

**MATH R011P—Elementary Algebra Problem Solving 1 unit**

*Prerequisites: MATH R011 or concurrent enrollment.  
1 hour lecture weekly*

Course is a problem-solving session to accompany MATH R011. It gives students the chance to gain a greater mastery of the topics covered in MATH R011 by providing additional discussion and problem-solving opportunities. It also gives students a richer experience in elementary algebra by introducing supplementary topics related to the core material of MATH R011. This course may also include appropriate topics from the history of mathematics and opportunities to use a computer in solving algebra and related problems. Course may be taken two times. (2)

**MATH R014—Intermediate Algebra 5 units**

*Prerequisites: MATH R011.  
5 hours lecture weekly*

This is a second course in algebra emphasizing applications of mathematics to scientific and logical problems. Students learn to analyze and interpret problems, develop inductive and deductive logic abilities and apply these skills to solutions of verbal and quantitative problems. The topics include solutions of systems of linear equations; functions; graphing of linear and non-linear functions; complex numbers; radical expressions and equations; solutions of equations of higher degree; rational expressions and equations; exponential and logarithmic functions; conic sections; sequences and series. (2)

**MATH R014P—Intermediate Algebra Problem Solving 1 unit**

*Prerequisites: MATH R014 or concurrent enrollment.  
1 hour lecture weekly*

Course is a problem-solving session to accompany MATH R014. It gives students the chance to gain a greater mastery of the topics covered in MATH R014 by providing additional discussion and problem-solving opportunities. It also gives students a richer experience in intermediate algebra by introducing supplementary topics related to the core material of MATH R014. This course may also include appropriate topics from the history of mathematics and opportunities to use a computer in solving algebra and related problems. Course may be taken two times. (2)

**MATH R093—Overcoming Math Anxiety 1 unit**

*1 hour lecture weekly*

Course intended to help overcome Math anxieties and fears so that personal goals requiring Math can be achieved. Not applicable for degree credit. (2)

**MATH R098—Short Courses in Mathematics 1/2-10 units**

*Lecture and/or lab hours as required by unit formula*

Short courses covering special, specific topics in mathematics not covered in detail in other Math courses. May be the same as Physical Science.

**MATH R100L—Computer-Assisted Laboratory 1 unit**

*Prerequisites: MATH R014.  
3 hours lab weekly*

This course is meant to serve as a computer supplement to any 100-level mathematics class. The student uses the computer as a tool, allowing access to software relevant to the class currently being taken. The student may become involved in drill work, projects, exercises, math or science games, or other training activities. This class affords students an opportunity to deepen their knowledge to an extent not possible in the regularly allotted class time. Materials fee is required. Course may be taken four times. This course does not satisfy the laboratory science requirement for the AA/AS degree. (Same as PHSC R100L) (2)

*Transfer credit: CSU*

**MATH R101—Mathematics for the Liberal Arts Major 3 units**

*Prerequisites: MATH R014.  
3 hours lecture weekly*

Course gives the Liberal Arts major a better understanding of the deductive process and the nature of mathematics. Course will explore character and origin of various mathematics subject fields. (2)

*Transfer credit: CSU (CAN: MATH 2)*

**MATH R102—Math for Elementary Teachers 4 units**

*Prerequisites: MATH R014.  
3 hours lecture, 3 hours lab weekly*

Designed for candidates for elementary teaching credential; topics include problem-solving, language of sets, number systems, and numerical operations; emphasis on explanations for elementary school students.

*Transfer credit: UC, CSU*

**MATH R103—Finite Mathematics 3 units**

*Prerequisites: MATH R014.  
3 hours lecture weekly*

For students of business and social or behavioral sciences. Topics include sets, problems in counting and probability, linear programming, game theory, and their applications in business and social, behavioral, and life sciences. (2)

*Transfer credit: UC, CSU (CAN: MATH 12)*

**MATH R105—Introductory Statistics 4 units**

*Prerequisites: MATH R014.  
4 hours lecture weekly*

This course covers descriptive and applied statistics for students of social sciences, education, business, life sciences, and engineering. Included are discussions of measures of central tendency and variation, probability and sets, normal curves, hypothesis testing, regression and correlation, the "t" and *chi-square* distributions, analysis of variance and non-parametric tests. (2)

*Transfer credit: UC, CSU (CAN: STAT 2)*

**MATH R105L—Statistics Computer Laboratory 1 unit**

*Corequisites: MATH R105.  
3 hours lab weekly*

MATH R105L is an optional three-hour laboratory to be taken concurrently with MATH R105. In the course, students will be taught how to use the statistical software package called MINITAB and they will complete laboratory exercises using MINITAB. They will also learn to work in small groups to do projects and solve problems. (2)

*Transfer credit: CSU*

**MATH R105P—Statistics Problem Solving 1 unit**

*Corequisites: Enrollment in MATH R105.  
1 hour lecture weekly*

This course is a problem-solving session to accompany MATH R105. It gives students the chance to gain a greater mastery of the topics covered in MATH R105 by providing additional discussion and problem-solving opportunities. This includes opportunities to learn from each other by working in small groups on projects and assignments. The course offers students time to do lab exercises, often using a computer to aid calculations. (2)

*Transfer credit: CSU*

**MATH R106—Mathematics for Business Applications** **5 units**

*Prerequisites:* MATH R014.  
5 hours lecture weekly

Short course in calculus and analytic geometry for students in business, social and life sciences; topics include functions, limits, differentiation and curve sketching, related rates, maxima and minima, integration, and differential equations. Not recommended to mathematics and physical science majors. (2)

*Transfer credit:* UC, CSU (CAN: MATH 30)

**MATH R115—College Algebra** **3 units**

*Prerequisites:* MATH R014.  
3 hours lecture weekly

An advanced course in algebra, this course focuses on the study of functions and their graphs, techniques of solving equations and the recognition and creation of patterns. Students will analyze and graph functions (constant, linear, quadratic, absolute value, square root, cubic, polynomial, rational, exponential, and logarithmic). Topics also include inequalities, absolute values, analytic geometry of conic sections, systems of linear and nonlinear equations and inequalities, matrices, determinants, the binomial theorem, sequences, series, and mathematical induction. This course includes problem-solving strategies with applications to many areas including business and the social, biological, and physical sciences. (2)

*Transfer credit:* UC, CSU

**MATH R115P—College Algebra Problem Solving** **1 unit**

*Prerequisites:* MATH R115 or concurrent enrollment.  
1 hour lecture weekly

Course is a problem-solving session to accompany MATH R115. It gives students the chance to gain a greater mastery of the topics covered in MATH R115 by providing additional discussion and problem-solving opportunities. It also gives students a richer experience in intermediate algebra by introducing supplementary topics related to the core material of MATH R115. This course may also include appropriate topics from the history of mathematics and opportunities to use a computer in solving algebra and related problems. Course may be taken two times. (2)

*Transfer credit:* CSU

**MATH R116—College Trigonometry** **3 units**

*Prerequisites:* MATH R014.  
3 hours lecture weekly

Topics include the trigonometric functions and their graphs, radian measure, trigonometry identities and equations, complex numbers, DeMoivre's Theorem. (2)

*Transfer credit:* CSU (CAN: MATH 8)

**MATH R116P—College Trigonometry Problem Solving** **1 unit**

*Prerequisites:* MATH R116 or concurrent enrollment.  
1 hour lecture weekly

Course is a problem-solving session to accompany MATH R116. It gives students the chance to gain a greater mastery of the topics covered in MATH R116 by providing additional discussion and problem-solving opportunities. It also gives students a richer experience in intermediate algebra by introducing supplementary topics related to the core material of MATH R116. This course may also include appropriate topics from the history of mathematics and opportunities to use a computer in solving trigonometry and related problems. Course may be taken two times. (2)

*Transfer credit:* CSU

**MATH R118—Precalculus Mathematics** **5 units**

*Prerequisites:* MATH R014.

This course gives the calculus-bound student a solid foundation in precalculus algebra and analytic trigonometry, with emphasis on function concepts and graphing. Topics include equations and inequalities, analytic geometry of lines and conic sections, properties of functions, techniques of graphing, elementary functions

(linear, quadratic, rational, exponential, logarithmic, and trigonometric) and inverse functions, trigonometric identities and equations, polar graphing, optimization applications, systems of equations, theory of equations, mathematical induction, binomial theorem, sequences, and series. (2)

*Transfer credit:* CSU (CAN: MATH 16)

**MATH R118A—Precalculus I** **4 units**

*Prerequisites:* MATH R014.  
4 hours lecture weekly

Course is designed to give calculus-bound students a solid foundation in trigonometric functions. Course also includes equations, inequalities, coordinates and graphs, operations on functions and techniques of graphing function. No credit for students having successfully completed MATH R116 (College Trigonometry). (2)

*Transfer credit:* UC, CSU (CAN: MATH 16 (MATH R118A + R118B))

**MATH R118B—Precalculus II** **4 units**

*Prerequisites:* MATH R118A.  
4 hours lecture weekly

Course is designed to give calculus-bound students a solid foundation in college algebra and analytic geometry. Topics include polynomial, rational, exponential and logarithmic functions, systems of equations, conic sections, roots of equations, mathematical induction, the Binomial theorem, and introduction to arithmetic and geometric series. No credit for students who have successfully completed MATH R115 (College Algebra).

*Transfer credit:* UC, CSU (CAN: MATH 16 (MATH R118A + R118B))

**MATH R118P—Pre-Calculus Mathematics Problem Solving** **1 unit**

*Prerequisites:* MATH R118 or concurrent enrollment in MATH R118.  
1 hour lecture weekly

Course is a problem-solving session to accompany MATH R118. It gives students the chance to gain a greater mastery of the topics covered in MATH R118 by providing additional discussion and problem-solving opportunities. It also gives students a richer experience in intermediate algebra by introducing supplementary topics related to the core material of MATH R118. This course may also include appropriate topics from the history of mathematics and opportunities to use a computer in solving algebra and related problems. (College credit only; does not apply toward a degree.) Course may be taken two times. (2)

*Transfer credit:* CSU

**MATH R120—Calculus with Analytic Geometry I** **5 units**

*Prerequisites:* MATH R118A and either MATH R118B or MATH R115.  
(Note: MATH R118A replaces MATH R116.)  
5 hours lecture weekly

The first course in the calculus sequence, this course combines elements of analytic geometry with calculus applications. It includes the study of functions, limits, the derivative, continuity techniques and applications of differentiation, and an introduction to the anti-derivatives. (2)

*Transfer credit:* UC, CSU (CAN: MATH 18; MATH SEQ A (MATH R120 + R121; MATH SEQ C (MATH R120 + R121 + R122))

**MATH R120P—Calculus with Analytic Geometry I Problem Solving** **1 unit**

*Prerequisites:* MATH R120 or concurrent enrollment.  
1 hour lecture weekly

Course is a problem-solving session to accompany MATH R120. It gives students the chance to gain a greater mastery of the topics covered in MATH R120 by providing additional discussion and problem-solving opportunities. It also gives students a richer experience in intermediate algebra by introducing supplementary topics related to the core material of MATH R120. This course may also include appropriate topics from the history of mathematics and opportunities to use a computer in solving calculus and related problems. Course may be taken three times. (2)

*Transfer credit:* CSU

**MATH R121—Calculus with Analytic Geometry II** **5 units**

*Prerequisites: MATH R120.  
5 hours lecture weekly*

As the second course in the calculus sequence, this course emphasizes Integral Calculus, techniques of integration, and applications of definite integrals. It also includes the study of conic sections, parametric equations, and an introduction to differential equations. (2)

*Transfer credit: UC, CSU (CAN: MATH 20; MATH SEQ A (MATH R120 + R121; MATH SEQ C (MATH R120 + R121 + R122)*

**MATH R121P—Calculus with Analytic Geometry II Problem Solving** **1 unit**

*Prerequisites: MATH R121 or concurrent enrollment.  
1 hour lecture weekly*

Course is a problem-solving session to accompany MATH R121. It gives students the chance to gain a greater mastery of the topics covered in MATH R121 by providing additional discussion and problem-solving opportunities. It also gives students a richer experience in intermediate algebra by introducing supplementary topics related to the core material of MATH R121. This course may also include appropriate topics from the history of mathematics and opportunities to use a computer in solving trigonometry and related problems. Course may be taken two times. (2)

*Transfer credit: CSU*

**MATH R122—Calculus with Analytic Geometry III** **5 units**

*Prerequisites: MATH R121.  
5 hours lecture weekly*

As the third course in the calculus sequence, this course reviews the calculus of several variables and solid analytic geometry. It includes the study of partial derivatives, multiple integrals, infinite series, vector valued functions, line and surface integrals, Stoke's Theorem, and the Divergence Theorem. (2)

*Transfer credit: UC, CSU (CAN: MATH 22; MATH SEQ C (MATH R120 + R121 + R122)*

**MATH R122P—Advanced Calculus Problem Solving** **1 unit**

*Prerequisites: MATH R122 or MATH R125 or concurrent enrollment.  
1 hour lecture weekly*

Course is a problem-solving session to accompany MATH R122 or MATH R125. It gives students the chance to gain a greater mastery of the topics covered in these courses by providing additional discussion and problem-solving opportunities. It also gives students a richer experience by introducing supplementary topics related to the core material of MATH R122 or MATH R125. This course may also include appropriate topics from the history of mathematics and opportunities to use a computer in solving calculus and related problems. Course may be taken three times. (2)

*Transfer credit: CSU*

**MATH R125—Differential Equations with Linear Algebra** **5 units**

*Prerequisites: MATH R121.  
5 hours lecture weekly*

The topics in this course will include vector spaces, linear transformations and matrices, eigenvectors, determinants, canonical forms, ordinary differential equations, systems of equations, and Laplace and Fourier transformations. Field trips may be required. (2)

*Transfer credit: UC, CSU*

**MATH R134—Linear Algebra** **3 units**

*Prerequisites: MATH R120.  
3 hours lecture weekly*

Topics include vector spaces, linear transformations, matrix operations, determinants, and solutions of systems of linear equations; emphasis upon computational skills. (2)

*Transfer credit: UC, CSU (CAN: MATH 26)*

**MATH R143—Applied Differential Equations** **3 units**

*Prerequisites: MATH R121 or equivalent.  
3 hours lecture weekly*

Topics will include linear differential equations, systems of differential equations, higher order equations, the Laplace and power series solutions.

*Transfer credit: UC, CSU (CAN: MATH 24)*

**MATH R198—Short Courses in Mathematics** **1/2-10 units**

*Lecture and/or lab hours as required by unit formula*

Designed to meet specific needs of the college and community as required and requested by persons whose needs in this area are not met by regular course offerings.

*Transfer credit: CSU*

**MATH R199—Directed Studies in Math** **1-3 units**

*Prerequisites: MATH R120.*

*Lecture and/or lab hours as required by unit formula*

Designed for students interested in furthering their knowledge on an independent study basis. Course may be taken two times. (2)

*Transfer credit: CSU*

**NOTE:** The courses listed below have been temporarily suspended. For further information, please contact the Math, Science & Health division office.

MATH 23	Geometry
MATH R137	Computer Programming—FORTRAN
MATH R137L	Computer Programming, Supervised Practice—FORTRAN
MATH R138	Computer Programming—PASCAL
MATH R138L	Computer Programming, Supervised Practice—PASCAL

## MICROBIOLOGY

See courses in Biological Sciences

## MULTIMEDIA STUDIES

The Multimedia Studies program provides students with a strong foundation in the emerging multimedia industry. Specific training is provided in the use of both software and hardware, content development and industry practices associated with producing multimedia products. Students are provided hands-on experience in multimedia through work-experience programs, internships, and on-campus instructional support projects.

### Career Opportunities

Graphic Artist	Animator
Game Designer	Writer
Programmer	Visual Designer
2D/3D Animator	Video Producer
Creative Director	Sound Designer

## Faculty

### Part-Time

Fundi Lehohn Jorge Sanchez-Perez

## u Multimedia

### Associate in Science Degree Certificate of Achievement

Required Core Courses:		Units
MM R101	Multimedia: An Overview	2
MM R102	Multimedia Visual Design	3
MM R103	Audio and Motion Graphics	3
MM R104	Multimedia Design	3
MM R105	Multimedia Production	3
MM R106	Multimedia Portfolios	3
<b>Total Required Units</b>		<b>17</b>

### Specialty Options (select one)

#### Art/Graphics Option

ART R104A	Beginning Color and Design	2
ART R104B	Intermediate Color and Design	2
ART R106A	Beginning Drawing	3
ART R130	Introduction to Commercial Art	2
PHOT R100	Introduction to Photography	3
<b>Total</b>		<b>12</b>

#### Broadcast/Television Option

TV R101	Broadcast Studio Operation	3
TV R102	Television Production Workshop	3
TV R103	Television Directing and Editing	3
TV R105	Television Writing	3
<b>Total</b>		<b>12</b>

#### Business Option

BUS R111A	Business Law I	3
BUS R120	Introduction to Business	3
BUS R121	Introduction to Management	3
BUS R123	Small Business Management	3
BUS R132A	Marketing	3
BUS R133	Advertising	3
<b>Total</b>		<b>18</b>

#### Journalism Option

JOUR R101	News Writing and Reporting	3
JOUR R104	Journalistic Layout and Design	3
JOUR R105	Magazine Production	2
JOUR R120	Newspaper Desktop Publishing with PageMaker	2
JOUR R133	Advertising	3
<b>Total</b>		<b>13</b>

#### Music Option

MUS R101	Fundamentals of Music	3
MUS R103A	Music Appreciation I: Listening and Understanding	3
MUS R107A	Class Piano I	2
MUS R107B	Class Piano II	2
<b>Total</b>		<b>10</b>

## Programming Option

CIS R100	Introduction to Computer Information Processing Systems	3
CIS R101	Problem Principles and Design	3
CIS R114A/L	COBOL Programming I/Lab	3/1
<b>Total</b>		<b>10*</b>

\*Plus one more course, to be determined by the department.

## Web Design Option

CIS R022A/L	Microsoft Office/Lab	3/1
CIS R025A/L	PowerPoint/Lab	2/1
CIS R028B/L	PageMaker/Lab	3/1
CIS R114A/L	COBOL Programming I/Lab	3/1
<b>Total</b>		<b>15*</b>

\*Plus one more course, to be determined by the department.

## Multimedia Courses

### MM R101—Multimedia: An Overview **2 units**

*2 hours lecture weekly*

This course presents an overview of the multimedia industry, including the commercial, artistic, and technical aspects of development and production. Topics include: the composition of development teams, occupational opportunities, evaluating multimedia, visual literacy's influence on our culture, and writing for nonlinearity. Field trips may be required.

*Transfer credit: CSU*

### MM R102—Multimedia Visual Design **3 units**

*2 hours lecture, 3 hours lab weekly*

Using traditional and computer tools, students learn principles of design, including: line, shape/form, space, size/scale, texture/pattern, orientation, light, value, volume, perspective, typography, and color. These principles are explored in a series of progressive projects that help students produce media that are aesthetically rich and artistically sound. Field trips may be required.

*Transfer credit: CSU*

### MM R103—Audio and Motion Graphics **3 units**

*2 hours lecture, 3 hours lab weekly*

The student will be introduced to audio and video production for multimedia. Topics include: creating, editing, or retooling preexisting sound and video files for multimedia projects; fundamentals of camera work, lighting, sound development, editing, and story boarding for interactive media. Field trips may be required.

*Transfer credit: CSU*

### MM R104—Multimedia Design **3 units**

*2 hours lecture, 3 hours lab weekly*

Students work collaboratively to write, design, and produce a full-scale, multimedia product, such as an online tutorial, interactive game or informative kiosk program. Using skills acquired in prior courses, students learn how to put it all together in two successive courses, from concept formation to formative evaluation, while working as a team on teacher-guided, real-world projects. Students design their projects, ideas are generated, specification documents/story boards are constructed, prospectus reports and scripts are written, delivery platforms are considered, media requirements are identified, preexisting media are collected, interfaces are designed, and rapid prototypes are created. Field trips may be required.

*Transfer credit: CSU*

### MM R105—Multimedia Production **3 units**

*2 hours lecture, 3 hours lab weekly*

Students work collaboratively to produce artifacts from designs and specifications (including created media). Students will write formative evaluations and documentation/instructional manuals. Field trips may be required.

*Transfer credit: CSU*

**MM R106—Multimedia Portfolios 3 units***2 hours lecture, 3 hours lab weekly*

Students develop entrepreneurship skills to prepare for self-managed and flexible careers in multimedia. Topics to be covered include: how to contact and communicate with prospective employers in written and verbal format, how to design and develop an effective resume and online portfolio, and how to prevent work or project ideas. Field trips may be required.

*Transfer credit: CSU*

# MUSIC

## Career Opportunities

Accompanist	Musicologist/Researcher
Arranger/Orchestrator	Music Business Administrator
Conductor/Music Director	Performer

## Faculty

**Full-Time**

James Kenney

**Part-Time**

Michael Bonn

Mona Decesare

Bruce Edmiston

Carlos Gonzales

Fundi Legohn

## Music Courses

**MUS R101—Fundamentals of Music 3 units***3 hours lecture weekly*

Designed for students with little or no prior understanding of music who wish to learn to read music; objective is to gain basic understanding of scales, intervals, chords, key signatures, time signatures, musical symbols, and an introduction to piano keyboard.

*Transfer credit: UC, CSU***MUS R102A—Music Theory I 4 units***Prerequisites: MUS R101.**3 hours lecture, 3 hours lab weekly*

Review of fundamentals; basic aspects of pitch and rhythm organization, intervals, keys and scales, tonality, cadences, basic melody, two-voice combinations, and decorate pitches, development of skills in analysis, music reading, aural training, and keyboard harmony. Designed for music majors and others with equivalent knowledge of fundamental music theory.

*Transfer credit: UC, CSU***MUS R102B—Music Theory II 4 units***Prerequisites: MUS R102A.**3 hours lecture, 3 hours lab weekly*

Continuation of MUS R102A. Study of three-voice counterpoint, chord structure, homophonic and contrapuntal textures, harmonic progression, secondary dominants, and tonality changes; analysis of binary, ternary, and through-composed forms; continued development of ear-training and keyboard skills. Designed for music majors and others with musical background.

*Transfer credit: UC, CSU***MUS R102C—Music Theory III 4 units***Prerequisites: MUS R102B.**3 hours lecture, 3 hours lab weekly*

Continuation of MUS R102B. Study of tonal structure and form, rondo form, variation forms, the fugue, the chorale prelude, and sonata form; seventh, ninth, diminished, Neapolitan and augmented

sixth chords; continued development of ear-training and keyboard skills; formal analysis. Designed for music majors and others of adequate musical background.

*Transfer credit: UC, CSU***MUS R102D—Music Theory IV 4 units***Prerequisites: MUS R102C.**3 hours lecture, 3 hours lab weekly*

Continuation of MUS R102C. Study of melodic, harmonic, rhythmic, and formal style characteristics in late 19th and 20th century music; analysis of works from Romantic, Impressionism, Expressionism, Neo-Classical, and "Modern" schools of composition. Continued development of ear-training and keyboard skills. Designed for music majors and others of adequate musical background.

*Transfer credit: UC, CSU***MUS R103A—Music Appreciation I: Listening and Understanding 3 units***3 hours lecture weekly*

Survey of Western musical history from medieval to present; special emphasis on understanding and enjoyment in listening with an introduction to principles employed in music.

*Transfer credit: UC, CSU***MUS R103B—Music Appreciation II: Masterpieces of Music Literature 3 units***Prerequisites: None. MUS R101 and/or MUS R103A recommended.**3 hours lecture weekly*

Survey of important composers, genres, and works from various style periods; emphasis on late Baroque, Classical, Romantic, and 20th century periods.

*Transfer credit: UC, CSU***MUS R104—Music History and Literature I 3 units***Prerequisites: MUS R101 and MUS R103 or equivalent.**3 hours lecture weekly*

Traces style and technique of music composition from Gregorian Chant through such developments as medieval organum, secular song, and dance music of Middle Ages and Renaissance; polyphony and madrigals of the Renaissance; Baroque opera and instrumental music through 18th century contributions of Vivaldi, Handel, and Bach. Emphasis is on listening and analyzing for style characteristics and on correlation of musical developments with those in other arts of the time. Recommended for music majors and others with adequate musical background.

*Transfer credit: UC, CSU (CAN: MUS 8)***MUS R105—Music History and Literature II 3 units***Prerequisites: MUS R101 and MUS R103 or equivalent, MUS R104 recommended.**3 hours lecture weekly*

Continuation of MUS R104. Study of changing styles, techniques, and forms of music from middle of 18th century to present. Recommended for music majors and others with adequate musical background.

*Transfer credit: UC, CSU (CAN: MUS 10)***MUS R106—College Choir 2 units***1 hour lecture, 3 hours lab weekly*

Learning and performing choral music for all interested men and women; choir participates in musical events on campus and/or in the community. Course may be taken four times. (2)

*Transfer credit: UC, CSU*

**MUS R107A—Class Piano I 2 units**

*1 hour lecture, 3 hours lab weekly*

Course starts with fundamentals of piano playing and continue through accompaniments, studies in piano literature, to reading choral scores, improvisation, and harmonization of melodies. (2)

*Transfer credit: UC, CSU*

**MUS R107B—Class Piano II 2 units**

*Prerequisites: MUS R107A.*

*1 hour lecture, 3 hours lab weekly*

Studies continue with additional major scales, cadence chord progressions, damper pedal technique, and further introductory/intermediate literature. (2)

*Transfer credit: UC, CSU*

**MUS R107C—Class Piano III 2 units**

*Prerequisites: MUS R107B.*

*1 hour lecture, 3 hours lab weekly*

Studies in more intermediate piano literature, technique, improvisation, harmonization and sight-reading. (2)

*Transfer credit: UC, CSU*

**MUS R107D—Class Piano IV 2 units**

*Prerequisites: MUS R107C.*

*1 hours lecture, 3 hours lab weekly*

Studies in more advanced piano literature, technique, improvisation, harmonization and sight-reading. (2)

*Transfer credit: UC, CSU*

**MUS R108—Applied Music Study—Keyboard 1 unit**

*Prerequisites: MUS R107 or equivalent, concurrent enrollment in a music activity course. MUS R102ABCD or concurrent enrollment recommended.*

*1 private lesson and 1 hour lecture weekly; daily practice required.*

Private instruction and individual practice. Qualifying or final examinations by music staff. Course may be taken four times. (2)

*Transfer credit: UC, CSU*

**MUS R110A—Voice I: Fundamentals of Vocal Techniques 3 units**

*2½ hours lecture, 1½ hours lab weekly*

Designed to begin development of vocal potential, to lay a foundation for proper vocal production, and to correct faulty singing. Material consists of song literature sung in English and vocal exercises. Basically for non-music majors or persons with little singing experience. (2)

*Transfer credit: UC, CSU*

**MUS R110B—Voice II: Vocal Development and the Art of Song 3 units**

*Prerequisites: MUS R110A.*

*2½ hours lecture, 1½ hours lab weekly;*

Continuation of MUS R110A in development of proper vocal production; English, Italian, French, and German art songs studied. Standards and jazz styling introduced. Recommended that singers with adequate vocal technique begin with MUS R110B. (2)

*Transfer credit: UC, CSU*

**MUS R110C—Voice III: Vocal Development and the Aria 3 units**

*Prerequisites: MUS R110B.*

*2½ hours lecture, 1½ hours lab weekly*

Continuation of vocal development through study of more challenging classical literature (e.g. Bach, Handel, Mozart). Songs by contemporary American composers and from musical theatre (e.g. Webber and Sondheim) may also be studied. (2)

*Transfer credit: UC, CSU*

**MUS R110D—Voice IV: Voice in Musical Theatre Workshop 3 units**

*Prerequisites: MUS R110C.*

*2½ hours lecture, 1½ hours lab weekly*

Study of song literature from opera and musical theatre; studying and performing operas and musical plays in excerpt. Designed for singers with proven ability and interest in drama. (2)

*Transfer credit: UC, CSU*

**MUS R111—Applied Music Study—Voice 1 unit**

*Prerequisites: MUS R110BC or equivalent and concurrent enrollment in one music activity course; MUS R102ABCD or concurrent enrollment recommended.*

*1 private lesson and 1 hour lecture weekly; daily practice required*

Private instruction and individual practice. Qualifying or final examinations by music staff. Course may be taken four times. (2)

*Transfer credit: UC, CSU*

**MUS R112—Applied Music Study—Instruments 1 unit**

*Prerequisites: Minimum ability (intermediate level) on an instrument and concurrent enrollment in one music activity course. MUS R102ABCD or concurrent enrollment recommended.*

*1 private lesson and 1 hour lecture weekly; daily practice required*

Private instruction and individual practice. Qualifying or final examinations by music staff. Course may be taken four times. (2)

*Transfer credit: UC, CSU*

**MUS R114—Concert Band 1 unit**

*Prerequisites: Competency with a musical instrument appropriate to a concert band.*

*3 hours lab weekly*

Rehearsal and performance of representative band literature; public performances may be given on campus and in the community. Course may be taken four times. (2)

*Transfer credit: UC, CSU*

**MUS R115—Introduction to World Music 3 units**

*3 hours lecture weekly*

An introductory course focusing on the folk and classical music of non-western cultures, such as Indian, Oriental, African and Indonesian. (2)

*Transfer credit: UC, CSU*

**MUS R116—History of Rock Music 3 units**

*3 hours lecture weekly*

Musical and cultural survey of original form of American music. Musical trends followed from influential traditions of early blues and jazz to most recent developments. Topics for consideration include Early Rock, the "British Invasion," and the Jazz-Rock Fusion. (2)

*Transfer credit: UC, CSU*

**MUS R117—Stage Band 1 unit**

*Prerequisites: Competency with a musical instrument appropriate to a stage band.*

*3 hours lab weekly*

Practical experience in performing music in popular and jazz styles arranged for stage band. Public performances on campus and in community. Course may be taken four times. (2)

*Transfer credit: UC, CSU*

**MUS R118—Introduction to Guitar 1 unit**

*3 hours lab weekly*

Fundamentals of guitar and related musicianship; basic techniques and repertoire unique to the folk guitar; chordal accompaniment to folk singing will be emphasized. Students furnish own instrument. Course may be taken four times. (2)

*Transfer credit: UC, CSU*

**MUS R119—History of Jazz** 3 units

3 hours lecture weekly

Examination of musical elements as they apply to Jazz; historical survey of major jazz styles from origins to most recent trends. (2)

Transfer credit: UC, CSU

**MUS R120—Performance of Gospel Music** 1 unit

3 hours lab weekly

Study and performance of solo and choral literature from the Black gospel music tradition, open to interested men and women of all backgrounds. Public performances may be given. (2)

Transfer credit: UC, CSU

**MUS R121—Vocal Ensemble** 1 unit

Prerequisites: Demonstrated ability in performing area.

3 hours rehearsal weekly

Development of vocal chamber groups to study literature written for ensemble groups; to perfect and perform these compositions. (2)

Transfer credit: UC, CSU

**MUS R124—Choral Conducting** 3 units

Prerequisites: Ability to read music score.

3 hours lecture weekly

Basic conducting skills and rehearsal procedure. Exploration of choral literature suitable for school, church, and civic choirs—style, performance, and interpretation. (2)

Transfer credit: UC, CSU

**MUS R125—Musical Theatre Rehearsal and Performance** 2 units

Prerequisites: Audition required.

1 hour lecture, 3 hours lab weekly

Rehearsal and performance of college-sponsored musical theatre productions; experience in one or more aspects of a production: leading roles, chorus, dancing, dramatic techniques of musicals, backstage and technical work. Course may be taken two times. (2)

Transfer credit: UC, CSU

**MUS R189A—Black Experience in the Fine Arts** 3 units

3 hours lecture weekly

Designed for students wishing to increase their knowledge and understanding of music, art, poetry, dance, and theatre as they relate to contemporary Black society. (2)

Transfer credit: UC, CSU

**MUS R198—Short Courses in Music** 1/2-10 units

Lecture and/or lab hours as required by unit formula

Short courses in selected areas of music to meet specific needs of college or community as required or requested by persons whose needs are not met by regular course offerings. Topics might include but are not limited to musical theatre, opera workshop, accompanying, piano teaching, conducting, church music, instrumental or choral techniques, master classes, diction, music education. (2)

Transfer credit: CSU

**MUS R199—Directed Studies in Music** 1-3 units

Prerequisites: A course in the specific field.

Lecture and/or lab hours as required by unit formula

Designed for students interested in furthering their knowledge of music on an independent study basis; assigned problems will involve library, lab, and field work. Course may be taken two times.

Transfer credit: CSU

# PERSONAL GROWTH/ LEADERSHIP

The Personal Growth course offerings provide an assortment of courses which enable people to better understand themselves, institutions, and the work world, with a professional counselor as instructor, advisor, and/or facilitator.

## Faculty

### Full-Time/Counselor

Margarita Corral

Anthony Raptis

Emma Waits

## Leadership Courses

**LDR R100—Student Leadership** 3 units

2 hours lecture, 3 hours lab weekly

This course is designed to provide emerging and existing leaders the opportunity to explore the concept of leadership and to develop and improve their leadership skills. The course prepares students to assume leadership positions in organizations and emphasizes team building, time management, conflict resolution, goal setting, decision-making skills, and effective communication styles. Contemporary readings on leadership are integrated into the classroom discussions. Field trips may be required. (2)

Transfer credit: CSU

## Personal Growth Courses

**PG R001—Orientation: All About Oxnard College** 1/2 unit

1/2 hour lecture weekly

Course offers information about academic counseling, study skills, college activities and clubs, student services, vocational programs, and basic survival hints. Not applicable for degree credit. Course may be taken two times. (1)

**PG R002—Job Development** 1/2 unit

1/2 hour lecture weekly

Specialized workshops or services designed to upgrade student abilities in the area of job-seeking techniques, job resume preparation, and job interviewing methods; practical experiences in the actual resume writing process, as well as personal interviewing practice. Not applicable for degree credit. Course may be taken two times. (1)

**PG R003—Academic Assessment** 1 1/2 units

1 1/2 hours lecture weekly

To assist students in assessing their past, present, and future academic objectives; by reviewing their past academic performance, students will be able to determine whether their present academic objectives are realistic. Not applicable for degree credit. (2)

**PG R004—Peer Advisor Training** 3 units

3 hours lecture weekly

Familiarizes students with philosophy, goals, program, course offerings and services of community colleges, and techniques and skills designed to develop and improve students' ability to relate to and help fellow students. Successful participation in this course is recommended for campus peer advisor positions. Not applicable for degree credit. Course may be taken two times. (2)

**PG R005—Career Search** 1 1/2 units

1 1/2 hours lecture weekly

Students will explore their values, aptitudes, interests, and temperaments and how they assess themselves in the various occupational choices they are making. Procedures for value clarification and decision making will be practiced. Test interpretation and personal counseling used to assist students in examining vocational options. Not applicable for degree credit. (1)

**PG R006—Vocational Assessment** ½ unit

½ hour lecture weekly

Assist students in career preparation, selection, and access. Individualized vocational testing and counseling to provide maximum input on vocational goals and future plans. Not applicable for degree credit. Course may be taken three times. (1)

**PG R007—Single Parent Issues** 1 unit

1 hour lecture weekly

Course designed as support system for low income, single parent students. Students will explore attitudes, develop goals, and examine problems that might be encountered in achieving goals. Students gain knowledge of campus and community resources to assist in their progress. Not applicable for degree credit. Course may be taken three times. (1)

**PG R008—Student Success: Life Skills: Time Management** 1 unit

1 hour lecture weekly

This course is designed to provide students with appropriate skills in life by teaching them time management techniques: evaluation, priorities, keeping a daily journal, and projecting a five-year plan for them. Course may be taken two times. (1)

**PG R009—Student Success: Life Skills: Goal Setting** 1 unit

1 hour lecture weekly

This course is designed to provide students with skills in life by teaching them to brainstorm their goals, sort their goals and then to create a step-by-step plan to achieve immediate goals as well as long-term goals. Course may be taken two times. (1)

**PG R010—Student Success: Life Skills: Building Resources and Support Systems** 1 unit

1 hour lecture weekly

This course is designed to provide students with a knowledge of all student services and college services offerings as well as community resources from both the college services and the community services. Course may be taken two times. (1)

**PG R011—Student Success: Life Skills: Reviewing Your Personal Skills and Professional Achievements** 1 unit

1 hour lecture weekly

This course is designed to provide students with a knowledge of all student services and college services offerings as well as community resources, and how to profit services. Course may be taken two times. (1)

**PG R012—Student Success: Life Skills: Reducing and Managing Stress In Your Life** 1 unit

1 hour lecture weekly

This course is designed to provide students with life skills in order to handle the stress of everyday life, school, family, relationships, and finances. Course may be taken two times. (1)

**PG R014—Student Success: Life Skills: Clarifying Your Values** 1 unit

1 hour lecture weekly

This course is designed to provide students with an avenue to look at the beliefs and values that they live and to support these more clearly or to take away the ones that create stumbling blocks toward their career and life goals. Course may be taken two times. (1)

**PG R098—Short Courses in Personal Growth** ½-1 unit

Lecture and/or lab hours as required by unit formula

This course is designed to meet specific needs of our community and students in the area of personal growth topics. Not applicable for degree credit. Course may be taken two times. (1)

**PG R100A—Student Success: EOPS** 1 unit

1 hour lecture weekly

This course is designed to provide students with college survival techniques: Learn what the EOPS services are, tour the campus, use the college catalogue, identify the requirements for graduation and transferring to a four year university, navigate the financial aid process and requirements, review academic policy, utilize career search services, explore other support services, review available study skills and learn how to develop an educational plan. (1)

Transfer credit: CSU

**PG R101A—Career Development and Life Planning I** 3 units

3 hours lecture weekly

Assists students systematically to examine components of career choice; focuses on career awareness, personal awareness, and educational awareness as they relate to the process of career choice. Planning skills and self-assessment instruments will help identify tentative career possibilities. Course may be taken two times. (2)

Transfer credit: CSU

**PG R101B—Career Development and Life Planning II** 3 units

Prerequisites: PG R101A.

3 hours lecture weekly

Provides in-depth methods of self-assessment, and increases personal knowledge and awareness for developing effective career decision-making strategies. (2)

Transfer credit: CSU

**PG R102—College Success** 3 units

3 hours lecture weekly

Course teaches student academic success by presenting the theory and practice of effective study skills, life skills, coping skills and learning skills and encourages the enhancement of student motivation and self-esteem through the use of assessment procedures, journals, and class discussions. Course may be taken two times. (2)

Transfer credit: CSU

**PG R198—Short Courses in Personal Growth** ½-10 units

Lecture and/or lab hours as required by unit formula

Course offerings in personal growth designed to meet specific needs of the college and community as required and/or requested by persons or organizations. Field trips may be required. Course may be taken two times. (2)

Transfer credit: CSU

# PHILOSOPHY

## Career Opportunities

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Business Executive	Sales Personnel/Manager
Social/Welfare Worker	Teacher

## Faculty

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<b>Full-Time</b>	<b>Part-Time</b>
Carolyn Dorrance	Lee French
Christopher Horrock	Russell Sanders
	James Tepfer
	Douglas Thiel

## u Philosophy

### Associate in Arts Degree

#### Required Courses:

	Units
PHIL R101 Introduction to Philosophy	3
PHIL R107 Logic	3
	6

#### Required Additional Courses:

	Units
Complete a minimum of 12 units from the following:	
ANTHR189C Magic, Religion, and Witchcraft	3
ECON R101 Principles of Macroeconomics	3
PHIL R102 Introduction to Ethics	3
PHIL R103 World Religions: East	3
PHIL R104 World Religions: West	3
PHIL R105 Great Philosophers I	3
PHIL R106 Great Philosophers II	3
PHIL R110 Philosophy of Religion	3
PHIL R111 Critical Thinking	3
PHIL R114 Social Philosophy	3
POLS R100 Introduction to Politics	3
SOC R114 Social Philosophy	3
	12
<b>Total Required Units</b>	<b>18</b>

## Philosophy Courses

### PHIL R101—Introduction to Philosophy 3 units

3 hours lecture weekly

This course attempts to clarify the nature of the philosophic enterprise and the place of philosophy in intelligent living. At least two of the following areas are surveyed: metaphysics (study of reality), epistemology (nature of knowledge), political philosophy, aesthetics, philosophy of science, and philosophy of religion. An effort is made to relate the thoughts of the philosopher directly to experiences and vital concerns of beginning students. This course is recommended for both majors and non-majors. (2)

Transfer credit: UC, CSU (CAN: PHIL 2)

### PHIL R102—Introduction to Ethics 3 units

3 hours lecture weekly

This course provides an introduction to the nature and main types of ethical theory developed in the West. The course will examine the continuing quest for developing adequate ethical theories for contemporary individuals, together with suggestions for making progress toward this goal. This course is recommended for both majors and non-majors. (2)

Transfer credit: UC, CSU (CAN: PHIL 4)

### PHIL R103—Survey of World Religions: East 3 units

3 hours lecture weekly

Origin and historical development of major ideas of the world's Eastern religious traditions, including Hinduism, Buddhism, Taoism, Confucianism, and Zen. (2)

Transfer credit: UC, CSU

### PHIL R104—Survey of World Religions: West 3 units

3 hours lecture weekly

Origin and historical development of major ideas of the world's Western religious traditions including Judaism, Christianity, and Islam. (2)

Transfer credit: UC, CSU

### PHIL R105—The Great Philosophers I 3 units

3 hours lecture weekly

Introduction to philosophy from an historical perspective; considers ideas which have had a dominant impact on Western Civilization, their logical development, and their influence on contemporary society. Begins with the birth of science and philosophy in ancient Greece and continues to the development of Christian philosophy through the Middle Ages. Special emphasis given to Socrates, Plato, and Aristotle. (2)

Transfer credit: UC, CSU (CAN: PHIL 8; PHIL SEQ A (PHIL R105 + R106))

### PHIL R106—The Great Philosophers II 3 units

3 hours lecture weekly

Introduction to philosophy from an historical perspective; considers the ideas which have had a dominant impact on Western civilization, their logical development, and their influence on contemporary society. Begins with the birth of the modern mind and rise of science in the Renaissance and continues to present day. Special emphasis given to the schools of rationalism, empiricism, critical philosophy, and existentialism. (2)

Transfer credit: UC, CSU (CAN: PHIL 10; PHIL SEQ A (PHIL R105 + R106))

### PHIL R107—Logic 3 units

3 hours lecture weekly

This course provides an introduction to the subject of deductive reasoning. Both ancient and modern forms of argument and language analysis will be considered. Students will learn how to translate ordinary statements and arguments into formal symbolic language. Students will also learn how to evaluate the results and outcomes of modern symbolic logic. An effort is made to help students develop an introductory understanding of systematic thinking and to apply formal analytical skills to other subjects in the college curriculum. This course is recommended for both majors and non-majors. (2)

Transfer credit: UC, CSU

### PHIL R108—Mythology 3 units

3 hours lecture weekly

Survey and comparative study of global myths concerning origin of world, nature of universe and humankind, processes of change and transformation, and connections between spiritual and mundane worlds; also examines philosophical and social functions of myths and symbols. (2)

Transfer credit: UC, CSU

### PHIL R109—Modern Religious Movements in America 3 units

3 hours lecture weekly

Survey of modern and often highly unusual religious movements in America, including variants of Christianity and non-Christian religions—Zen and Tibetan movements, Vedanta, Transcendental Meditation, Krishna Consciousness, spiritualism, and Satanism—as well as a discussion of the history of religious movements and causes underlying current religious variations. (2)

Transfer credit: UC, CSU

### PHIL R110—Philosophy of Religions 3 units

3 hours lecture weekly

The philosophy of religion investigates empirical, logical, and rational basis for proving existence of God, and understanding nature of God, God's relation to natural reality, and the impact of this philosophical study upon religions. (2)

Transfer credit: UC, CSU

**PHIL R111—Thinking Critically and Analytic Writing** 3 units

*Prerequisites: ENGL R101.  
3 hours lecture weekly*

This course provides an introduction to the nature of arguments: how to analyze them and assess the soundness of the reasoning they represent. Common fallacies that often occur in arguments are discussed in light of what counts as a good deductive or inductive inference. Other topics include the use of language in argumentation to arouse emotions as contrasted with conveying thoughts, logic of scientific experiments and hypothesis-testing in general, and some general ideas about probability and its application in making normative decisions (e.g., betting). Students will learn the basics of analytic writing and the relation of writing to critical thinking. Course credit not available for students with credit in PHIL R121. This course satisfies the IGETC Critical Thinking English Composition requirement. (2)

*Transfer credit: UC, CSU*

**PHIL R112—Symbolic Logic and Set Theory** 3 units

*3 hours lecture weekly*

Introduction to symbolic logic and set theory; includes investigation of truth and validity, formal proof and symbolizing relations, truth sets, truth tables and Boolean algebra, and a description of axiomatic systems. (2)

*Transfer credit: UC, CSU*

**PHIL R114—Social Philosophy** 3 units

*3 hours lecture weekly*

Social philosophy studies man in society from the standpoint of metaphysical and ethical principles and presuppositions of human nature. Course highlights major historical and contemporary perspectives in the history of philosophy and takes one prominent social philosopher for detailed study. Questions concerning legal and social relationships, purpose in social order, and ethical values in human institutions explored. (Same as SOC R114) (2)

*Transfer credit: UC, CSU*

**PHIL R121—Thinking Critically** 3 units

*3 hours lecture weekly*

This survey course for non-majors provides an introduction to the nature of arguments: how to analyze them and assess the soundness of the reasoning they represent. Common fallacies that often occur in arguments are discussed in light of what counts as a good deductive or inductive inference. Other topics include the use of language in argumentation to arouse emotions as contrasted with conveying thoughts, logic of scientific experiments and hypothesis-testing in general, and some general ideas about probability and its application in making normative decisions (e.g., betting). Course credit is not available for students with credit in PHIL R111. (2)

*Transfer credit: UC, CSU*

**PHIL R189—Topics in Philosophy** ½-3 units

*Lecture hours as required by unit formula*

Topics in selected areas of philosophy to meet specific needs of community or college as required or requested by persons whose needs are not met by regular course offerings. (2)

*Transfer credit: CSU*

**PHIL R199—Directed Studies in Philosophy** 1-3 units

*Lecture and/or lab hours as required by unit formula*

Designed for students interested in furthering their knowledge of philosophy on an independent study basis; assignments will include library research, written work, and discussion with instructor. Course may be taken two times. (2)

*Transfer credit: CSU*

# PHOTOGRAPHY

## Faculty

**Part-Time**  
Jim Englund

## Photography Courses

**PHOT R100—Introduction to Photography** 3 units

*2 hours lecture, 3 hours lab weekly*

Course is designed for the student with little or no previous photographic training. It includes both camera technique and the application of design, perspective, and aesthetic elements applied to taking outstanding photographs. Student must own or have access to a 35mm camera. Field trips may be taken. (2)

*Transfer credit: UC, CSU*

# PHYSICAL EDUCATION

Graduation Requirements for the Associate in Arts and Associate in Science degrees: Physical Education is not a requirement for enrollment in the college. However, students who wish to earn an Associate in Arts Degree must successfully complete a minimum of one Health Education course and one Physical Education activity course, without exemption.

Summer school Physical Education classes may count toward fulfilling requirements for an Associate in Arts degree.

**Uniform Requirements**—The uniform or costume appropriate for the course is required of all students.

## Career Opportunities

Pre-Athletic Trainer                      Pre-Physical Therapy  
Physical Education Instructor

## Faculty

**Full-Time**  
Remy McCarthy  
Ron McClurkin  
Jerry White

**Part-Time**  
Bill Becktel                                      Jorge Brescia  
Pam Cohen                                        Ron Cook  
Marti Dibble                                      Marcia Greycloud  
John Larson                                        George Peraza  
Mike Scanlon                                      Cameron West  
Michael Young

## Physical Education Courses

**PE R098—Short Courses in Physical Education** ½-10 units

*Lecture and/or lab hours as required by unit formula*

Short courses or activities designed to inform and/or train interested persons in various disciplines within the scope of Physical Education. Unit credit/hours determined by course format. (2)

## AQUATICS ACTIVITIES

**PE R100—Swimming for Non-Swimmer** 1½ units

*1 hour lecture, 2 hours lab weekly*

Course designed for the non-swimming individual with an anxiety toward water as determined by pre-swimming test. Introduction, instruction, and practice of the basic, fundamental elements of swimming skills and safety practices. Course may be taken four times. (2)

*Transfer credit: CSU*

**PE R101—Swimming for Fitness** **2 units**

*1 hour lecture, 3 hours lab weekly*

Course designed to improve swimming techniques. Emphasis on endurance training for improved cardiovascular fitness and weight control. Attention also given to survival techniques and emergency procedures. Course may be taken four times. (2)

*Transfer credit: CSU*

**PE R102A—Swimming I** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Swimming, diving, and water safety. Ability to pass American Red Cross Advanced Beginner Swimmer course will be a major aim. Course may be taken two times. (2)

*Transfer credit: CSU*

**PE R102B—Swimming II** **2 units**

*Prerequisites: PE R102A or equivalent.*

*1 hour lecture, 3 hours lab weekly*

Swimming, diving, and water safety. Ability to pass the American Red Cross Intermediate Swimmer course will be a major aim. Course may be taken two times. (2)

*Transfer credit: CSU*

**PE R103—Senior Life Saving/Advanced** **1½ units**

*Prerequisites: Ability to pass the qualification test.*

*1 hour lecture, 2 hours lab weekly*

Instruction and practice in American Red Cross Advanced Life Saving and Water Safety. Emphasis on personal safety, safety and self-rescue in the use of small craft, elementary forms of rescue, swimming rescue, artificial respiration. American Red Cross may include certification in Advanced Life Saving.

*Transfer credit: UC, CSU*

**PE R104—Water Safety Instructor** **3 units**

*Prerequisites: Current American Red Cross Advanced Lifesaving Certificate.*

*2 hours lecture, 3 hours lab weekly*

Theory and practical techniques needed to teach water safety techniques and procedures to all ages and abilities. May include certification as American Red Cross Water Safety Instructor with authorization to teach and certify swimming and life-saving classes, or American Red Cross Basic and Swimming Instructor with authorization to teach elementary swimming classes.

*Transfer credit: UC, CSU*

**PE R105—Aquatic Exercise/Rehabilitative** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Course designed to provide a water environment in which to conduct “weightless” exercise routines for those students with physical problems restricting exercise in weight-supported setting. Course may be taken four times. (2)

*Transfer credit: CSU*

**DANCE**

**PE R115—Rhythmic Dance/Athletes** **1½ units**

*Prerequisites: Recommended for students with advanced physical skills and/or participation in a varsity sport.*

*1 hour lecture, 2 hours lab weekly*

Analysis and use of rhythmic dance to enhance the physical and athletic capabilities of participants. Emphasis on flexibility, coordination, balance, rhythm, speed, agility and expressive movement. Incorporation of these factors in personal fitness and athletic performance. Course may be taken four times. (2)

*Transfer credit: CSU*

**PE R116A—Modern Dance I** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Development of proficiency in modern dance techniques, skills, and development of understanding and appreciation of modern dance as an art form. Course may be taken two times. (2)

*Transfer credit: UC, CSU*

**PE R116B—Modern Dance II** **2 units**

*Prerequisites: PE R116A or equivalent.*

*1 hour lecture, 3 hours lab weekly*

Continuing study of modern dance techniques with emphasis upon combination of basic skills. Study of the dance phrase integrating elements of rhythm, design, dynamics, and motivation change. Course may be taken two times. (2)

*Transfer credit: UC, CSU*

**PE R118A—Ballet I** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Introduction to basic ballet techniques, including exercise at the barre to develop flexibility, strength, control, and resilience and center practice of simple Port des Bras, Adage, and Allegra combinations. Course may be taken two times. (2)

*Transfer credit: UC, CSU*

**PE R118B—Ballet II** **2 units**

*Prerequisites: PE R118A or equivalent.*

*1 hour lecture, 3 hours lab weekly*

Continued study of ballet techniques with emphasis on more advanced skills necessary for center combinations and student performances. Course may be taken two times. (2)

*Transfer credit: UC, CSU*

**PE R119A—Modern Jazz I** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Development of proficiency in jazz technique and skills and development of an understanding and appreciation of jazz as a dance form. Course may be taken two times. (2)

*Transfer credit: UC, CSU*

**PE R119B—Modern Jazz II** **2 units**

*Prerequisites: PE R119A or equivalent.*

*1 hour lecture, 3 hours lab weekly*

Continuing study of Modern Jazz dance with technique emphasis upon combination of basic skills. Study of integrating elements of jazz dance, combining techniques, rhythm, design, and level change in dance form. Course may be taken two times. (2)

*Transfer credit: UC, CSU*

**PE R124—Mexican Folklorico Dance** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Development of basic Mexican dance skills, understanding and appreciation. Course may be taken two times. (2)

*Transfer credit: UC, CSU*

**INDIVIDUAL AND DUAL ACTIVITIES**

**PE R130—Martial Arts—Jujitsu** **1½ units**

*½ hour lecture, 3 hours lab weekly*

Jujitsu, one of the oldest Japanese martial arts practiced, was once used by the feudal samurai warrior class. It is an unarmed self-defence system incorporating various methods of defensive tactics. Emphasis is on break falling, kicking, punching, and blocking effectively as well as the application and defense of joint locks, nerve manipulation, chokes, take down and control techniques. Course may be taken three times.

*Transfer credit: CSU*

**PE R136—Golf/Approach and Putting** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Course designed to teach beginners mechanics of the short drive, chip shot, and putt. Also for persons already golfing to improve green approaches and trap techniques and putting. Course may be taken four times. (2)

*Transfer credit: CSU*

**PE R138—Handball** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Course designed to develop the knowledge and skills required to play handball, including beginning and more advanced skills, court etiquette, rules, game strategy, techniques, and safety. Course may be taken four times. (2)

*Transfer credit: CSU*

**PE R140A—Golf I** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Development of skill in playing golf, including etiquette, rules, and techniques. Course may be taken two times. (2)

*Transfer credit: CSU*

**PE R140B—Golf II** **2 units**

*Prerequisites: PE R140A or equivalent.*

*1 hour lecture, 3 hours lab weekly*

Advanced techniques and skills development with special emphasis on links play. Students are assigned play on local courses at their own expense. Course may be taken two times. (2)

*Transfer credit: CSU*

**PE R141A—Tennis I** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Development of skill in playing tennis, including beginning skills, etiquette, rules, and techniques of play. Course may be taken two times. (2)

*Transfer credit: CSU*

**PE R141B—Tennis II** **2 units**

*Prerequisites: PE R141A or equivalent.*

*1 hour lecture, 3 hours lab weekly*

Development of higher proficiency and performance of tennis skills with special emphasis on game strategy and techniques. Course may be taken two times. (2)

*Transfer credit: CSU*

**PE R142—Racquetball** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Course covers the basic fundamentals of racquetball including game rules, proper use and purchase of equipment, court etiquette and safety. Course may be taken four times. (2)

*Transfer credit: CSU*

**PE R143—Running for Fitness** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Exercise program of relaxed walking and running to improve fitness level of nearly everyone at any age level. Course may be taken four times. (2)

*Transfer credit: CSU*

**PE R146A—Walking for Fitness I** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Course designed to provide exercise and fitness training for the sedentary student population. Emphasis on cardiovascular conditioning and muscle tone. Individualized; meets most rehabilitation needs. Designed to prepare students for more strenuous physical activity. This course also includes two complete physical fitness evaluations in the college's Human Performance Lab to insure a more knowledgeable starting point and continuing evaluation. Course may be taken two times. (2)

*Transfer credit: CSU*

**PE R146B—Walking for Fitness II** **1½ units**

*Prerequisites: PE R146A.*

*1 hour lecture, 2 hours lab weekly*

Course designed to provide exercise and fitness training for the walking student population. Emphasis on individualized cardiovascular conditioning, muscle strength, and endurance related

specifically to walking and power walking. Designed for students to participate in and achieve a more strenuous physical activity program. Course may be taken two times. (2)

*Transfer credit: CSU*

**PE R147—Isotonic Exercise** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Studies mechanics of isotonics with examination of movement, endurance, flexibility, and strength exercises. May include, but not limited to, analysis of proper nutrition, stress reduction, cardiovascular efficiency, high blood pressure, and optimum body weight. Useful for persons currently employed in or contemplating entering vigorous or stress-producing occupations. Appropriate physical activities to test concepts presented. (2)

*Transfer credit: CSU*

**PE R148—Women's Conditioning** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Designed to improve general condition, feeling, and appearance of the body. Includes weight lifting, vigorous exercise, and understanding of effects of different types of exercise. Students will learn to establish own personal exercise and weight control program. Course may be taken four times. (2)

*Transfer credit: CSU*

**PE R149—Circuit Training** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Circuit training is a system of exercises designed in a particular sequence to meet a fitness goal. Students move from exercise station to station completing the circuit in a specific amount of time. A variety of circuits are used throughout the semester to meet a variety of fitness goals. Limited lecture/discussion on strength, development, flexibility maintenance, body composition, weight loss, diet/cholesterol, heart disease risk factor and other parameters of fitness. Course may be taken four times. (2)

*Transfer credit: CSU*

**PE R150—Weight Training/Conditioning** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Basic techniques, skills and principles of fitness and development and maintenance of a high level of efficiency. Course may be taken four times. (2)

*Transfer credit: CSU*

**ADAPTIVES**

**PE R151—Adapted Aquatics** **1½ units**

*1 hour lecture, 2 hours lab weekly*

A basic swimming/resistance instructional class for individuals with disabilities. Instruction will be tailored to each student's individual needs and swimming abilities. Course may be taken four times. (2)

*Transfer credit: CSU*

**PE R152—Adapted Movement Exploration** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Fundamentals of fitness through exercise and lecture, including individualized stretching programs, Tai-chi/Yoga, dance kinesthetic principles, and healthful living practices to improve self-image and body awareness in students having disabilities. Course may be taken four times. (2)

*Transfer credit: CSU*

**PE R153—Adapted Individual/Dual/Team Sports** **1½ units**

*1 hour lecture, 2 hours lab weekly*

Special course designed to meet needs of students unable to participate in non-adaptive individual, dual and team sports. Specific activity content may vary due to individual and group needs and interests. Course may be taken four times. (2)

*Transfer credit: CSU*

**PE R154—Adapted Body Conditioning** 1½ units  
*1 hour lecture, 2 hours lab weekly*

Special course designed to meet needs of students unable to participate in non-adaptive PE R150 Weight Training and Body Conditioning class. Techniques, skills and principles of weight training and body conditioning are related to physical fitness for the maintenance and development of a high level of body efficiency. Course may be taken four times. (2)

*Transfer credit: CSU*

**TEAM ACTIVITIES**

**PE R155A—Basketball I** 1½ units  
*1 hour lecture, 2 hours lab weekly*

Development of basic skills in playing basketball, including rules and techniques. Course may be taken two times. (2)

*Transfer credit: CSU*

**PE R155B—Basketball II** 1½ units  
*Prerequisites: PE R155A or equivalent.*  
*1 hour lecture, 2 hours lab weekly*

For those students who want to become proficient in basketball. Previous experience in basketball is not necessary. A continuing development of a high degree of skill is emphasized. Course may be taken two times. (2)

*Transfer credit: CSU*

**PE R156A—Baseball I** 1½ units  
*1 hour lecture, 2 hours lab weekly*

Development of basic skills for playing baseball, including rules and techniques. Course may be taken two times. (2)

*Transfer credit: CSU*

**PE R156B—Baseball II** 2 units  
*1 hour lecture, 3 hours lab weekly*

Development of higher proficiency and performance of baseball skills with special emphasis on game strategy and techniques. Course may be taken two times. (2)

*Transfer credit: CSU*

**PE R159A—Soccer I** 1½ units  
*1 hour lecture, 2 hours lab weekly*

Development of skills in playing soccer, including rules, techniques, and strategy. Course may be taken two times. (2)

*Transfer credit: CSU*

**PE R159B—Soccer II** 1½ units  
*Prerequisites: PE R159A or equivalent.*  
*1 hour lecture, 2 hours lab weekly*

Advanced techniques and skills in the game of soccer. Course may be taken two times. (2)

*Transfer credit: CSU*

**PE R160—Co-Ed Softball** 1½ units  
*1 hour lecture, 2 hours lab weekly*

Co-educational instruction and participation in basic skills and strategy of slow pitch softball. Course may be taken four times. (2)

*Transfer credit: CSU*

**PE R161A—Volleyball I** 1½ units  
*1 hour lecture, 2 hours lab weekly*

Development of basic skills in playing volleyball including rules, techniques of playing power volleyball. Course may be taken two times. (2)

*Transfer credit: CSU*

**PE R161B—Volleyball II** 1½ units  
*Prerequisites: PE R161A or equivalent.*  
*1 hour lecture, 2 hours lab weekly*

Advanced techniques and strategies in playing power volleyball at the six, four, and two person levels; continuing development of high skills emphasized. Course may be taken two times. (2)

*Transfer credit: CSU*

**PE R163—Track and Field** 1½ units  
*1 hour lecture, 2 hours lab weekly*

Advanced technique and strategies in track and field; continuing development of high degree of skill is emphasized in preparation for a competitive season. Special attention to research of skills needed for proficiency in the sport. Course may be taken four times. (2)

*Transfer credit: CSU*

**PE R165—Conditioning for Athletes** ½-2 units  
*1½ - 6 hours lab weekly*

This course is designed to properly prepare and condition prospective athletes. Varsity athletics require an advanced degree of skill. Athletes engaged in varsity athletics need additional preparation to ensure optimal opportunity to perform to the best of their abilities. This off-season conditioning course should allow each athlete to have a more injury-free athletic experience. Course may be taken four times.

*Transfer credit: CSU*

**VARSITY ACTIVITIES**

**PE R166—Varsity X-Country/Men** 3 units

**PE R167—Varsity X-Country/Women** 3 units

**PE R168—Varsity Volleyball** 3 units

**PE R169—Varsity Soccer** 3 units

**PE R170—Varsity Basketball/Men** 3 units

**PE R171—Varsity Basketball/Women** 3 units

**PE R172—Varsity Baseball** 3 units

**PE R173—Varsity Tennis** 3 units

**PE R174—Varsity Track & Field/Men** 3 units

**PE R175—Varsity Track & Field/Women** 3 units

**PE R177—Varsity Softball** 3 units

*1 hour lecture, 9 hours lab weekly*

Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. Varsity sports meet the PE activity requirement. Each varsity course may be taken four times. (2)

*Transfer credit: CSU*

**PROFESSIONAL COURSES**

**PE R183A—Officiate Men Sports I** 2½ units  
*2 hours lecture, 1 hour lab weekly*

Instruction and lab experience in sports officiating. Proficiency ratings required to successfully complete the course. PE R183A during the fall semester—football, basketball, soccer, wrestling, PE R183B during the spring semester—track, baseball, rugby, volleyball.

*Transfer credit: UC, CSU*

**PE R183B—Officiate Men Sports II** 2½ units  
*2 hours lecture, 1 hour lab weekly*

Instruction and lab experience in sports officiating. Proficiency ratings required to successfully complete the course. PE R183A during the fall semester—football, basketball, soccer, wrestling, PE R183B during the spring semester—track, baseball, rugby, volleyball.

*Transfer credit: UC, CSU*

**PE R184A—Officiate Women Sports I** 2½ units

2 hours lecture, 1 hour lab weekly

Instruction and lab experience in sports officiating. Officiating of individual sports featured in PE R184A, team sports in PE R184B.

Transfer credit: UC, CSU

**PE R184B—Officiate Women Sports II** 2½ units

2 hours lecture, 1 hour lab weekly

Instruction and lab experience in sports officiating. Officiating of individual sports featured in PE R184A, team sports in PE R184B.

Transfer credit: UC, CSU

**PE R185A—Basketball Theory** 2 units

Prerequisites: Advanced basketball ability.

1 hour lecture, 3 hours lab weekly

Development of advanced skills in basketball and theory behind different styles of play; includes study films, drills, rules, and technique of coaching. Course may be taken two times. (2)

Transfer credit: UC, CSU

**PE R185C—Baseball Theory** 2 units

Prerequisites: Advanced baseball ability.

1 hour lecture, 3 hours lab weekly

Development of advanced skills in baseball and theory behind methods and styles of play. Class members will participate in lab assignments and will have weekly lectures including films and guest lecturers to facilitate instruction. Course may be taken two times. (2)

Transfer credit: UC, CSU

**PE R185D—Soccer Theory** 2 units

Prerequisites: Advanced soccer ability.

2 hours lecture weekly

Development of advanced skills and principles of soccer; includes laws of the game, modern methods of coaching soccer, and understanding of the principles at play as they relate to attack, mid-field, and defense. Course may be taken two times. (2)

Transfer credit: UC, CSU

**PE R188—Fitness Assessment** 2 units

1 hour lecture, 3 hours lab weekly

Course consists of a systematic approach to fitness screening. Techniques in measuring body composition; cardiovascular endurance, muscular strength and flexibility will be presented. Appropriate practical experience in actual fitness screening is included. Course primarily designed for Fitness Management Specialists or those working in the industry. Course may be taken two times. (2)

Transfer credit: CSU

**PE R189—Physical Education Topics** ½-10 units

Lecture and/or lab hours as required by unit formula

In-depth exploration of specialized topics in Physical Education and personal fitness which are not covered fully in general physical education offerings.

Transfer credit: CSU

**PE R199—Directed Studies in PE** 1-3 units

Prerequisites: A course in the specific field.

Lecture and/or lab hours as required by unit formula

Designed for selected students interested in furthering their knowledge of physical education on an independent study basis; assigned problems will involve library, lab, and field work. Course may be taken two times.

Transfer credit: CSU

**NOTE:** The courses listed below have been temporarily suspended. For further information, please contact the Math, Science & Health division office.

PE 114 Creative Movement Activities for Children

PE 139 Bowling

PE 176 Varsity Golf

# PHYSICAL SCIENCE

## Faculty

### Part-Time

Dale Synnes

## Physical Science Courses

**PHSC R100L—Computer-Assisted Laboratory** 1 unit

Prerequisites: MATH R014.

3 hours lab weekly

This course is meant to serve as a computer supplement to any 100-level physical science class. The student uses the computer as a tool, allowing access to software relevant to the class currently being taken. The student may become involved in drill work, projects, exercises, math or science games, or other training activities. This class affords students an opportunity to deepen their knowledge to an extent not possible in the regularly allotted class time. Materials fee is required. Course may be taken four times. This course does not satisfy the laboratory science requirement for the AA/AS degree. (Same as MATH R100L)

Transfer credit: CSU

**PHSC R170—Concepts in Physical Science** 4 units

Prerequisites: MATH R014.

3 hours lecture, 3 hours lab weekly

This introductory course focuses on principles, laws, and concepts in physics and chemistry. Students model scientific reasoning and experimentation processes: questioning, forming hypotheses, testing hypotheses experimentally, and performing analysis and additional questioning that lead to further experimentation. The laboratory includes an introduction to microcomputer-based data acquisition. Lab activities are closely sequenced with the lecture topics, which include motion, forces, energy, momentum, heat, electricity and magnetism, light and spectrometry, radioactivity, acids and bases, and reactions and rates. The course incorporates current knowledge of science teaching and concept development. It is aimed at current and prospective teachers, or anyone desiring to acquire basic literacy in physical science. Field trips may be required. (2)

Transfer credit: CSU.

# PHYSICS

## Career Opportunities

(Post-bachelors degree necessary in most cases)

Astronaut	Highway Designer
Astronomer	Laser Specialist
Atmospheric Scientist	Low-Temperature Physicist
Biomedical Engineer	Manufacturing Engineer
Chemical Physicist	Medical Technologist
Electro-Optic Engineer	Meteorologist
Fusion Engineer	Nuclear Physicist
Geochemist	Physical Chemist
Geophysicist	Space Scientist

## Faculty

### Full-Time

Michael Bowen

### Part-Time

Caroline Hess

## Physics Courses

### PHYS R101—College Physics 1 **5 units**

*Prerequisites:* MATH R118A.  
4 hours lecture, 3 hours lab weekly

This course is an introduction to classical mechanics, and thermal physics. Central topics include: Vectors, motion, force, energy, heat, fluids, waves, and sound. The laboratory provides students with opportunities to learn and apply the scientific method through investigations of the phenomena discussed in lecture. It also introduces students to methods of computer-assisted data analysis. The course is designed to meet the needs of liberal arts students and some students majoring in the biological sciences. Field trips may be required. (2)

*Transfer credit:* UC, CSU (CAN: PHYS 2; PHYS SEQ A (PHYS R101 + R102))

### PHYS R102—College Physics 2 **5 units**

*Prerequisites:* PHYS R101.  
4 hours lecture, 3 hours lab weekly

This course is an introduction to electromagnetic theory and modern physics. Central topics include: Electricity, magnetism, optics, quantum ideas, atomic and nuclear physics, and special relativity. The laboratory provides students with opportunities to learn and apply the scientific method through investigations of the phenomena discussed in lecture. The course is designed to meet the needs of liberal arts students and some students majoring in the biological sciences. Field trips may be required. (2)

*Transfer credit:* UC, CSU (CAN: PHYS 4; PHYS SEQ A (PHYS R101 + R102))

### PHYS R121—Physics with Calculus 1 **5 units**

*Prerequisites:* MATH R120.  
4 hours lecture, 3 hours lab weekly

This course is an introduction to classical mechanics and thermal physics. Central topics include: Vectors, motion, force, energy, heat, fluids, waves, and sound. The laboratory provides students with opportunities to learn and apply the scientific method through investigations of the phenomena discussed in lecture. It also introduces students to methods of computer-assisted data analysis. The course is designed to meet the needs of students majoring in the biological sciences. Field trips may be required.

*Transfer credit:* UC, CSU

### PHYS R122—Physics with Calculus 2 **5 units**

*Prerequisites:* PHYS R121.  
4 hours lecture, 3 hours lab weekly

This course is an introduction to electromagnetic theory and modern physics. Central topics include: Electricity, magnetism, optics, quantum ideas, atomic and nuclear physics, and special relativity. The laboratory provides students with opportunities to learn and apply the scientific method through investigations of the phenomena discussed in lecture. The course is designed to meet the needs of students majoring in the biological sciences. Field trips may be required.

*Transfer credit:* UC, CSU

### PHYS R131\*—Physics for Scientists and Engineers 1 **5 units**

*Prerequisites:* MATH R120.  
4 hours lecture, 3 hours lab weekly

This course is an introduction to the statics and dynamics of rigid bodies and ideal fluids. Central topics include: Newton's laws; conservation of energy, linear momentum, and angular momentum; equilibrium of rigid bodies, and oscillatory motion. Although the course emphasizes conceptual understanding, students also learn to apply mathematical techniques such as vector algebra, differential and integral calculus, Taylor series, and linear differential equations to the solution of problems. The laboratory provides students with

opportunities to learn and apply the scientific method through investigations of the phenomena discussed in lecture. Field trips may be required.

*Transfer credit:* UC, CSU

### PHYS R132\*—Physics for Scientists and Engineers 2 **5 units**

*Prerequisites:* PHYS R131 and MATH R121.  
4 hours lecture, 3 hours lab weekly

This course is an introduction to electricity and magnetism, with emphasis on understanding field theory and the behavior of simple electrical circuits. Central topics include: Gravitational, electric and magnetic fields; the laws of Coulomb, Gauss, Ohm, Kirchoff, Ampere, Biot-Savart, and Faraday; simple circuit analysis; and the Maxwell equations. Although the course emphasizes conceptual understanding, students also learn to apply mathematical techniques such as vector algebra, vector differentiation and integration, binomial approximations, and linear differential equations to the solution of problems. The laboratory provides students with opportunities to learn and apply the scientific method through investigations of the phenomena discussed in lecture. Field trips may be required.

*Transfer credit:* UC, CSU

### PHYS R133\*—Physics for Scientists and Engineers 3 **5 units**

*Prerequisites:* PHYS R132 and MATH R122.  
4 hours lecture, 3 hours lab weekly

This course is an introduction to wave motion (with emphasis placed on the study of sound and electromagnetic wave phenomena), geometrical and physical optics, and thermodynamics. The course also addresses selected topics in quantum mechanics and special relativity at an elementary level. Although the course emphasizes conceptual understanding, students also learn to apply mathematical techniques such as vector calculus, Fourier analysis, numerical approximation, and multi-variable integration to the solution of problems. The laboratory provides students with opportunities to learn and apply the scientific method through investigations of the phenomena discussed in lecture. Field trips may be required.

*Transfer credit:* UC, CSU

### PHYS R199—Directed Studies in Physics **1-3 units**

*Prerequisites:* PHYS R131.  
Lecture and/or lab as required by unit formula

This course is designed for students interested in furthering their knowledge of physics on an independent study basis; assigned problems will involve library, lab, and/or field work. It is appropriate for students majoring in physics, engineering, mathematics, or related fields. Course may be taken two times. (2)

*Transfer credit:* CSU

\*Course numbers have been changed. CAN confirmation is pending.

## PHYSIOLOGY

See courses in Biological Sciences

## POLITICAL SCIENCE

### Career Opportunities

Armed Services	Law Student
Police Officer	Political Officer
Customs Officer	Elections Procedures Advisor
Import-Export Agent	Political Scientist
Public Relations	Tour Guide
Foreign Correspondent/Service Officer	

## Faculty

Full-Time	Part-Time
Carolyn Dorrance	Timothy Flynn
Gloria Guevara	Steve McHargue

## u Political Science

### Associate in Arts Degree

Required Courses:		Units
ECON R101	Principles of Macroeconomics	3
POLS R100	Introduction to Politics	3
POLS R101	Government of the United States: Institutions/Politics	3
POLS R102	Government of the United States: Institutions/Laws	3
POLS R104	International Relations	3
<b>OR</b>		
POLS R108	Comparative Politics	3

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### Required Additional Courses:

Select six units from the following:		Units
ANTHR102	Cultural Anthropology	3
BIOL R106	The Human Environment	3
BUS R101A	Accounting Principles I	3
ECON R100	The Modern American Economy	3
ECON R102	Principles of Microeconomics	3
GEOG R102	World Cultural Geography	3
HIST R105	Introduction to Western Civilization I	3
HIST R106	Introduction to Western Civilization II	3
HIST R107	The History of the Mexican People in the US	3
HIST R110	History of the Middle East	3
HIST R114	Modern Asia	3
MATH R136	Computer Programming, BASIC	3
PHIL R111	Thinking Critically and Analytic Writing	3
Any POLS course not used to satisfy the core requirement		
PSY R103	Beginning Statistics for Behavioral Science	3
SOC R103	Racial and Ethnic Group Relations	3
SOC R109	Futurology	3
SOC R112	Great American Women	3

6

**Total Required Units 21**

## Political Science Courses

### POLS R010—Introduction to United States Government 3 units

*3 hours lecture weekly*

An introduction to the institutions and political processes of government in the United States. Federalism and the institutions of Congress, the Presidency and the Supreme Court are studied from the perspective of constitutional democracy and the theory of checks and balances. The roles of political parties, interest groups, public opinion and the media are discussed in a way that broadens understanding of political process and citizen participation. Special attention is given to improving student study skills including vo-

cabulary building, research, analytical writing and articulation of political ideas. Field trips may be required. (2)

### POLS R100—Introduction to Politics 3 units

*3 hours lecture weekly*

Course introduces students to the ideas and institutions of politics at the local, state and Federal levels. Concepts of law, justice, democracy, social welfare and liberty will be discussed in relation to contemporary institutions of government. Includes study of California Government. Fulfills state requirements in American Institutions. Field trips may be required. (2)

*Transfer credit: UC, CSU*

### POLS R101—Government of the United States Institutions/Politics 3 units

*3 hours lecture weekly*

Study of principles, institutions and politics of American Government with special attention to the dynamics of voting, campaigns, representative government, presidential leadership and the economic functions of government. Includes study of California government. Fulfills state requirements in American Institutions. Field trips may be required. (2)

*Transfer credit: UC, CSU (CAN: GOVT 2)*

### POLS R102—Government of the United States Institutions/Laws 3 units

*3 hours lecture weekly*

Study of principles, institutions, and politics of American Government with special attention to judicial interpretation of constitutional principles such as separation of power, federalism and citizenship. Includes study of California Government. Fulfills state requirements in American Institutions. Field trips may be required. (2)

*Transfer credit: UC, CSU*

### POLS R104—International Relations 3 units

*3 hours lecture weekly*

Course explores official and unofficial connections between governments and peoples of the world and traditions, policies, and institutions which bind them together or hold them apart, with particular reference to problems of war, peace, and change. (2)

*Transfer credit: UC, CSU*

### POLS R105—Current Issues in Domestic and Foreign Politics 3 units

*3 hours lecture weekly*

Course blends elements of political theory with the world of political problems and action at individual, state, national, and international levels. Each semester the issues selected for examination will be revised. Course may be taken three times. (2)

*Transfer credit: UC, CSU*

### POLS R106—Political Aspects of Economic Problems 3 units

*3 hours lecture weekly*

Course surveys areas where the impact of economics upon political life is considerable, so that students may better understand the political world. (2)

*Transfer credit: UC, CSU*

### POLS R107—Politics and Administration of State and Local Government 3 units

*3 hours lecture weekly*

Course presents the main principles, concepts, theories, and processes of governmental institutions of the states, counties, cities, and special districts. The social, economic and political dynamics within the institutional context will be studied. Also, Federal institutions will be analyzed to understand the main characteristics, principles, structures, and processes of the American system of government and their impact on the other levels of government. The impact of federal taxation and expenditure policies on state and

local government will be studied with specific examples. Fulfills state requirements in American Institutions. (2)

Transfer credit: CSU

**POLS R108—Comparative Politics 3 units**

3 hours lecture weekly

Course examines political life and institutions of a number of foreign countries to identify both similarities and differences in people's attempts to grapple with government problems throughout the world. (2)

Transfer credit: UC, CSU

**POLS R189—Topics in Political Science 1/2-3 units**

Lecture and/or lab hours as required by unit formula

Courses considering specific and current topics in Political Science which are not covered in the general Political Science offerings. Course may be taken four times. (2)

Transfer credit: CSU

**POLS R189A—Great Debates and Elections 3 units**

3 hours lecture weekly

Course surveys history of elections and great political debates. Impact of elections on development of democracy in modern society studied. Special attention given to process of electing presidents in United States history. Course may be taken two times. (2)

Transfer credit: UC, CSU

**POLS R199—Directed Studies in Political Science 1-3 units**

Lecture and/or lab hours as required by unit formula

Designed for selected students interested in furthering their knowledge of political science on an independent study basis; assigned problems will involve library, lab, and field work. Course may be taken two times. (2)

Transfer credit: CSU

# PSYCHOLOGY

## Career Opportunities

Advertising Manager	Efficiency Engineer
Job Analyst	Personnel Manager
Police Officer	Psychologist
Vocational Counselor	Public Relations
Social/Welfare Work	Statistician
Pathologist/Audiologist	Probation/Parole Officer
Community Organization Director	

## Faculty

<b>Full-Time</b>	<b>Part-Time</b>
Marie Butler	Duane Essex
Linda Chaparro	Karen Lehner
	Daniel McDermott
	George Rodriguez

## u Psychology

### Associate in Arts Degree

<b>Required Courses:</b>		<b>Units</b>
PSY R101	General Psychology (UCSB/CSUN)	3
PSY R103	Beginning Statistics for Behavioral Science (UCSB)	3
<b>OR</b>		
MATH R105	Introductory Statistics (CSUN/UCSB)	4
PSY R104	Introduction to Experimental Psychology (UCSB)	3
<b>OR</b>		
PSY R105	Introduction to Physiological	

(1) = Credit/No Credit only (2) = Credit/No Credit at student's option

PSY R102A	Psychology (CSUN)	3
	Interpersonal Relations	3
		12 - 13

### Required Additional Courses:

Complete one of the following courses:

PHIL R101	Introduction to Philosophy	3
PSY R104	Introduction to Experimental Psychology	3
PSY R105	Introduction to Physiological Psychology	3
PSY R106/		
SOC R113	Social Psychology	3
PSY R108	Developmental Psychology	3
PSY R130	Introduction to Humanistic Psychology	3
PSY R189A-Z	Current Topics in Psychology	3
SOC R106	Contemporary Family in American Society	3
Plus one of the following:		
PSY R102B	Interpersonal Relations (II)	3
PSY R107/		
SOC R104	Sex Roles	3
PSY R109	Loss, Grief and Death	3
PSY R110	Human Sexuality	3
PSY R111/		
CD R108	The Exceptional Child	3
PSY R112/		
CD R130	Parent/Child Interaction	3
PSY R113	Psychology of Maturing & Aging	3
PSY R120	Animal Behavior	3
		6

**Total Required Units 18-19**

## Psychology Courses

### PSY R098—Short Courses in Psychology 1/2-10 units

Lecture and/or lab hours as required by unit formula

Specialized topics designed to inform or update interested persons in the various disciplines within Psychology.

### PSY R101—General Psychology 3 units

3 hours lecture weekly

Introduction to subject matter of psychology, including scientific method, biology of behavior, conditioning and learning, intelligence, motivation, personality, mental health, and therapy.

Transfer credit: UC, CSU (CAN: PSY 2)

### PSY R102A—Interpersonal Relations I 3 units

3 hours lecture weekly

Class provides exploration of personal awareness and interaction. Students will learn to apply psychological principles of human behavior, and explore ways of knowing themselves and others. A combination of experiential and theoretical approaches is used to increase awareness, clarify values, and aid in decision-making.

Transfer credit: CSU

### PSY R102B—Interpersonal Relations II 3 units

3 hours lecture weekly

Class provides exploration of personal awareness and interaction. Students will learn to apply psychological principles of human behavior, and explore ways of knowing themselves and others. A combination of experiential and theoretical approaches is used to increase awareness, clarify values, and aid in decision-making.

Transfer credit: CSU

### PSY R103—Beginning Statistics for Behavioral Science 3 units

Prerequisites: MATH R014, PSY R101.

3 hours lecture weekly

Designed for students majoring in psychology, sociology, and anthropology; emphasis on use of statistics in behavioral science research. Topics covered are procedures in hypothesis testing, descriptive, inferential, and correlational statistics.

*Transfer credit: UC, CSU*

**PSY R104—Introduction to Experimental Psychology 3 units**

*Prerequisites: PSY R101 and PSY R103 or concurrent enrollment in PSY R103.*

*3 hours lecture weekly*

Designed for prospective psychology majors or minors; emphasis on designing, conducting, and writing experimental research in human and animal behavior. Recommended as a third course for psychology majors.

*Transfer credit: UC, CSU (CAN: PSY 8)*

**PSY R105—Introduction to Physiological Psychology 3 units**

*Prerequisites: PSY R101; PSY R103 recommended.*

*3 hours lecture weekly*

Course provides exploration of physiological basis of behavior. Some topics are neural impulses and sensory processes, neural basis of reinforcement, electrical stimulation of the brain, memory, learning, emotion, biofeedback, split brain studies, and research on right and left hemispheres; emphasis is on current research findings and philosophical-moral implications.

*Transfer credit: UC, CSU*

**PSY R106—Social Psychology 3 units**

*Prerequisites: PSY R101 recommended.*

*3 hours lecture weekly*

Scientific study of how people think about, influence, and relate to one another. Topics include personal interaction, perception, attraction, culture, status, power, social conflict, group influence, prejudice, conformity, and altruism. (Same as SOC R113)

*Transfer credit: UC, CSU*

**PSY R107—Sex Roles 3 units**

*3 hours lecture weekly*

Class explores sex role development and how roles can be changed, role conflicts, common stereotypes of males and females, women as a minority group, aspects of sexuality, and psycho-social implications of the liberation movement; psycho-social aspects of both sex roles are emphasized. (Same as SOC R104)

*Transfer credit: UC, CSU*

**PSY R108—Developmental Psychology 3 units**

*Prerequisites: PSY R101.*

*3 hours lecture weekly*

Course explores path of human development from beginning of life through adolescence; emphasis placed on normal developmental patterns using current information; child-rearing practices and their efforts on later development critically examined.

*Transfer credit: UC, CSU*

**PSY R109—Loss, Grief, and Death 3 units**

*3 hours lecture weekly*

Examination of personal feelings and behaviors associated with loss, grief, and death. Combination of psychological theory, current trends and research findings, and personal explorations used; emphasis on dealing with this very personal area in a realistic and positive manner.

*Transfer credit: CSU*

**PSY R110—Human Sexuality 3 units**

*3 hours lecture weekly*

Biological, psychological, and sociological aspects of sexuality. Emphasis is placed on the individual's personal sexuality in the present time; past and future trends are also considered.

*Transfer credit: UC, CSU*

**PSY R111—The Exceptional Child 3 units**

*3 hours lecture weekly*

Characteristics and problems of the developmentally delayed, socially handicapped, and those with emotional problems, as well as the mentally gifted child, will be covered. The class will cover study of issues, and research encountered in these specific areas. Also covered will be resources and techniques for living and working with these children. (Same as CD R108) (2)

*Transfer credit: CSU*

**PSY R112—Parent/Child Interaction 3 units**

*3 hours lecture weekly*

Explores the challenging role of being a parent. Focuses on a variety of approaches to effective parenting, identifying typical problem areas and dealing with them by prevention or coping strategies, and promoting positive interactions between parent and child. Field trips may be required. (Same as CD R130)

*Transfer credit: CSU*

**PSY R113—Psychology of Maturity and Aging 3 units**

*3 hours lecture weekly*

Psychological factors of human development from middle life through older years. Emphasis placed on aging as a normal process. Topics include older individual and his/her adjustment to life changes; study of current issues in aging.

*Transfer credit: CSU*

**PSY R114—Psychological Issues of the Mexican People in the Southwest 3 units**

*3 hours lecture weekly*

Course analyzes experiences of people of Mexican descent living in the Southwest from a psychological perspective. Examines nature of individual and group conflict, explores problems of social participation in a dominant culture and its psychological implications. Course describes emergence of distinctive identities of people of Mexican descent. (Same as CHST R114.)

*Transfer credit: UC, CSU*

**PSY R120—Animal Behavior 3 units**

*3 hours lecture weekly*

Introduction to comparative psychology and ethology. Emphasis on behavior of familiar mammals, reptiles, and birds. Topics include learning, social behavior, communication, aggression, behavior of pets, and abnormal animal behavior.

*Transfer credit: CSU*

**PSY R130—Introduction to Humanistic Psychology 3 units**

*Prerequisites: PSY R101 suggested.*

*3 hours lecture weekly*

Course explores humanistic movement in psychology. Theories of both Eastern and Western thought as applicable to the concepts of such prominent humanistic psychologists as Maslow, May, Rogers, and others studied from both a theoretical and practical "everyday life" point of view. Historical perspective of humanistic movement against background of psychoanalytic behavioral schools emphasized.

*Transfer credit: UC, CSU*

**PSY R131—Abnormal Psychology 3 units**

*3 hours lecture weekly*

Class surveys the various definitions, causes, and treatment methods relative to abnormal behavior. This course covers both psychological and biological theories of abnormal behavior. Topics include diagnosis of abnormal behavior, the clinical syndromes, and the various forms of intervention.

*Transfer credit: UC, CSU*

**PSY R189—Current Topics in Psychology** 1/2-3 units

*Prerequisites: A previous course in Psychology.*

*Lecture and/or lab hours as required by unit formula*

Courses considering specialized, specific topics in psychology which are not covered in great detail in the general psychology course offerings. Topics to be offered include adolescence, abnormal psychology, aging, parapsychology, mental retardation, modern therapies, human sexuality, behavior modification, hypnosis, humanistic psychology, sex roles and socialization, death and dying, biological feedback, aggression and violence, childhood disorders.

*Transfer credit: CSU*

**PSY R198—Short Courses in Psychology** 1/2-10 units

*Lecture and/or lab hours as required by unit formula*

Courses and/or workshops in selected areas of psychology to meet specific needs of college or community as requested or required. Field trips may be required. (2)

*Transfer credit: CSU*

**PSY R199—Directed Studies in Psychology** 1-3 units

*Lecture and/or lab hours as required by unit formula*

Designed for students interested in furthering their knowledge of psychology on an independent study basis; assigned problems will involve library, lab, and field work. Course may be taken two times.

*Transfer credit: CSU*

PSY R107		
SOC R105	Aging in the United States	3
SOC R106	Contemporary Family in American Society	3
SOC R109	Futurology	3
SOC R112	Great American Women	3
SOC R113	Social Psychology	3
SOC R114	Social Philosophy	3
SOC R115	Sociology of Religion	3
Plus one of the following:		
ANTH R110	People and Cultures of the World	3
HIST R107	History of the Mexican People in the US	3
HIST R108	African-American History	3
SOC R114	Social Philosophy	3
SOC R115	Sociology of Religion	3
SOC R116	Crime and Society	3
SOC R118	Introduction to Human Services	3
<b>Total Required Units</b>		<b>18</b>

**Human Services Option**

The option in Human Services provides the student with an academic background for entry-level positions in various human services agencies. It also prepares the student for upper-division work in human services, behavioral sciences and social sciences.

<b>Required Courses</b>	<b>Units</b>	
SOC R101	Introduction to Sociology	3
SOC R102	Social Problems	3
SOC R103	Racial and Ethnic Group Relations	3
SOC R104/	Sex Roles	3
PSY R107		
SOC R110	Sociological Analysis: Internships in Organizations and Social Services	3
SOC R118	Introduction to Human Services	3
<b>Total Required Units</b>		<b>18</b>

# SOCIOLOGY

**Career Opportunities**

Counselor	Police Officer
Probation/Parole Officer	Public Health Educator
Public Survey Worker	Recreation Director
Statistician	Correctional Officer
Social/Welfare Worker	Private Detective
Social and Human Service Assistant	
Sociologist (Criminologist, Penologist, Industrial, Social Ecologist)	

**Faculty**

<b>Full-Time</b>	<b>Part-Time</b>
Marie Butler	Joan Evans
Linda Chaparro	Elaine Gonzales
Carolyn Dorrance	Ron Jackson

**u Sociology**

**Associate in Arts Degree**

<b>Required Courses:</b>	<b>Units</b>	
SOC R101	Introduction to Sociology	3
SOC R102	Social Problems	3
SOC R111	Sociological Analysis: Introduction to Social Research	3
Plus one of the following:		
SOC R103	Racial and Ethnic Group Relations	3
SOC R107	Sociology of the Black Community	3
SOC R108	Sociology of the Chicano Community	3
		12
<b>Required Additional Courses:</b>	<b>Units</b>	
Complete one of the following courses:		
SOC R104/	Sex Roles	3

**Elective Courses**

Students are encouraged to select one of the following courses:

SOC R105	Aging in the United States	3
SOC R106	Contemporary Family in American Society	3
SOC R107	Sociology of the Black Community	3
SOC R108	Sociology of the Chicano Community	3
SOC R112	Great American Women	3
SOC R114	Social Philosophy	3
SOC R116	Crime and Society	3
ANTH R105	Women, Culture and Society	3
CDR106	Child, Family, and Community	3
HIST R106	Introduction to Western Civilization II	3
PSY R106	Social Psychology	3
<b>Total Required Units</b>		<b>18</b>

**Sociology Courses**

**SOC R101—Introduction to Sociology** 3 units

*3 hours lecture weekly*

Analysis of historical development of sociology and recent trends in the field; studying the relationship between social systems and human behaviors; emphasis on such basic factors as socialization, culture, class, race, and social change. Field trips may be required.

*Transfer credit: UC, CSU (CAN: SOC 2)*

**SOC R102—Social Problems** 3 units

*3 hours lecture weekly*

Study of contemporary social problems from a theoretical framework, emphasizing social conditions causing social problems and examining existing programs aimed at their solution.

*Transfer credit: UC, CSU (CAN: SOC 4)*

**SOC R103—Racial and Ethnic Group Relations** 3 units

3 hours lecture weekly

Analysis of racism and prejudice in the U.S., discussing similarities and differences in racial and ethnic group experiences; emphasis on majority-minority group relations among major racial and cultural groups.

Transfer credit: UC, CSU

**SOC R104—Sex Roles 3 units**

3 hours lecture weekly

Class explores sex role development and how roles can be changed, role conflicts, common stereotypes of males and females, women as a minority group, aspects of sexuality, and psycho-social implications of the liberation movement; psycho-social aspects of both sex roles are emphasized. (Same as PSY R107)

Transfer credit: UC, CSU

**SOC R105—Aging in the United States 3 units**

3 hours lecture weekly

An introduction to gerontology; a survey of cultural values and social organization that affect the status and treatment of aging people in the U.S. Emphasis upon interrelationships between social attitudes, economic system, and political system on lifestyle of the aged, using cross-cultural comparisons.

Transfer credit: CSU

**SOC R106—Contemporary Family in American Society 3 units**

3 hours lecture weekly

Sociological analysis of the American family, including historical and recent changes, present nature and sociocultural forces shaping these conditions. (2)

Transfer credit: UC, CSU

**SOC R107—Sociology of the Black Community 3 units**

3 hours lecture weekly

Analysis of values, mores, norms, and interaction patterns within the Black community; emphasis on socialization process of community members and effects of racism within the community. Role of family, political, economic, religious, and educational institutions will be analyzed.

Transfer credit: UC, CSU

**SOC R108—Sociology of the Chicano Community 3 units**

3 hours lecture weekly

Socio-cultural analysis of familial, political, economic, religious, and educational institutions within Chicano community; emphasis on social stratification and socialization process of community members. Specific consideration given to the concept of colonialism and its effects on the Chicano community. (Same as CHST R108) (2)

Transfer credit: UC, CSU

**SOC R109—Futurology 3 units**

3 hours lecture weekly

Analysis of problems, possibilities, and prospects for societies of the future in terms of presuppositions and methods of contemporary sociology. Discussion of the work of current and prominent futurologists and critical examinations of their approaches.

Transfer credit: CSU

**SOC R110—Introduction to Field Studies in Sociology 3 units**

3 hours lecture weekly

This course is for students who seek the knowledge and experience gained through both classroom and applied on-site involvement with government and/or social agencies in the community. Students learn to identify and evaluate theories of field research methods

within a social welfare context. The operations and ethics of community organizations are presented. There will be emphasis on analysis of a social setting. Instruction includes lecture on field observation(s). Field observation in a non profit agency will be required outside of class. Field trips may be required.

Transfer credit: CSU

**SOC R111—Introduction to Social Research 3 units**

Prerequisites: SOC R101.

3 hours lecture weekly

Students will experience discussions on the logic and procedures of scientific analysis of social phenomena, and practice in conceptualizing and operationalizing social variables and in testing hypotheses. Students will engage in hypothesis testing and examine the role of qualitative and quantitative methods using participant observation, survey research, and design. Community assessment and questionnaire development will be utilized by the student. Final project includes an analysis of research data, using computer and presentation of results in class and report form. Field trips may be required.

Transfer credit: UC, CSU

**SOC R112—Great American Women 3 units**

3 hours lecture weekly

A socio-historical analysis of great American women. Biographical data examined in an attempt to determine how the socio-historical milieu influenced the lives of these great women. (Same as HIST R112) (2)

Transfer credit: UC, CSU

**SOC R113—Social Psychology 3 units**

3 hours lecture weekly

Scientific study of how people think about, influence, and relate to one another. Topics include personal interaction, perception, attraction, culture, status, power, social conflict, group influence, prejudice, conformity, and altruism. (Same as PSY R106)

Transfer credit: UC, CSU

**SOC R114—Social Philosophy 3 units**

3 hours lecture weekly

Social philosophy studies man in society from the standpoint of metaphysical and ethical principles and presuppositions of human nature. Course highlights major historical and contemporary perspectives in the history of philosophy and focuses on a prominent social philosopher for detailed study. Questions concerning legal and social relationships, purpose in social order, and ethical values in human institutions explored. (Same as PHIL R114) (2)

Transfer credit: UC, CSU

**SOC R115—Sociology of Religion 3 units**

3 hours lecture weekly

Objective sociological analysis of the relationship between religion and society. Focuses particularly on the U.S., stressing the distinctiveness of American religion and its intimate connection with what is most central to American society.

Transfer credit: UC, CSU

**SOC R116—Crime and Society 3 units**

3 hours lecture weekly

Course examines crime and deviance within a socio-legal context. This course provides a background for students evaluating theories and treatment of both adult and juvenile offenders with areas covered including corporate deviance, conventional and violent crime, social institutions and criminal control systems. (2)

Transfer credit: UC, CSU

**SOC R118—Introduction to Human Services 3 units**

3 hours lecture weekly

Survey of helping institutions and social issues concerning human services; identifying target population, historical perspective of

human services in the U.S.; theoretical perspectives of human services, survey of human services occupations and careers, and economics of helping professions; development of social policy and current controversies concerning field of human services. Brief overview of intervention strategies in social service work covered. (2)

*Transfer credit: CSU*

**SOC R121—Sociology: A Global Perspective 3 units**

*3 hours lecture weekly*

Analysis of the relationship between social systems and human behavior using cross-cultural examples. Emphasizes the interaction of socialization with class, race, and gender within a global context. Provides students with a deeper understanding of life in the United States by looking beyond our borders.

*Transfer credit: UC, CSU*

**SOC R199—Directed Studies in Sociology 1-3 units**

*Advisory: A course in the specific field.*

*Lecture and/or lab hours as required by unit formula*

Designed for students interested in furthering their knowledge of Sociology on an independent study basis; assigned problems will involve library, lab, and field work. Course may be taken two times.

*Transfer credit: CSU*

# SPANISH

## Career Opportunities

### B.A. Level

Interpreter	Translator
Foreign Clerk	Foreign Service Officer
Foreign-Exchange	Trader

## Faculty

### Full-Time

Carmen Eblen

### Part-Time

Cecilia Boroumand	Mary Bowen
Maria Cheline	Marta Garza-Laird
Dora Madrigal	George Peraza
Kyra Sovero	

## u Spanish

### Associate in Arts Degree

Required Courses:		Units
SPAN R103	Intermediate Spanish I	5
SPAN R104	Intermediate Spanish II	5
		10

Required Additional Courses:		Units
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Complete a minimum of 9 units from the following:

SPAN R101	Elementary Spanish I	5*
SPAN R101A	Elementary Spanish 1A	3*
SPAN R101B	Elementary Spanish 1B	3*
SPAN R102	Elementary Spanish II	5*
SPAN R102A	Elementary Spanish 2A	3*
SPAN R102B	Elementary Spanish 2B	3*
SPAN R105	Native Spanish Speaker 1	5*
SPAN R106	Native Spanish Speaker 2	5*
SPAN R107	Hispanic American Culture	3
SPAN R108	Composition in Spanish	3

SPAN R117	Hispanic-American Literature	3
SPAN R118	Cinema Hispanoamericano	3

9 - 11

**Total Required Units 19 - 21**

\*No more than 5 units of SPAN R101-R106 can be applied to the major.

## Spanish Courses

**SPAN R098—Short Courses in Spanish ½-10 units**

*Lecture and/or lab hours as required by unit formula*

Special topics designed to inform or update interested persons in the various disciplines within Spanish. (2)

**SPAN R101A—Elementary Spanish 1A 3 units**

*3 hours lecture weekly*

First semester Spanish for non-native speakers. Introduction to language and culture of the Spanish-speaking world, designed for students who have had no formal training in Spanish; emphasis on oral communication and on reading and writing. Basic vocabulary and grammar are studied, as well as various aspects of the Spanish culture. This course is equal to the first half of SPAN R101. The sequel to this course is SPAN R101B. (2)

*Transfer credit: UC, CSU*

**SPAN R101B—Elementary Spanish 1B 3 units**

*Prerequisites: SPAN R101A or equivalent.*

*3 hours lecture weekly*

Second semester Spanish for non-native speakers. Introduction to language and culture of the Spanish-speaking world, designed for students who have had no formal training in Spanish, emphasis on oral communication and on reading and writing. Basic vocabulary and grammar are studied, as well as various aspects of the Spanish Culture. This course is equal to the second half of SPAN R101. (2)

*Transfer credit: UC, CSU*

**SPAN R102A—Elementary Spanish 2A 3 units**

*Prerequisites: SPAN R101 or equivalent.*

*3 hours lecture weekly*

Third semester course for non-native speakers. Introduction to language and culture of the Spanish-speaking world, designed for students who have had no formal training in Spanish; emphasis on oral communication and on reading and writing. Basic vocabulary and grammar are studied, as well as various aspects of the Spanish culture. This course is equal to the first half of SPAN R102. The sequel to this course is SPAN R102B. (2)

*Transfer credit: UC, CSU*

**SPAN R102B—Elementary Spanish 2B 3 units**

*Prerequisites: SPAN R102A or equivalent.*

*3 hours lecture weekly*

Fourth semester course for non-native speakers. Introduction to language and culture of the Spanish-speaking world, designed for students who have had no formal training in Spanish; emphasis on oral communication and on reading and writing. Basic vocabulary and grammar are studied, as well as various aspects of the Spanish culture. This course is equal to the second half of SPAN R102. (2)

*Transfer credit: UC, CSU*

**SPAN R101—Elementary Spanish I 5 units**

*5 hours lecture weekly*

First year (first semester) Spanish for non-native speakers. Introduction to language and culture of the Spanish-speaking world, designed for students who have had no formal training in Spanish; emphasis on oral communication and on reading and writing. Basic vocabulary and grammar are studied as well as various aspects of the Spanish culture. (2)

*Transfer credit: UC, CSU (CAN: SPAN 2; SPAN SEQ A (SPAN R101 + R102))*

**SPAN R102—Elementary Spanish II** **5 units**

*Prerequisites: SPAN R101 or equivalent.*

*5 hours lecture weekly*

First year (second semester) Spanish for non-native speakers. Introduction to language and culture of the Spanish-speaking world, designed for students who have had no formal training in Spanish; emphasis on oral communication and on reading and writing. Basic vocabulary and grammar are studied as well as various aspects of the Spanish culture. (2)

*Transfer credit: UC, CSU (CAN: SPAN 4; SPAN SEQ A (SPAN R101 + R102))*

**SPAN R103—Intermediate Spanish I** **5 units**

*Prerequisites: SPAN R102 or equivalent.*

*5 hours lecture weekly*

Second year (third semester) Spanish for non-native speakers. Further study of language and culture through reading and listening to a variety of works; discussion of these works and other topics will give continued practice and development of oral skills. Vocabulary growth stressed as well as review and refinement of grammar principles. (2)

*Transfer credit: UC, CSU (CAN: SPAN 8; SPAN SEQ B (SPAN R103 + R104))*

**SPAN R104—Intermediate Spanish II** **5 units**

*Prerequisites: SPAN R103 or equivalent.*

*5 hours lecture weekly*

Second year (fourth semester) Spanish for non-native speakers. Further study of language and culture through reading and listening to a variety of works; discussion of these works and other topics will give continued practice and development of oral skills. Vocabulary growth stressed as well as review and refinement of grammar principles. (2)

*Transfer credit: UC, CSU (CAN: SPAN 10; SPAN SEQ B (SPAN R103 + R104))*

**SPAN R105—Native Spanish Speaker 1** **5 units**

*Prerequisites: SPAN R104.*

*5 hours lecture weekly*

First semester Spanish for native Spanish speakers. Emphasis on vocabulary building and correct usage in speaking and writing; study of basic principles of grammar included. Contrast in Spanish and English grammar, contrast standard Spanish and "loans" from English. Cultural readings used to promote reading and writing. Field trips may be taken. (2)

*Transfer credit: UC, CSU*

**SPAN R106—Native Spanish Speaker 2** **5 units**

*Prerequisites: SPAN R105.*

*5 hours lecture weekly*

Second semester Spanish for native Spanish speakers. Reviews principles of grammar. Increases proficiency in understanding, speaking, reading, and writing Spanish through the use of short stories, short novels, and cultural readings. Field trips may be taken. (2)

*Transfer credit: UC, CSU*

**SPAN R107—Hispanic American Culture** **3 units**

*Prerequisites: SPAN R101 or equivalent.*

*Advisory: Ability to read and write in Spanish highly recommended.*

*3 hours lecture weekly*

Reading and discussion in Spanish of civilization and culture of Spanish-speaking countries; designed to maintain communication skills and to give a background in art, history, music, literature, customs, and traditions of Spanish-speaking people. (2)

*Transfer credit: UC, CSU*

**SPAN R108—Composition in Spanish** **3 units**

*Prerequisites: SPAN R104 or equivalent fluency.*

*3 hours lecture weekly*

To present the systematic and logical sequence of Spanish syntax and afford advanced students some acquaintance with contemporary grammar and terminology. To provide advanced students of Spanish with heavy emphasis on written style by using anthologies of Spanish and Spanish-American literature to enhance student's knowledge of Hispanic-American cultures. (2)

*Transfer credit: UC, CSU*

**SPAN R117—Hispanic-American Literature** **3 units**

*Advisory: Advanced knowledge of Spanish reading and writing, SPAN R104 or SPAN R108 or the equivalent highly recommended.*

*3 hours lecture weekly*

One semester survey of Hispanic-American literature: novel, short story, essay, poetry. Works studied will be by representative Hispanic-American writers. Reading, in-class discussions, and written assignments are part of the course, taught in Spanish. (2)

*Transfer credit: UC, CSU*

**SPAN R118—Cinema Hispanoamericano** **3 units**

*Prerequisites: SPAN R103.*

*3 hours lecture weekly*

This course will focus on the relationship between film and literature in the Hispanic American world. Spanish language films from Hispanoamerica will be viewed and discussed. This course is designed for majors and nonmajors alike, and will be conducted in Spanish. Field trips may be required. (2)

*Transfer credit: UC, CSU*

**SPAN R120—Cultural and Communicative Spanish** **3 units**

*Prerequisites: SPAN R102 or equivalent.*

*3 hours lecture weekly*

Course is designed to expand listening and speaking skills. Recommended for students wanting to strengthen aural comprehension and speaking skills. Cultural based materials will be used to further the student's knowledge and awareness of the Spanish speaking world. Field trips may be taken. (2)

*Transfer credit: CSU*

**SPAN R199—Directed Studies in Spanish** **1-3 units**

*Prerequisites: A course in the specific field.*

*Lecture and/or lab hours as required by unit formula*

Designed for students interested in furthering their knowledge of Spanish on an independent study basis; assigned problems may involve library and field work with consultation and review in Spanish with the supervising instructor. Course may be taken two times.

*Transfer credit: CSU*

## SPECIAL EDUCATION

### Special Education Courses

**SPED R001—Survey of Disabilities** **3 units**

*3 hours lecture weekly*

Overview of historical, social, medical, recreational, and educational implications of various physical and learning disabilities. Practical experience in simulated situations to provide insights in the area of disabilities. Designed for the disabled student or anyone interested in working with the disabled. Not applicable for degree credit.

**SPED R004—Language Development** **1 unit**

*1 hour lecture weekly*

Course designed for students experiencing difficulty with their speech including lisping, stuttering, and other related speech problems. Not applicable for degree credit. Course may be taken four times.

**SPED R012—Issues for Deaf Students 3 units**

*Prerequisites: Verification of disability.  
3 hours lecture weekly*

Designed to teach deaf students fundamentals of mass media and news reporting with emphasis on discussion and understanding contemporary issues. Media such as television, radio, newspapers, and magazines studied regarding information organization, advertisements, news articles, job opportunities, and news commentaries. Instruction presented in American Sign Language. Not applicable for degree credit. Course may be taken four times.

**SPED R030—Career Evaluation 1 unit**

*½ hour lecture, 1½ hours lab weekly*

Course designed to assist students in exploring present vocational interests and abilities. Each student will have an individual evaluation of his/her aptitude for occupations based upon exploration of various job-related tasks regardless of work history or past work skills. Not applicable for degree credit.

# SPEECH

## Career Opportunities

(Post-bachelors degree necessary)

Lawyer	Management Trainee
Lecturer	Politician
Linguist	Speech Therapist

## Faculty

### Part-Time

Gary Amar	Frances Atkins
Monica Conway	Raymond Fredette
Roland Glover	Linda Harpe
Jessica Kelpine	Leslie Radford

## Speech Courses

**SPCH R101—Introduction to Oral Communication 3 units**

*Advisory: ENGL R101 or equivalent.  
3 hours lecture weekly*

Training and practice in basic principles of effective oral communication through participation in public speaking, group discussion, and oral reading; emphasis on being at ease in front of, and with, a group, and on developing constructive attitudes, organized thinking, proper use of voice and body, and discriminative listening.

*Transfer credit: UC, CSU (CAN: SPCH 4)*

**SPCH R102—Advanced Oral Communication 3 units**

*Prerequisites: SPCH R101.  
3 hours lecture weekly*

Experience in various types of persuasive rhetoric; reporting of stylistic devices, emphasis on audience analysis, utilization of motives, and speech purposes. Emphasis on completeness and validity of support through planned research of speech topics.

*Transfer credit: UC, CSU*

**SPCH R104—Voice and Diction 3 units**

*3 hours lecture weekly*

The course introduces the student to the mechanics of voice production and the various elements of speech: relaxation, quality, rate, and pitch. The communicative process involving reasoning, discovery, critical evaluation, reading, and listening will be demonstrated in writing assignments. By working within a method guaranteed to release tension, students will learn to speak before groups. (Same as THA R104)

*Transfer credit: UC, CSU*

**SPCH R105—Oral Interpretation of Literature 3 units**

*Prerequisites: SPCH R101.  
3 hours lecture weekly*

Principles and techniques of oral reading of prose and poetry with understanding and appreciation; evaluation of arguing, debating, working in parliamentary procedure, and oratory. Study of rhetorical theories and history of public address.

*Transfer credit: UC, CSU*

**SPCH R108—ESL Academic Oral Communication 3 units**

*Advisory: ESL R046.*

*3 hours lecture, 1 hour lab weekly*

Speech R108 is designed to help advanced non-native speakers of English communicate effectively in academic, professional, and social settings. Field trips may be required. (2)

*Transfer credit: CSU*

**SPCH R109—Readers' Theatre 3 units**

*3 hours lecture weekly*

Concepts and techniques of cooperative group work in oral interpretation of literature, including children's stories, poetry, prose, and dramatic literature; supervised activities in performing Readers' Theatre before community and college audiences. (Same as THA R109)

*Transfer credit: UC, CSU*

**SPCH R112—Forensics: Tournament Speaking 1 unit**

*1 hour lecture weekly*

Students may receive credit for their work in any college tournament events: Expository Speaking; Persuasive Speaking; Impromptu Speaking; Extemporaneous Speaking; Readers' Theatre; Oral Communication of Literature; Rhetorical Criticism and Analysis; Debating, and any other event that may be offered at a given tournament. Students are expected to participate in tournaments which take place on weekends throughout the college year. Field trips may be taken. Course may be taken four times.

*Transfer credit: CSU*

**SPCH R199—Directed Studies in Speech 1-3 units**

*Prerequisites: A course in the specific field.*

*Lecture and/or lab hours as required by unit formula*

Designed for selected students interested in furthering their knowledge of speech on an independent basis. Assigned work will involve library, lab, and/or field work. Course may be taken two times.

*Transfer credit: CSU*

**NOTE:** The courses listed below have been temporarily suspended. For further information, please contact the Student Learning division office.

SPCH 106 Critical Analysis of Speeches

SPCH 107 Argumentation and Debate

# TELEVISION

## Career Opportunities

Broadcast Television	Industrial Video Production
Cable Industry	Independent Video Production
Producer	Director
Script Writer	Camera Operator
Video Editor	Stage Manager
Master Control	Video Operator

## Faculty

### Full-Time

Andres Orozco

## u Communications — Television

### Associate in Arts Degree

Required Courses	Units
JOUR R100 Introduction to Mass Communications	3
TV R101 Broadcast Studio Operation	3
TV R102 Television Production Workshop	3
TV R103 Television Directing and Editing	3
TV R104 Advanced Television Production	3
TV R105/ ENGL R130 Television Writing	3

18

### Required Additional Courses

Units

Complete six units from the following:

ENGL R131 Cinema: Literary Views	3
JOUR R101 News Writing and Reporting	3
JOUR R111 Broadcast Journalism	3
SPCH R101 Introduction to Oral Communication	3
<b>OR</b>	
SPCH R104 Voice and Diction	3
THA R108 Acting for Film and Television	3
TV R117 The Use of the Ethnic Minority in Film and Television	3

6

**Total Required Units 24**

## Television Courses

### TV R101—Broadcast Studio Operation 3 units

2 hours lecture, 3 hours lab weekly

Class covers instruction in basic studio and control room equipment and operation. Students gain practical experience in the various

aspects of production, explanation of program patterns, studio procedures, equipment use, and program production.

Transfer credit: CSU

### TV R102—Television Production Workshop 3 units

Advisory: TV R101.

2 hours lecture, 3 hours lab weekly

Course involves intermediate work in production camera work, technical direction, lighting, etc. Creation of new program concepts and types stressed. Each student responsible for producing an experimental TV program.

Transfer credit: CSU

### TV R103—Television Directing and Editing 3 units

2 hours lecture, 3 hours lab weekly

Course covers advanced directing and editing of special projects and experimental TV programs. Each student is responsible for producing a variety of television programs.

Transfer credit: CSU

### TV R104—Advanced Television Production 3 units

Advisory: TV R103.

2 hours lecture, 3 hours lab weekly

Advanced course in production of a variety of television program categories. Some programs will be utilized by community media, such as CATV Public Access Systems. Includes remote assignments and special projects. Course may be taken four times.

Transfer credit: CSU

### TV R105—Television Writing 3 units

Advisory: Eligibility for ENGL R096.

3 hours lecture weekly

Course deals with preparation and analysis of script formats used for public service announcements, news, commercials, and talk-variety programs. Also, teleplay formats used for situation-comedy and dramatic programs. Training given in script planning and development, utilizing professional standards, methods, ethics, and restrictions practiced in broadcasting. (Same as ENGL R130)

Transfer credit: CSU

### TV R117—The Use of the Ethnic Minority in Film and Television 3 units

3 hours lecture weekly

The study of motion pictures and television series depicting ethnic minority culture and life, and their implications socially, politically and stereotypically. Also, there will be the study of themes, structure, style, and critical reception of said films and television programming. (2)

Transfer credit: CSU

# THEATRE ARTS

## Career Opportunities

Actor/Actress	Sound Technician
Assistant Director	Production Assistant
Assistant Stage Manager	Stagehand
Stage Technician	Lighting Technician

## Faculty

Full-Time	Part-Time
Mary Ellen Kazmark	Hassan Fayyad

## Theatre Arts Courses

### THA R098—Short Courses in Theatre Arts 1/2-10 units

Lecture and/or lab hours as required by unit formula

## OCTV - OC's Television Station

Since 1987 Oxnard College has provided students and the community with educational and entertainment programming on Oxnard College Television on Adelphia throughout Oxnard and Port Hueneme. Programming includes shows produced by television production students, credit telecourses and other entertainment programming. Oxnard College Television produces college and community programming on-location and in its well-equipped television production studio. Students create original programming as part of their lab work in television production courses.

Telecourses shown on OCTV offer students a chance to earn regular transferable college credit by watching programming on subjects such as History, Political Science, Child Development, Health, Sociology and Business Law, with limited attendance on campus.

Specialized topics designed to inform or update interested persons in the various disciplines within Theatre Arts. (2)

**THA R101—Introduction to Theatre** **3 units**  
*3 hours lecture weekly*

To introduce drama or theatre as a literary art form, the history of dramatic development and types of drama are studied. How plays relate to their philosophical, historical, and cultural milieu; how plays relate to production problems; critical analysis of plays; and related production elements for the playwright form the basis of the course. Emphasis is based on appreciation of the theatre, past and present. Field trips may be required. (Same as ENGL R119)

*Transfer credit: UC, CSU (CAN: DRAM 18)*

**THA R102A—Fundamentals of Acting I** **3 units**  
*2 hours lecture, 3 hours lab weekly*

The beginner's course emphasizes the combination of thought, emotion, movement and vocal techniques to create performance work in live theatre. Emphasis is placed on improvisational exercises culminating in scene work. Field trips may be required.

*Transfer credit: UC, CSU*

**THA R102B—Fundamentals of Acting II** **3 units**  
*2 hours lecture, 3 hours lab weekly*

This advanced acting course emphasizes performance work in monologues, soliloquies, and scene work for audition material to be used in academic and professional programs. Field trips may be required.

*Transfer credit: UC, CSU*

**THA R103A—History of Theatre I** **3 units**  
*3 hours lecture weekly*

History of theatrical development from Greek to English Renaissance, plus Asian influences; will involve an analysis of literature, acting styles, technical work, and physical theatres. (2)

*Transfer credit: UC, CSU*

**THA R103B—History of Theatre II** **3 units**  
*3 hours lecture weekly*

History of theatrical development from Restoration Period to the present. Involves an analysis of literature, acting styles, technical work and physical theatres. (2)

*Transfer credit: UC, CSU*

**THA R104—Voice and Diction** **3 units**  
*3 hours lecture weekly*

The course introduces the student to the mechanics of voice production and the various elements of speech: relaxation, quality, rate, and pitch. The communicative process involving reasoning, discovery, critical evaluation, reading, and listening will be demonstrated in writing assignments. By working within a method guaranteed to release tension, students will learn to speak before groups. (Same as SPCH R104)

*Transfer credit: UC, CSU*

**THA R105—Introduction to Film** **3 units**  
*3 hours lecture weekly*

One of the most powerful cultural and artistic media, film involves the study of film production, cinema techniques, and visual styles. Students will view films to experience a variety of cultural, historical, ideological and technological advances in film from its birth to the present day. This course seeks to help students become active film viewers by developing criticism of social, historical, and cultural aspects of film as a developing medium.

*Transfer credit: CSU*

**THA R106—History of American Cinema** **3 units**  
*3 hours lecture weekly*

The evolution of film as an art form in the United States involves the cultural changes of a nation emerging as the film capital of the

world. This course is an introduction to the development, history and aesthetics of Hollywood films according to how they are classified within genres or forms. Students will develop an appreciation of classic and contemporary films as entertainment and cinematic art. Field trips may be required.

*Transfer credit: CSU*

**THA R107—Contemporary Foreign Films** **3 units**  
*3 hours lecture weekly*

This course is a study of contemporary foreign films as they explore historical and cultural values within different societies. The evolution of the socio-political climate that produces film as an art form in other countries will center on the technology, business, aesthetics, and cultural impact of the medium. This course introduces contemporary foreign cinema, focusing on works of important directors and their production techniques.

*Transfer credit: CSU*

**THA R108—Acting for TV and Film I** **3 units**  
*2 hours lecture, 3 hours lab weekly*

This course introduces acting techniques to be applied to taped presentations. Professional requirements including auditioning, résumé writing, and performing will be developed, culminating in a final filmed presentation.

*Transfer credit: UC, CSU*

**THA R109—Readers' Theatre** **3 units**  
*3 hours lecture weekly*

Concepts and techniques of cooperative group work in oral interpretation of literature, including children's stories, poetry, prose, and dramatic literature: supervised activities in performing Readers' Theatre before community and college audiences. (Same as SPCH R109)

*Transfer credit: UC, CSU*

**THA R110A—Rehearsal and Performance I** **3 units**  
*2 hours lecture, 3 hours lab weekly*

Students will be involved in techniques of auditioning, improvising and rehearsing to create original or scripted plays. In addition, technical work in sets, costumes, lighting, stage management, and box office will be developed for a performance before a live audience. Cast or staff assignment in current theatre arts production. (2)

*Transfer credit: UC, CSU*

**THA R110B—Rehearsal and Performance II** **3 units**  
*Prerequisites: THA R110A.*  
*2 hours lecture, 3 hours lab weekly*

Students will develop techniques in dress and technical rehearsals with the final product of a polished live theatre production as the goal. Cast or staff assignment in current theatre arts production. (2)

*Transfer credit: UC, CSU*

**THA R110C—Rehearsal and Performance III** **3 units**  
*Prerequisites: THA R110B.*  
*2 hours lecture, 3 hours lab weekly*

Actors, directors, and technical designers will coordinate research and production techniques to create a live theatre production. Cast or staff assignment in current theatre arts production. (2)

*Transfer credit: UC, CSU*

**THA R110D—Rehearsal and Performance IV** **3 units**  
*Prerequisites: THA R110C.*

2 hours lecture, 3 hours lab weekly

Ensemble acting and well-developed technical support will be presented to a live theatre audience. Cast or staff assignment in current theatre arts production. (2)

Transfer credit: UC, CSU

**THA R112—Chicano Teatro 3 units**

2 hours lecture, 3 hours lab weekly

Course treats technical and organizational practices of theatrical productions, writing for the Chicano Teatro and presenting Spanish-speaking productions in barrios and at the college. (2)

Transfer credit: UC, CSU

**THA R115—Directing for the Stage 3 units**

2 hours lecture, 3 hours lab weekly

Study of history of stage directing; concentration placed on art and craft of directing for stage with emphasis on techniques. Practical experience in directing scenes from plays. Course may be taken two times. (2)

Transfer credit: UC, CSU

**THA R117—Children’s Theatre and Creative Dramatics 3 units**

2 hours lecture, 3 hours lab weekly

Practical course in techniques of producing Children’s Theatre, plus utilizing techniques of conducting classes in creative dramatics for children. Class may produce and present its own program illustrating its class work to elementary and/or junior high audiences in the college area. Course may be taken two times. (2)

Transfer credit: CSU

**THA R120A—Stage Production I 3 units**

2 hours lecture, 3 hours lab weekly

Lectures and demonstrations in stage lighting, sound, and stage costuming, including practical lab experience as members of crews for department productions.

Transfer credit: UC, CSU (CAN: DRAM 12)

**THA R120B—Stage Production II 3 units**

2 hours lecture, 3 hours lab weekly

Lectures and demonstrations in scene design, stagecraft, make-up, and theatre management, including practical lab experience as members of crews for department productions. (2)

Transfer credit: UC, CSU

**THA R121A—Stagecraft—Stage Design I 3 units**

Prerequisites: THA R120 recommended.

2 hours lecture, 3 hours lab weekly

Concepts and production elements needed for theatrical staging; utilizes lighting and scene design preparation and execution. Course specializes in renderings, scale models, and detailed drawings of sets of plays to be done at the college. Course may be taken two times.

Transfer credit: UC, CSU

**THA R121B—Stagecraft—Stage Design II 3 units**

Prerequisites: THA R121A.

2 hours lecture, 3 hours lab weekly

Concepts and production elements needed for theatrical staging; utilizes lighting and scene design preparation and execution. Course

specializes in renderings, scale models, and detailed drawings of sets of plays to be done at the college. Course may be taken two times.

Transfer credit: UC, CSU

**THA R122—Stage Make-Up 3 units**

2 hours lecture, 3 hours lab weekly

Students will learn to develop basic stage make-up for use in current productions. Make-up use in historical periods will require detailed analysis and research. Speciality make-up used in fantasy performance will play a secondary role. Course may be taken two times. (2)

Transfer credit: UC, CSU

**THA R127—Black Experience in the Theatre Arts 3 units**

3 hours lecture weekly

One semester survey of Blacks’ involvement in the history of Theatre Arts, utilizing dramatic literature and biographies of Black playwrights and performers.

Transfer credit: UC, CSU

**THA R198—Short Courses in Theatre Arts ½-10 units**

Lecture and/or lab hours as required by unit formula

Courses and/or workshops in selected areas of Theatre Arts to meet specific needs of college or community as requested or required. Field trips may be required. (2)

Transfer credit: CSU

**THA R199—Directed Studies in Theatre Arts ½-3 units**

Prerequisites: A course in the specific field.

Lecture and/or lab hours as required by unit formula

Designed for students interested in furthering their knowledge of Theatre Arts on an independent study basis. Assigned problems will involve library, lab, and field work. Course may be taken two times. (2)

Transfer credit: CSU

## TRAVEL & TOURISM

This curriculum prepares students for careers with travel organizations. Positions such as airline reservations agents, customer service, travel agents, sales representatives, and other travel categories are available to the student upon completion of the certificate program.

### u Travel and Tourism

Required Courses:		Units
TRVL R100	Introduction to Travel and Tourism	3
TRVL R101	Selling Destinations	3
TRVL R102	Domestic Ticketing	3
TRVL R103	International Ticketing	3
TRVL R104	Airline Computer Training	2
TRVL R105	Travel and Tourism Marketing	3
TRVL R106	Tour Management	3
BUS R180	Introduction to International Business	3
CIS R020A	Introduction to Microcomputers	2
CIS R021A	Introduction to Windows	2
<b>Total Required Units</b>		<b>27</b>

Select a minimum of six (6) units from the following:

TRVL R107	Travel Agency Operations	3
TRVL R108	Travel Agency Accounting	3
TRVL R190	Internship in Travel	3
BUS R120	Introduction to Business	3

BUS R121	Introduction to Management	3
<b>Total Required Units</b>		<b>33</b>

## Travel & Tourism Courses

### **TRVL R100—Introduction to Travel & Tourism** 3 units

*Advisory: HRM R100.*

*3 hours lecture weekly*

Survey course covering the tourism business, a series of interrelated businesses serving the traveler both here and abroad, linking people, travel modes, accommodations and facilities.

*Transfer credit: CSU*

### **TRVL R101—Selling Destinations** 3 units

*Prerequisites: TRVL R100 or current employment in the travel industry.*

*3 hours lecture weekly*

Course studies geography from a travel industry perspective. Important tourist destinations receive detailed discussion, and students will gain the knowledge needed to be a travel professional. Students will learn how to match clients to destinations and services. Course may be taken two times.

*Transfer credit: CSU*

### **TRVL R102—Domestic Ticketing** 3 units

*Prerequisites: TRVL R100.*

*3 hours lecture weekly*

This course covers domestic air and ticketing procedures, fare calculations, tariffs and taxes. Includes the use of the *Official Airline Guide (OAG)* and reference materials used by the travel industry.

*Transfer credit: CSU*

### **TRVL R103—International Ticketing** 3 units

*Prerequisites: TRVL R102.*

*3 hours lecture weekly*

Course covers the planning of worldwide travel, the ticketing procedures, including rules, regulations, tariffs, fare construction and currency regulations. Includes the use of the *Official Airline Guide, Worldwide Edition* and reference materials used by the travel industry. Access to international information and fares in the Apollo computer system will be available in a hands-on manner using an ABM-PC computer simulation system.

*Transfer credit: CSU*

### **TRVL R104—Airline Computer Training** 2 units

*Prerequisites: TRVL R102 and TRVL R103.*

*1 hour lecture, 3 hours lab weekly*

Intensive program of lecture-hands-on lab sessions; basic reservation record creation, flight availability, fares, travel itineraries, document preparation, and auxiliary services, such as hotel reservations and ground transportation.

*Transfer credit: CSU*

### **TRVL R105—Travel/Tourism Marketing** 3 units

*Prerequisites: TRVL R100.*

*3 hours lecture weekly*

This course covers all aspects of advertising, promotion, and marketing techniques in the travel, tourism, and hospitality industry. Students will study everything necessary to plan, develop, and implement a complete advertising and marketing campaign. The psychology of advertising and human behavior are studied. Students will learn how to write and design ads, scripts, and press releases for airlines, cruise lines, railroads, motorcoach companies, car rentals, tour operators, tourism promotion, hotels and motels, and restaurants.

*Transfer credit: CSU*

### **TRVL R106—Tour Management** 3 units

*Prerequisites: TRVL R100.*

*3 hours lecture weekly*

Course provides a solid foundation for understanding all of the elements that go into producing and directing a group tour. Topics covered include planning, developing, and costing a tour with emphasis given to conducting tour from the time it leaves home base until it returns. Students will learn how to plan and implement foreign independent tours (F.I.T.).

*Transfer credit: CSU*

### **TRVL R107—Travel Agency Operations** 3 units

*Prerequisites: TRVL R100.*

*3 hours lecture weekly*

Course covers all aspects of managing a travel agency, including interviewing and hiring personnel, training, compensation, building and maintaining morale, performance evaluations, and handling problem employees. Case studies that simulate real-life situations encountered in travel agencies are used.

*Transfer credit: CSU*

### **TRVL R108—Travel Agency Accounting** 3 units

*Prerequisites: TRVL R100.*

*3 hours lecture weekly*

An introduction to the accounting and budgeting roles performed in travel agencies. Course presents special problems that arise, focuses on the preparation of the weekly "ARC" report, and discusses profit-oriented budgeting. A multi-step approach to preparing a travel agency's annual budget in a few sequenced steps is studied along with a easy-to-use method of determining profitability of each commercial account.

*Transfer credit: CSU*

### **TRVL R190—Internship in Travel** 3 units

*Prerequisites: Completion of at least 12 units in the TRVL series.*

*9 hours lab weekly*

A course designed to give students an opportunity to obtain practical experience in their career major. Students will gain experience by working in the travel and tourism industry.

*Transfer credit: CSU*