

ASSOCIATE IN SCIENCE DEGREE

Chemistry

Transfer Preparation * (Major Code: 01530)

Chemistry is the study of the composition of matter, its structure, and the means by which it is converted from one form to another. Related to chemistry is molecular biology. Students interested in matter as it applies to life should also take courses in the life sciences. Most courses require mathematics prerequisites. Placement is determined by the Mathematics Assessment Process, which should be taken before registration. It is essential that students start with mathematics during the first semester.

Chemistry majors are advised to give priority to lower-division requirements for the major as they are prerequisites for most upper division courses. Only as many general education courses should be taken as can be included in the 70-unit transfer limitation, and these must be chosen with care to insure that they fit into the general education pattern at the transfer institution.

First Semester **

CHEM 200	General Chemistry I	5
MATH 250	Analytic Geometry and Calculus I	5

Second Semester

CHEM 210	General Chemistry II	5
MATH 251	Analytic Geometry and Calculus II	4
PHYS 270	Principles of Physics I	3
PHYS 271	Principles of Physics Laboratory I	1

Third Semester

CHEM 240	Organic Chemistry I	5
MATH 252	Analytic Geometry and Calculus III	4
PHYS 272	Principles of Physics II	3
PHYS 273	Principles of Physics Laboratory II	1

Fourth Semester

CHEM 250	Analytical Chemistry	5
	OR	
CHEM 242	Organic Chemistry II	

Total units **41**

Students who plan to major in Biochemistry at a four-year college or university should also enroll in BIOL 210 and 212.

** If you do not have the prerequisites for CHEM 200 and MATH 250, take CHEM 170 and MATH 101 in your first semester. This will add one semester to your program of studies.

To earn an associate degree, additional general education and graduation requirements must be completed. See page 49.

* Students planning to transfer to a four-year college or university should complete courses specific to the transfer institution of choice. University requirements vary from institution to institution and are subject to change. Therefore, it is important to verify transfer major preparation and general education requirements through consultation with a counselor in either the Counseling Center or Transfer Center. See catalog TRANSFER COURSES INFORMATION section on page 32 for further information.

Child Development

Higher Education Center at San Ysidro

Dean Silvia Cornejo, M.A., Office 4118B, 619-216-6755

Faculty Sandra Corona, Ph.D.; Leslynn Gallo, Ph.D.; Mary Holmes, M.A.; Virginia Watson, M.A.

Department Chair Leslynn Gallo, Ph.D.

General Description

Child development is the study of the physical, socio-emotional, cognitive, and psychomotor growth and development of the child from conception to adolescence. This department explores human anatomy, health, psychology, sociology, education, nutrition, home and childcare environments, community resources, curriculum, childrearing, and language acquisition as they pertain to the child in contemporary society.

Career Options

Below is a sample of the career options available for the child development major. Most require a certificate or associate degree, some require a bachelor's degree, or a graduate degree: infant-toddler teacher, preschool teacher, director or owner, parent education instructor, elementary school teacher, child and family counselor, pediatric psychologist, college instructor, social worker, adoption counselor, education technician, tutor, social service agent, pediatric nurse or physician, and public health administrator.

Degree/Certificate Options

Associate in Arts Degree: Transfer Preparation

Child Development	01750
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Associate in Arts Degree: Career/Technical

Child Development Teacher	B2721
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Certificates of Achievement

Child Development Teacher Permit	B2722
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Certificates of Proficiency

Family Childcare—Bilingual (English/Spanish)	B2725
Spanish-to-English Associate Teacher Certificate	02723

Consult with a counselor to develop a Student Education Plan (SEP), which lists the courses necessary to achieve your academic goal.

ASSOCIATE IN ARTS DEGREE

Child Development

Transfer Preparation * (Major Code: 01750)

Prepares students to work as preschool teachers or directors or to transfer to other colleges and universities offering a bachelor's degree in child development for more advanced careers with children.

Students will acquire the ability to understand the cognitive development of the child from pre-birth through adolescence, as well as his/her emotional, social, physical and educational needs, and to develop skills to work with the young child.

CD 135	Principles of Family Development	3
CD 170	Principles of Child Development	3
CD 170L	Principles of Child Development Laboratory	1
CD 180	Observation and Guidance for Child Development	3
CD 181	Curriculum Planning for Child Development	3
CD 184	Observation and Documentation	3
CD 284	Child, Family, and Community	3
CD 282A	Child Development Field Practicum	3
[SOC 101	Introduction to Sociology	3
	OR	
[PSYC 101	Introduction to Psychology	3
	SOC/ PSYC 270	
Total units		28

Recommended Electives: CD 175, 177, 282B.

To earn an associate degree, additional general education and graduation requirements must be completed. See page 49.

- * Students planning to transfer to a four-year college or university should complete courses specific to the transfer institution of choice. University requirements vary from institution to institution and are subject to change. Therefore, it is important to verify transfer major preparation and general education requirements through consultation with a counselor in either the Counseling Center or Transfer Center. See catalog TRANSFER COURSES INFORMATION section on page 32 for further information.

Child Development Teacher

Career/Technical (Major Code: B2721)

Designed to prepare students to qualify as teachers of young children. A practicum component allows students to apply theoretical knowledge to student teaching experience.

First Semester

CD 170	Principles of Child Development	3
CD 170L	Principles of Child Development Laboratory	1
CD 180	Observation and Guidance for Child Development	3

Second Semester

CD 181	Curriculum Planning for Child Development	3
CD 184	Observation and Documentation	3
CD 283	Emerging Literacy	3

Third Semester

CD 175	Nutrition, Health, and Safety for Children*	3
CD 275	Art for Children	3
CD 282A	Child Development Field Practicum	3

Fourth Semester

CD 282B	Advanced Child Development Field Practicum	3
[CD 284	Child, Family, and Community	3
	OR	
[CD 135	Principles of Family Development	3

Total units **31**

Recommended Electives: ART 104; CD 80–88, 172, 278, 286.

To earn an associate degree, additional general education and graduation requirements must be completed. See page 49.

Note: After completion of this coursework, student will qualify for the teacher level of the State of Education's permit. (www.childdevelopment.org)

- * Students who successfully complete CD 175—Nutrition, Health, and Safety for Children, will receive certification in Infant and Children, First Aid, and CPR.



Some courses within this program may require additional coursework that must be completed prior to enrollment in those courses. Please consult the individual course listings for prerequisites and any other limitations on enrollment.

CERTIFICATES

Child Development Teacher Permit

Certificate of Achievement

Career/Technical (Major Code: B2722)

Designed to prepare students as preschool teachers and qualify for State Permit on the Teacher Permit level.

First Semester

CD 170	Principles of Child Development	3
CD 170L	Principles of Child Development Laboratory	1
CD 284	Child, Family, and Community	
	OR	3
CD 135	Principles of Family Development	
CD 283	Emerging Literacy	3

Second Semester

CD 180	Observation and Guidance for Child Development	3
CD 181	Curriculum Planning for Child Development	3
CD 184	Observation and Documentation	3
Complete 3 units from Group 1		3

Third Semester

CD 282A	Child Development Field Practicum	3
ENGL 115	Reading and Composition: Exposition and Argumentation (4)	
	OR	
SPAN 101	Elementary Spanish I (5)	3-5
	OR	
SPAN 215	Spanish for Bilinguals I (5) *	
	OR	
COMM 103	Oral Communication (3)	

Complete 6 units from Group 2

6

Fourth Semester

CD 282B	Advanced Child Development Field Practicum	3
BIOL 140	Environmental Biology (3)	
	OR	
LNT 100	Plant and Horticulture Science (4)	
	OR	3-4
SOC/ PSYC 270	Statistical Methods of Sociology (3)	
	OR	
MATH 101	College Algebra (3)	

Complete 6 units from Group 3

(or 3 units if SPAN 101 or 215 were completed) 3-6

Total units 43-49

Group 1

CD 130	Math for Young Children (1)
CD 131	Science for Young Children (1)
CD 132	Technology for Young Children (1)
	OR
CD 173	Development of Infants and Toddlers (3)
CD 175	Nutrition, Health, and Safety for Children (3)
CD 176	Music and Movement for Young Children (3)
CD 275	Art for Children (3)
CD 279	Early Education Service Learning in a Global Environment (3)
	OR
LDR 279	Early Education Service Learning in a Global Environment (3)

Group 2

ART 101	Design I (3)
ART 104	Introduction to Art (3)
ENGL 270	Multicultural Literature (3)
MUS 105	Introduction to Music (3)
MUS 195	World Music (3)

Group 3

PSYC 101	General Psychology (3)
SOC 101	Introduction to Sociology (3)
HIST 104	Western Civilization I (3)
HIST/MAS 141	Mexican-American History I (3)
PS 101	Introduction to Political Science (3)

* (Eligible for Spanish Proficiency Certificate)

Family Childcare—Bilingual (English/Spanish)

Certificate of Proficiency

Career/Technical (Major Code: B2725)

Family childcare businesses are licensed to care for children in a home environment. The family childcare provider is responsible for designing developmentally appropriate curriculum for multi-age groups of children; providing a safe environment; and operating a successful small business. Designed for the prospective and experienced family childcare provider.

CD 80	The Business of Family Childcare	1
CD 81	Children in Family Childcare—Crisis, Challenges, and Change	1
CD 82	Family Childcare Environment	1
CD 83	Nutrition for Family Childcare	1
CD 84	Health and Safety in Family Childcare	1
CD 86	Positive Guidance in Family Childcare	1
CD 87	Family Childcare Curriculum	1
CD 89	Fundamentals of Child Development	1
CD 90	Family Childcare School-Age Environment	1
CD 91	Family School-Age Childcare Partnerships	1
CD 93	Early Childhood Environmental Rating Scale	1

Total units 11

Spanish-to-English Associate Teacher Certificate

Certificate of Proficiency

Career/Technical (Major Code: 02723)

The Spanish-to-English teacher certificate meets the academic requirements for the associate teacher permit through the State Department of Education and Child Development Division. This certificate is comprised of four-core classes in child development, which are linked to four English as a Second Language courses. The program is designed for students to learn child development concepts while acquiring English language skills. The child development courses will begin with predominantly Spanish instruction. As students progress through the courses, English instruction will increase as their English proficiency increases. This is a sequential program in which students form a community of learners starting and ending the program together. Upon completion of this certificate, students may either choose to seek employment or complete the child development teacher certificate offered in English.

First Semester

CD 170	Principles of Child Development	3
ESL 27A	ESL for Child Development: Principles of Child Development	2

Second Semester

CD 180	Observation and Guidance for Child Development	3
ESL 27B	ESL for Child Development: Child Guidance	1

Third Semester

CD 181	Curriculum Planning for Child Development	3
ESL 27C	ESL for Curriculum	1

Fourth Semester

CD 284	Child, Family, and Community	3
ESL 27D	ESL for Child, Family and Community	1
Total units		17

Communication

School of Arts and Communication

Dean Donna Arnold, M.S., Office 702B, 619-482-6372

Faculty Eric Maag, M.A.; Jordan Mills, M.A.; Candice Taffolla-Schreiber, M.A.; Rebecca Wolniewicz, Ph.D.; Rachel Hastings, Ph.D.

Department Chair Eric Maag, M.A.

General Description

In the broadest sense, communication is the study of all forms of human communication with a focus upon verbal behavior. This department explores the nature and method of verbalization including the development and use of language and symbolic process and theories of rhetoric and communicative behavior. A competent communicator is skilled in the critical analysis of an evaluation of messages and can manage essential factors within a verbal situation, such as idea selection, language use, and vocal or physical presentation.

Career Options

Below is a sample of the career options available for the communication major. A few of these require an associate degree, most require a bachelor's degree, and some require a graduate-level degree. Possible career options include: high school or college instructor, public relations officer, television or radio broadcaster, consultant, lawyer, public administrator, politician, speech writer, minister, sales representative, business manager, television, radio critic, or film critic. With additional coursework, a communication major can seek positions related to speech pathology, and audiology, which is a field concerned with disorders of speech, language, and hearing.

Degree/Certificate Options

Associate in Arts Degree: Transfer Preparation

Communication	A1470
Communication for Studies (SB 1440)	01475

Major Code

Consult with a counselor to develop a Student Education Plan (SEP), which lists the courses necessary to achieve your academic goal.

