

ART

Associate in Arts Degree

Associate in Arts Degree: Art With an Emphasis in General Art

Associate in Arts Degree: Art With an Emphasis in Art History

Associate in Arts Degree: Art With an Emphasis in Studio Art

Transfer Program

The Art Department affords a unique experience for students seeking a solid foundation in aesthetics, skill development, and understanding of the forms and history of art. The program has been designed to offer a continuity of study through structured courses in the academic tradition. The goal of the program is to support each student in the search for a personal form, the development of the capabilities to express that form, and an appreciation of art as a means of understanding the world.

ASSOCIATE IN ARTS - ART (THROUGH FALL 2008)

Core and Selective Requirements

Complete Core Courses, 9 units

	UNITS
ART 101 History of Art I	3
ART 102 History of Art II	3
ART 103 History of Art III	3
Selective courses: choose a minimum of 9 units from the following:	
ART 201 Form and Composition I	3
ART 204 Drawing I	3
ART 221 Painting I	3
Any other ART 200/300 series courses	6-12
Associate Degree Unit Requirements Total	18*

ASSOCIATE IN ARTS - ART WITH AN EMPHASIS IN GENERAL ART (EFFECTIVE SPRING 2009, PENDING STATE APPROVAL)

The General Art Major is designed for students who want a general education in the fine arts and art history. An Art Major serves as a foundation for careers as professional artists, graphic designers and multimedia artists, art historians, museum and gallery professionals, educators, art administrators, careers in publishing, and a variety of other fields.

Core and Selective Requirements

Complete Core Courses, 12 units

	UNITS
ART 201 Form and Composition I	4
ART 204 Drawing I	4
ART 301 Design	4

Selective courses: choose a minimum of 14 units from the following:

Take 8 units from the courses below:

ART 205 Drawing II	3
ART 206 Figure Drawing and Portraiture	4
ART 207 Life Drawing	4
ART 210 Drawing for Animation	4
ART 214 Color	4
ART 221 Painting I	4
ART 351 Basic Black and White Photography	3

Take 6 units from the courses below:

ART 101 Ancient, Classical and Medieval Art History	3
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ART 102 Late Gothic, Renaissance and Baroque Art History	3
ART 103 Eighteenth and Nineteenth Century Art History	3
ART 104 Modern Art History	3
Associate Degree Unit Requirements Total	26*

ASSOCIATE IN ARTS - ART WITH AN EMPHASIS IN ART HISTORY (EFFECTIVE SPRING 2009, PENDING STATE APPROVAL)

The Art Major with an Art History Emphasis is designed for students who wish to pursue the study of art forms of the past and present in a social, political, philosophical and cultural context as a foundation for understanding human history and creativity.

Core and Selective Requirements

Complete Core Courses, 12 units

	UNITS
ART 101 Ancient, Classical and Medieval Art History	3
ART 102 Late Gothic, Renaissance and Baroque Art History	3
ART 103 Eighteenth and Nineteenth Century Art History	3
ART 104 Modern Art History	3

Selective courses: choose a minimum of 11 units from the following:

Take 8 units from the courses listed below:

ART 201 Form and Composition I	3
ART 204 Drawing I	3
ART 205 Drawing II	3
ART 206 Figure Drawing and Portraiture	4
ART 207 Life Drawing	4
ART 214 Color	3
ART 221 Painting I	4
ART 222 Painting II	3
ART 229 Landscape Painting	3
ART 231 Watercolor Painting	3
ART 301 Design	4
ART 303 Color Design	3

Take 3 units from the courses listed below:

ANTH 200 Ethnographic Film	3
ART 105 Asian Art History	3
ART 304 Gallery Design and Management	2
HIST 100 History of Western Civilization I	3
HIST 101 History of Western Civilization II	3
MUS. 115 Art, Music and Ideas	3

Associate Degree Unit Requirements Total **23***

ASSOCIATE IN ARTS - ART WITH AN EMPHASIS IN STUDIO ART (EFFECTIVE SPRING 2009, PENDING STATE APPROVAL)

The Art Major with a Studio Art Emphasis is designed for students who wish to major in the visual arts, including Painting and Drawing, Printmaking, Graphic Design, Digital Arts, Photography, and related disciplines.

Core and Selective Requirements

Complete Core Courses, 12 units

	UNITS
ART 201 Form and Composition I	4
ART 204 Drawing I	4
ART 301 Design	4

Selective courses: choose a minimum of 18 units from the following:

Take 12 units from the courses below:

ART 205 Drawing II	3
ART 206 Figure Drawing and Portraiture	4
ART 207 Life Drawing	4
ART 210 Drawing for Animation	4
ART 214 Color	4
ART 221 Painting I	4
ART 222 Painting II	3
ART 229 Landscape Painting	3
ART 231 Watercolor Painting	3
ART 303 Color Design	3
ART 351 Basic Black and White Photography	3
MART 314 Introduction to Computer Graphics	3
MART 325 Digital Painting	3

Take 6 units from the courses below:

ART 101 Ancient, Classical and Medieval Art History	3
ART 102 Late Gothic, Renaissance and Baroque Art History	3
ART 103 Eighteenth and Nineteenth Century Art History	3
ART 104 Modern Art History	3

Associate Degree Unit Requirements Total **30***

TRANSFER PROGRAM - ART

Cañada College offers lower division coursework required for transfer in the area of Art. Students should use PROJECT ASSIST (www.assist.org) to research lower division major requirements at the transfer destination(s) of their choice. Also, work with a Counselor/Advisor to determine appropriate transfer coursework.

For Multimedia certificates and degrees see MULTIMEDIA ART AND TECHNOLOGY section.

* and required General Education coursework and electives as needed to meet the minimum 60 units required for the Associate degree.

BIOLOGY

Associate in Science Degree - Biology

Associate in Science Degree - Biology with emphasis in Health Sciences

Transfer Program

Professional School Preparation: Pre-Dental, Pre-Medicine, Pre-Pharmacy, Pre-Veterinary, Pre-Optometry

A major in Biological Sciences is a preparation for advanced academic work, for careers in civil service, industry, or teaching; as a background for professional training in such fields as biological science education, biotechnology, nursing, public health, environmental health, pre-medicine and all related areas of biology. Natural resources are among the most important assets of man and the wise use of renewable resources is basic to development in the economic, social and political areas. The basic pre-professional requirements necessary to transfer are offered in the Biological Sciences, Physical Sciences, and Mathematics Departments.

ASSOCIATE IN SCIENCE - BIOLOGY

Core and Selective Requirements

Complete Core Courses, 18 units

	UNITS
BIOL 225 Biology of Organisms	5
BIOL 230 Introduction to Cell Biology	4
CHEM 210 General Chemistry I	5
PHYS 210 General Physics I or PHYS 250 Physics with Calculus I	4

Selective courses: choose a minimum of 12 units from the following:

BIOL 103 Native Plants and Wildflowers	3
BIOL 130 Human Biology	3
BIOL 240 General Microbiology	4
BIOL 250 Human Anatomy	4
BIOL 260 Human Physiology	5
BIOL 310 Nutrition	3
CHEM 220 General Chemistry II	5
MATH 200 Elementary Probability and Statistics	4
MATH 241/242 Applied Calculus I/II or MATH 251/252/253 Analytical Geometry & Calculus I/II/III/5/5	5/5
PHYS 220 General Physics II or PHYS 260/270 Physics with Calculus II/III	4/4

Associate Degree Unit Requirements Total **30***

ASSOCIATE IN SCIENCE DEGREE-BIOLOGY WITH EMPHASIS IN HEALTH SCIENCES

Core and Selective Requirements

Complete Core Courses, 16-18 units

	UNITS
BIOL 110 Principles of Biology	4
<i>One of the following courses:</i>	
CHEM 192 Elementary Chemistry or CHEM 210 General Chemistry I or CHEM 410 Chemistry for Health Sciences	4-5
<i>And two of the following courses:</i>	
BIOL 250 Human Anatomy [□]	4
BIOL 240 General Microbiology [^]	4
BIOL 260 Human Physiology [^]	5

□generally required for Radiologic Technology Program

^generally required for Nursing Programs

•generally required for Respiratory Therapy Programs

Selective courses: choose a minimum of 10 units from the following:

ANTH 110 Cultural Anthropology	3
BIOL 225 Biology of Organisms	5
BIOL 230 Introduction to Cell Biology	4
BIOL 240 General Microbiology	4
BIOL 250 Human Anatomy	4
BIOL 260 Human Physiology	5
BIOL 310 Nutrition	3
CHEM 220 General Chemistry II	5
FITN 250 Personal Trainer Preparation: Anatomy & Physiology	3
HSCI 100 General Health Science	2-3
HSCI 115 Intro to Health Care and the Health Professions	3
HSCI 430 First Aid	.5
LCTR 151 Allied Health Science Vocabulary	1
MATH 200 Elementary Probability and Statistics	4
MATH 241/242 Applied Calculus I/II	5/5
Math 251 Analytical Geometry and Calculus I	5
PHYS 210/220 General Physics I/II	4/4
PSYC 100 General Psychology	3
PSYC 201 Child Development	3
Associate Degree Unit Requirements Total	26-28*

TRANSFER PROGRAM - BIOLOGY

Cañada College offers lower division coursework required for transfer in the area of Biological Sciences. Students should use PROJECT ASSIST (www.assist.org) to research lower division major requirements at the transfer destination(s) of their choice. Also, work with a Counselor/Advisor to determine appropriate transfer coursework.

PROFESSIONAL SCHOOL PREPARATION

(Pre-Dentistry, Pre-Medicine, Pre-Pharmacy, Pre-Veterinary, Pre-Optometry)

Many students are interested in careers in the health sciences and wonder what they should major in at Cañada College. Students often have the misconception that “pre-med” is an academic major and it is not. Students should major in what they enjoy as long as they take the appropriate courses required for professional school (medical, dental, veterinary) admission. Some students choose majors like biological science, genetics, or microbiology, where there is a great deal of overlap between courses required for their major and the professional school undergraduate requirements. Others choose majors not directly related to their career objective, such as English, psychology, anthropology, and use their elective units to meet the professional school requirements. Professional schools, especially medical schools, are looking for well-rounded students who have taken courses in the humanities and social sciences, and who have participated in activities and community work. More information can be found at numerous websites (i.e., www.aamc.org) and by speaking with a Counselor/Advisor.

Each professional school has a minimum number of prerequisite courses to be taken at the undergraduate level. Requirements vary from school to school. Many prerequisite courses may be taken at Cañada College.

* and required General Education coursework and electives as needed to meet the minimum 60 units required for the Associate degree.

BUSINESS ADMINISTRATION

Certificate of Achievement - Business Administration

Associate in Science Degree - Business Administration

Transfer Program - Business Administration

The Business Department offers a transfer program, an AS Degree. The transfer program listed is the same for all business disciplines at four-year colleges and universities. The AS Degree is designed to help a student develop a general business awareness for the world of work, a four-year college, or university. Courses specifically required for the student's major transfer core requirements must be evaluated by a letter grade, not by the credit (CR) grade.

CERTIFICATE OF ACHIEVEMENT - BUSINESS ADMINISTRATION

Core and Selective Requirements

Complete Core Courses, 25–28 units

	UNITS
ACTG 121 Financial Accounting	4-5
BUS. 100 Survey of Business	3
BUS. 101 Human Relations in Business	3
or MGMT 204 Managing Employees Effectively	3
BUS. 103 Introduction to Business Information Systems	3
BUS. 108 Business Writing & Presentation Methods	3
BUS. 115 Business Mathematics	3
or MATH 120 Intermediate Algebra	5
BUS. 201 Business Law	3
MGMT 215 Management of Human Resources	3

Selectives courses: choose a minimum of 6 units from the following:

May be any Accounting or Business or Cooperative Education course	6
Certificate Unit Requirements Total	31–34+

ASSOCIATE IN SCIENCE - BUSINESS ADMINISTRATION

Core and Selective Requirements

Complete Core Courses, 21–25 units

	UNITS
ACTG 121 Financial Accounting	4-5
ACTG 131 Managerial Accounting	4-5
ECON 100 Principles of Macro Economics	3
ECON 102 Principles of Micro Economics	3
MATH 125 Elementary Finite Mathematics	3
or MATH 241 Applied Calculus I	5
or MATH 251 Analytical Geometry & Calculus I	5
MATH 200 Elementary Probability & Statistics	4

Selectives courses: choose a minimum of 6 units from the following:

BUS. 100 Survey of Business	3
BUS. 103 Introduction to Business Information Systems	3
BUS. 201 Business Law	3
CBOT 435 Spreadsheets	3
CIS 118/119 Intro to Object-Oriented Program Design/Lab I	3/1
CIS 250/251 Programming Methods I: C++/Lab I: C++	3/1
MATH 242 Applied Calculus II	5
MATH 252 Analytical Geometry & Calculus II	5
SPCH 100 Public Speaking	3

Associate Degree Unit Requirements Total **27-31***

TRANSFER PROGRAM - BUSINESS ADMINISTRATION

Cañada College offers lower division coursework required for transfer in the area of Business Administration. Students should use PROJECT ASSIST (www.assist.org) to research lower division major requirements at the transfer destination(s) of their choice. Also, work with a Counselor/Advisor to determine appropriate transfer coursework.

+ meet Certificate Program requirements listed on page 46.

*and required General Education coursework and electives as needed to meet the minimum 60 units required for the Associate degree.

BUSINESS/CORPORATE MEETING PLANNER**Certificate of Achievement**

The Corporate Meeting Planner certificate is designed for the person in a corporate setting who is responsible for organizing and planning travel and meeting arrangements.

CERTIFICATE OF ACHIEVEMENT- BUSINESS/CORPORATE MEETING PLANNER (PENDING STATE APPROVAL)**Core and Selective Requirements****Complete Core Courses, 14.5 units**

	UNITS
BUS. 128 Corporate Meeting and Event Planning	3
BUS. 419 On-site Management	1
CBOT 435 Spreadsheets	3
CBOT 436 Database Management	3
CBOT 472 Beginning Word Processing	1.5
CBOT 474 Intermediate Word Processing	1.5
CBOT 480 Using the Internet, Part I	1.5
Certificate Unit Requirements Total	14.5+

+ meet Certificate Program requirements listed on page 46.

BUSINESS MANAGEMENT

Skills Certificate- Human Resources Management/Supervision

Certificate of Achievement - Business Management/Retail (WAFC)

Certificate of Achievement - Small Business

Associate in Science - Business Management/Retail (WAFC)

Associate in Science - Small Business

Transfer Program - Business Management/Retail (WAFC)

The Business Department prepares students for both entry-level positions and management positions in retail. Students are prepared to plan, organize, direct, and manage employees in a variety of settings.

The Business Department also offers both an A.S. Degree and a Certificate program for those students who wish to become a new business owner and or update their skills as a current business owner. The A.S. Degree and Certificate program are designed to assist students in the development of a small business.

SKILLS CERTIFICATE- HUMAN RESOURCES MANAGEMENT/SUPERVISION

Core and Selective Requirements

Complete Core Courses, 10 units

	UNITS
MGMT 204 Managing Employees Effectively	3
MGMT 215 Management of Human Resources	3
MGMT 220 Organizational Behavior	3
MGMT 222 Financial Budgeting & Control	1
Certificate Unit Requirements Total	10+

CERTIFICATE OF ACHIEVEMENT - BUSINESS MANAGEMENT/RETAIL (WAFC)

Core and Selective Requirements

Complete Core Courses, 30 units

	UNITS
ACTG 100 Accounting Procedures	3
BUS. 103 Introduction to Business Information Systems	3
BUS. 108 Business Writing and Presentation Methods	3
BUS. 115 Business Mathematics	3
BUS. 180 Marketing	3
BUS. 186 Retail Management	3
MGMT 100 Introduction to Business Management	3
MGMT 204 Managing Employees Effectively or BUS. 101 Human Relations in Business	3
MGMT 215 Management of Human Resources	3
SPCH 120 Interpersonal Communication	3
Certificate Unit Requirements Total	30+

CERTIFICATE OF ACHIEVEMENT - SMALL BUSINESS

Core and Selective Requirements

Complete Core Courses, 26.5 units

	UNITS
ACTG 100 Accounting Procedures	3
ACTG 194 QuickBooks® & QuickBooks Pro® for the Small Business Person I	1
ACTG 196 QuickBooks® & QuickBooks Pro® for the Small Business Person II	1

BUS. 101 Human Relations in Business	3
BUS. 108 Business Writing & Presentation Methods	3
BUS. 150 Small Business Management	3
BUS. 395 Getting Started in Business	1
BUS. 396 Developing a Business Plan	1
BUS. 397 Developing Tools to Create a Marketing Plan	1
BUS. 399 Laws Governing Small Business Owners	1
BUS. 399 Managing a Business	1
CBOT 430 Computer Applications, Part I	1.5
CBOT 431 Computer Applications, Part II	1.5
CBOT 435 Spreadsheet	3
CBOT 480 Using the Internet, Part I	1.5

Selective courses: choose a minimum of 1 unit from the following:

BUS. 398 Small Business Resource Lab	1
COOP 670 Cooperative Education/Work Experience	1
COOP 672 Cooperative Education/Internship	1

Certificate Unit Requirements Total **27.5+**

ASSOCIATE IN SCIENCE - BUSINESS MANAGEMENT/RETAIL (WAFC)

Complete Core Courses, 30 units, listed under the Certificate of Achievement-Business Management/Retail.

Associate Degree Unit Requirements Total **30***

ASSOCIATE IN SCIENCE - SMALL BUSINESS

Core and Selective Requirements

Complete Core Courses, 27.5 units, listed under the Certificate of Achievement-Small Business.

Associate Degree Unit Requirements Total **27.5***

TRANSFER PROGRAM - BUSINESS MANAGEMENT/RETAIL (WAFC)

Cañada College offers lower division coursework required for transfer in the area of Business Management. Students should use PROJECT ASSIST (www.assist.org) to research lower division major requirements at the transfer destination(s) of their choice. Also, work with a Counselor/Advisor to determine appropriate transfer coursework.

+ meet Certificate Program requirements listed on page 46.

* and required General Education coursework and electives as needed to meet the minimum 60 units required for the Associate degree.

COMPUTER BUSINESS OFFICE TECHNOLOGY

Certificate of Achievement - General Office
 Certificate of Achievement – Administrative Assistant
 Certificate of Achievement –Administrative Support Assistant
 Associate in Science Degree - Administrative Assistant
 Associate in Science Degree - Administrative Support Assistant

CERTIFICATE OF ACHIEVEMENT – GENERAL OFFICE (PENDING STATE APPROVAL)

Core and Selective Requirements

Complete Core Courses, 12 units

	UNITS
BUS. 101 Human Relations in Business	3
CBOT 415 Computer Keyboarding or CBOT 417 Skill Building	1.5
CBOT 430 Computer Applications, Part I	1.5
CBOT 431 Computer Applications, Part II	1.5
CBOT 439 Managing Business Document	1.5
CBOT 448 Using Microsoft Windows	1.5
CBOT 480 Using the Internet, Part I	1.5
Certificate Unit Requirements Total	12+

CERTIFICATE OF ACHIEVEMENT – ADMINISTRATIVE ASSISTANT

Core and Selective Requirements

Complete Core Courses, 23.5 units

	UNITS
BUS. 101 Human Relations in Business	3
BUS. 108 Business Writing and Presentation Methods	3
CBOT 435 Spreadsheets	3
CBOT 436 Database Management	3
CBOT 457 Presentation Software: PowerPoint	1.5
CBOT 458 Advanced Presentation Software: PowerPoint	1.5
CBOT 472 Beginning Word Processing	1.5
CBOT 474 Intermediate Word Processing	1.5
CBOT 475 Using Outlook	1.5
CBOT 476 Adobe Acrobat	1.5
CBOT 478 Integrating Microsoft Office	1.5
COOP 670 Cooperative Education/Work Experience or COOP 672 Cooperative Education: Internship	1
Selective courses: choose a minimum of 6 units from the following:	
ACTG 100 Accounting Procedures	3
ACTG 194 QuickBooks and QuickBooks Pro for the Small Business Person I	1
BUS. 100 Survey in Business	3
BUS. 115 Business Mathematics	3
BUS. 128 Corporate Meeting and Event Planning	3
BUS. 201 Business Law	3
BUS. 419 Onsite Management	1
CBOT 477 Advanced Word Processing	1.5
CBOT 481 Using the Internet, Part 1	1.5
Certificate Unit Requirements Total	29.5+

CERTIFICATE OF ACHIEVEMENT – ADMINISTRATIVE SUPPORT ASSISTANT

Core and Selective Requirements

Complete Core Courses, 17.5 units

	UNITS
BUS. 101 Human Relations in Business	3
BUS. 108 Business Writing and Presentation Methods	3
CBOT 430 Computer Applications, Part I	1.5
CBOT 431 Computer Applications, Part II	1.5
CBOT 439 Managing Business Documents	1.5
CBOT 448 Using Microsoft Windows	1.5
CBOT 472 Beginning Word Processing	1.5
CBOT 474 Intermediate Word Processing	1.5
CBOT 480 Using the Internet, Part I	1.5
COOP 670 Cooperative Education/Work Experience or COOP 672 Cooperative Education: Internship	1
Selective courses: choose a minimum of 6 units from the following:	
BUS. 100 Survey in Business	3
BUS. 115 Business Mathematics	3
BUS. 201 Business Law	3
CBOT 415 Beginning Computer Keyboarding or CBOT 417 Skill Building	1.5
CBOT 435 Spreadsheets	3
CBOT 436 Database Management	3
CBOT 457 Presentation Software: PowerPoint	1.5
CBOT 458 Advanced Presentation Software: PowerPoint	1.5
CBOT 475 Using Outlook	1.5
CBOT 476 Adobe Acrobat	1.5
CBOT 477 Advanced Word Processing	1.5
Certificate Unit Requirements Total	23.5+

ASSOCIATE IN SCIENCE – ADMINISTRATIVE ASSISTANT

Core and Selective Requirements

Complete Core & Selective Courses, 29.5 units, listed under the Certificate of Achievement-Administrative Assistant.

Associate Degree Unit Requirements Total 29.5*

ASSOCIATE IN SCIENCE – ADMINISTRATIVE SUPPORT ASSISTANT

Core and Selective Requirements

Complete Core & Selective Courses, 23.5 units, listed under the Certificate of Achievement-Administrative Support Assistant.

Associate Degree Unit Requirements Total 23.5*

+ meet Certificate Program requirements listed on page 46.

* and required General Education coursework and electives as needed to meet the minimum 60 units required for the Associate degree.

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COMPUTER INFORMATION SCIENCE

Associate in Science - Computer Information Science

Transfer Program - Computer Information Science

The Computer Information Science Program offers an AS degree and a parallel transfer program. Students who already possess a degree will gain substantial skills in computer sciences through completion of the Core Courses. The major for the AS degree in Computer Information Science consists of 19-21 units of Required Core Courses and 12 units of electives chosen from the list of Supporting Subject Courses which complete the major. Other electives for the AS degree may be chosen freely. To earn the AS degree, students also must complete general education and other graduation requirements.

ASSOCIATE IN SCIENCE - COMPUTER INFORMATION SCIENCE

Core & Selective Requirements

Complete Core Courses, 19–21 units

Choose either the C++ OR the JAVA path below.

C++ Path

	UNITS
CIS 118/119 Introduction to Object-Oriented Program Design/Lab I	3/1
CIS 250/251 Programming Methods I: C++/Lab I: C++	3/1
CIS 252/253 Programming Methods II: C++/Lab II C++	3/1
<i>Two of the following courses:</i>	
MATH 200 Elementary Probability and Statistics	4
MATH 241 Applied Calculus I	5
MATH 251 Analytical Geometry & Calculus I	5
MATH 268 Discrete Mathematics	4

Java Path

	UNITS
CIS 118/119 Introduction to Object-Oriented Program Design/Lab I	3/1
CIS 284/285 Programming Methods I: Java/Lab I: Java	3/1
CIS 286/287 Programming Methods II: Java/Lab II: Java	3/1
<i>Two of the following courses:</i>	
MATH 200 Elementary Probability and Statistics	4
MATH 251 Analytical Geometry & Calculus I	5
MATH 268 Discrete Mathematics	4

Selective courses: in addition to taking the courses for one of the paths listed above, choose a minimum of 12 units from the following:

CHEM 210/220 General Chemistry I/II	5/5
ENGR 210 Engineering Graphics	4
ENGR 260/261 Circuits and Devices/Lab	3/1
ENGR 270 Materials Science	3
MATH 200 Elementary Probability and Statistics	4
MATH 219 Pre-Calculus College Algebra/Trigonometry	5
MATH 241/242 Applied Calculus I/II	5/5
MATH 251/252/253 Analytical Geometry & Calculus I/II/III	5/5/5
MATH 270 Linear Algebra	3
MATH 275 Ordinary Differential Equations	3
PHIL 103 Critical Thinking	3
PHYS 210/220 General Physics I/II	4/4
or PHYS 250/260/270 Physics with Calculus I/II/III	4/4/4

Associate Degree Unit Requirements Total **31–33***

TRANSFER PROGRAM - COMPUTER INFORMATION SCIENCE

Cañada College offers lower division coursework required for transfer in the areas related to Computer Science. In this regard, it is suggested that students research Computer Information Systems, Management Information Systems, Computer Science, and Computer Engineering programs. Students should use PROJECT ASSIST (www.assist.org) to research lower division major requirements at the transfer destination(s) of their choice. Also, work with a Counselor/Advisor to determine appropriate transfer coursework.

** and required General Education coursework and electives as needed to meet the minimum 60 units required for the Associate degree.*

COMPUTER INFORMATION TECHNOLOGY

Certificate of Achievement – Home Office/Small Business Computer Security

CERTIFICATE OF ACHIEVEMENT – HOME OFFICE/SMALL BUSINESS COMPUTER SECURITY (PENDING STATE APPROVAL)

Core Requirements

Complete Core Courses, 15 units

	UNITS
CIT 422 Help Desk	1.5
CIT 450 PC Maintenance & System Upgrades, Part I	3
CIT 453 Troubleshooting Systems	1.5
CIT 467 Internet/Network Security	3
CIT 492 Networking Essentials	3
CIT 494 Supporting Windows XP Professional	3
Certificate Unit Requirements Total	15*

** and required General Education coursework and electives as needed to meet the minimum 60 units required for the Associate degree.*

EARLY CHILDHOOD EDUCATION/ CHILD DEVELOPMENT

Skills Certificate - Family Development

Certificate of Achievement - Early Childhood Education/Child Development

Associate in Science - Early Childhood Education /Child Development Transfer Program

The Early Childhood Education/Child Development program is designed to meet the needs of individuals planning a career working with young children and/or are currently working with young children. The child from birth to school age is the primary focus. Current research and practical applications are combined in order to assist students in planning their most effective role with children. Children's growth, developmentally appropriate practice, cultural diversity, observational skills, family support and professional development within the ECE field are major components of the program. In order to meet the varied needs of ECE students, courses are offered mornings, afternoons, evenings and weekends. The program makes every effort to schedule classes to meet the diversity of students' needs and to encourage students to plan ahead in order to complete specific program requirements.

Graduates of the ECE/CD program with the ECE/CD certificate are prepared for positions in the Early Care and Education field as teachers, family child care providers and para professionals in elementary school settings. Graduates with an AS degree with a major in ECE/CD are prepared for positions as head teachers, master teachers, site supervisors and program directors.

Any student in the ECE/CD Program may complete the certificate program in one year if a minimum of 12 units is taken each semester. Students coming from other colleges and universities may have equivalencies established if "child" is in the title of the course and no "Elementary Education" designation exists. All courses that apply toward the certificate program must be lower division work. A minimum of 12 units must be taken at Cañada College to receive the Cañada College ECE certificate.

SKILLS CERTIFICATE - FAMILY DEVELOPMENT

Core and Selective Requirements

Complete Core Courses, 6 units

	UNITS
HMSV 262 or ECE. 262 Introduction to Family Support: Building Respectful Partnerships	3
HMSV 264 or ECE. 264 The Life Cycle of the Family	3
Selective courses: choose a minimum of 3 units from the following:	
HMSV 265 and HMSV 266 Family Development Portfolio, Part I and Part II	1.5/1.5
HMSV 366 or ECE. 366 Practicum in Early Childhood Education	3
HMSV 670 Cooperative Education/ Human Services Work Experience	3
HMSV 672 Cooperative Education: Human Services Internship	3
Certificate Unit Requirements Total	9+

CERTIFICATE OF ACHIEVEMENT - EARLY CHILDHOOD EDUCATION/CHILD DEVELOPMENT

Core & Selective Requirements

Complete Core Courses, 24 units

	UNITS
ECE. 201 Child Development	3
ECE. 210 Early Childhood Education Principles	3
ECE. 211 Early Childhood Education Curriculum	3
ECE. 212 Child, Family, and Community	3
ECE. 254 Anti-Bias Curriculum	3
ECE. 313 Health & Safety for Young Children	3
ECE. 333 Observational Skills	3
ECE. 366 Practicum in Early Childhood Education	3
Certificate Unit Requirements Total	24+

ASSOCIATE IN SCIENCE - EARLY CHILDHOOD EDUCATION/CHILD DEVELOPMENT

Core & Selective Requirements

Complete Core and Selective Courses, 24 units, listed under the Certificate of Achievement–Early Childhood Education/Child Development.

Associate Degree Unit Requirements Total	24*
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TRANSFER PROGRAM - CHILD DEVELOPMENT

Cañada College offers lower division coursework required for transfer in areas related to Child Development and for students seeking teaching positions in a preschool, elementary, or secondary educational environment. In this regard, it is suggested that students research Child Development, Psychology, and Liberal Studies majors. Students should use PROJECT ASSIST (www.assist.org) to research lower division major requirements at the transfer destination(s) of their choice. Also, work with a Counselor/Advisor to determine appropriate transfer coursework.

CHILD DEVELOPMENT PERMIT

Cañada College's ECE/CD Certificate Program is aligned with the Child Development Permit regulations. The Permit has been approved by the California Department of Education and the Commission on Teacher Credentialing for child care and development centers operating under Title 5 (publicly subsidized).

The Child Development Permit emphasizes professional development and will eventually impact the entire Early Childhood Education field. The career lattice approach acknowledges the importance of many entry points into the profession. The Child Development Permit has taken the place of the Emergency Children's Center Instructional Permit, the Children's Center Supervision Permit, and the Life Children's Center Supervision Permit.

AREAS OF SPECIALIZATION WITHIN THE ECE/CD PROGRAM APPLICABLE TO THE CHILD DEVELOPMENT PERMIT

In accordance with the guidelines established by the Child Development Permit for the Master Teacher, Cañada College's ECE/CD Program has created several "specializations." ("Administration" is not considered a specialization.) Six semester units in specific areas define a specialization. These focus areas can be useful to

students when seeking work advancement or career development options.

Infant/Toddler Care

ECE. 223 Infant Development	3
ECE. 225 Infant/Toddler Environments	3

Preschool Programming: SAFE START

ECE. 250 Violence & Its Impact on Children & Their Families	3
ECE. 252 Teaching Violence Intervention Strategies to Children and Families	3

Preschool Programming: Children's Literature

ECE. 191 Children's Literature I	3
ECE. 192 Children's Literature II	3

Developmentally Appropriate Curriculum: School-Age Care

ECE. 213 The School-Age Child	3
ECE. 230 Creative Activities for the Young Child	3

Developmentally Appropriate Curriculum: Children with Special Needs

ECE. 260 Children with Special Needs	3
ECE. 335 Handling Behavior	3

Family Support

ECE. 262 Introduction to Family Support: Building Respectful Partnerships	3
ECE. 264 The Life Cycle of the Family	3

Family Child Care: Home-Based Care

ECE. 384 Principles & Policies for Home-Based Child Care	3
ECE. 386 Activity Planning & Curriculum for Home-Based Child Care	3

+ meet Certificate Program requirements listed on page 46.

**and required General Education coursework and electives as needed to meet the minimum 60 units required for the Associate degree.*