	Advanced Linux and Application	3
CIS 231	Virtualization and Cloud Computing Essentials.....	3
CIS 232	Information Storage and Management for Computer Networks	3
CIS 233	VSphere Install, Configure and Management	3
CIS 211	Security+ Preparation	3
CIS 217	Microsoft Network Infrast Admin	3
CIS 218	Intro to Windows Active Directory Services	3
CIS 215	Network Security Fundamentals	3
CIS 236	Palo Alto Cyber Security Essen	3
CIS 235	VMware VSphere: Installation, Configuration and Management.....	3
CIS 300	Computer Laboratory	1

TOTAL..... 17

AA-T	Associate in Art Degree for Transfer
AS-T	Associate in Science Degree for Transfer
AA	Associate of Arts degree
AS	Associate of Science degree

CA	Certificate of Achievement
CN	Certificate of Completion (noncredit)
CY	Certificate of Competency (noncredit)
SC	Skills Certificate (non-transcripted)

MOBILE APPLICATION DEVELOPMENT ESSENTIALS (CA)

MAJOR CODE: 0707.10

The Certificate of Achievement in Mobile Application Development Essentials 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 Essentials.

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

- Design and develop, implement various mobile applications for platforms such as iOS.
- Understand how to design various screens, navigation between screens, events and event handling for a mobile application.
- Deploy the mobile applications to mobile app stores.

Required courses 9

CS 101	Introduction to Computer Science .....3
CIS 148	Introduction to Web Development Using HTML and CSS .....3
CS 140	Programming for Mobile Devices.....3

MOBILE APPLICATION DEVELOPMENT (CA)

MAJOR CODE: 0707.10

The Certificate of Achievement in Mobile Application Development responds to the growing demand for highly skilled Mobile Application Developers. Large and small corporations, businesses, non-profit organizations, and civic and governmental agencies are rushing to ensure that their customers have direct access to their services and products through mobile applications. Smartphone applications are points of sale for many transactions. There is a growing imperative to develop mobile applications so that consumers can access services/products from anywhere, anytime. This has created a wide range of employment opportunities and options for individuals who have the ability to develop these

mobile applications. West Los Angeles College will tap into this market and help students learn mobile application development so that they can succeed in their career and educational goals.

Required courses 15

CIS 148	Introduction to Web Development Using HTML and CSS..... 3
CS 116	Programming in C 3
CS 140	Programming for Mobile Devices 3
CS 141	Advanced Programming for Mobile Devices (Android)..... 3
CS 213	Object Oriented Programming in 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

CIS 214	Introduction to Computer Networks 3
CIS 211	Security+ Certification Preparation 3
CIS 215	Network Security Fundamentals 3

Elective units (chosen from the following) 7

CIS 185	Directed Study..... 1
CIS 285	Directed Study..... 2
CIS 212	A+ Certification Preparation-Hardware ... 3
CIS 166	Computer Forensics I..... 3
CIS 213	A+ Certification Prep-Software..... 3
CIS 110	Apple Administration 3
CIS 115	Advanced Linux and Application 3
CIS 231	Virtualization and Cloud Computing Essentials..... 3
CIS 232	Information Storage and Management for Computer Networks 3

DEGREE AND CERTIFICATE PROGRAM REQUIREMENTS

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

CIS 233	VSphere Install, Configure and Management	3
CIS 217	Microsoft Network Infrastructure Admin ..	3
CIS 218	Intro to Windows Active Directory Services	3
CIS 236	Palo Alto Cyber Security Essentials	3
CIS 300	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..... 10

CIS 120	Intro to Database	3
CIS 148	Intro to Web Dev using HTML&CSS.....	3
CIS 150	Advanced Web Dev using JavaScript And Ajax	4

Elective units (chosen from the following)..... 7

CIS 185	Directed Study	1
CIS 285	Directed Study	2
CIS 190	E-commerce Essentials	3
CIS 147	Introduction to Web Page Design	3
CS 140	Programming for Mobile Devices	3
CS 141	Advanced Programming for Mobile device	3
CIS 115	Advanced Linux and Application	3
CIS 211	Security+ Preparation	3
CS 213	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,