

## PHYSICAL SCIENCES

### Associate in Science - Chemistry

### Associate in Science - Physics

#### Transfer Program

The Physical Science Department is designed to give the student breadth in the physical sciences while providing considerable strength in one of the specialized science fields of chemistry, geology, or physics. The lower-division program in the physical science major is virtually the same as that taken in the first two years of college by a chemistry major, physics major, or geology major, thus enabling students to transfer among these majors if they so choose. A major in physical science can serve as preparation for further study in technical fields and serves as an excellent background for professional training in law, business, medicine, or education.

### ASSOCIATE IN SCIENCE - CHEMISTRY

#### Core and Selective Requirements

#### Complete Core Courses, 30 units

CHEM 210 General Chemistry I	5
CHEM 220 General Chemistry II	5
CHEM 234 Organic Chemistry I	3
CHEM 237 Organic Chemistry Laboratory I	2
CHEM 235 Organic Chemistry II	3
CHEM 238 Organic Chemistry Laboratory II	2
MATH 251 Analytical Geometry and Calculus I	5
MATH 252 Analytical Geometry and Calculus II	5

**Total Units of Core Courses (required): 30**

#### Selective courses: choose a minimum of 8 units from the following:

PHYS 210 General Physics I	4
PHYS 220 General Physics II	4
PHYS 250 Physics with Calculus I	4
PHYS 260 Physics with Calculus II	4
PHYS 270 Physics with Calculus III	4

**Associate Degree Unit Requirements Total 38\***

### ASSOCIATE IN SCIENCE - PHYSICS

#### Core and Selective Requirements

#### Complete Core Courses, 41 units

CHEM 210 General Chemistry I	5
CHEM 220 General Chemistry II	5
CIS 250 Programming Methods I: C++ and CIS 251 Open Computer Lab I: C++	3 1
MATH 251 Analytical Geometry and Calculus I	5
MATH 252 Analytical Geometry and Calculus II	5
MATH 253 Analytical Geometry and Calculus III	5
MATH 275 Ordinary Differential Equations	3
PHYS 250 Physics with Calculus I	4
PHYS 260 Physics with Calculus II	4
PHYS 270 Physics with Calculus III	4

**Total Units of Core Courses (required): 41**

**Associate Degree Unit Requirements Total 41\***

### TRANSFER PROGRAM - CHEMISTRY, PHYSICS, PHYSICAL SCIENCES

Cañada College offers lower division coursework required for transfer in Chemistry, Physics, and Physical Sciences. Students should use PROJECT ASSIST ([www.assist.org](http://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.*

## PHYSICAL THERAPY

### Transfer Program

#### TRANSFER PROGRAM - PHYSICAL THERAPY

Cañada College offers lower division coursework required for transfer in Physical Therapy. Students should use PROJECT ASSIST ([www.assist.org](http://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.

## POLITICAL SCIENCE

### Associate in Arts - Political Science

#### Associate in Arts - Political Science With Emphasis in Pre-Law

#### Associate in Arts - Political Science With Emphasis in Public Administration and Affairs

#### Associate in Arts - Political Science With Emphasis in Public Service Transfer Program

Political science is the study of governments, public policies and political processes, systems, and political behavior. Political science subfields include political theory, political economy, policy studies and analysis, comparative politics, international relations, pre-law and a host of related fields. Political scientists use both humanistic and scientific perspectives and tools and a variety of methodological approaches to examine the process, systems, and political dynamics of all countries and regions of the world.

A bachelor's degree in political science can lead to exciting careers in federal, state and local governments; law; business; international organizations; nonprofit associations and organizations; campaign management and polling; journalism; precollegiate education; electoral politics; research and university and college teaching.

Political science majors gain analytical skills, administrative competence and communication abilities that are valued in a wide spectrum of potential career areas."

### ASSOCIATE IN ARTS - POLITICAL SCIENCE

#### Core and Selective Requirements

#### Complete Core Courses, 12 or 14 units

	<b>UNITS</b>
PLSC 130 International Relations	3
PLSC 150 Introduction to Political Theory	3
PLSC 170 Comparative Politics	3
PLSC 210 American Politics	3
or PLSC 200 National, State and Local Governments	5

#### Selective courses: choose a minimum of 9 units from the following:

ANTH 110 Cultural Anthropology	3
or ANTH 360 Indians of North America	
HIST 100 History of Western Civilization I, OR	3
or HIST 101 History of Western Civilization II	
HIST 201 United States History I	3
or HIST 202 United States History II	
PHIL 300 Introduction to World Religions	3
PLSC 103 Critical Thinking about World Politics	3
PLSC 320 Latin American Politics	3

**Associate Degree Unit Requirements Total** **21 or 23\***

### ASSOCIATE IN ARTS - POLITICAL SCIENCE WITH EMPHASIS IN PRE-LAW (PENDING STATE APPROVAL)

#### Core and Selective Requirements

#### Complete Core Courses, 12 or 14 units

	<b>UNITS</b>
PLSC 130 International Relations	3
PLSC 150 Introduction to Political Theory	3
PLSC 170 Comparative Politics	3
PLSC 210 American Politics	3
or PLSC 200 National, State and Local Governments	5

Selective courses: choose a minimum of 9 units from the following:

PLSC 310 California State and Local Government	3
OR PLSC 200 National, State and Local Governments	5
BUS 201 Business Law	3
PHIL 240 Introduction to Ethics	3
PSYC 106 Psychology of Prejudice and Discrimination	3
<b>Associate Degree Unit Requirements Total</b>	<b>21 or 23*</b>

**ASSOCIATE IN ARTS - POLITICAL SCIENCE WITH EMPHASIS IN PUBLIC ADMINISTRATION AND AFFAIRS (PENDING STATE APPROVAL)**

*Core and Selective Requirements*

Complete Core Courses, 16-18 units

	UNITS
PLSC 130 International Relations	3
PLSC 150 Introduction to Political Theory	3
PLSC 170 Comparative Politics	3
PLSC 210 American Politics	3
or PLSC 200 National, State and Local Governments	5
ACTG 121 Financial Accounting	4

Selective courses: choose a minimum of 9 units from the following:

PLSC 310 California State and Local Government	3
OR PLSC 200 National, State and Local Governments	5
ECON 100 Principles of Macro Economics	3
ECON 102 Principles of Micro Economics	3
MATH 200 Elementary Probability and Statistics	4
<b>Associate Degree Unit Requirements Total</b>	<b>25-27*</b>

**ASSOCIATE IN ARTS - POLITICAL SCIENCE WITH EMPHASIS IN PUBLIC SERVICE (PENDING STATE APPROVAL)**

*Core and Selective Requirements*

Complete Core Courses, 12 or 14 units

	UNITS
PLSC 130 International Relations	3
PLSC 150 Introduction to Political Theory	3
PLSC 170 Comparative Politics	3
PLSC 210 American Politics	3
or PLSC 200 National, State and Local Governments	5

Selective courses: choose a minimum of 9 units from the following:

PLSC 310 California State and Local Government	3
OR PLSC 200 National, State and Local Governments	5
ECON 100 Principles of Macro Economics	3
ECON 102 Principles of Micro Economics	3
MATH 200 Elementary Probability and Statistics	4
<b>Associate Degree Unit Requirements Total</b>	<b>21 or 23*</b>

**TRANSFER PROGRAM - POLITICAL SCIENCE**

Cañada College offers lower division coursework required for transfer in Political Science. 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.*

**PSYCHOLOGY**

**Associate in Arts**

**Transfer Program**

Psychology, a natural and social science, is concerned with the study of human and animal behavior. While the individual is usually the focal point, as in personality, developmental, clinical and counseling areas, the influence of groups on the individual is also considered. A broad discipline, psychology involves both pure science and practical application to everyday living.

**ASSOCIATE IN ARTS - PSYCHOLOGY**

*Core and Selective Requirements*

Complete Core Courses, 7 units

	UNITS
MATH 200 Elementary Probability & Statistics	4
PSYC 100 General Psychology	3

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

	UNITS
BIOL 110 Principles of Biology	4
PSYC 106 Psychology of Ethnic Minority Groups	3
PSYC 110 Marriage and Relationship Choices	3
PSYC 200 Developmental Psychology	3
PSYC 201 Child Development	3
PSYC 202 Adolescent Behavior	3
PSYC 300 Social Psychology	3
PSYC 340 Psychology of Human Sexuality	3
PSYC 410 Abnormal Psychology	3

**Associate Degree Unit Requirements Total 18\***

**TRANSFER PROGRAM - PSYCHOLOGY**

Cañada College offers lower division coursework required for transfer in Psychology. 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.*

## RADIOLOGIC TECHNOLOGY

### Associate in Science

#### (X-RAY TECHNOLOGY)

The Radiologic Technology program offers a comprehensive curriculum leading to an AS degree and qualifications for employment in medical facilities throughout the country. Students participate in classroom instruction and clinical education in our affiliated hospitals. Program graduates must take the licensure examination required by the State of California and the certification examination given by the American Registry of Radiologic Technologists.

Prospective students must complete a separate application to the program (available in November for the following Fall entrance) in addition to the regular college application. An information meeting is held annually in November for prospective students. For more information, please call the Science and Technology Division office at 306-3291.

#### ASSOCIATE IN SCIENCE - RADIOLOGIC TECHNOLOGY

##### Core and Selective Requirements

Complete Core Courses, 61 units

	UNITS
RADT 400 Orientation to Radiologic Technology	2
PHYS 405 Applied Radiographic Physics	3
RADT 408 Perspectives in Radiology	.5
RADT 410 Radiographic Positioning	4
RADT 415 Radiation Protection and Biology	3
RADT 420 Radiographic Positioning II	3.5
RADT 430 Principles of Radiographic Film Production	3.5
RADT 435 Imaging Equipment and Quality Control	1.5
RADT 440 Advanced Imaging Modalities & Specialized Procedures	4
RADT 441 Sectional Anatomy	1.5
RADT 442 Radiographic Pathology	1.5
RADT 450 Registry Review	1.5
RADT 418, 428, 438, 448, 458, 468 Clinical Education I-VI (total approx. 2,000 hours)	31.5
<b>Associate Degree Unit Requirements Total</b>	<b>61 *</b>

A grade of C or better is necessary for progression in the sequence.

Students must obtain current certification in CPR for health care providers.

\* and General Education coursework to meet Associate Degree requirements. Recommended that the majority of the General Education requirements for the AS degree be completed prior to entry to the program.

Contact: Rafael Rivera, Phone: 306-3283

Email: canradtech@smccd.edu

Web: [www.canadacollege.edu/science/radtech](http://www.canadacollege.edu/science/radtech)

## REAL ESTATE

### Skills Certificate

#### SKILLS CERTIFICATE - REAL ESTATE SALESPERSON

##### Core and Selective Requirements

Complete Core Courses, 9 units

	UNITS
R.E. 100 Real Estate Principles	3
R.E. 110 Real Estate Practice	3
R.E. 141 Real Estate Appraisal	3
<b>Certificate Unit Requirements Total</b>	<b>9+</b>

+ meet Certificate Program requirements listed on page 46.

## SOCIAL SCIENCES

### Associate in Arts - International Studies

#### Transfer Program - Social Science

Social science is an integrated curriculum involving the disciplines of anthropology, economics, geography, history, philosophy, political science, psychology, social science and sociology.

### ASSOCIATE IN ARTS DEGREE - INTERNATIONAL STUDIES

#### Core and Selective Requirements

#### Complete Core Courses, 24.5 units

	<b>UNITS</b>
ANTH 110 Cultural Anthropology	3
CBOT 430 Computer Applications, Part I	1.5
ECON 100 Principles of Macro Economics	3
GEOG 150 World Regional Geography	3
HIST 101 History of Western Civilization II	3
<i>or HIST 202 United States History II</i>	
<i>or HIST 422 Modern Latin America</i>	
<i>or HIST 451 Far Eastern Civilization &amp; Heritage I</i>	
PLSC 130 International Relations	3
PSYC 106 Psychology of Ethnic Minority Groups	3
<i>or SOCI 141 Understanding Diverse Racial/Ethnic Cultures</i>	
Languages: Two semesters of one language	5
<b>Associate Degree Unit Requirements Total</b>	<b>24.5*</b>

### TRANSFER PROGRAM - SOCIAL SCIENCE

Cañada College offers lower division coursework required for transfer in Social Science. Students should use PROJECT ASSIST ([www.assist.org](http://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*

## SOCIOLOGY

### Associate in Arts

#### Transfer Program

Both a scientific and humanistic discipline, sociology is concerned with the study of systems of social action and their interrelations. It attempts to discover the factors that determine social organization and behavior and promotes an understanding of the social world from personal problems to public issues.

Sociology provides a strong foundation in law, business, social work, education, criminal justice, health care, government service, human resources, counseling, public policy research, and much more.

### ASSOCIATE IN ARTS - SOCIOLOGY

#### Core and Selective Requirements

#### Complete Core Courses, 10 units

	<b>UNITS</b>
MATH 200 Elementary Probability & Statistics	4
SOCI 100 Introduction to Sociology	3
SOCI 205 Social Science Research Methods	3
<i>or PSYC 205 Social Science Research Methods</i>	

#### Selective courses: choose a minimum of 9 units from the following:

#### Choose 3 units from the following courses:

SOCI 105 Social Problems	3
SOCI 141 Ethnicity and Race in Society	3

#### Choose 6 units from the following courses:

ANTH 110 Cultural Anthropology	3
ECON 100 Principles of Macro Economics	3
PHIL 100 Introduction to Philosophy	3
PLSC 150 Introduction to Political Theory	3
PSYC 100 General Psychology	3

**Associate Degree Unit Requirements Total** **19\***

### TRANSFER PROGRAM - SOCIOLOGY

Cañada College offers lower division coursework required for transfer in Social Science. Students should use PROJECT ASSIST ([www.assist.org](http://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.*

## SPANISH

### Associate in Arts Transfer Program

The Foreign Languages Department brings to students the riches of diverse cultures of the world. Here students can participate, either vicariously through the literature they are now able to read, or directly with their new-found linguistic abilities, in heritages the totality of which comprise all mankind. Students master basic grammar and gain proficiency in understanding, speaking, reading, and writing the target language.

### ASSOCIATE IN ARTS - SPANISH

#### Core and Selective Requirements

Complete Core Courses, choose 8–9 units from the following list:

#### \* For native speakers of Spanish (8 units):

	UNITS
SPAN 150 Spanish for Heritage Speakers I	4
SPAN 152 Spanish for Heritage Speakers II	4

#### \* For non-native speakers of Spanish (8-9 units):

SPAN 130 Intermediate Spanish	5
or SPAN 131 Intermediate Spanish I	3
SPAN 132 Intermediate Spanish II	3
and SPAN 140 Advanced Intermediate Spanish	3

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

ENGL200 Introduction to Linguistics: A Survey of Language	3
SPAN 110 Elementary Spanish	5
or SPAN 111 Elementary Spanish I	3
and SPAN 112 Elementary Spanish II	3
SPAN 120 Advanced Elementary Spanish	5
or SPAN 121 Advanced Elementary Spanish I	3
and SPAN 122 Advanced Elementary Spanish II	3
SPAN 150 Spanish for Heritage Speakers I	4
SPAN 152 Spanish for Heritage Speakers II	4
SPAN 161 Readings in Spanish Literature I	3
SPAN 162 Readings in Spanish Literature II	3

Note: no more than 3 HIST units

HIST 246 History of Latinos in the U.S.	3
HIST 422 Modern Latin America	3

Note: no more than 3 LIT units

LIT.370 Readings in Literature of the Latino in the United States	3
LIT.371 Mexican-American Literature	3
LIT.372 Myth and Folklore of La Raza	3
LIT.373 Latin American Literature in Translation	3
Any language other than ENGL or SPAN	3-10

Associate Degree Unit Requirements Total **21-26\***

### TRANSFER PROGRAM - SPANISH

Cañada College offers lower division coursework required for transfer with a major in Spanish. Students should use PROJECT ASSIST ([www.assist.org](http://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.

## SPEECH

### Associate in Arts Transfer Program

The Department of Speech Communication Studies offers a variety of classes that focus on the study of communication theory as well as the development of practical skills. Students acquire a wide variety of knowledge and skills in the areas of Communication Studies, Public Speaking, Oral Interpretation, Interpersonal Communication and Intercultural Communication. The instructors in this department emphasize the necessity of strong and logically structured argument in public speaking contexts, at the same time recognizing the primacy of humane and empathetic elements in all human communication. Classes are designed to assist students in becoming more competent communicators.

Communication skills are essential in both work and social settings. Oral and written communication skills are at the top of the list of qualities that employers look for in job candidates. Career opportunities for the program graduate includes the following careers: Advertising Executive, Business Executive, Communication Specialist, Consultant, Employee Relations Representative, Film Editor, Human Resource Administrator, Impression Management Specialist, Journalist, Media Consultant, Newscaster, Professor, Public Relations Representative, Publications, Radio Programmer, Sales Representative, Speech Writer, Teacher, Technical Writer, Television Producer, Trainer, Writer.

### ASSOCIATE IN ARTS - SPEECH

#### Core and Selective Requirements

Complete Core Courses, 15 units

	UNITS
SPCH 100 Public Speaking	3
SPCH 102 Introduction to Communication Studies	3
SPCH 111 Oral Interpretation	3
SPCH 120 Interpersonal Communication	3
SPCH 150 Intercultural Communication	3

Selective courses: choose a minimum of 3 units from the following:

ANTH 110 Cultural Anthropology	3
PHIL 103 Critical Thinking	3
PHIL 200 Introduction to Logic	3
PHIL 240 Introduction to Ethics	3
PSYC 100 General Psychology	3
PSYC 200 Developmental Psychology	3
PSYC 300 Social Psychology	3
SOCI 100 Introduction to Sociology	3
SOCI 141 Ethnicity and Race in Society	3

Associate Degree Unit Requirements Total **18\***

### TRANSFER PROGRAM - SPEECH

Cañada College offers lower division coursework required for transfer in Speech. Students should use PROJECT ASSIST ([www.assist.org](http://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.

## THEATRE ARTS

### Associate in Arts

#### Transfer Program

"The Cañada College Theatre Arts Department presents a program rich in depth and diversity. Students pursuing a career in the theatre arts or simply desiring creative expression will find in the drama department a wide array of relevant and exciting courses, as well as an extensive opportunity to put their developing knowledge and talent to work in both the creative and technical aspects of production. Students have the opportunity to perform, direct, design, build, crew, and manage plays ranging from broad comedy to edgy dramatic works.

The Cañada Theatre Arts Department can point with satisfaction to a significant and steadily growing number of its former students who go on to professional stage, film, and television work as performers, producers, and technicians - and also to the many gratified amateurs.

The Theatre Arts program is designed for students of all levels of experience. Graduates can pursue careers in: acting for stage, film, and television; voiceover for radio, TV, and video games, disk jockey; teaching drama and public speaking to children and adults in schools, theatres, and professional environments; directing for film, television, and the stage; writing for film, television, and the stage; stage management, event management, talent agent, casting director, company manager, executive director; public relations, marketing; sound design, broadcast technician, light design, makeup artist, hair stylist, wardrobe manager; carpentry, electric engineering.

### ASSOCIATE IN ARTS - THEATRE ARTS

#### Core and Selective Requirements

#### Complete Core Courses, 9 units

	<b>UNITS</b>
DRAM 101 Theatre History	3
DRAM 140 Introduction to the Theatre	3
DRAM 200 Theory and Practice of Acting	3

#### Selective Courses, choose a minimum of 12 units from the following

##### Take 3 units from the following courses:

DRAM 233 Play Production Lab	3
DRAM 300 Play Rehearsal/Performance	3

##### Take 9 units from the following courses:

DRAM 150 Script Analysis	3
DRAM 151 Intro to Shakespeare I	3
DRAM 152 Intro to Shakespeare II	3
DRAM 160 Latin American Theatre	3
DRAM 212 Stage Voice	3
DRAM 221 Stage Movement	3
DRAM 305 Technical Production	1

##### Only one of the following courses may be selected:

DRAM 201 Advanced Acting I	3
DRAM 202 Advanced Acting II	3
DRAM 203 Advanced Acting III	3

<b>Associate Degree Unit Requirements Total</b>	<b>21*</b>
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### TRANSFER PROGRAM - THEATRE ARTS

Cañada College offers lower division coursework required for transfer in Drama. Students should use PROJECT ASSIST ([www.assist.org](http://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.*