

Management

(For Maintenance Technician - See "Industrial Education")

Business & Computer Science Division

Management

Program Description

This program is designed to emphasize training to improve thought processes and to provide familiarity with the analytical tools of management, sound decision-making, and how to get things done through and with people. Also, this option is designed for initial employment upon graduation and for job advancement opportunities.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained by completing the 21-unit major listed below. The Associate in Science Degree can be obtained by completing a total of 60 units, including the major, the supporting courses and the general education requirements.

Required Courses

(Recommended Sequence)	Units	Supporting Courses (for the A.S.)	Units
BUS 005—Introduction to Business	3	ECON 001—Prin. of Economics- Macro	
MGMT 050—Prin. of Management	3	OR	
MGMT 055—Management/Ldership Skill	3	ECON 002—Prin. of Economics- Micro	3
MGMT 191—Human Relations		ACCT 001—Prin.of Acctng-Financial	
OR		OR	
MGMT 193—Human Resources Mgmt.	3	ACCT 002—Prin.of Acctng-Managerial	4
BUS 092—Bus. Communication	3	BUS 018—Legal Environment of Bus.	3
CIS 050—Microcomputer Applications	3		10*
BUS 181—Business Mathematics	3	*Required for the A.S. degree.	
	21		
		Recommended Electives	
		OCED 090	

Small Business Management

Program Description

This program is designed for those planning to start their own business, buy an existing business, buy a franchise, or who already own their own business. This option emphasizes learning the concepts and practical skills necessary to be a successful, professional entrepreneur. Specifically designed for working adults, the courses emphasize a systematic approach to business which focuses on the integration of theoretical and practical skills.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained by completing the 28-unit major listed below. The Associate in Science Degree can be obtained by completing a total of 60 units, including the major, general education requirements, and electives.

Required Courses

(Recommended Sequence)

	Units	Recommended Electives
MGMT 184—Small Business Mgmt. and Planning	3	ACCT 001, 002, 180
MGMT 186—Small Business Marketing	3	BUS 060
MGMT 188—Computers/Small Business	3	ECON 001, 002
BUS 005—Introduction to Business	3	MGMT 055, 191
BUS 018—Legal Environment of Business	3	MKT 173, 174
BUS 181—Business Math	3	OCED 090, 091 (1-4 units)
BUS 182—Small Business Math	1	OT 054, 055
BUS 092—Business Communication	3	SPAN 001, 002
Electives selected from list of Recommended Electives	6	
	28	

Retail Management

Program Description

Designed to serve the needs of the employees and employers within the retail industry. The program provides the knowledge and skills needed to prepare students for both entry level jobs and upward mobility opportunities in this dynamic and ever changing segment of our economy. Program emphasis is placed on professional and career development

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement in Retail Management can be obtained by completing the 30-31 unit major listed below. The Associate in Science Degree can be obtained by completing a total of 60 units, including the major, general education requirements, and electives.

Required Courses

(Recommended Sequence)

	Units	Recommended Electives
BUS 092—Business Communication	3	BUS 182
BUS 181—Business Mathematics	3	OCED 090, 091
CIS 050—Microcomputer Applications	3	
MGMT 050—Principles of Management	3	
ACCT 180—Introduction to Accounting (3 units)		
OR		
ACCT 1—Prin. of Acctng—Financial (4 units)	3-4	
MKT 171—Introduction to Marketing	3	
MKT 174—Retail Merchandising	3	
MGMT 191—Human Relations	3	
MGMT 055—Management/Leadership Skills	3	
MGMT 193—Human Resource Management	3	
	30-31	

NOTE: This program is approved by the Western Association of Food Chains for awarding of the industry WAFC Certificate.

Management

MGMT 050

3 Units

Principles of Management

Course Advisories: Eligibility for ENGL 001; SCC minimum math standard. An introduction and comprehensive survey of the theory and practices relevant to the management principles of: planning, organizing, staffing, directing and controlling. The course explores the nature and role of management/supervision in a contemporary environment focusing on the strategic planning, decision-making and problem-solving processes that affect organizational effectiveness and efficiency. Includes quantitative and qualitative methodology used in systems and contingency approach to management. *Three hours lecture.*

MGMT 055

3 Units

Management/Leadership Skills

Course Advisory: Eligibility to enroll in ENGL 001. A comprehensive development, analysis, and application of fundamental skills needed for the successful practice of supervision/leadership. This course addresses the quality principles of leadership applied to work processes, decision making and problem solving, communication, stress and time management, and delegating/facilitating in a team environment. The focus of the course is on job-relevant skills. Class exercises are employed to teach the various skills. *Three hours lecture.*

MGMT 184

3 Units

Small Business Management and Planning

Course Advisory: Eligibility to enroll in ENGL 001. Introduction to the principles of management and planning and how they apply to any small business. Principles discussed include the development of a business strategy, how to finance a small business, financial management, risk management and insurance, developing a business plan, budgeting, credit and collections, recruiting and selecting staff, employee relations, business expansion, buying a business, franchising, and the role of small business in the community and the economy. All students will prepare a business plan. *Three hours lecture.*

MGMT 186

3 Units

Small Business Marketing

Course Advisories: SCC minimum English and math standards. Students will learn how to apply the principles of marketing to any small business, enabling the business to attract and keep customers and increase sales. This course is intended to familiarize students with the major elements of marketing, including market research, test marketing, developing a marketing strategy and implementing that strategy by means of advertising, sales, direct mail, telemarketing, public relations, publicity, customer relations, etc. *Three hours lecture.*

MGMT 188

3 Units

Computers in Small Business

Course Advisories: SCC minimum English and math standards. Students will learn the five most common applications of computers to small business situations: document, form, and correspondence preparation; accounting/financial statements/budgeting; tracking of customers and prospective customers in sales and marketing; graphic design of flyers, brochures, advertisements, etc. This course does not cover programming and systems analysis. *Three hours lecture, one hour lab.*

MGMT 191

3 Units

Human Relations

Course Advisories: SCC minimum English and math standards. A comprehensive study and analysis of the concepts and skills associated with human behavior and relationships. The course stresses effective supervision and leadership practices as applied to human interaction. *Three hours lecture.*

MGMT 193

3 Units

Human Resource Management

Course Advisories: SCC minimum English and math standards. Human resource administration of public and private organizations including personnel and administrative practices. The student will examine the evolution of unions including the various labor relations acts, collective bargaining processes, grievance procedures, and arbitration. Supervisor's and the steward's roles are emphasized for effectively maintaining negotiated contracts. The course focuses on actual personnel problems, principles and methods involved in recruitment, selecting and placement of employees with regard to affirmative action programs, training, experience and aptitude. *Three hours lecture.*

MGMT 194**3 Units****Personal Finance**

Course Advisories: SCC minimum English and math standards. Study of the everyday problems associated with allocating personal income and the management of personal finance. Emphasizes financial principles associated with planning, decision-making, and budgeting. The course explores the financial concerns of individuals in an economic environment. Topics include financial planning, credit, investments, taxes, risk management, and other current financial issues. *Three hours lecture.*

SPECIAL TOPICS

These courses, numbered 098, 148 or 248 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Marketing

Business & Computer Science Division

Program Description

Marketing involves a variety of activities including selection of target customer, product development, promotion, pricing and distribution. It applies equally to services, ideas, non-profit organizations, and the individual.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained by completing the 30-unit major below. The Associate in Science Degree can be obtained by completing a total of 60 units, including the major, general education requirements, and electives.

Required Courses

	Units
BUS 005-Intro. to Business	3
BUS 018-Legal Environment of Bus.	3
BUS 181- Business Math	3
CIS 050-Microcomputer Applications	
OR	
CIS 001-Intro to Computer Science	3
ECON 002-Principles of Economics	3
MGMT 050-Prin. of Management	
OR	
MGMT 191 Human Relations	3
MKT 171 - Introduction to Marketing	3
MKT 172-Marketing Mgmt & Planning	3
MKT 173-Principles of Selling	3
MKT 174-Retail Merchandising	3
	30

Recommended Electives

ACCT 001, 180
 BUS 060, 092
 CIS 060
 ECON 001
 MGMT 050 *, 191*
 MKT 170
 OCED 090

*If not taken as part of the major.

MKT 170 **3 Units**

Advertising

Course Advisories: SCC minimum English and math standards. A comprehensive study of the principles of advertising as applied to the marketing process. *Three hours lecture.*

evaluation of breakthrough opportunities. Practical applications in dealing with government regulations and the career field of sales, promotion/advertising. *Three hours lecture.*

MKT 171 **3 Units**

Introduction To Marketing

Course Advisories: SCC minimum English and math standards. A comprehensive study and analysis of initiating the marketing process (for both profit and non-profit organizations) with special emphasis on understanding the consumer and detailed studies of demographics and target marketing. Includes the role of marketing research, the process of defining a marketing problem and then systematically collecting and analyzing information to recommend actions to improve an organization's marketing activities. *Three hours lecture.*

MKT 173 **3 Units**

Principles of Selling

Course Advisories: SCC minimum English and math standards. The application of traditional selling skills including the approach, demonstrating the product, answering the customer's objections, and closing the sale to the customer's satisfaction. *Three hours lecture.*

MKT 172 **3 Units**

Marketing Management and Planning

Course Advisories: SCC minimum English and math standards. Covers marketing methodology related to all channels of distribution including pricing strategies, new product/services, and the development and

MKT 174 **3 Units**

Retail Merchandising

Course Advisories: SCC minimum English and math standards. A comprehensive study of the principles and practices of merchandising management of product/services, with emphasis on store location analysis, layout, customer services, buying, sales promotion, consumer credit, and understanding consumer needs and wants. Course includes practical applications related to start-up of a new business and legal constraints of organizing, selling, advertising, consumer relations and personnel practices. *Three hours lecture.*

Program Description

Successful completion of this major will assure competence in mathematics through differential and integral calculus, providing an adequate background for employment in many technological and scientific areas as well as providing a firm foundation for students planning advanced study.

Associate in Arts Degree

An Associate in Arts Degree can be obtained upon completion of 60 units, including the 18 -19 unit major listed below with a grade of "C" (2.0) or better in each course, general education requirements, and electives.

Required Courses

	Units
MATH 020—Analytic Geometry and Calculus	4
MATH 021—Analytic Geometry and Calculus	4
MATH 022—Analytic Geometry and Calculus	4
MATH 023—Differential Equations (3 units)	
OR	
MATH 011—Elementary Statistics (4 units)	
OR	
MATH 012—Mathematical Ideas (3 units)	
OR	
MATH 015—Finite Mathematics (3 units)	3-4
MATH 040—Intro. to Linear Algebra	<u>3</u>
	18 -19

Recommended Elective:

MATH 060

NOTE: Specific graphing calculators are required in some math courses.

MATH 002

3 Units

Algebra for Calculus (College Algebra)

Prerequisite: A grade of "C" or better in MATH 104. SCC minimum English standard. Designed to develop the skills and introduce the concepts necessary for further study in mathematics, and facilitate the application of those skills and concepts to other fields. Included is a review of elementary set algebra; the algebra of functions; the real and complex numbers as a field; algebraic, exponential, and logarithmic functions; equations and inequalities of these functions; solution of linear systems, matrix algebra, and introduction to sequences and series. (CAN MATH 10) *Three hours lecture, one hour lab.*

MATH 004

5 Units

Pre-Calculus Mathematics

Prerequisites: A grade of "C" or better in MATH 103 and 104. NOTE: Not open to students who have completed MATH 051 or MATH 002 with a grade of "C" or better.

Course Advisory: SCC minimum English standard.

A comprehensive study of the mathematics that is prerequisite to the calculus sequence. Topics included are the elementary functions and their graphs, methods of solving equations and systems of equations, applied problems that are relevant to calculus, analytic geometry and mathematical induction. (CAN MATH 16). *Five hours lecture, one hour lab.*

MATH 011

4 Units

Elementary Statistics

Prerequisite: A grade of "C" or better in MATH 104. Course Advisory: Eligibility for ENGL 001. An introduction to elementary probability and statistics including the basic rules of probability, probability distributions, descriptive statistics, hypothesis testing, estimation, correlation and regression analysis. (CAN STAT 2). *Four hours lecture, one hour lab.*

Mathematics

MATH 012

3 Units

Mathematical Ideas

Prerequisite: A grade of “C” or better in MATH 104. *Course Advisory:* SCC minimum English standard. An introduction to the diversity of mathematics through the examination of ideas from logic, sets, the numeration systems, and other topics from contemporary mathematics. The emphasis is on problem solving. (CAN MATH 2). *Three hours lecture.*

MATH 015

3 Units

Finite Mathematics (On demand)

Prerequisites: A grade of “C” or better in MATH 104. *Course Advisory:* SCC minimum English standard. An introduction of finite mathematical methods including topics from set theory, matrix algebra, combinatorial analysis, and probability with application to statistics, linear programming, Markov chains, and game theory. Includes the application of these methods to business, biology, computer science, and the social sciences. (CAN MATH 12). *Three hours lecture, one hour lab.*

MATH 020

4 Units

Analytic Geometry and Calculus I

Prerequisites: Grades of “C” or better in MATH 002 *and* 051, or MATH 004. *Course Advisory:* SCC minimum English standard. MATH 020, the first of the three-semester sequence in Analytic Geometry and Calculus for students majoring in mathematics, engineering, and most physical sciences, is the study of the differential and integral calculus of functions of one variable. Topics covered are limits, continuity, differentiation of algebraic and transcendental functions, applications of the derivative, definite and indefinite integrals, fundamental theorem of calculus, and applications of the definite integral. (CAN MATH 18) (MATH 020 & 021 = CAN MATH SEQ B) (MATH 020, 021, & 022 = CAN MATH SEQ C). *Five hours lecture, one hour lab.*

MATH 021

4 Units

Analytic Geometry and Calculus II

Prerequisite: A grade of “C” or better in MATH 020. *Course Advisory:* SCC minimum English standard. Math 021, the second of the three-semester sequence in Analytic Geometry and Calculus for students majoring in mathematics, engineering, and most physical sciences, continues the study of the differential and integral calculus of functions of one variable. Topics included are introduction to differential equations, computing area and volume, applications and techniques of integration, polar coordinates, infinite series, improper integrals, and L’Hopital’s Rule. (CAN MATH 20) (MATH 020 & 021 = CAN MATH SEQ B) (MATH 020, 021, & 022 = CAN MATH SEQ C). *Five hours lecture, one hour lab.*

MATH 022

4 Units

Analytic Geometry and Calculus III

Prerequisite: A grade of “C” or better in MATH 021. *Course Advisory:* SCC minimum English standard. Math 022, the third of the three-semester sequence in Analytic Geometry and Calculus for students majoring in mathematics, engineering, and most physical sciences, is a study of three-dimensional analytic geometry, vectors and vector-valued functions, functions of several variables, the calculus of these functions, and vector analysis including Green’s and Stokes’ theorems. (CAN MATH 22) (MATH 020, 021, & 022 = CAN MATH SEQ C). *Four hours lecture, one hour lab.*

MATH 023

3 Units

Differential Equations

Prerequisite: A grade of “C” or better in MATH 021. *Course Advisory:* SCC minimum English standard. This course covers ordinary differential equations emphasizing linear differential equations and systems with applications to engineering, physics, and chemistry. Included are La Place transforms and power series methods of solution. (CAN MATH 24). *Four hours lecture.*

MATH 030

3 Units

Analytic Geometry and Calculus

Prerequisite: A grade of “C” or better in MATH 104. *NOTE:* Not open to students who have completed MATH 020 with a grade of “C” or better. *Course Advisory:* SCC minimum English standard. MATH 030 and 031 is a two-semester sequence in analytic geometry and calculus for students majoring in business, biological, and social sciences. This is **not** the calculus course for students majoring in mathematics, engineering or the physical sciences. MATH 030 covers differential and integral calculus of a single variable. Topics include limits, continuity, derivatives of algebraic and transcendental functions and their applications, integrals and their applications, and plane analytic geometry. (CAN MATH 30) (MATH 030 & 031 = CAN MATH SEQ D). *Three hours lecture, one hour lab.*

MATH 031

3 Units

Analytic Geometry and Calculus

Prerequisite: MATH 030 with a grade of “C” or better. *Course Advisory:* SCC minimum English standard. A continuation of the calculus of functions of one variable (MATH 030). Topics included are the fundamental theorem of calculus, techniques of integration, numerical methods of integration, functions of several variables, elementary differential equations, and infinite series. (CAN MATH 32) (MATH 030 & 031 = CAN MATH SEQ D) *Three hours lecture, one hour lab.*

MATH 040**3 Units****Introduction to Linear Algebra**

Prerequisite: A grade of “C” or better in MATH 020 or 030.
NOTE: A relatively high degree of mathematical maturity is required for this course. *Course Advisory:* SCC minimum English standard. An introduction to linear algebra, with a focus on finite dimensional real vector spaces. Topics include systems of linear equations and matrices, linear transformations, general vector spaces, eigenvectors and eigenvalues and associated eigenspaces, inner products and orthogonality. (CAN MATH 26). *Three hours lecture, one hour lab.*

MATH 051**3 Units****Trigonometry**

Prerequisites: A grade of “C” or better in MATH 103 and 104. *Course Advisory:* SCC minimum English standard. Presents the essentials of plane trigonometry to prepare students for subsequent studies in physics, calculus or related technical programs. Topics include definitions of the trigonometric functions and inverse trigonometric functions, solutions of triangles and applied problems, graphs, trigonometric identities and equations, and the trigonometric form of complex numbers. (CAN MATH 8). *Three hours lecture, one hour lab.*

MATH 052**1 Unit****Calculus Prep Boot Camp** (On demand)

Prerequisites: A grade of “C” or better in MATH 002 AND MATH 051, OR MATH 004. *Course Advisory:* Eligibility for ENGL 001. An introduction to some of the ideas of calculus using a “hands on”, intuitive approach. The emphasis is on learning strategies, collaborative learning, and developing math study skills. This is a credit/no credit only course. *Two hours activity.*

MATH 060**.5 Unit****Introduction to the Use of Technology in Mathematics** (On demand)

An introduction to the functions of a scientific graphing calculator or a mathematical computer software package and their uses as tools in mathematical problem solving. The topics covered will be useful in current and subsequent math courses. Students may be required to have a specific model calculator as indicated by the instructor. The course is designed for students who are or will be enrolled in a math course that uses technology to solve problems from the course content outline. This is a credit/no credit only course. *One hour lecture per week (8 week course).*

MATH 102**5 Units****Elementary Algebra**

Prerequisite: MATH 320 with a grade of “C” or better.
NOTE: Not open to students who have passed MATH 107. *Course Advisory:* SCC minimum English standard. Introductory examination of the structure of the number system. Covers such topics as an introduction to set operations, the field axioms of the real numbers, and the properties of the whole number exponents. Emphasizes operations with fundamental expressions; solutions of first degree equations, inequalities and linear systems. Introduces absolute value, radical and quadratic equations, applied problems involving first and second degree equations in one variable, point-slope and slope-intercept equations of lines and their graphs, and the concepts of relations and functions. Students who pass MATH 102 are not eligible for MATH 107. *Five hours lecture, one hour lab.*

MATH 103**3 Units****Plane Geometry**

Prerequisite: A grade of “C” or better in MATH 102 or MATH 108. *Course Advisory:* SCC minimum English standard. The study of Euclidean (plane) geometry through conjecture, proof, and problem solving. Topics include the mathematical relationships of angles, parallels, triangles, quadrilaterals, circles, and solids. Additionally, coordinate geometry transformations are covered. *Three hours lecture, one hour lab.*

MATH 104**5 Units****Intermediate Algebra**

Prerequisite: A grade of “C” or better in MATH 102 or MATH 108. *Course Advisory:* SCC minimum English standard. An extension of the fundamental algebraic concepts developed in elementary algebra. Additional topics include arithmetic operations on functions; composition of functions; basic graphing techniques; absolute value, exponential, logarithmic, quadratic, linear, and polynomial functions; equations of the second degree and their graphs; complex numbers; and systems of linear equations in two and three variables. *Five hours lecture, one hour lab.*

Mathematics

MATH 107

2.5 Units

Elementary Algebra, Part I

Prerequisite: MATH 320 with a grade of “C” or better.

Course Advisory: SCC minimum English standard.

Introductory examination of the structure of the number system. Covers such topics as an introduction to the concept of set operations, the field axioms of the real numbers, order of operations, properties of whole number exponents, variables, variable expressions, operations with monomials, definition of a polynomial, addition and subtraction of polynomials, linear equations, graphing linear equations, linear inequalities, and systems of linear equations, solutions of first degree equations and inequalities in one variable, and applications. A student must take MATH 108 to complete Elementary Algebra. Students who pass MATH 107 are not eligible for MATH 102. *Three hours lecture, one hour lab.*

MATH 108

2.5 Units

Elementary Algebra, Part II

Prerequisite: A grade of “C” or better in MATH 107. *Course*

Advisory: SCC minimum English standard. Covers such topics as multiplication and division of polynomials, factoring, solving quadratic equations by factoring, operations with rational expressions, simplifying rational expressions, solutions of equations containing rational expressions, roots, radicals and the quadratic formula, and introduction to functions. *Three hours lecture, one hour lab.*

MATH 112

3 Units

Algebraic Reasoning

Prerequisite: MATH 102 or MATH 108 with a grade of “C” or better. *Course Advisory:* SCC minimum English standard.

Students will develop their ability to solve problems with algebraic reasoning. Topics including financial math, voting methods, apportionment, and probability have been chosen for their “real-world” applicability and usefulness. Additional topics may be picked by the instructor from various fields of mathematics such as geometry, linear programming, statistics, graph theory, set theory and number theory. *Three hours lecture, one hour lab.*

MATH 114

3 Units

Math for Health Occupations

Prerequisite: Math 102 or Math 108 with a grade of C or better. *Course Advisory:* SCC minimum English standard.

This course is designed for A.S/A.A health occupation students to prepare them for math topics encountered in their chemistry, biology, and health occupation courses. Topics include metric system, dimensional analysis, counting techniques, linear models, exponential models, common logarithms, and simple logic. *Three hours lecture, one hour lab.*

MATH 304

1-3 Units

Arithmetic (Self-Paced)

Prerequisite: None. *NOTE:* Students who have completed MATH 310 are not eligible to enroll in MATH 304. *May not be taken concurrently with MATH 310.*

Course Advisory: SCC minimum English standard.

An individualized course in basic mathematical computations designed to improve arithmetic skills and prepare the student for a pre-algebra level math course. The first unit is whole numbers and fractions. The second unit is decimals and percents. The third unit is simple geometry, basic statistics, and measurements. This is an open entry/open exit, credit/no credit only course. May be repeated to a maximum of 3 units, including initial enrollment. *Three hours lecture.*

MATH 310

3 Units

Arithmetic (Lecture)

Prerequisite: None. *NOTE:* Not open for credit to students who have completed 1 unit or more of MATH 304. *May not be taken concurrently with MATH 304.*

Course Advisory: SCC minimum English standard. A course in basic mathematical computations designed to improve arithmetic skills and prepare the student for a pre-algebra level math course. Major topics include whole numbers, fractions, decimals, percents, simple geometry, measurement, and basic statistics. *Three hours lecture.*

MATH 320

3 Units

Pre-algebra

Prerequisite: Three units of credit in MATH 304, or a grade of “C” or better in MATH 310, or three units of credit in BUS 181 with a grade of “C” or better. *Course Advisory:* SCC minimum English standard.

A course in pre-algebra designed to prepare the student for transition into a beginning algebra course. Major topics include operations on integers and rational numbers, the order of operations, introduction to variables, simplifying and evaluating expressions, solving basic linear equations, basic geometry, graphing, and application problems. *Three hours lecture, one hour lab.*

SPECIAL TOPICS

These courses, numbered 048, 098, 148 or 198 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Program Description

Students may select from three music programs—Instrumental, Theory-Composition, or Vocal. Music majors are urged to take class lessons or private instruction in their specialization each semester.

Associate in Arts Degree

The Associate in Arts Degree can be obtained by completing a total of 60 units, including the courses in the major for Instrumental, or Theory-Composition, or Vocal, the general education requirements, and elective courses.

Required Courses

Music—Instrumental

	Units
MUSC 003 & 004-Advanced Theory (4 & 4 units)	8
MUSC 041A & 041B-Piano for Music Majors (1.5 & 1.5 units)	3
* MUSC 010—Concert Band	
OR	
MUSC 021—Chorus	2
Select one course from the following:	1-1.5
MUSC 030—Intermediate Piano (1 unit)	
MUSC 032—Class Lessons in Brass (1.5 units)	
MUSC 033—Class Lessons in Brass (1 unit)	
MUSC 034—Class Lessons in Percussion (1.5 units)	
MUSC 037—Elementary Organ (1.5 units)	
MUSC 039—Class Lessons in Intermediate Guitar (1.5 units)	
Select 7 units from the following:	7
MUSC 008—Music Appreciation (3 units)	
MUSC 010—Concert Band (2 units)	
MUSC 013—Multicultural Music in America (3 units)	
MUSC 014—Jazz Ensemble (2 units)	
MUSC 016—Symphony Orchestra (.5-1 unit)	
MUSC 017—Chamber Orchestra (2 units)	
MUSC 018—Beginning Steel Band (2 units)	
MUSC 019—Instrumental Ensemble (2 units)	
MUSC 023—Handbell Ensemble (2 units)	
MUSC 042A or 042B—Jazz & Pop Piano (1.5 units ea.)	
MUSC 046—Instrumental Conducting (1 unit)	
MUSC 055—Intro. to Jazz Improvisation (3 units)	
MUSC 056—Jazz Improvisation Ensemble (2 units)	
	21-21.5

*Required the first semester of enrollment.

Music

Music—Theory-Composition

	Units
MUSC 003 & 004-Advanced Theory (4 & 4 units)	8
MUSC 041A & 041B-Piano for Music Majors (1.5 & 1.5 units)	3
* MUSC 010—Concert Band	
OR	
MUSC 021—Chorus	2
Select one course from the following:	1-1.5
MUSC 030—Intermediate Piano (1 unit)	
MUSC 037—Elementary Organ (1.5 units)	
Select 7 units from the following:	7
MUSC 006—Composition, Arranging, Songwriting (3 units)	
MUSC 008—Music Appreciation (3 units)	
MUSC 013—Multicultural Music in America (3 units)	
MUSC 046—Instrumental Conducting (1 unit)	
MUSC 052—Sound Recording (2 units)	
MUSC 053—Adv. Sound Recording (2 units)	
MUSC 055—Intro. to Jazz Improvisation (3 units)	
MUSC 056—Jazz Improvisation Ensemble (2 units)	
MUSC 060—Computer Assisted Music Lab (.5-3 units)	
MUSC 061—MIDI Computer Music Seq./Scoring (2 units)	_____
	21-21.5

*Required the first semester of enrollment.

Music—Vocal

	Units
MUSC 003 & 004-Advanced Theory (4 & 4 units)	8
MUSC 041A & 041B-Piano for Music Majors (1.5 & 1.5 units)	3
* MUSC 010—Concert Band	
OR	
MUSC 021—Chorus	2
Select one course from the following (all 1.5 units):	1.5
MUSC 035A or 035B—Beginning Voice I or II	
MUSC 036A or 036B—Intermediate Voice I or II	
Select 7 units from the following:	7
MUSC 008—Music Appreciation (3 units)	
MUSC 013—Multicultural Music in America (3 units)	
MUSC 020—Choir (2 units)	
MUSC 022—Musical Theater (1-3 units)	
MUSC 024—Master Works Chorale (2 units)	
MUSC 025—Chamber Choir (2 units)	
MUSC 026—Vocal Jazz Ensemble (2 units)	
MUSC 047—Choral Conducting (1 unit)	
MUSC 051—Jazz and Popular Solo Voice (1.5 units)	_____
	21.5

*Required the first semester of enrollment.

MUSC 001

4 Units

Beginning Theory (F-Day)

Course Advisories: SCC minimum English and math standards.

Presents the basic principles of music theory including scales, intervals, modes, cadences, rhythmic and melodic construction and development, basic harmonic progressions, writing and analysis in four part texture in the Common Practice style, the principal triads in inversion, and the leading tone triad. Emphasis is on musicianship skills, including rhythmic and melodic dictation, intervals, chord progressions, sight singing, ear training. Recommended for all students interested in harmony, composition, sight reading and basic musical knowledge. Required for the music transfer student. *Five hours lecture.*

MUSC 002

4 Units

Beginning Theory (S-Day)

Prerequisite: MUSC 001 or equivalent. Course Advisories:

SCC minimum English and math standards. Presents further investigation into the basic principles of music theory, including supertonic, mediant, sub-mediante triads, common chord progressions, non-harmonic tones, triad usage, dominant seventh and supertonic seventh chords and elementary modulation. Development of ear training skills continues with melodic and rhythmic dictation, recognition of harmonic progressions and non-harmonic tones, and sight singing. Recommended for all students interested in harmony, composition, sight reading, ear development and a continuation of basic concepts. Required for the music transfer student. *Five hours lecture.*

MUSC 003

4 Units

Advanced Theory (F-Day)

Prerequisite: MUSC 002 or passage of acceptance exam.

Course Advisories: SCC minimum English and math standards. Presents the advanced principles of music theory including modulation, binary and ternary song forms, instrumental and lyric study, secondary dominants, supertonic, mediant, submediant and diminished seventh chords and introduction to altered chords, with description of advanced diatonic tonal procedures. Continues the development of ear training skills, including recognition of two, three and four part melodic dictation, rhythmic dictation, and realization of a chord progression. Techniques are presented through written examples, score analysis, and short vocal and instrumental projects. Recommended for all occupational music students. Required for the music transfer student and major. *Five hours lecture.*

MUSC 004

4 Units

Advanced Theory (S-Day)

Prerequisite: MUSC 003 or passage of acceptance examination.

Course Advisories: SCC minimum English and math standards. Presents further investigation into the advanced principles of music theory, including ninth, eleventh, and thirteenth chords, the Neopolitan sixth sonorities, the augmented sixth chords, advanced modulation, non-dominant diatonic chords, tone rows, pandiatonicism, and the study of all chromatic procedures. Continues with the development of ear training skills including all forms of melodic, rhythmic, chordal and formal dictation. Investigation of 20th Century techniques are presented through written examples, score analysis and vocal and instrumental projects. Recommended for all occupational music students; required for the music transfer student and major. *Five hours lecture.*

MUSC 005

3 Units

Music Fundamentals

Course Advisories: SCC minimum English and math standards.

A basic course including notation, rhythm, and major and minor scales, modes, sight reading, key signature, melody, and triads and ear training concepts. Traces the historical and cultural progress of music through the development of musical symbols and their application. No previous knowledge of music is required. *Three hours lecture.*

MUSC 006

3 Units

Composition, Arranging, Songwriting

Prerequisite: MUSC 001 and 002 or equivalent experience.

Course Advisories: SCC minimum English and math standards. Presents the principles of musical composition, introduction to instruments and transposition, scoring, arranging, text and lyric setting techniques, and songwriting. Popular styles of composition and songwriting as well as traditional techniques will be presented. Completed projects in the above areas will be required, along with demonstrating the practical application of skills and concepts. Repeatable 3 times. *Three hours lecture.*

MUSC 007

3 Units

Jazz and Popular Music in America: Ragtime to Rock

Course Advisory: SCC minimum English standard. A survey of jazz and popular music in America, using an historical approach. Includes listening to and analyzing examples of jazz and popular music in relation to the social, technical and historical trends. *Three hours lecture.*

Music

- MUSC 008** **3 Units**
Music Appreciation
Course Advisory: SCC minimum English standard. An introductory examination of how composers and songwriters exploit the various elements of music to heighten the expressive impact of a composition. Aspects of melody, rhythm, harmony, tone, and structure will be studied through focused listening of works from Renaissance to today's avante-garde and popular styles. Reports, listening tests, quizzes on assigned readings and listening projects may be required. (CAN MUS 8). *Three hours lecture.*
- MUSC 009** **2 Units**
Wind Ensemble
Course Advisories: SCC minimum English standard; play a band instrument. An instrumental ensemble class analyzing and performing wind ensemble music. This class requires public performance. Repeatable 3 times. *One hour lecture, two hours lab and one hour weekly by arrangement.*
- MUSC 010** **2 Units**
Concert Band
Course Advisories: SCC minimum English standard; play a band instrument. An instrumental ensemble class analyzing and performing concert band music. This class requires public performance. Repeatable 3 times. *One hour lecture, two hours lab and one hour weekly by arrangement.*
- MUSC 011** **2 Units**
Symphonic Band
Course Advisories: SCC minimum English standard; play a band instrument. An instrumental ensemble class analyzing and performing symphonic band music. This class requires public performance. Repeatable 3 times. *One hour lecture, two hours lab and one hour weekly by arrangement.*
- MUSC 013** **3 Units**
Multicultural Music in America
Course Advisory: SCC minimum English standard. A survey of multicultural music in America, including listening to and analyzing examples of multicultural music in relations to social, technical, and historical trends, including the role of music in influencing American attitudes toward ethnic identity, stereotyping, and racial prejudice. This course also examines the uniquely American style resulting from the interaction among musicians of many cultural, racial, national, and ethnic backgrounds. *Three hours lecture.*
- MUSC 014** **2 Units**
Jazz Ensemble
Course Advisories: SCC minimum English standard; play a jazz instrument. An instrumental ensemble class analyzing and performing jazz music. This class requires public performance. Repeatable 3 times. *One hour lecture, two hours lab and one hour weekly by arrangement.*
- MUSC 015** **2 Units**
Stage Band
Course Advisories: SCC minimum English standard; play a jazz instrument. An instrumental ensemble class analyzing and performing stage band music. This class requires public performance. Repeatable 3 times. *One hour lecture, two hours lab and one hour weekly by arrangement.*
- MUSC 016** **.5 -1 Unit**
Symphony Orchestra
Course Advisories: SCC minimum English standard; ability to play an instrument. An opportunity for qualified instrumentalists to perform as part of a symphony orchestra in public performance. A wide variety of musical literature is covered. This is an open entry/open exit course. Repeatable 3 times. *One and one-half to three hours lab.*
- MUSC 017** **2 Units**
Chamber Orchestra
Course Advisories: SCC minimum English standard; play an orchestral instrument. An instrumental ensemble class analyzing and performing large quantities of chamber orchestra music. This class requires public performance. Repeatable 3 times. *One hour lecture, two hours lab and one hour weekly by arrangement.*
- MUSC 018** **2 Units**
Beginning Steel Drum Band
Course Advisories: SCC minimum English and math standards. An ensemble class with emphasis on music from the Caribbean. Regular rehearsal and performances using steel drums. This class also presents a comparison of Caribbean musical performance styles. Repeatable 3 times. *One hour lecture, two hours lab and one hour weekly by arrangement.*
- MUSC 019** **2 Units**
Instrumental Ensemble
Course Advisory: Ability to read music and play an instrument. The study and performance of representative music literature for strings, woodwinds, brass and small mixed group ensembles. Includes improvisation, reading, ensemble practice and outside performance when possible. Repeatable 3 times. *Two hours lecture, one hour lab.*
- MUSC 020** **2 Units**
Choir (F/S—Night)
Study and performance of a variety of a cappella and accompanied choral literature. Attendance at public performances required. Repeatable 3 times. *One hour lecture, two hours lab and one hour weekly by arrangement.*
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MUSC 021 Chorus Designed to train students to sight sing, note read, use proper voice production and perform a variety of standard choral literature. Highly recommended for theory students and those interested in choral singing. Repeatable 3 times. <i>One hour lecture, two hours lab and one hour weekly by arrangement.</i>	2 Units	MUSC 027 Elementary Piano, Part I <i>Course Advisories: SCC minimum English and Math standards.</i> An introduction to beginning piano techniques, including hand position, posture, fingering, technical exercises, note reading, sight reading, and performance of piano literature. Numerous examples are assigned to demonstrate the essentials of reading and counting skills, coupled with the presentation of major and minor scales, chords, and other fundamentals of piano playing. <i>One hour lecture, one hour activity.</i>	1.5 Units
MUSC 022 Musical Theater (F/S-Night) <i>Prerequisite: Audition for actors only, no auditions for crew and other staff.</i> The study, rehearsal, and public performance of musical works for the stage including operas, operettas, and musicals. Students participate as vocalists, musicians, dancers, and accompanists. Variable units: 48 hours of participation equals one unit of credit. This is an open entry/open exit class. May be repeated to a maximum of 12 units, including initial enrollment. <i>One hours lecture, up to three hours lab, and up to five hours weekly by arrangement.</i>	1-3 Units	MUSC 028 Elementary Piano, Part II <i>Prerequisite: Music 027. Course Advisories: SCC minimum English and Math standards.</i> A continuation of Music 27, this course expands the elementary piano techniques by exploring a progressive series of pieces and exercises which develop the reading skills and other concepts used in performance practice. Stresses use of all major and minor scales, arpeggios in exercise form, sight reading, chromatic fingering, and performance. <i>One hour lecture, one hour activity.</i>	1.5 Units
MUSC 023 Handbell Ensemble <i>Course Advisories: SCC minimum English and Math standards.</i> Presents the study and performance of music for handbells. Music reading skills, techniques of handbell ringing, and musicianship skills are taught through lecture, rehearsal and performance of various styles of music arranged for handbells. Previous musical experience is helpful but not required. Public performance is required. Repeatable 3 times. <i>One hour lecture, two hours lab, and one hour weekly by arrangement.</i>	2 Units	MUSC 029 Intermediate Piano, Part I <i>Prerequisite: Music 208. Course Advisories: SCC minimum English and Math standards.</i> Presents the intermediate level of piano technique and literature. Emphasis is on interpretation, fingering, phrasing, technical studies and exercises including performance. Sight reading and continued development through the mastery of progressive pieces enables the pianist to reach a greater overall skill level and confidence during performance. <i>One hour lecture, one hour activity.</i>	1.5 Units
MUSC 024 Master Works Chorale <i>Prerequisite: Audition of music and vocal skills.</i> Study of choral music techniques and performance of 18th and 20th Century masterworks for the large ensemble. Both a cappella and symphonic literature to be studied. Designed for singers with previous choral experience. Public performance is required. Repeatable 3 times. <i>One hour lecture, two hours activity, and one hour weekly by arrangement.</i>	2 Units	MUSC 030 Intermediate Piano, Part II <i>Prerequisite: Music 029. Course Advisories: SCC minimum English and Math standards.</i> Presents more difficult techniques for the intermediate pianist. Emphasizes the culmination of reading skills, motor coordination, knowledge of harmony, exercises and fingering, overall interpretation, dynamics, attention to form, advanced technical problems concerning performance of the literature. Recommended for students seeking a working knowledge in piano, comparable to second year level in the literature. Repeatable 3 times. <i>One hour lecture, one hour activity.</i>	1.5 Units
MUSC 025 Chamber Choir (F/S-Day) The study and performance of choral works for the small ensemble. Performance at public concerts required. Repeatable 3 times. <i>One hour lecture, two hours lab and one hour weekly by arrangement.</i>	2 Units	MUSC 031 Class Lessons in Woodwinds Class instruction in woodwind instruments. Music majors are required to take one unit of instruction in their major instrument for graduation. Four units are recommended for transfer majors. This class requires outside practice. Repeatable 3 times. <i>One hour lecture, one hour activity.</i>	1.5 Units
MUSC 026 Vocal Jazz Ensemble The study and performance of choral works in the vocal jazz idiom, including development of reading and improvisation skills. Vocalists work with a jazz rhythm section and instrumentalists. Repeatable 3 times. <i>One hour lecture, two hours lab and one hour weekly by arrangement.</i>	2 Units		

Music

MUSC 032 Class Lessons in Brass Class instruction in brass instruments. Music majors are required to take one unit of instruction in their major instrument for graduation. Four units are recommended for transfer majors. This class requires outside practice. Repeatable 3 times. <i>One hour lecture, one hour activity.</i>	1.5 Units	MUSC 036B Intermediate Voice II <i>Prerequisite: MUSC 036A or equivalent skills.</i> A continuation of MUSC 036A with emphasis on vocal technique and interpretation. Solo repertoire appropriate to intermediate level includes standard voice literature. Analysis of individual vocal problems and performance skills is included. Repeatable 3 times. <i>One hour lecture, one hour activity.</i>	1.5 Units
MUSC 033 Class Lessons in Strings Class instruction in string. Transfer students are required to study four semesters in their major instrument. Repeatable 3 times. <i>Two hours lab.</i>	1 Unit	MUSC 037 Elementary Organ <i>Prerequisite: Must be able to read music. Course Advisory: Music 027 recommended.</i> Class instruction in the fundamentals and techniques of organ playing including liturgical, popular, and combo music. Repeatable 3 times. <i>One hour lecture, one hour activity.</i>	1.5 Units
MUSC 034 Class Lessons in Percussion Class instruction in percussion instruments. Music majors are required to take one unit of instruction in their major instrument. Transfer majors are required to study four semesters in their major instrument. This class requires outside practice. Repeatable 3 times. <i>One hour lecture, one hour activity.</i>	1.5 Units	MUSC 038 Class Lessons in Beginning Guitar Presents the principles and techniques of fundamental guitar performance. The course stresses first position techniques, notereading, scales, fingerboard knowledge, chord positions, picking and strum techniques, and performance of selected musical literature appropriate to the beginning level. Repeatable 3 times. NOTE: Combined enrollments in Music 038, 039 and 062 may not exceed 4 units. <i>One hour lecture, one hour activity.</i>	1.5 Units
MUSC 035A Beginning Voice I <i>Course Advisory: SCC minimum English standard.</i> Group work on the fundamental techniques of singing, including literature of the musical theater. Includes analysis of individual problems and the opportunity for solo performance. Transfer voice majors should study voice each semester. <i>One hour lecture, one hour activity.</i>	1.5 Units	MUSC 039 Class Lessons in Intermediate Guitar <i>Prerequisite: Music 038 or equivalent as assessed by instructor and ability to read simple guitar music.</i> Presents the intermediate instruction level in guitar performance techniques and musical skill. The course covers 3rd and 5th positions, solo performance, musical notation exercise and application, musical interpretation and style, and intermediate literature. Repeatable 3 times. NOTE: Combined enrollments in Music 038, 039 and 062 may not exceed 4 units. <i>One hour lecture, one hour activity.</i>	1.5 Units
MUSC 035B Beginning Voice II <i>Prerequisite: Music 035A or equivalent.</i> A continuation of Music 035A. Group work on the fundamental techniques of singing, including study of standard vocal literature for solo performance, with increased emphasis in developing performance skills. <i>One hour lecture, one hour activity.</i>	1.5 Units	MUSC 041A Music Majors Piano <i>Course Advisories: Note reading and SCC minimum English and math standards.</i> Instruction, practice and application of the techniques of piano performance. Emphasis will be placed on a variety of keyboard skills including harmonic progressions, scales, fingerings, drills and exercises, sight reading, and keyboard ear-training. The course will also present musical analysis, performance strategies, suggested rehearsal techniques, independent coordination, and memorization. The class is specially designed to accompany the music major and, therefore, is very specific in harmonic understanding, theory, melodic development and usage, and piano practice. <i>One hour lecture, one hour activity.</i>	1.5 Units
MUSC 036A Intermediate Voice I <i>Prerequisite: Music 035B or evidence of equivalent skills.</i> A continuation of Music 035B with emphasis on the development of vocal technique and interpretation. Repertoire includes classical compositions from the English, Italian, and German languages. Analysis of individual vocal problems and performance skills is included. <i>One hour lecture, one hour activity.</i>	1.5 Units		

MUSC 041B**1.5 Units****Music Majors Piano**

Prerequisite: Music 041A. *Course Advisory:* SCC minimum English standard. Instruction, practice and application of the techniques of piano performance at the intermediate level designed for music majors. Emphasis will be placed on continuation of keyboard skills including simple and complex modulation, harmonic progressions using seventh chords and larger sonorities, all major and minor scales plus other forms, exercises and drills, sight reading, rehearsal techniques, accompanying skills, arrangement and advanced ear-training. The class specifically relates to advanced theoretical concepts realized at the keyboard with a continued attention to performance and the use of the piano as a teaching tool. *One hour lecture, one hour activity.*

MUSC 042A**1.5 Units****Jazz and Pop Piano**

Prerequisite: Music 027, 028, or equivalent as determined by instructor. Instruction, practice, performance, and application of the techniques of Jazz and Pop piano performance. Emphasis will be placed on establishing the foundations for an improvised approach as well as a review of available literature. The course will focus on the concepts of jazz and popular styles involving the realization of lead sheets, chord voicing, applied scale theory, rhythmic structure, arrangement techniques, improvisation, and accuracy in the development of all styles considered. *One hour lecture, one hour activity.*

MUSC 042B**1.5 Units****Jazz and Pop Piano**

Prerequisite: Music 027, 028, or equivalent as determined by instructor. *Course Advisory:* Music 042A. Instruction, practice, performance, and application of the techniques and principles of intermediate jazz and popular piano styles and skills. Emphasis will be directed to continuing the presentation made in 042A. Focus will be centered around arranging, improvisations, voicings, dialogue, hand formats, performance of literature, written projects and a further introduction to styles. The realization of lead sheets, sight reading, ear training, transcriptions of solos, fingerings, scale theory, exercises, and performance strategies will all be discussed. *One hour lecture, one hour activity.*

MUSC 046**1 Unit****Instrumental Conducting**

Prerequisite: Ability to read music. Instrumental conducting theory and techniques including a study of standard literature for band and orchestra. Written and practical tests required. *Two hours lecture (9 week course).*

MUSC 047**1 Unit****Choral Conducting**

Prerequisite: Ability to read music. Choral conducting theory and techniques, including a study of standard literature for choir and chamber choir. Written and practical tests required. *Two hours lecture (9 week course).*

MUSC 049**1-3 Units****Music Honors**

Prerequisites: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a grade of "B" or better; an ability to work independently; permission of the Division Dean based on instructor availability. *Course Advisory:* SCC minimum English standard. An independent study course in a selected musical area for sophomore students. The student works by arrangement with the instructor on an outlined program of study. A contract between student and instructor which details the specific area of interest including goals and schedule for project completion is required. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement.*

MUSC 051**1.5 Units****Jazz and Popular Solo Voice**

Course Advisories: SCC minimum English standard; Music 35A or other solo voice experience. The study and performance of songs in the popular and jazz idiom. Areas covered will include musical phrasing, emotional expression, popular vocal styling, stage presence and the use of sound reinforcement systems. Repeatable 3 times. *One hour lecture, one hour activity.*

MUSC 052**2 Units****Sound Recording**

Course Advisory: SCC minimum English standard. Designed for musical performers and students interested in recording specifically. Development of recorded performances in the studio environment. Emphasis on acoustics, vocal and instrumental recording requirements, control board management, microphone techniques, organization and supervision of the recording session, mixing and mixdown. Particular attention is given to the "hands-on" experience in recording engineering and the overall recording process, including production, musical arrangement, mixdown, and studio demeanor. Repeatable 3 times. *One hour lecture, three hours lab.*

MUSC 053**2 Units****Advanced Sound Recording**

Prerequisite: Music 052. *Course Advisories:* SCC minimum English and math standards. Advanced recording techniques with particular attention given to hands-on techniques. *One hour lecture, three hours lab.*

Music

MUSC 055

3 Units

Introduction to Jazz Improvisation

Course Advisory: Knowledge of music fundamentals and basic instrumental skills. Techniques and literature of improvisation including application of scales, modes, harmonic progressions, solo shape, form, and dynamic, rhythmic, and melodic development and interpretation of concepts and materials in the jazz style. Provides development and understanding of these techniques in the occupational areas of music through the concepts and performance of improvisation. *Two hours lecture, one hour activity, one hour weekly by arrangement.*

MUSC 056

2 Units

Jazz Improvisation Ensemble

Course Advisory: Music 055. Presents the principles and techniques of improvisational materials, combo performance, individual solo skills, advanced playing concepts, group dynamics, and increased performance ability. The class will perform a wide variety of arrangements and the overall performance standards are directed to feature individual soloists. Provides the occupational musician with an opportunity to develop confidence and advanced skills from performance in this ensemble. Repeatable 3 times. *Two hours lecture, one hour activity, one hour weekly by arrangement.*

MUSC 060

.5 -3 Units

Computer Assisted Music Lab

Course Advisory: Music 027A. A self-paced course which introduces or further develops musicianship skills through computer-assisted instruction. The course is designed to enhance theory, performance and history study and may be taken to develop skills in specialized areas of composition, conducting, orchestration and arranging, and improvisation. This is an open entry/open exit course. Repeatable 3 times. *One hour lecture and up to five hours weekly by arrangement.*

MUSC 061

2 Units

MIDI-Computer Music Sequencing and Scoring

Course Advisories: SCC minimum English and math standards; MUSC 027A. Introduction to Musical Instrument Digital Interface (MIDI) and the hardware and software components of music sequencing and scoring. Includes "hands-on" familiarization with Macintosh computer, practical use of sequencing and scoring software, and an understanding of MIDI terminology. May be repeated to a maximum of 6 units, including initial enrollment. *One hour lecture, two hours activity.*

MUSC 062

1.5 Units

Introduction to Electric Guitar

Presents the fundamental principles of electric guitar performance techniques. Guitarists are introduced to combo situations, notereading, chord symbols, finger board knowledge, chord in versions, accompaniment styles, "head" arrangements and ensemble experience. Rhythm and solo techniques are also investigated. Repeatable 3 times. NOTE: Combined enrollments in Music 038, 039 and 062 may not exceed 4. *One hour lecture, one hour activity.*

MUSC 063

1.5 Units

Introduction to Electric Bass

Presents the principles of electric bass performance techniques. The course emphasizes reading notational symbols in bass clef, chord symbol performance, finger board knowledge, scales, patterns, chord construction harmonic motion and function, and basic accompaniment styles. Familiarizes students with conceptual approach to modern musical styles. *One hour lecture, one hour activity.*

MUSC 064

.5, 1, 1.5 or 2 Units

Marching Band

Course Advisories: SCC minimum English standard; p lay a band instrument. An instrumental performing ensemble using marching band repertoire. Repeatable 3 times. *One to six hours activity.*

Special Topics

These courses, numbered 048, 098, or 148 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Description

OCED 90 and 91 are work experience courses available to all occupational education certificate and degree program students. These courses are designed to combine academic studies with practical, on the job experience, enabling students to apply theories learned in the classrooms to real work situations while earning college credits.

Through an agreement formulated at the beginning of the semester, each student establishes specific "Measurable Learning Objectives" to be accomplished by the end of the grading period. This cooperative agreement may be in the private sector or in public agencies and may be paid or volunteer.

OCED 090 Occupation Work Experience

Corequisite: Student must be enrolled in 7 units (including Occupational Work Experience). Student must be available to work from 5 to 40 hours per week for a licensed business for a total of 75 hours per unit for paid work and 60 hours per unit for unpaid work. Duties must relate to student's major field.

Course Advisories: SCC minimum English and math standards.

To qualify for Occupational Work Experience credit, the student must be available to work from 5 to 40 hours per week for a licensed business in a job directly related to the declared major. Student will attend a weekly coordination seminar, develop job-oriented objectives and remain currently enrolled in at least 7 units including Occupational Work Experience. Includes all occupational education certificate and degree programs. Qualified students who are not working may seek placement assistance from the Student Placement Office. 1 unit of credit may be earned for each 75 hours paid or 60 hours unpaid work per semester to a maximum of 8 units per semester. Students enrolled in OCED 090 may not enroll in OCED 091 during the same semester. Repeatable to a maximum of 16 units. Combined units in all work experience courses shall not exceed 16. Note: CSU will accept up to 12 units for transfer. To determine the correct course length and number of units in which to enroll, refer to the following formula for paid employment*

Full Semester Sections

1 unit =	5 hours per week
2 units =	10 hours per week
3 units =	15 hours per week
4 units =	20 hours per week
5 units =	25 hours per week
6 units =	30 hours per week
7 units =	35 hours per week
8 units =	40 hours per week

12-Week Sections

1 unit =	7 hours per week
2 units =	14 hours per week
3 units =	19 hours per week
4 units =	25 hours per week
5 units =	32 hours per week
6 units =	38 hours per week

8-Week Sections

1 unit =	10 hours per week
2 units =	19 hours per week
3 units =	28 hours per week
4 units =	38 hours per week

*unpaid work requires fewer hours per week

OCED 091 General Work Experience

Corequisite: Student must be enrolled in 7 units (including Work Experience). Student must be available to work from 5-30 hours or more per week for a licensed business for a semester total of 75 hours per unit for paid work and 60 hours per unit for unpaid work. Job does not need to be related to major. Course Advisories: SCC minimum English and math standards. To qualify for General Work Experience credit, the student must be available to work from 5 to 30 hours per week at a job with a licensed business. Student will attend a weekly coordination seminar, develop job-oriented objectives and remain currently enrolled in at least seven units, including General Work Experience. Includes all occupational education certificate and degree programs. Qualified students who are not working may seek placement assistance from the Student Placement Office. 1 unit of credit may be earned for each 75 hours paid or 60 hours unpaid work per semester to a maximum of 6 units per semester. Students enrolled in

Occupational Education

OCED 091 may not enroll in OCED 090 during the same semester. Repeatable to a maximum of 6 units. Combined units in all work experience courses shall not exceed 16. Note* CSU will accept up to 12 units for transfer. To determine the correct course length and number of units in which to enroll, refer to the following formula for paid employment*:

Full Semester Sections

1 unit = 5 hours per week
2 units = 10 hours per week
3 units = 15 hours per week
4 units = 20 hours per week
5 units = 25 hours per week
6 units = 30 hours per week

12-Week Sections

1 unit = 7 hours per week
2 units = 14 hours per week
3 units = 19 hours per week
4 units = 25 hours per week

8-Week Sections

1 unit = 10 hours per week
2 units = 19 hours per week
3 units = 28 hours per week

*unpaid work requires fewer hours per week

Program Description

Students may select from four programs in Office Technology: Administrative Assistant, Legal Specialist, Medical Office Specialist, Medical Transcription Specialist. These programs are designed to develop a management support person with technical and communication skills. Time-management and problem-solving abilities are emphasized along with a “team member” approach for a career in today’s business environment.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement in Administrative Assistant, Legal Specialist, Medical Office Specialist or Medical Transcription Specialist can be obtained upon completion of the courses in the selected major. The Associate in Science Degree in Business-Office Technology can be obtained upon completion of 60 units, including the required courses in the selected major, the general education requirements, and electives.

Required Courses

Administrative Assistant

(Recommended sequence)

	Units
CIS 066—Microsoft Word	3
OT 055—Interm. Keyboarding/Word Processing	3
CIS 001—Introduction to Computers	
OR	
CIS 050—Microcomputer Applications	3
BUS 092—Business Communication	3
CIS 073—Microsoft Excel	3
OT 159—Filing and Records Mgmt (spring)	2
OT 151—Office Systems/Procedures (spring)	3
OCED 090—Occupation Work Experience	1
CIS 091—Microsoft Outlook	1.5
CIS 090—Introduction to PowerPoint	1.5

Recommended Electives:

ACCT 180
 CIS 055, 061, 078, 093
 MGMT 055
 OCED 090, 091
 OT 057, 131, 160

	Units
OT 056—Adv. Keyboarding/Word Processing	3
OT 162—Ten Key	1
Electives selected from the list of Recommended Electives	<u>3.5</u>
	31.5

Office Technology

Legal Specialist

(Recommended sequence)

	Units		Units
OT 055—Interm. Keyboarding/ Word Processing	3	OT 159—Filing & Records Management	2
OT 057—Legal Keyboarding/ Word Processing	3	OT 151—Office Systems/Procedures (spring)	3
CIS 063—WordPerfect		OCED 090—Occupational Work Experience	1
OR		CIS 091-Microsoft Outlook	<u>1.5</u>
CIS 066—Microsoft Word	3		31.5
BUS 092—Business Communication	3	Recommended Electives:	
BUS 018—Legal Environment of Business	3	ACCT 180	
OT 131—Legal Machine Transcription	3	CIS 073, 078	
CJ 001—Introduction to Criminal Justice	3		
OT 056—Advanced Keyboarding/Word Process	3		

Medical Office Specialist

(Recommended sequence)

	Units	
NURSE 111—Medical Terminology	3	ACCT 180
OT 059—Medical Keyboarding/Computer Appl.	3	CIS 001 or 050, 073, 078, 090, 091
CIS 066—Microsoft Word	3	MGMT 055
OT 101—Human Diseases	3	OCED 090
BUS 092—Business Communication	3	OT 056, 121
OT 159—Filing & Records Management	2	
OT 063—Intro. to ICD-9-CM Coding*	3	* International Classification of Diseases, 9th Clinical Modification
OT 064—Interm. ICD-9-CM Coding	3	** Current Procedural Terminology
OT 066—CPT-IV Coding**	3	
OT 151—Office Systems/Procedures (spring)	3	
OCED 090—Occupational Work Experience	1	
OT 055-Intermediate Keyboarding/Word Processing	<u>3</u>	
	33	

Recommended Electives:

Medical Transcription Specialist

(Recommended sequence)

	Units		Units
CIS 066—Microsoft Word	3	OT 160—Business Transcription	3
OT 055—Interm. Keyboarding/ Word Processing	3	Electives selected from the list of Recommended Electives	<u>3</u>
NURSE 111—Medical Terminology	3		33
OT 059—Medical Keyboarding & Computer Apps	3	Recommended Electives:	
OT 101—Human Diseases	3	OT 056, 063, 064, 066, 100	
OT 121 to 124—Med. Machine Trans. I, II, III, IV	12	OCED 090	

Job-Direct Certificate Requirements

For each of the following programs, the required courses must be completed with a grade of "C" or better.

General Office Assistant

Required Courses	Units
OT 054—Beginning Keyboarding	3
BUS 100—Work Readiness	1.5
CIS 066—Microsoft Word	3
CIS 091—Microsoft Outlook	1.5
CIS 090—Introduction to PowerPoint	1.5
CIS 073 —Microsoft Excel	3
OT 162—Ten Key	<u>1</u>
	14.5

Legal Office Assistant

Required Courses	Units
OT 055—Interm. Keyboarding/WP	3
BUS 100—Work Readiness	1.5
CIS 063—WordPerfect OR CIS 066—MS Word	3
OT 057—Legal Keybding/Word Processing	3
OT 131—Legal Machine Transcription	3
OT 162—Ten Key	<u>1</u>
	14.5

Medical Front Office Clerk

Required Courses	Units
Semester 1	
CIS 106—Fast Track Computer Literacy	1
CIS 102—Fast Track Microsoft Word	.5
OT 055—Interm. Keyboarding/Word Processing	1
NURSE 111—Medical Terminology	3
OT 159—Filing and Records Management	<u>2</u>
	7.5
Semester 2	
OT 101—Study of Human Diseases for Medical Assist.	3
OT 056—Adv. Keyboarding/Word Processing	2
OT 059—Medical Keyboarding /Computer Applic.	3
BUS 100—Work Readiness	<u>1.5</u>
	9.5
Certificate Total:	17 Units

*Classes should be taken in the sequence listed above.

Retail Clerk

Required Courses	Units
MKT 174—Retail Merchandising	3
BUS 181—Business Math	1
ENGL 310—Writing Skills Lab	1.5
ENGL 320—Reading Improvement Lab	1.5
BUS 100—Work Readiness	1.5
OT 162—Ten Key	<u>1</u>
	9.5

OT 054

1-3 Units

Beginning Keyboarding

Course Advisory: SCC minimum English standard. An individualized beginning keyboarding course taught on the microcomputer. Touch typing is developed on the alphabet, punctuation, symbols, and top row number keys. Speed will be built to a minimum of 30 words per minute. Units of study include production of documents such as correspondence, memos, reports, and tables in standard formats. This is an open entry/open exit course. May be repeated to a maximum of 3 units, including initial enrollment. Three hours lecture, two hours lab.

OT 055

1-3 Units

Intermediate Keyboarding/Word Processing

Prerequisites: Completion of all modules of OT 054 or passing the OT 055 placement test; concurrent enrollment or successful completion of CIS 063 or CIS 066. Course Advisory: SCC minimum English standard. Individualized keyboarding course using a microcomputer with units of study including skill building, correspondence, reports, compositions, tables, special projects, and business forms. Speed will be built to a minimum of 40 words per minute. Students may enroll throughout the semester as space is available. This is an open entry/open exit course. May be repeated to a maximum of 3 units, including initial enrollment. Three hours lecture, two hours lab.

Office Technology

OT 056

1-3 Units

Advanced Keyboarding/Word Processing

Prerequisites: Completion of all modules of OT 055 with a grade of "C" or "CR" or better or pass placement test. *Course Advisories:* SCC minimum English and math standards. This advanced, individualized applications course is designed to prepare students for professional work in an office with a heavy emphasis on word processing skills and business document formatting in the third unit. Speed will be built to a minimum of 50 words per minute. Students may enroll throughout the semester as space is available but must take units in sequential order. This is an open entry/open exit course. May be repeated to a maximum of 3 units, including initial enrollment. *Three hours lecture, two hours lab.*

OT 057

3 Units

Legal Keyboarding/Word Processing

Prerequisites: Completion of all modules of OT 055 with a grade of "C" or "CR" or better and ability to keyboard at 50 wpm. *Course Advisory:* SCC minimum English standard. Concentrated study of legal terminology combined with practice in the constructions of legal documents and skill development in keyboarding legal forms necessary for optimal performance in the legal office. Units of study include: civil litigation, family law, and partnerships and corporations. *Three hours lecture, two hours lab.*

OT 059

3 Units

Medical Keyboarding and Computer Applications

Prerequisites: Completion of all modules of OT 054 with a grade of "C" or "CR" or better or passing the OT 059 placement test; and Nursing 111 (or concurrent enrollment). *Course Advisory:* SCC minimum English standard. A medical document processing course. Students will process documents in various medical specialty units including: head and neck, cardiovascular medicine, plastic surgery, allergy/immunology, urology, surgery, oncology, dermatology, and internal medicine. Students will build keyboarding speed and accuracy. *Three hours lecture, two hours lab.*

OT 063

3 Units

Introduction to ICD-9-CM Coding

Prerequisites: OT 101; NURSE 111. *Course Advisory:* SCC minimum English standard. Introductory course in the basic principles of coding disease and procedures using the *International Classification of Disease, 9th Edition Clinical Modification (ICD-9-CM)* and *ICD-9-CM coding handbook* for entry-level coders. Current ICD-9-CM books only will be utilized in this course. The impact of coding on reimbursement will be discussed. *Three hours lecture.*

OT 064

3 Units

Intermediate ICD-9-CM Coding

Prerequisites: OT 063 (or successful completion of a challenge test). *Course Advisory:* SCC minimum English standard. This course will build on the previous knowledge gained in OT 063 and address more complex issues related to ICD-9-CM Coding. Class lectures and practical applications will focus on using actual medical records and applying higher level coding skills. The Prospective Payment System and Diagnosis Related Groups (DRGs) will be introduced. *Three hours lecture.*

OT 066

3 Units

CPT-IV Coding

Prerequisites: NURSE 111, OT 101. *Course Advisories:* SCC minimum English and math standards. Course that covers the principles and mechanics of coding professional services rendered using the *Current Procedural Terminology (CPT-IV)* coding system and its relationship to the Health Care Financing Administration Common Procedure (HCPCS) Coding System. *Three hours lecture.*

OT 100

1 Unit

Skill Building on the Computer Keyboard

Course Advisories: Ability to touch type at 20 wpm; SCC minimum English and math standards. Individualized skill building keyboarding course taught on the microcomputer. Speed and accuracy skills are enhanced on the alphabet, punctuation, and numbers. The unit of study includes identifying the specific needs of the individual and then assigning diagnostic drills, skill-development practice and pre-and post-testing. The skill building goal will be to increase typing speed or straight copy 3 to 5-minute timed writings between 5 to 10 words per minute above the starting rate with an accuracy level of not more than one error per minute. This is an open entry/open exit course. *One hour lecture, one half hour lab.*

OT 101

3 Units

Study of Human Diseases for Medical Assistants

Course Advisory: SCC minimum English standard. Study of the pathological process, imparting basic knowledge to paramedical personnel. The student will study the basic concepts, terminology, etiology and characteristics of pathological processes. Diseases are classified according to both causative agents and the body system to which they relate. *Three hours lecture.*

OT 109 Fast Track Records Control/Filing <i>Course Advisories: SCC minimum English and math standards. Introduction to the process of grouping, organizing and storing business records using ARMA (American Records Management Association) rules for document filing. This is a credit/not credit only course. Eight hours lecture (1 week course).</i>	.5 Units	OT 131 Legal Transcription <i>Prerequisite: OT 055 or OT 056 or a keyboarding speed of 40 wpm (to be verified by placement test) and CIS 063 or CIS 066 with a grade of "C" or better. Course Advisory: SCC minimum English standard. Concentrated course designed to familiarize the student with terminology, background, and knowledge of procedures necessary for work in a law office. The legal system is studied through the court structure, legal documents, and the specialty areas including family law, wills and probate, corporations, real estate, bankruptcy, and criminal law. Proficiency in transcribing from machine dictation is emphasized along with the integration of technical skills. Three hours lecture, two hours lab.</i>	3 Units
OT 121 Medical Transcription I <i>Prerequisite: Successful completion of OT 055 or OT 056 or a keyboarding speed of 40 wpm (to be verified by placement test) with microcomputer word processing skills; NURSE 111 (or concurrent enrollment) or successful completion of a medical terminology exam. Course Advisory: SCC minimum English standard. Provides practice on recorded material stressing terminology from medical reports covering emergency services admission reports, history and physicals, radiology, operations, pathology, discharge summary, outpatient medical reports, death summary and autopsy using a microcomputer and word processing software. Three hours lecture, two hours lab.</i>	3 Units	OT 151 Office Systems & Procedures <i>Prerequisites: Typing rate of 50 words per minute and microcomputer word processing skills. Corequisite: One unit of OCED 090. Course Advisories: SCC minimum English and math standards. An advanced level course designed to complete the training of Office Technology program students in office systems and procedures. Course should be taken during the student's final semester of the program or as a refresher for experienced business students. One unit of work experience will be required in the specialty area of the student's major. Three hours lecture.</i>	3 Units
OT 122 Medical Transcription II <i>Prerequisite: OT 121. Vocabulary building and transcription of medical records in specialty areas of cardiology, endocrinology, gastroenterology, gynecology, internal medicine, and oncology. Three hours lecture, two hours lab.</i>	3 Units	OT 159 Filing and Records Management <i>Course Advisory: SCC minimum English standard. Designed to introduce the systems approach of records management using both manual and automated equipment. Topics covered include creation, storage (alphabetic, numeric, geographic, and subject methods), protection, evaluation, control, use, and disposition of the records. Two hours lecture.</i>	2 Units
OT 123 Medical Transcription III <i>Prerequisites: OT 122. Course Advisory: SCC minimum English standard. Vocabulary building and transcription of medical reports in specialty areas of radiology, psychiatry, neurology and neurosurgery, emergency medicine, laboratory medicine, and general surgery. Three hours lecture, two hours lab.</i>	3 Units	OT 160 Business Transcription <i>Prerequisites: OT 055 or OT 056 or a keyboarding speed of 40 wpm (to be verified by placement test) and CIS 063 or CIS 066 with a grade of "C" or better. Course Advisory: SCC minimum English standard. Emphasizes proficiency in transcribing from machine dictation. Develops the coordination of keyboarding, business English, and proofreading skills while transcribing documents from a variety of businesses. Three hours lecture, two hours lab.</i>	3 Units
OT 124 Medical Transcription IV <i>Prerequisites: OT 123. Course Advisory: SCC minimum English standard. Vocabulary building and transcription of medical reports in specialty areas of orthopedics, pediatrics, respiratory and pulmonary medicine, immunology and AIDS, plastic surgery, and urology. Three hours lecture, two hours lab.</i>	3 Units	OT 162 Ten Key <i>Course Advisories: SCC minimum English and math standards. Individualized course offering the fundamentals of operating the ten-key microcomputer number keypad. The touch system of operation and continuous speed and accuracy development are emphasized throughout the course. This is an open entry/open exit course. One hour lecture, one-half hour lab.</i>	1 Unit

Ornamental Horticulture

Career Technical Education Division

Program Description

This program is designed to provide theory and practical experience needed to enter the horticulture field or prepare for advancement or certification. It also offers some of the basic courses required of horticulture majors transferring to four-year institutions. This program offers certificates and degrees in six Ornamental Horticulture areas.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion the major listed below. The Associate in Science Degree can be obtained by completing a total of 60 units, including the required courses in the major, the general education requirements, and electives.

Horticulture Science

Required Courses

	Units
HORT 006—ID & Ecology of Landscape Plant Materials	4
HORT 030—Landscape Design I	3
HORT 050—Intro. to Ornamental Horticulture	3
HORT 055—Soils & Fertilizers	3
HORT 056—Plant Pest Control & Mgmt.	4
HORT 067—Landscape Equip. Operation Planning	3
HORT 071—Irrigation Principles	3
	23

Job-Direct Certificate Requirements

For each of the following programs, the required courses must be completed with a grade of "C" or better.

Landscape Worker

	Units
HORT 006—Identification and Ecology of Landscape Plant Materials	4
HORT 050—Intro. to Ornamental Horticulture	3
HORT 071—Irrigation Principles	3
	10

*Students will be required to complete 80 hours of cooperative supervised work experience to receive credit.

Ornamental Horticulture

- HORT 006** **4 Units**
Identification and Ecology of Landscape Plant Materials
Course Advisories: HORT 050 recommended and SCC minimum English and math standards. Study of the identification, growth habits, cultural requirements, and evaluation of landscape plant materials used for ornamental purposes in Western landscapes. Laboratory experience will emphasize the identification and use of the plant materials in various landscape settings. A collection will be required. Repeatable 1 time. *Three hours lecture, three hours lab.*
- HORT 030** **3 Units**
Landscape Design I
Prerequisites: HORT 006. Course Advisories: HORT 050; SCC minimum English and math standards. Introduction to the skills and techniques of landscape design principles and practices. Laboratories will stress drafting techniques through design projects. Field trips required. *Two hours lecture, three hours lab.*
- HORT 031** **3 Units**
Landscape Design II
Prerequisites: HORT 030. Course Advisories: HORT 050; SCC minimum English and math standards. Presents the association of plant materials according to design principles and their environmental requirements with attention to groupings, arrangements and planting about buildings and other landscape structures. Landscape drafting will be stressed in the laboratory projects culminating in a term design project. Mandatory field trips. *Two hours lecture, three hours lab.*
- HORT 050** **3 Units**
Introduction to Ornamental Horticulture
Course Advisories: SCC minimum English and math standards. Introduction and preview of the nursery, florist, and landscaping industries including elemental landscape design, flower arranging, plant identification, plant propagation, landscape tools, turf care, pest control, soil testing and basic botany. Laboratory experience will develop beginning techniques in propagation, soil testing, and turf and shrub maintenance. Mandatory field trips will be taken to various phases of the industry. *Two hours lecture, three hours lab.*
- HORT 055** **3 Units**
Soil and Fertilizers
Course Advisories: SCC minimum English and math standards. Study of the relationships of soils and fertilizers to proper plant growth and emphasizes analysis of soils and fertilizers. Field laboratories will develop management techniques in testing and application through exercises and field trip observations. *Two hours lecture, three hours lab.*
- HORT 056** **4 Units**
Landscape Pest Control and Management
Course Advisories: SCC minimum English and math standards. Study of horticultural pests, insects, weeds, diseases and other non-pathogenic causes common to the Solano County area emphasizing identification, cultural, rotational, natural and chemical control methods. Mandatory field trips and laboratory experiences will provide experiences in detection, identification and techniques necessary to manage and control various species of plant pests. A collection is required. Repeatable 1 time. *Three hours lecture, three hours lab.*
- HORT 060** **3 Units**
Commercial Nursery Practices
Course Advisories: SCC minimum English and math standards; HORT 050. Presents commercial nursery operations, layout and cultural practices emphasizing environmental control for ornamental plants from seeds or cuttings to retail sale. Laboratory experience will develop the student's ability and techniques through exercises, field trip observations and a term project. *Two hours lecture, three hours lab.*
- HORT 061** **3 Units**
Plant Propagation
Prerequisite: HORT 060. Course Advisories: SCC minimum English and math standards; HORT 050. Presents the methods of plant propagation by budding, grafting, layering, separations, cuttings and seeds used commercially for industry applications. Laboratory experience will incorporate the performance of propagation skills and techniques. A field trip to a commercial production nursery and a term project will be required. *Two hours lecture, three hours lab.*
- HORT 062** **3 Units**
Greenhouse Crops
Prerequisite: HORT 060 or 061. Course Advisories: SCC minimum English and math standards; HORT 050. Study of the operations and practices in greenhouse plant production with emphasis on cut flowers, bedding plants, potted plants and vegetables grown for market. Laboratory experience will emphasize plant growth and care within the greenhouse structures through student projects, term reports and mandatory field trips. Repeatable 1 time. *Two hours lecture, three hours lab.*
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Ornamental Horticulture

HORT 065

3 Units

Pruning Principles and Practices

Course Advisories: SCC minimum English and math standards; HORT 050. Presents the fundamentals, objectives and effects of pruning landscape annuals, herbaceous and woody perennials, deciduous and evergreen trees and shrubs. Laboratory experience will develop the skills of proper tool use and the training, modifying, improving and maintaining landscape plants through selected activities and mandatory field trip situations. *Two hours lecture, three hours lab.*

HORT 066

3 Units

Landscape Installation and Maintenance

Course Advisories: SCC minimum English and math standards; HORT 050. Introduction to the skills and techniques of landscape maintenance practices with emphasis on care and maintenance of trees, shrubs, ground covers, and lawns. Field laboratories will develop the appropriate skills in cultural practices and handtool operation. Field trips are required. *Two hours lecture, three hours lab.*

HORT 067

3 Units

Landscape Equipment Operation and Planning

Prerequisite: HORT 066. Course Advisories: SCC minimum English and math standards. A study of the maintenance of commercial landscaped areas with special emphasis on developing skills in power equipment operation and maintenance, scheduling, estimating and bidding relative to the care and maintenance of ornamental landscaped areas. Field laboratories will develop the appropriate techniques in equipment operation and exercises in bidding and estimation. Term project required. *Two hours lecture, three hours lab.*

HORT 070

3 Units

Landscape Construction and Estimation

Course Advisories: SCC minimum English and math standards; HORT 050. Study of the construction of patios, decks, walks, retaining walls, raised planters, mowstrips, fences, overhead structures, masonry work, sprinkler layout and other landscape features with emphasis on building code specifications. Previews contractor's licensing. Site development and construction skills will be developed during the laboratory. *Two hours lecture, three hours lab.*

HORT0 071

3 Units

Irrigation Principles

Course Advisories: SCC minimum English and math standards; HORT 055. Study of the principles and management of water development and use in agricultural and horticultural production with special emphasis on water supplies, measurement, movement through soils, application methods, amounts needed and problems of distribution. The field laboratories will develop management techniques through exercises and field trip observations. *Two hours lecture, three hours lab.*

HORT 080

3 Units

Commercial Flower Arranging

Course Advisory: SCC minimum English standard. Commercial use and conditioning of flowers and related materials in making flower arrangements and a study of the basic principles of design in relation to the use of flowers, seasonal arrangements, the planting of indoor planters, simple corsage wiring, basic bowmaking and stem wrapping as performed in flower shop operations. Repeatable 1 time. *Two hours lecture, three hours lab.*

HORT 081

3 Units

Commercial Floral Design

Course Advisories: HORT 050 and 080; SCC minimum English standard. Commercial application of advanced floral designs for wedding, receptions, large gatherings, funeral pieces, hospital flowers, and holiday designs; use of dry and silk flowers, care and maintenance of floral pieces and use of specialty containers, mechanics, and pricing will be covered. Field trips will be taken and special lectures given on various phases of the floral industry. Repeatable 1 time. *Two hours lecture, three hours lab.*

HORT 082

3 Units

Commercial Florist Operations Planning

Course Advisories: HORT 080 and HORT 050; SCC minimum English standard. Development of commercial skills and techniques in the application of practices of flower shop operations with emphasis on the layout, displays, planning, ordering, handling, processing and scheduling of floral products. Requires student laboratory projects, reports and field trip experience. *Two hours lecture, three hours lab.*

Ornamental Horticulture

HORT 085

3 Units

Turf Maintenance and Management

Course Advisories: SCC minimum English and math standards; HORT 050, 071. Study of the production and maintenance of turf for lawns, public parks, institutions, recreation areas and golf courses with emphasis on turf varieties, uses, irrigation, conditioning and fertilization, pest control, and equipment operation. Laboratory will develop techniques of maintenance, variety identification and skills of application and use through exercises and field trip observations. *Two hours lecture, three hours lab.*

HORT 086

3 Units

Park Management Planning

Prerequisite: HORT 030 and 085. Course Advisories: SCC minimum English and math standards; HORT 050. Study of the design, installation and maintenance of city, county and state parks and recreational maintenance areas with special emphasis on skills development. Field laboratories will develop technician proficiencies and special skills in this area. *Two hours lecture, three hours lab.*

HORT 095

.5 Unit

Pesticide Application and Safety Training

Course Advisory: SCC minimum English standard. Specialized study of the selection, handling, application and safety of using agriculture pesticides with emphasis on rules and regulations to include ornamentals, turf grass, right-of-way, aquatic, forest, agricultural, industrial and institutional pest control. Intensive training provided for pesticide application, operation and certification preparation. This is a credit/no credit course. Repeatable to a maximum of 40 hours (or 4 enrollments) during a two-year period as dictated by the State of California Dept. of Food & Agriculture Pesticide Licensing Division. *Two and one-half hours (4 week course).*

HORT 150

2 Units

Plant Identification

Course Advisory: SCC minimum English standard. Presents methods of identifying landscape plant material with emphasis on cultural habits, requirements and use of ornamental trees, shrubs, vines, ground covers used in this area. Includes landscape tours at off-campus settings. Repeatability 1 time. *Two hours lecture.*

HORT 168

3 Units

LandCAD Design

Prerequisites: HORT 030 and DRAFT 045. Course Advisories: SCC minimum English and math standards. Presentation of landscape design with emphasis on public-use areas including contemporary goals, site plan development, evaluation, job bid estimates using computer assisted drafting develop skills and abilities. A term project is required. Repeatable 1 time. *Two hours lecture, three hours lab.*

HORT 171

1 Unit

Introduction to Landscape Practices

Course Advisories: SCC minimum English and math standards. Provides basic entry level skills in landscape practices as required in the landscape construction and maintenance industry with emphasis on cultural practices related to turf grass, trees, shrubs and groundcovers including planting, watering, mowing, fertilizing, controlling pests and pruning. *One hour lecture, four hours lab (8 week course).*

HORT 172

1 Unit

Introduction to Landscape Equipment

Course Advisories: SCC minimum English and math standards. Provides basic entry level skills as required in the landscape maintenance industry with emphasis on operation, maintenance and safety of mowers, edgers, blowers, sprayers, spreaders, tillers, aerators, and other powered landscape equipment. Students will be required to work out of doors in any type of weather. *One hour lecture, four hours lab (8 week course).*

HORT 190

1 Unit

Vegetable Gardening

Course Advisory: SCC minimum English standard. Designed to provide theoretical background and current concepts in vegetable gardening techniques. Students will be introduced to various soils, planting, watering, fertilization, pest control, preharvest culture and harvest as related to the latest vegetable gardening procedures. Repeatable 1 time. *Two hours lecture (9 week course).*

Special Topics

These courses, numbered 098 or 148 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Philosophy

Humanities Division

Program Description

The philosophy program consists of one comprehensive survey course augmented by special courses in critical thinking, ethics, political philosophy, and religion. All constitute a basic and well-rounded introduction to philosophy. Each course presumes no prior study of philosophy

Associate Degree

Not available in this discipline.

PHIL 001

3 Units

Introduction to Critical Thinking and Reasoning

Course Advisory: ENGL 001 or ENGL 062. Study of logical thinking and reasoning in everyday life. Emphasis is on informal logic in contrast to formal symbolic logic. Special attention is given to "computer literacy" and "educational television." Critical reading and writing is required. The course does not fulfill the IGETC critical thinking requirement. *Three hours lecture.*

PHIL 003

3 Units

Introduction to Philosophy

Course Advisory: ENGL 001 or ENGL 062. General introduction to the central methods and recurring problems in the Western philosophical tradition. Topics of inquiry are theories of knowledge, theories of existence, philosophy of religion, free will and determinism, and the mind-body problem. Critical reading and writing are required. (CAN PHIL 2). *Three hours lecture.*

PHIL 004

3 Units

Introduction to Moral Philosophy

Course Advisory: ENGL 001 or ENGL 062. Introduction to moral philosophy and major ethical theories of the Western philosophical tradition. Critical reading and writing are required. (CAN PHIL 4). *Three hours lecture.*

PHIL 005

3 Units

Critical Thinking: The Philosophic Grounds of Literacy

Prerequisite: Engl 001. Course Advisory: SCC minimum math standard. Designed to educate students in the fundamental principles of sound and cogent thinking and reasoning expressed primarily in argumentative essays. More specifically, the course is a practicum in critical literacy, i.e., the written practice and refinement of fundamental skills and dispositions required in effective argumentation, critical analysis and evaluation, conceptual inquiry, and discursive expression in general. The study of exemplary argumentative writings from a variety of philosophical, social, and political sources is integral. Objective exams and critical essays are required. This course fulfills the IGETC critical thinking requirement. *Three hours lecture.*

PHIL 031

3 Units

Introduction to World Religions of the East

Course Advisory: SCC minimum English standard. Introduction to a comparative study of world religions of the East including Hinduism, Buddhism, Jainism, Sikhism, Confucianism, Daoism and Shinto. Emphasis is on analysis of origin and historical background, founders, beliefs and practices, impact on culture and society, and contemporary issues. *Three hours lecture.*

PHIL 032

3 Units

Introduction to World Religions of the West

Course Advisory: SCC minimum English standard. Introduction to a comparative study of world religions of the West including North American Indian, African, Greek and Roman, Mesopotamian and Zoroastrianism, Judaism, Christianity, and Islam. Emphasis is on historical background, founders, beliefs and practices, impact on culture and society, and contemporary issues. *Three hours lecture.*

Photography, Professional

Fine & Applied Arts/Behavioral Sciences Division

Program Description

Pre-employment training in professional photography is designed to prepare students for self-employment and employment in the private and public sectors and covers a broad spectrum of photographic fields, e.g., advertising illustration, industrial, portraiture, medical, commercial, photojournalism, and landscape.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion of the 34-unit major. The Associate in Science Degree can be obtained by completing a total of 60 units, including the major and the general education requirements.

Required Courses

	Units	
PHOT 030—Beginning Photography	3	
PHOT 053—Introduction to Color Photography	3	
PHOT 151—Professional Photography: Intro.	4	
PHOT 152—Professional Photography: Portraiture	4	Recommended Electives: ART 011, 054, 056, 060 CINA 010 MGMT 184 MKT 171 OCED 090 PHOT 035, 052, 054, 055, 058, 059
PHOT 153—Professional Photo: Product & Advert.	4	
PHOT 154—Professional Photo: Interior & Exterior	4	
PHOT 156—Portfolio Development	3	
PHOT 170—Beginning Digital Imaging	3	
ART 006—Design Principles in 2-Dimensions	3	
Select 3 units from one of the following	<u>3</u>	
PHOT 056—Photojournalism & Documentary Photo.		
PHOT 031—Intermediate Photography		
PHOT 057—Special Projects		
PHOT 155—Professional Photo: Travel Photo.		
Total Required Units:	34	

Camera equipment for photography classes is not provided by the College. Students registering for these courses must have available a 35 mm camera or equivalent. Material costs are approximately \$100 per course.

PHOT 030 **3 Units** **Beginning Photography**

Introduction to black and white photography, including a brief history and discussion of image composition, with special emphasis on darkroom technique and photographic principles and materials. Prerequisite to the Professional Photography program and most other photography classes. (CAN ART 18). *Two hours lecture, three hours lab.*

PHOT 031 **3 Units** **Intermediate Photography**

Prerequisite: PHOT 030 or equivalent (instructor review of portfolio). Course Advisories: SCC minimum English and math standards. This course is designed to further develop a student's basic technical and visual skills. The use of traditional film (analog) materials and digital medium will be explored to produce their photographic work with an emphasis on continued visual literacy. *Two hours lecture, three hours activities.*

Photography

PHOT 035

3 Units

The Art of Photography

Course Advisory: ENGL 001. Learn to make better photographs through the survey of 19th and 20th Century master photographers as a vehicle for the development of student's own photographs. Students will have the opportunity to develop a sense of color and to apply principles learned through taking pictures in 35mm slide format. Gallery visitations and critical written reviews are a part of the comprehensive course. 35 MM camera required. *Three hours lecture.*

PHOT 052

3 Units

Creative Photography

Prerequisite: PHOT 031. Students experiment with photographic and non-photographic materials to create visual images and statements. Quizzes, laboratory notebook, and final portfolio required. *Two hours lecture, three hours lab.*

PHOT 053

3 Units

Introduction to Color Photography

Course Advisories: SCC minimum English and math standards. Introduction to the theory, materials and techniques of color photography. Includes photography theory and application for transparencies, printmaking, finishing and color portfolio. Some out of class camera assignments utilizing color slide film are included. Both transparency and negative films will be explained. *Two hours lecture, three hours lab.*

PHOT 054

3 Units

Intermediate Color Photography

Prerequisite: PHOT 053. Continuation of Photo 053. Advanced techniques, creative ideas, image evaluation and presentation of color prints are emphasized. *Two hours lecture, three hours lab.*

PHOT 055

3 Units

Creative Color

Prerequisite: PHOT 054. Course Advisory: SCC minimum English standard. Creative innovations and experiments in color photography, including non-silver methods, polaroid transfer, handtinting, iso-expansion, chemical experimentation, image evaluation, printing and exhibiting. *Two hours lecture, three hours lab.*

PHOT 056

3 Units

Photojournalism and Documentary Photography

Prerequisite: PHOT 031. Course Advisory: SCC minimum English standard. Covers aspects of the camera as a journalistic and documentary tool, including news photography, the journalistic photo-essay, and photodocumentation. Written critiques and projects in each area provide a broad understanding of the field. Repeatable 1 time. *Two hours lecture, three hours lab.*

PHOT 057

3 Units

Special Projects

Prerequisite: PHOT 052 or advanced class. Courses in special projects that are of historical and contemporary interest. Application through assignments to develop technical skills in subject areas not normally covered in other photography classes. *Two hours lecture, three hours lab.*

PHOT 058

3 Units

Advanced Black & White Photography

(F/S-Night)

Prerequisite: PHOT 031. Course Advisories: SCC minimum English and math standards. Emphasizes perfecting visual and technical skills. Includes simple photographic chemistry, the zone system, advanced printing, processing and exhibit preparation. A portfolio and a project in creative photography are required. *Two hours lecture, three hours lab.*

PHOT 059

3 Units

Color Portfolio

Prerequisite: PHOT 054. Course Advisory: SCC minimum English standard. Provides the advanced color student the opportunity to build upon and expand beyond standardized course instruction. Each student will create and design his/her own portfolio in consultation with the instructor. Each student will exhibit his/her portfolio publicly. *Two hours lecture, three hours lab.*

PHOT 70

3 Units

Beginning Digital Imaging

Course Advisories: PHOT 030, PHOT 035, SCC minimum English and math standards. Introduction to digital photography, including a brief history and discussion of image composition, with special emphasis on hardware and software techniques, photographic principles and digital materials. Students learn how to use a digital camera, load their photos into an editing program and complete simple editing projects. Beginning printing and other output techniques will be discussed. Conceptual and technical assignments will be utilized throughout the semester to support topics covered in class. A SLR digital camera is required. A home computer is not required. Repeatable 1 time. *Two hours lecture, three hours activities.*

Photography

PHOT 099

2-3 Units

Photography Honors

Prerequisites: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a grade of "B" or better; an ability to work independently; permission of the division Dean based on instructor availability. Independent study class designed for students who have taken many of the basic classes and wish to continue work with an instructor in a specialized area. The student works by arrangement with the instructor on an outlined program of study. Repeatable 1 time. *Six to nine hours weekly by arrangement.*

PHOT 151

4 Units

Professional Photography: Introduction

Prerequisite: PHOT 030. Course Advisories: SCC minimum English and math standards. Designed for students who are considering a career in photography. Students will be exposed to the technical and creative possibilities of applied and personal photography. A 35 mm camera (film or digital) is required. *Two hours lecture, six hours lab.*

PHOT 152

4 Units

Professional Photography: Portraiture

Prerequisite: PHOT 030. Course Advisories: SCC minimum English and math standards. This course focuses on varied applications of portrait work in the applied and fine art environments. A 35 mm camera (film or digital) is required. Repeatable 1 time. *Two hours lecture, six hours lab.*

PHOT 153

4 Units

Professional Photography: Product and Advertising

Prerequisite: PHOT 030. Course Advisories: SCC minimum English and math standards. Designed to explore varied film and lighting techniques to execute photographs in the context of advertising. Assignments will vary from studio work to location settings using a wide variety of subjects (food, wine, autos, etc). A 35 mm camera (film or digital) is required. Repeatable 1 time. *Two hours lecture, six hours lab.*

PHOT 154

4 Units

Professional Photography: Interior/Exterior

Prerequisite: PHOT 030. Course Advisories: SCC minimum English and math standards. This course provides the student with skills to photograph architecture in the rural and urban landscape. A 35 mm camera (film or digital) is required. Repeatable 1 time. *Two hours lecture, six hours lab.*

PHOT 155

3 Units

Professional Photography: Travel Photography

Course Advisories: PHOT 030 or 035; SCC minimum English and math standards. This course will explore the boundaries of location photography. Lecture/demonstrations are designed to provide technical and creative support for your location project. The final project will encompass the realm of documentary, photojournalistic, editorial and personal work. A 35 mm camera (film or digital) is required. Students will pay for travel arrangements for this course. Repeatable 3 times. *Eight hours lecture, forty-seven hours lab per week for 2 weeks.*

PHOT 156

3 Units

Portfolio Development

Prerequisite: PHOT 151 and one of the following: PHOT 031, 058, 152, 153 or 154. An advanced course designed to serve the student in the preparation of a professional fine art or commercial portfolio. Emphasis is placed on individual direction and personal goals. The student can expect individual consultation by the instructor. A digital or 35 mm analog camera is required. Repeatable 3 times. *Two hours lecture, three hours lab.*

PHOT 70

3 Units

Beginning Digital Imaging

Course Advisories: PHOT 030, PHOT 035, SCC minimum English and math standards. Introduction to digital photography, including a brief history and discussion of image composition, with special emphasis on hardware and software techniques, photographic principles and digital materials. Students learn how to use a digital camera, load their photos into an editing program and complete simple editing projects. Beginning printing and other output techniques will be discussed. Conceptual and technical assignments will be utilized throughout the semester to support topics covered in class. A SLR digital camera is required. A home computer is not required. Repeatable 1 time. *Two hours lecture, three hours activities.*

Special Topics

These courses, numbered 098 or 148 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Physical Education/Athletics

Physical Education/Athletics Division

Physical Education

Program Description

This program offers students activity curriculum, technical skills, and professional development courses to develop fitness or to prepare students for transfer in various fields, including physical education.

Associate in Science Degree

The Associate in Science Degree can be obtained by completing a total of 60 units, including the 30-unit major, general education requirements and electives.

Required Courses

	Units
PE 020A—Foundations of Phys. Ed.	3
PE 020H—Care & Prevention of Athletic Injuries	3
PE 020S—Adv. First Aid & Emergency Care	2
PE 020V—Introduction to Sports Science	3
*PE Activity Courses	6
BIO 006—Human Anatomy	5
BIO 005—Intro. to Physiology	5
HED 002—Health Education	
OR	
HED 003—Women’s Health Issues	3
	30

*At least one activity course selected from four of the seven listed categories: Aquatics (002A, 002B, 002C, 002D, 002E), Combatives (003A, 003C, 003D, 003E), Dance (004A, 004B, 004C, 004D, 004F, 004H, 004J, 004K, 004N), Fitness Courses (005A, 005B, 005C, 005H, 005J, 005K, 005M, 005N, 005P, 005G, 006A, 006E, 006F, 006C. 078), Individual Sports (007A, 007C, 007D, 007E, 007F), Racquet Sports (008A, 008B, 008C, 008E, 008F), and Team Sports (009A, 009B, 009C, 009E, 009F, 009G, 009H, 009P, or any Intercollegiate Athletics course).

Recommended Electives:

ANTH 001
NUTR 010
MATH 011
PE 004F, 004M, 006F, 020W, 020D & 020E, 020F & 020G,
020P & 020J, 020M & 020N, 020Q & 020R, 020X & 020Y,
048G, 055, 071, 098B, 098C, 148A; any activity course listed
above not used to satisfy requirements of the major.
SOCS 022

Physical Education/Athletics

Sports Medicine/Fitness Science - (Transfer)

Program Description

Designed to allow students to transfer into baccalaureate programs in Physical Education or related areas with a Sports Medicine emphasis. The broad field of Sports Medicine/Fitness Science includes post-baccalaureate employment opportunities in teaching, athletic training, physical therapy, sports rehabilitation, biomechanics, exercise physiology, motor learning, sports orthopedics, sports podiatry, sports psychology, cardiac rehabilitation, EKG technician, and fitness technician.

Associate in Science Degree

The Associate in Science Degree can be obtained upon completion of a total 60 units, including the 33-34 unit major, the general education requirements, and electives.

Required Courses

	Units
PE 020A—Foundations of PE	3
PE 020H—Care/Prevention of Athletic Injuries	3
PE 020S—Advanced First Aid & CPR	2
PE 020V—Intro. to Sports Science	3
PE 020W—Concepts of Fitness	3
*PE Activity courses	2-3
BIO 005—Physiology	5
BIO 006—Human Anatomy	5
CHEM 010—Intern. Chemistry	4
**NUTR 010—Nutrition	3
	33-34

Aquatics (002A, 002B, 002C, 002D, 002E), Combatives (003A, 003C, 003D, 003E), Dance (004A, 004B, 004C, 004D, 004F, 004H, 004J, 004K, 004N, 004P), Fitness Courses (005A, 005B, 005C, 005G, 005H, 005P, 005J, 005K, 005M, 005N, 006A, 006C, 006E, 006F, 078), Individual Sports (007A, 007C, 007D, 007E, 007F), Racquet Sports (008A, 008B, 008C, 008E, 008F), and Team Sports (009A, 009B, 009C, 009E, 009F, 009G, 009H, 009P, or any Intercollegiate Athletics course).

**For those transferring to UC in preparation for a physical therapy major, it is recommended that CHEM 011-Basic Organic Chemistry & Biochemistry be taken in place of NUTR 010.

Recommended Electives

CIS 001
HED 002
MATH 011
PE 055, 098B
PSYC 020

Physical Education/Athletics

Sports Medicine/Fitness Science - (Occupational)

Program Description

Two occupational programs which prepare students for national certification and employment with commercial health clubs and other private and public fitness and sports centers. These jobs include working in recreation, health & fitness, sports supervision or allied fields. Students may select from two majors—Aerobics or Personal Trainer.

Associate in Science Degree

The Associate in Science Degree can be obtained upon completion of a total 60 units, including the 32.5-34.5 unit major for Aerobics or the 29.5-31.5 unit major for Personal Trainer, the general education requirements, and electives.

Sports Medicine/Fitness Science - Aerobics

Required Courses

	Units	Recommended Electives
*PE 004H—Beginning Jazz Dance OR		ACCT 001 or 180 MGMT 184
*PE 004K—Beginning Ballet	1.5-2	OCED 090
*PE 005J—Beginning Body Conditioning	1-1.5	PE 001-PE 048; Any of the following activity
PE 020A—Foundations of PE	3	courses not used to satisfy the requirements of the
PE 020H—Care/Prevent. of Athletic Injuries	3	major: Aquatics (002A, 002B, 002C, 002D, 002E),
PE 020S—Advanced First Aid & CPR	2	Combatives (003A, 003C, 003D, 003E), Dance
PE 020V—Intro. to Sports Science	3	(004A, 004B, 004C, 004D, 004F, 004H, 004J, 004K,
PE 020W—Concepts of Fitness	3	004N, 004P), Fitness Courses (005A, 005B, 005C,
BIO 010—Anatomy & Physiology	5	005G, 005H, 005J, 005K, 005M, 005N, 005P, 006A,
*HED 002—Health Education	3	006E, 006F, 006C, 078), Individual Sports (007A,
NUTR 010—Nutrition	3	007C, 007D, 007E, 007F), Racquet Sports (008A,
Two courses from the following:	2-3	008B, 008C, 008E, 008F), and Team Sports (009A,
*PE 002E—Aqua Aerobics		009B, 009C, 009E, 009F, 009G, 009H, 009P, or any
*PE 005B—Beginning Aerobic Exercise		Intercollegiate
*PE 005P—Step Aerobics		Athletics course).
*PE 006A—Cardio Kickboxing		PSYC 020
		SPCH 001
	<hr/>	
	29.5-31.5	

*May be double counted to meet graduation requirements.

Physical Education/Athletics

Sports Medicine/Fitness Science - Personal Trainer

	Units	
*PE 005M—Beginning Weight Training	1-1.5	Recommended Electives
		ACCT 001 or 180
*PE 005C—Fitness for Life	1.5-2	MGMT 184
PE 020A—Foundations of PE	3	OCED 090
PE 020H—Care & Prevent./Athletic Injuries	3	PE 001-PE 048; Any of the following activity
PE 020S—Advanced First Aid & CPR	2	courses not used to satisfy the requirements of
PE 020V—Intro. to Sports Science	3	the major: Aquatics (002A, 002B, 002C, 002D,
PE 020W—Concepts of Fitness	3	002E), Combatives (003A, 003C, 003D, 003E),
BIO 010—Anatomy & Physiology	5	Dance (004A, 004B, 004C, 004D, 004F, 004H,
*HED 002—Health Education	3	004J, 004K, 004N, 004P), Fitness Courses (005A,
NUTR 010—Nutrition	3	005B, 005C, 005G, 005H, 005J, 005K, 005M,
		005N, 005P, 006A, 006E, 006F, 006C, 078), Indi-
Two courses from the following:	2-3	vidual Sports (007A, 007C, 007D, 007E, 007F),
*PE 002E—Aqua Aerobics		Racquet Sports (008A, 008B, 008C, 008E, 008F),
*PE 005B—Beginning Aerobic Exercise		and Team Sports (009A, 009B, 009C, 009E, 009F,
*PE 005P—Step Aerobics		009G, 009H, 009P, or any Intercollegiate
*PE 005J—Beginning Body Conditioning		Athletics course).
*PE 006A—Cardio Kickboxing		PSYC 020
	29.5-31.5	SPCH 001
*May be double counted to meet graduation requirements.		

Job-Direct Certificate

For each of the following programs, the required courses must be completed with a grade of "C" or better.

Fitness Professional

Required Courses

	Units
PE 020S—Advanced First Aid & Emergency Care	2
PE 020W —Concepts of Physical Fitness	3
PE 020V—Introduction to Sport Science	3
NUTR 010 —Nutrition	3
PE 005J —Beginning Body Conditioning	
OR	
PE 005K—Intermediate Body Conditioning	1
*5 additional units from the following list:	5

*Additional required units from this list:

Aquatics (002A, 002B, 002C, 002D, 002E), Combatives (003A, 003C, 003D, 003E), Dance (004A, 004B, 004C, 004D, 004F, 004H, 004J, 004K, 004N, 004P), Fitness Courses (005A, 005B, 005C, 005G, 005H, 005J, 005K, 005M, 005N, 005P, 006A, 006E, 006F, 006C, 078), Individual Sports (007A, 007C, 007D, 007E, 007F), Racquet Sports (008A, 008B, 008C, 008E, 008F), and Team Sports (009A, 009B, 009C, 009E, 009F, 009G, 009H, 009P).

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Health Education

HED 002

3 Units

Health Education

Course Advisories: SCC minimum English and math standards. A survey course with a multifaceted view of health with physical, mental, and social dimensions. The course extends beyond the structure and function of one's body to include feelings, values, and reasoning. Examinations and a project are required. Satisfies one-half of the Health, Physical Education graduation requirement. *Three hours lecture.*

HED 003

3 Units

Women's Health Issues

Course Advisories: SCC minimum English and math standards. A study of health issues that are unique to women with a focus on women's health maintenance and care, and the development of skills and acquisitions of knowledge necessary to make informed choices in health matters of concern to women. Open to all students. Satisfies one-half of the Health, Physical Education graduation requirement. *Three hours lecture.*

Physical Education

Adapted Physical Education

Courses numbered 001A through 001D are modified for students with specific physical disabilities. The instructor, with recommendations from each student's physician, develops an individualized program for each student. A permission card confirming a disability must be obtained from the Enabling Office prior to registration.

PE 001A 1 or 1.5 Units

Adapted Aquatics

Prerequisites: Permission of Disabilities Services Counselor confirming disability. A specialized course in water orientation, exercise, and swimming designed to meet the individual needs of those unable to participate fully in a regular swimming class. Pre-tests and post-test serve to evaluate student achievement. Repeatable 3 times. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

PE 001D 1 or 1.5 Units

Adapted Weight Training

Prerequisites: Permission of Disabilities Services Counselor confirming disability. Specialized course in weight training that includes an individualized program that focuses on the specific disability of each student. Pre-tests and post-tests (written and practical) serve to evaluate student achievement. Repeatable 3 times. *One-half hour lecture, one and one-half hour or two and one-half hours activity.*

Physical Education

Sequence courses (Beginning, Intermediate) may not be taken concurrently; and sequence courses may not be taken out of sequence.

PE 002A 1 or 1.5 Units

Beginning Swimming

Course Advisories: SCC minimum English and math standards. Covers the fundamental techniques of swimming, terminology, water adjustment, fluid mechanics, and water safety. Swimming strokes include freestyle and backstroke. Skills and written exams are used to evaluate student achievement. Repeatable 2 times. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

PE 002B 1 or 1.5 Units

Intermediate Swimming

Prerequisite: PE 002A. Course Advisories: SCC minimum English and math standards. Covers the intermediate techniques of swimming, terminology, and fluid mechanics. Swimming strokes include the freestyle, backstroke, breaststroke, and butterfly. Racing starts, flip turns, and touch turns are taught on a beginning level. Interval training concepts are introduced. Skills and written exams are used to evaluate student achievement. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

PE 002C 1 or 1.5 Units

Water Polo

Course Advisory: SCC minimum English and math standards. A coeducational course that includes the fundamental skills, game strategies, and rules of water polo. Offensive and defensive strategies are practiced in preparation for team play. Skills exams and written exams serve to evaluate student achievement. Repeatable 3 times. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

PE 002D 1.5 or 2 Units

Swim for Fitness

Course Advisories: SCC minimum English and math standards. Designed to provide life-long fitness through cardiovascular endurance training and skill development in basic aquatics skills. The major components which make up a swimming workout and the concepts of interval training and sprint and distance training are included. Skills exams and written exams serve to evaluate student achievement. Repeatable 3 times. *One hour lecture, one or two hours activity.*

PE 002E 1 or 1.5 Units

Aqua Aerobics

Course Advisories: SCC minimum English and math standards. A comprehensive fitness program with the focus on aerobic conditioning via aquatic exercise designed to improve muscular strength, endurance and cardiovascular fitness. Exercises conducted in the water will utilize the resistance of water and equipment to develop strength and conditioning. Repeatable 3 times. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

PE 003A**1 or 1.5 Units****Beginning Self Defense**

Course Advisories: SCC minimum English and math standards. Designed to equip the student with basic skills and knowledge for protection against physical assault. Includes basic fighting techniques, falls and recoveries, and disengagements with counter-attacks. Also included are developing a self-defense consciousness and knowledge about self-defense and the law. Skills exam is used to evaluate student achievement. Repeatable 3 times. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

PE 003C**1 or 1.5 Units****Foil Fencing**

Course Advisories: SCC minimum English and math standards. Includes the fundamental skills, strategies, and rules of (French) foil fencing. The early history, evolution of hand weaponry, the dueling sword, the French and Italian techniques, French terminology, and etiquette are included. Written exams and skills exams serve to evaluate student achievement. This course is recommended for Theatre Arts majors. Repeatable 3 times. *One half hour lecture and one and one half hours activity or one half lecture and two and one hours activity.*

PE 003D**1 or 1.5 Units****Beginning Judo**

Course Advisories: SCC minimum English and math standards. A basic judo course including techniques such as falls, holds, chokes, grips, grip breaks, balance breaks, and application of reverse locks. Strategies for the judo contest are included such as defenses, counters, break-up throws, take-downs, and general mat work. A historical overview of the martial arts is offered with an emphasis on the evolution of modern-day judo. Written and skills exams are used to measure student achievement. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 003E**1 or 1.5 Units****Intermediate Judo**

Prerequisite: PE 003D. Course Advisories: SCC minimum English and math standards. An intermediate judo course that covers advanced throwing and grappling techniques. Combinations, transitions, and strategies will also be covered. Competition at the local level tournaments will be an option for interested students. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 004A**1.5 or 2 Units****Beginning Modern Dance**

SCC minimum English and math standards. An introduction to basic modern dance techniques, terminology, and rhythmic structure. Students will study posture and alignment for dance, alignment reference points and basic postural muscles. Students will study the basic components of fitness as they relate to dance training and basic health guidelines for nutrition and injury care and prevention. Students will explore a variety of common accompaniments for modern dance. Basic music notation will be presented in preparation for future dance composition. The history of Modern Dance is included. Interval skills exams and written exams serve to measure student achievement. Repeatable 3 times. *One hour lecture, one or two hours activity.*

PE 004F**1.5 or 2 Units****Hip-Hop Dance**

Course Advisories: SCC minimum English and math standards. Introduces students to the fundamentals of hip-hop dance style. The students will learn the fundamentals of today's dances that are commonly used in music videos. Repeatable 3 times. *One hour lecture, one or two hours activity.*

PE 004H**1.5 or 2 Units****Beginning Jazz Dance**

SCC minimum English and math standards. Covers basic jazz techniques, styles, terminology, and history. This course presents lecture information on posture for the dancer, music analysis, understanding basic components of fitness as related to dance, nutrition and injury prevention, and choreography dance notation. The course focuses on sequential development of basic jazz patterns in preparation for future dance composition. Interval skills exams and written exams serve to evaluate student achievement. Repeatable 2 times. *One hour lecture, one or two hours activity.*

PE 004P**1.5 or 2 Units****Intermediate Jazz Dance**

Prerequisite: PE 004H. Course Advisories: SCC minimum English and math standards. Covers intermediate-level jazz techniques, styles, and terminology. Students will gain increased knowledge of dance posture and of the muscular functions of the major muscles that effect basic dance movements. Intermediate musical analysis will include 6 count phrasing. The course focuses on sequential development of intermediate jazz patterns dance patterns in preparation for dance composition. Interval skills exams and written exams serve to evaluate student achievement. *One hour lecture, one or two hours activity.*

Physical Education

PE 004J

1.5 or 2 Units

Beginning Ballroom Dance

Course Advisory: SCC minimum English and math standards. In this course students will gain a solid foundation and knowledge of the basic skills and techniques of ballroom dance. This class will also be an introduction, short history, demonstration, and instruction of popular ballroom dances. Following good practice of exercise in dance execution, the students benefit from the activity and the cultural experiences. Dances selected from the following: Cha-Cha, Rumba, Nightclub Two-Step, East and West Coast Swing, Lindy-Hop, Salsa, Tango, Waltz, Samba, and Fox Trot. Attention on proper techniques in both lead and follow dance positions including, proper form, footwork, alignment, and correct posture. Music is varied to broaden the experience with different tempo and styles. No prior experience in dance required; partner not required. Repeatable 3 times. *One hour lecture, one or two hours activity.*

PE 004K

1.5 or 2 Units

Beginning Ballet

Course Advisory: SCC minimum English and math standards. Introduction to beginning classical ballet dance forms, positions, body alignment, patterns, and barre work. The lesson is conducted with the associated French terminology for all movements and steps. The history of ballet is presented and significant choreographers and ballets are discussed. Students will study proper dance posture, the muscular system as it relates to ballet movement and proper nutritional guidelines for the dancer. Basic first aid and injury prevention and treatment for self-care injuries will also be included in lectures. Performance exams and written exams are given to evaluate student achievement. Students will be required to submit a term project on the history of ballet. Repeatable 2 times. *One hour lecture, one or two hours activity.*

PE 004M

1.5 or 2 Units

Intermediate Ballet

Prerequisite: PE 004K. Course Advisories: SCC minimum English and math standards. The student will be exposed to second derivative skills and will expand technical development for artistic growth. Emphasis is on style and the aspects of interpretation of movement needed for development of the classical dancer. Skills exams and written exams are given to evaluate student achievement leading to studio recital or performance. Text required. *One hour lecture, one or two hours activity.*

PE 004N

1 or 1.5 Units

Beginning Swing Dance

Course Advisories: SCC minimum English and math standards.

An introductory experience of the popular American social dances known as "Swing" and an exploration of the cultural scene that created them. The course surveys historical dance varieties and East Coast/West Coast regional differences as well as the latest trends and styles. Repeatable 3 times. *One hour lecture, one or two hours activity.*

PE 004B

1.5 or 2 Units

Beginning Tap Dance

Course Advisories: SCC minimum English and math standards. Introductory course that includes body placement, body balance, rhythm, coordination, musicality, and a repertoire of the traditional tap (foot) techniques. This course presents lecture information on music, music analysis, understanding basic components of fitness as related to dance, nutrition and basic first aid and injury prevention. This history of tap dance as an indigenous American dance form is included. Skills exams and written exams are used to evaluate student achievement. Repeatable 2 times. *One hour lecture, one or two hours activity.*

PE 004C

1 or 1.5 Units

Intermediate Tap Dance

Prerequisite: PE 004B. Course Advisories: SCC minimum English and math standards. Explores intermediate tap dance step, patterns, combinations, and choreography. Music theory concepts as they apply to the syncopated rhythms of tap dance are included. The history of tap dance as an indigenous American dance form is discussed. Interval performance exams are used to evaluate student achievement. Written exams are used to evaluate the student's knowledge of technique, music theory, rhythmic patterns, and the historical and cultural significance of tap dance in America. Students will learn to appreciate this dance form via attendance at a dance concert or musical theater performance. *One hour lecture, one or two hours activity.*

Physical Education

PE 004D

1.5 or 2 Units

Jazz Dance Technique

Prerequisite: PE 004H. Course Advisories: SCC minimum English and math standards. Designed for students who have vocational or avocational interests in dance. Course emphasis is on the skill development and analysis of intermediate-level and advanced-level techniques and patterns. Selected technique syllabi of various dance artists will be presented and studied. Jazz idioms, styles, and the historical and cultural development are included. Participation in the annual dance concert is encouraged. Interval skills exams and written exams serve to evaluate student achievement. Recommended for Theatre Arts majors. Repeatable 3 times. *One hour lecture, one or two hours activity.*

PE 004E

3 Units

Dance Production

Course Advisories: SCC minimum English and math standards. Designed for dance students interested in public performance. Experiences in student choreography are included in addition to participation in the annual college dance concert. Interval skills exams and written exams serve to evaluate student achievement. Recommended for Theater Arts majors. Repeatable 3 times. *One hour lecture, seven hours lab, one hour weekly by arrangement.*

PE 005A

1 or 1.5 Units

Low Impact Aerobic Dance

Course Advisories: SCC minimum English and math standards. Low impact aerobic dance reduces the stress of high intensity aerobics by modifying jumping, hopping and leaping movements generally associated with peak aerobic dance. Students will progress through a complete aerobic work-out, achieving target training zone heart rate through the use of low-impact routine work. Body toning, strength building and flexibility components of the workout will be included to provide the student with a well-rounded fitness program. Fitness exams, written exams, written assignments, class lecture, and participation serve to measure student achievement. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 005B

1 or 1.5 Units

Beginning Aerobic Exercise

Course Advisories: SCC minimum English and math standards. A comprehensive fitness program with a focus on aerobic conditioning via choreographed dance exercise patterns set to music. Body toning, strength building and flexibility components of the workout will be included to provide the student with a well-rounded fitness program. Nutrition, body composition, weight control, and basic physiological principles of exercise are included. Fitness exams and written exams, written assignments, class lecture, and participation serve to measure student achievement. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 005H

1 or 1.5 Units

Intermediate Aerobic Exercise

Prerequisite: PE 005B. Course Advisory: SCC minimum English and math standards. A comprehensive fitness program with a focus on aerobic conditioning via choreographed dance exercise patterns set to music. The physiological effects of exercise on the heart and vascular system are included. Fitness standards are higher than those in the beginning course. Fitness exams, written exams, and course lecture serve to evaluate student achievement. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 005P

1 or 1.5 Units

Step Aerobics

Course Advisory: SCC minimum English and math standards. An aerobic exercise program utilizing four inch, six inch, and eight inch step platforms. Class format includes warm-up, pre-aerobics, peak aerobics, aerobic cool down as determined by musical beats per minute (BPM). Body toning, strength building and flexibility components of the workout will be included to provide the students with a well-rounded fitness program. Fitness exams, written exams, written assignments, course lecture and/or participation serve to measure student achievement. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 005J

1 or 1.5 Units

Beginning Body Conditioning

Course Advisory: SCC minimum English and math standards. A general conditioning course that includes weight training, aerobic conditioning, and stretching exercises. A pre-test serves to define individual fitness goals, and two post-tests (written and practical) serve to evaluate student achievement. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

Physical Education

PE 005K

1 or 1.5 Units

Intermediate Body Conditioning

Prerequisite: PE 005J. *Course Advisory:* SCC minimum English and math standards. A general conditioning course that includes weight training, aerobic conditioning, and stretching exercises. A pre-test serves to define individual fitness goals, and two post-tests (written and practical) serve to evaluate student achievement. Post-test standards are higher than they are in the beginning-level course. Nutrition, as it relates to fitness and weight control, is included. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 005M

1 or 1.5 Units

Beginning Weight Training

Course Advisory: SCC minimum English and math standards. A comprehensive weight training course for men and women with a focus on strength development and muscle hypertrophy. Resistive exercises via free weights and fixed weights are used for the development of every major muscle group. Pre-tests and post-tests (written and practical) serve to evaluate student achievement. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 005N

1 or 1.5 Units

Intermediate Weight Training

Prerequisite: PE 005M. *Course Advisories:* SCC minimum English and math standards. Intermediate weight training courses for men and women that will help individuals define and concentrate on personalized goals. Special emphasis will be directed at determining students' needs and helping them write and follow an exercise program designed to meet those needs. Pre-tests, post-tests and fitness measurements will be used to assess progress. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 005C

1.5 or 2 Units

Fitness for Life

Course Advisories: SCC minimum English and math standards. Offers an individualized approach to fitness with a focus on the individual's personal responsibility for his/her fitness and health throughout life. The study of the physiological changes one undergoes as the result of physical conditioning forms the basis for the development of a lifetime fitness plan. Fitness exams and written exams serve to evaluate student achievement. Repeatable 3 times. *One hour lecture, one or two hours activity.*

PE 005G

1 or 1.5 Units

Off-Season Athletic Conditioning

Course Advisories: SCC minimum English and math standards. A comprehensive course designed for the intercollegiate student/athlete. The course focus is on continued development and enhancement of physical performance and maintenance level required of each student/athlete's respective sport. The course will focus on learning and execution of fitness/conditioning parameters as well as pre and post-tests on sport specific abilities applicable to each student/athlete's sport or activity. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 006A

1 or 1.5 Units

Cardio Kickboxing

Course Advisories: SCC minimum English and math standards. An aerobic exercise program utilizing non-contact kickboxing. Class format includes warm-up, pre-aerobics, peak aerobics and aerobic cool-down as determined by musical beats per minutes (BPM). Hand weights and step boxes may be used for additional lower and upper body strength and conditioning. A flexibility cool-down will conclude the exercise session. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 006E

1.5 or 2 Units

Fundamentals of Yoga

Course Advisories: SCC minimum English and math standards. Development of basic yoga postures, breathing practices, stretching and relaxation techniques as method to improve flexibility, decrease stress and improve physical and mental well-being. Repeatable 2 times. *One hour lecture, one to two hours activity.*

PE 006F*

1.5 or 2 Units

Intermediate Yoga (formerly PE 48A)

Prerequisite: PE 006E. *Course Advisories:* SCC minimum English and math standards. This course will expand upon the techniques and philosophies of beginning yoga. Students will be exposed to advanced postures, various specific yoga systems and additional philosophies of yoga from the masters. *One hour lecture, one to two hours activity.*

Physical Education

- PE 006C** **1 or 1.5 Units**
Pilates for Fitness (formerly PE 073)
Course Advisories: SCC minimum English and math standards. A fitness course that utilizes Pilates techniques that can increase strength, flexibility and endurance. Pilates exercises can improve posture, alignment coordination and balance. The course is designed to tone muscles without putting stress on the spine. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 006B** **1 or 1.5 Units**
Introduction to Qigong (formerly PE 070)
Course Advisories: SCC minimum English and math standards. A course designed to acquaint the student with the basic 64-movement patterns of Dayan Qigong (pronounced cheegong) - one of the most popular forms of Qigong taught in China today. Students will learn the names and locations of accupressure points and how to do self-massage to activate the meridian system of the body. Students will learn both "stillness in action" through the physical movements and "action in stillness" through sitting, standing and walking meditations. This class is available for students with all levels of abilities and can be adapted for students with mobility issues. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 007A** **1 or 1.5 Units**
Beginning Bowling
Course Advisories: SCC minimum English and math standards. Covers the fundamental techniques of bowling, terminology, rules, scoring, etiquette, and history. Practice and class competitions are provided to enhance skill development and strategy. Written exams and skills exams serve to evaluate student achievement. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 007C** **1 or 1.5 Units**
Beginning Mountain Biking
Course Advisories: SCC minimum English and math standards. Introduction to basic mountain biking terminology, equipment, and riding techniques. History of bicycling is included. Interval skills examinations and written examinations serve to measure student achievement. Repeatable 3 times. *One hour lecture, one or two hours activity.*
- PE 007D** **1 or 1.5 Units**
Beginning Golf
Course Advisories: SCC minimum English and math standards. Provides instruction and practice in fundamental golf strokes with irons and woods. Rules, etiquette, and selection and care of equipment are included. Interval skills exams and written exams serve to evaluate the student achievement. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 007E** **1 or 1.5 Units**
Intermediate Golf
Prerequisite: PE 007D. Course Advisories: SCC minimum English and math standards. Provides instruction and practice in intermediate-level golf skills and strategies. Scoring, handicapping, rules, and etiquette are included in addition to municipal golf course play and class competitions. Interval skills exams and written exams serve to evaluate student achievement. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 007F** **1 or 1.5 Units**
Beginning Archery
Course Advisories: SCC minimum English and math standards. Covers the fundamental techniques of archery, terminology, accessories, and history of the sport. Practice and class competitions are provided to enhance skill development. Written and skills exams serve to evaluate student achievement. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 008A** **1 or 1.5 Units**
Beginning Tennis
Course Advisories: SCC minimum English and math standards. Lectures and demonstrations cover the fundamental techniques of tennis: forehand, backhand, basic serve, and volley. Terminology, rules, and history are included. Practice, skill drills, and class competition in both singles and doubles are provided to enhance skill development and game strategy. Skill exams and written exams serve to evaluate student achievement. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 008B** **1 or 1.5 Units**
Intermediate Tennis
Prerequisite: PE 008A. Course Advisories: SCC minimum English and math standards. Lecture and demonstration cover the intermediate techniques of tennis: overhead smash, drop shot, chop volley, serves, and offensive and defensive lobs. Strategy for competitive play is emphasized. Skills exams and written exams serve to evaluate student achievement. *One-half hour lecture, one and one-half or two and one-half hours activity.*

Physical Education

PE 008C

1 or 1.5 Units

Beginning Racquetball

Course Advisories: SCC minimum English and math standards. Lectures and demonstrations on the fundamental techniques and skills such as grips, forehand and backhand strokes, serves, the serve return, and the kill shot. Scoring, game rules, game strategy, and court etiquette are included. Drills and class competitions are provided to enhance skill development and game strategy. Skills exams and written final exam serve to evaluate student achievement. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 008F

1 or 1.5 Units

Beginning Badminton

Course Advisories: SCC minimum English and math standards. Lecture and demonstrations on the basic skills: forehand, backhand, service, the clears and the smash. Also covered are singles and doubles strategy. History, terminology, rules and scoring, and care and selection of equipment are included. Skills exams and written exams serve to evaluate student achievement. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 008G

1 or 1.5 Units

Intermediate Badminton

Prerequisite: PE 008E. Course Advisories: SCC minimum English and math standards. Lecture and demonstrations cover intermediate skills: clears-cross court, down the line and reverse cross-court; drops - at the net, from the backcourt and from the midcourt; service - forehand and backhand. Also covered are offensive and defensive techniques of the smash. Training drills, agility, endurance and court coverage for competitive play will be taught. Skill exams and written exams serve to evaluate student achievement. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 009A

1 or 1.5 Units

Beginning Basketball

Course Advisories: SCC minimum English and math standards. Lectures and demonstration cover the fundamental skills of basketball: shooting, passing, dribbling, rebounding, and footwork. Offensive and defensive drills are practiced in preparation for low-level competition in class. The history, rules, and terminology of the game are included. Skills exams and written exams serve to evaluate student achievement. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 009E

1 or 1.5 Units

Intermediate Basketball

Prerequisite: PE 009A. Course Advisories: SCC minimum English and math standards. Lecture and demonstration cover second derivative skills and philosophies of basketball: court leadership, team offenses and defenses, motivation, team strategies, court decorum and sportsmanship. Skills exams and written exams serve to evaluate student achievement. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 009G

1 or 1.5 Units

Softball

Course Advisories: SCC minimum English and math standards. Covers the fundamental techniques of softball, terminology, rules, and history. Practice, skill drills, and class competitions are provided to enhance skill development and game strategy. Skills exams and a written final exam serve to evaluate student achievement. Students must provide their own glove. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 009H

1 or 1.5 Units

Beginning Volleyball

Course Advisories: SCC minimum English and math standards. Covers the basic skills: serve, pass, set, spike and block. Skills development is emphasized. This course presents lecture information on team play, rules, history and basic game strategy. Physical conditioning is an integral part of the course. Skills exams and written exams serve to evaluate student achievement. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 009P

1 or 1.5 Units

Intermediate Volleyball

Prerequisite: PE 009H. Course Advisories: SCC minimum English and math standards. Covers the intermediate skills: serve, pass, set, spike and block. The course focuses on offensive and defensive tactics and strategies in preparation for high-level competitive play. A comprehensive physical conditioning program is included to prepare the player for the rigors of volleyball activity. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 009B

1 or 1.5 Units

Indoor/Outdoor Soccer

Course Advisories: SCC minimum English and math standards. Covers the fundamental techniques of soccer, terminology, rules, and history. Practice, skills drills, and class competitions are provided to enhance skill development and game strategy. A written final exam and skills exams serve to evaluate student achievement. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

Physical Education

PE 009C**1 or 1.5 Units****Intermediate Soccer**

Prerequisite: PE 009B. Course Advisories: SCC minimum English and mathematics standards. Covers intermediate soccer skills. Through team competition, emphasis is placed upon offensive and defensive tactics and strategies. Develop knowledge and understanding of the current collegiate soccer rules and fitness. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 009F**1 or 1.5 Units****Beginning Baseball**

Course Advisories: SCC minimum English and math standards. Using a lecture and lab format the class covers the fundamental skills of baseball: throwing, catching, fielding, catching fly balls, hitting, bunting, base running, sliding, and playing defensive positions. Offensive and defensive drills practiced in preparation for low-level competition in class. History, rules, and terminology are included. Skills exams and written exams serve to evaluate student achievement. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 020A**3 Units****Foundations of Physical Education**

Course Advisories: SCC minimum English and math standards. An introduction to the field of Physical Education as a profession and as an academic discipline. The course covers the purposes, philosophical and historical foundations, biological and biomechanical foundations, and the sociological and psychological foundations of Physical Education. The course also focuses on educational preparation, the job market, and alternative careers in Physical Education. Written exams and writing assignments serve to evaluate student achievement. *Three hours lecture.*

PE 020H**3 Units****Care and Prevention of Athletic Injuries**

Course Advisories: SCC minimum English and math standards. An introduction to the field of Athletic Training as a profession and as an academic discipline. Designed to train students in the recognition, rehabilitation, and prevention of athletic injuries. Emphasis is on learning and applying a variety of taping techniques and athletic training therapies. Written examinations and practical examinations serve to evaluate student achievement. Required of Physical Education majors and minors. *Three hours lecture.*

PE 020S**2 Units****Advanced First Aid and Emergency Care**

Course Advisories: SCC minimum English and math standards. A course designed to prepare individuals who may administer emergency care to the injured and ill. Upon successful completion of the course, students will be knowledgeable in Advanced First Aid and Emergency Care and CPR for infants, children, and adults. Required of Physical Education majors and minors. *Two hours lecture, one hour lab.*

PE 020V**3 Units****Introduction to Sports Science**

Course Advisories: SCC minimum English and math standards. A course covering the basic elements of sport sciences including: kinesiology, motor learning, biomechanics, exercise physiology, sports medicine, sport psychology and training theory. *Three hours lecture.*

PE 020W**3 Units****Concepts of Physical Fitness**

Course Advisories: SCC minimum English and math standards. A comprehensive fitness course that includes the study of the human organism and its reactions to fitness and physical activity. The course focuses on the physiological adaptations, exercise training/prescriptions, nutrition, ergogenic aids, environmental factors, and the major medical and health conditions. Written exams and measurements of activity serve to evaluate student achievement. *Three hours lecture.*

PE 020D**2 Units****Baseball Theory and Practice I**

Course Advisories: SCC minimum English and math standards. A comprehensive baseball course designed for the athlete and coach. The course includes the theories and applications of offensive and defensive strategies, the game plan as it relates to the statistical performance of a particular team, and the use of scouting in assessing the skills and weaknesses of the opposing coach and team. Skills exams and written exams serve to evaluate athlete achievement. *One hour lecture, two hours activity.*

Physical Education

PE 020E

2 Units

Baseball Theory and Practice II

Course Advisories: SCC minimum English and math standards. A continuation of PE 020D. A comprehensive baseball course designed for the athlete and coach. The course includes advanced theories and applications of offensive and defensive strategies, the evaluation of the game plan as it relates to the statistical information and skill performance of a team, and the use of assembling advanced scouting reports to assess the skills and weaknesses of the opposing coach and team. Skills exams and written exams serve to evaluate athlete achievement. *One hour lecture, two hours activity.*

PE 020F

2 Units

Football Theory and Practice I

Course Advisories: SCC minimum English and math standards. Comprehensive course for athletes and coaches of football in preparation for intercollegiate competition. The course focuses on the analyses and applications of the principles underlying all football techniques, the psychology involved in the development of winners, and the scientific and empirical principles of training. Skills exams and written exams serve to evaluate athlete achievement. *One hour lecture, two hours activity.*

PE 020G

2 Units

Football Theory and Practice II

Course Advisory: SCC minimum English and Math standards. Continuation of 020F. An advanced course for athletes and coaches of football in preparation for intercollegiate competition. The course focuses on the analyses and applications of the principles underlying offensive and defensive strategies and formation of game plan. Skills exams and written exams are used to evaluate student learning. *One hour lecture, two hours activity.*

PE 020P

2 Units

Softball Theory and Practice I

Course Advisories: SCC minimum English and math standards. Comprehensive course designed for the intercollegiate softball athlete and for the coach of fastpitch softball. The course focuses on the theories, analyses, and applications of offensive and defensive skills and strategies. Written exams and practical exams serve to evaluate athlete achievement. *One hour lecture, two hours activity.*

PE 020J

2 Units

Softball Theory and Practice II

Course Advisories: SCC minimum English and math standards. Continuation of PE 020P. An advanced softball course designed for the athlete and coach. The course includes advanced theories and applications of offensive and defensive strategies, evaluation of the game plan as it relates to statistical information and skill performance of a team. It also covers assembling advanced scouting reports to assess the opposition. Skill exams and written exams serve to evaluate the student. *One hour lecture, two hours activity.*

PE 020M

2 Units

Volleyball Theory and Practice I

Course Advisory: SCC minimum English standard. Study of the theories of offensive and defensive strategies of competitive volleyball. Athletes will study, analyze, and practice offensive and defensive skills and strategies in preparation for seasonal, intercollegiate competition. Skills exams and written exams serve to evaluate athlete achievement. *One hour lecture, two hours activity.*

PE 020N

2 Units

Volleyball Theory and Practice II

Course Advisory: SCC minimum English standard. Continuation of PE 020M. A study of advanced theories of offensive and defensive strategies of competitive volleyball. Students will analyze advanced offensive and defensive strategies and will develop in-depth scouting procedures. Skills exams and written exams serve to evaluate athlete achievement. *One hour lecture, two hours activity.*

PE 020X

2.5 Units

Basketball Theory and Analyses I

Course Advisories: SCC minimum English and math standards. Comprehensive basketball theory course designed for coach and athlete. The course includes the theories and analyses of offensive and defensive strategies, the development of the offensive and defensive game plan as it relates to statistical data, and spontaneous adjustments in offense and defense. Written exams serve to evaluate student achievement. *Two hours lecture, one hour activity.*

PE 020Y

2.5 Units

Basketball Theory and Analyses II

Course Advisories: SCC minimum English and math standards. Continuation of PE 020X. A comprehensive basketball theory course designed for coach and athlete. The course includes the advanced theories and analyses of offensive and defensive strategies and the development of the game plan using statistical data and the scouting report. Written exams and skill exams serve to evaluate student achievement. *Two hours lecture, one hour activity.*

PE 020Q 1.5 or 2 Units**Soccer Theory and Practice I**

Course Advisories: SCC minimum English and math standards. A comprehensive course designed for the intercollegiate soccer athlete and for the coach of soccer. The course focuses on the theories, analyses, and application of offensive and defensive skills and strategies. Written exams and practical exams serve to evaluate the student achievement. *One hour lecture, and one to two hours activity.*

PE 020R 1.5 or 2 Units**Soccer Theory and Practice II**

Course Advisories: SCC minimum English and math standards; PE 020Q or equivalent soccer experience. Continuation of PE 020Q. A study of advanced theories of offensive and defensive strategies of competitive soccer. Students will analyze advanced offensive and defensive strategies and will develop in-depth scouting procedures. Skill exams and written exams serve to evaluate student achievement. *One hour lecture, and one to two hours activity.*

PE 055 2 Units**Sports Medicine—Athletic Training Internship/Practicum**

Prerequisites: PE 020H. Course Advisories: SCC minimum English and math standards. Supervised volunteer athletic experience which provides students with the opportunity for immediate recognition and treatment of sports injuries. Emphasis is on taping techniques and rehabilitation which enables athletes to return to competition. (Sports Medicine). Repeatable 3 times. *One hour lecture, three hours weekly by arrangement.*

PE 071 .5, 1, or 1.5 Units**Back Care and Injury Management**

Course Advisories: SCC minimum English and math standards. A course designed for students with interest in back care or managing a back injury. Individualized and group exercises will focus on functional motor control, balance, coordination, flexibility, developmental movement, individually developed exercises and strength and endurance for students with back injuries. There will be an emphasis on encouraging independence in personal health and teaching lifelong fitness knowledge and skills. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 078 1 or 1.5 Units**Fit Ball Training**

Course Advisories: SCC minimum English and math standards. A fitness course that utilizes fitness ball techniques that can increase strength, flexibility, endurance and lean body composition. Fitness ball exercises can help to improve and develop functionality and agility through strengthening weak muscles as well as core muscles. Students will learn to safely and effectively execute strengthening exercises for all the major muscle groups with and without hand weights, flexibility exercises and balancing exercises. Skill exams and written exams serve to evaluate student achievement. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 083 (same as FIRE 083) 2 or 2.5 Units**Fire Candidate Physical Fitness**

Course Advisories: SCC minimum English and math standards. Provides lifelong fitness knowledge to gain employment with a federal, state, county, city or special district fire agency. Provides certification with the Fire Service Joint Labor Management Wellness/Fitness Initiative "Candidate Physical Ability Test." Repeatable 3 times. *One hour lecture, and two to three hours activity.*

PE 091 .5, 1, or 1.5 Units**Adapted Back Rehabilitation**

Prerequisite: Permission of Disabilities Services Counselor confirming disability. Course Advisories: SCC minimum English and math standards. A specialized course in back rehabilitation that includes an individualized program focusing on the specific disability of each student. Individualized and group exercises will focus on functional motor control, balance, coordination, flexibility, developmental movement, individually developed exercises and strength and endurance for students with back injuries. There will be an emphasis on encouraging independence in personal health and teaching lifelong fitness knowledge and skills. Pre-tests and post-tests (written and practical) serve to evaluate student achievement. Repeatable 3 times. *One-half hour lecture plus one-half hours or one and one-half hour or two and one-half hours activity.*

PE 300 .5 or 1 Unit**Intramural Recreational Sports Program**

A sports program designed for college and high school individuals or teams. The program offers equal competition, and an organized schedule. There may be programs which require entry fees from individuals or teams. Fees will cover the cost of officials, score-keepers, and awards. Repeatable 3 times. *One or two hours activity.*

Physical Education

PE 310

.5, 1, or 1.5 Units

Peak Performance for Sports

A course designed to enable student-athletes to gain knowledge and training for peak performance. This is a credit/no credit only course. Repeatable 3 times. *One to three hours activity.*

Special Topics

These courses, number 048, 098 or 148 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Intercollegiate Athletics 2 Units

The Intercollegiate Athletic Program is governed by the California Community Colleges Commission on Athletics. Solano College is a member of the Bay Valley Conference and NorCal Football Conference and participates in a number of men's and women's intercollegiate sports.

To practice and participate student-athletes must present evidence from a physician that they are physically fit to participate in an intercollegiate athletic activity. To be eligible, student-athletes must be continuously enrolled in a minimum of 12 units during the semester of competition. For the second year of competition, the student-athlete must have completed 24 units between seasons of competition with a minimum of a 2.0 grade point average. All athletes must have an educational plan on file with the athletic counselor and must be enrolled in at least 9 of their 12 mandatory units toward their educational plan. Additional eligibility information may be obtained from the Athletic Director or respective Solano College coach. Each sport listed below may be repeated 2 times. *Ten hours lab.*

Men

ATHL 015 Intercollegiate Baseball (Spring)
ATHL *016A/016B Intercollegiate Basketball (F/S)
ATHL 017 Intercollegiate Football (Fall)

Women

ATHL 001 Intercollegiate Volleyball (Fall)
ATHL *002A/002B Intercollegiate Basketball (F/S)
ATHL 003 Intercollegiate Softball (Spring)
ATHL 004 Intercollegiate Soccer (Fall)

Men and Women

ATHL 010 Intercollegiate Swimming/Diving (S)
ATHL 020 Intercollegiate Water Polo (Fall)

*One unit, twelve week course only.

Math & Science Division

Program Description

The focus of this program is on developing an understanding of and appreciation for the basic laws of our physical universe. This is done largely through the development of conceptual understanding, problem solving skills, and laboratory investigations.

Associate in Science Degree

The Associate in Science Degree can be obtained by completing a total of 60 units, including the 29-33 unit major listed below with a grade of "C" (2.0) or better in each course, the general education requirements, and electives.

Required Courses

	Units	
PHYS 006—Physics for Science & Engineering	4	Biological Science: BIO 001, 002, 005, 006, 010, 012, 014, 015, 016, 018
PHYS 007—Physics for Science & Engineering	4	
PHYS 008—Physics for Science & Engineering	4	Physical Science: ASTR 010, 020, 030, 040 CHEM 001, 002, 003, 004, 005, 010, 011 GEOG 001, 001L GEOL 001, 002, 003, 004, 005 METR 010 PHYS 012
MATH 020—Analytic Geometry and Calculus	4	
MATH 021—Analytic Geometry and Calculus	4	
MATH 023—Differential Equations	3	
Biological Science course selected from the following list	3-5	
Physical Science course selected from the following list	<u>3-5</u>	
	29-33	

PHYS 002

4 Units**General Physics (Non-Calculus)**

Prerequisite: MATH 051 or MATH 004 with a grade of "C" or better. Course Advisory: SCC minimum English standard. PHYS 002 & 004, a two-semester sequence in introductory physics using math through trigonometry, is recommended for teachers, technicians, pre-dentistry, pre-medical, and biology majors, and others who need a general physics course. It covers the study of motion, energy, momentum, gravitation, solids, fluids, thermodynamics and the gaseous state, vibration, wave motion, and sound. Experiments relating to the topics covered will be performed and students will analyze the experiments. (CAN PHYS 2) (PHYS 002 & 004 = CAN PHYS SEQ A). *Four hours lecture/discussion, three hours lab.*

PHYS 004

4 Units**General Physics (Non-Calculus)**

Prerequisite: PHYS 002 with a grade of "C" or better. Course Advisory: SCC minimum English standard. PHYS 002 & 004, a two-semester sequence in introductory physics using math through trigonometry, is recommended for teachers, technicians, pre-dentistry, pre-medical, and biology majors, and others who need a general physics course. A study of electricity, magnetism, light and optics, and modern physics. Students learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed and students will analyze the experiments. (CAN PHYS 4) (PHYS 002 & 004 = CAN PHYS SEQ A). *Four hours lecture/discussion, three hours lab.*

The PHYS 006, 007, 008 sequence is a three-semester offering in introductory physics requiring math through calculus. This sequence satisfies the lower division physics requirement for majors in physics, chemistry, geology or other physical sciences, and engineering.

Physics

PHYS 006

4 Units

Physics for Science and Engineering

Prerequisite: MATH 021 (may be taken concurrently)

Course Advisory: high school physics, or PHYS 002 with a grade of "C" or better is HIGHLY recommended; SCC minimum English standard. A study of mechanics, gravitation, vibration and fluids. Students will learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed. (CAN PHYS 8). *Four hours lecture/discussion, three hours lab.*

PHYS 007

4 Units

Physics for Science and Engineering

Prerequisites: A grade of "C" or better in both PHYS 006 and MATH 021. Course Advisory: SCC minimum English standard. A continuation of PHYS 006, covering the topics of electricity, magnetism, wave motion and sound. Students will learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed. (CAN PHYS 12). *Four hours lecture/discussion, three hours lab.*

PHYS 008

4 Units

Physics for Science and Engineering

Prerequisites: A grade of "C" or better in both PHYS 006 and MATH 021. Course Advisory: SCC minimum English standard. A continuation of PHYS 006 and 007, covering heat, optics, relativity, and modern physics. Students will learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed and students will analyze the experiments. *Four hours lecture/discussion, three hours lab.*

PHYS 010

3 Units

Descriptive Physics

Course Advisories: MATH 102 or MATH 108; SCC minimum English standard. An introductory physics course for both the non-science and the beginning science student. Includes topics such as nuclear physics, relativity, mechanics, properties of matter, quantum physics, heat, light, electricity, and magnetism. Written assignments, tests, and a comprehensive final exam will be used to evaluate student success. *Three hours lecture.*

Political Science

Humanities Division

Program Description

This program examines the theory and practice of government and the powerful personalities that affect governmental decisions. This interplay of individual citizens, public leaders, elections, and world events make political inquiry relevant today. The program provides a broad base for the analysis of how government resolves social conflict within the United States and around the world.

Associate in Arts Degree

The Associate in Arts degree may be obtained upon completion of a total of 60 units, including the 18–unit major, general education requirements and electives.

Required Courses

	Units
PLSC 001—American Government OR PLSC 001H - Honors American Government	3
Select 15 units from the following:	15
IR 001—Global Interdependence (3 units)	
PLSC 002—Intro. to Comparative Political Systems (3 units)	
PLSC 003—Intro. to International Politics (3 units)	
PLSC 005—Constitutional Rights/Multicultural Society (3 units)	
PLSC 006—Basic Concepts in Political Thought (3 units)	
PLSC 016—American Legal System (3 units)	
PLSC 019—Human Rights & Sexual Orientation (3 units)	
PLSC 048—Special Topics (3 units)	
PLSC 049—Political Science Honors (1-3 units)	
PLSC 050—Student Leadership (1 unit)	—
	18

PLSC 001 **3 Units**
Introduction to American Government and Politics
Course Advisory: ENGL 001 and SCC minimum math standard. Introduction to the theory and practice of American politics, this course includes an analysis of the operation of national, state, and local governments, as well as the U.S. and California Constitutions. (CAN GOVT 2). *Three hours lecture.*

PLSC 002 **3 Units**
Introduction to Comparative Government
Course Advisories: PLSC 001; ENGL 001; SCC minimum math standard. The political institutions of selected industrialized and developing nations are examined comparatively. Emphasis is on the formation of political institutions; government; political culture; ethnic groups; citizen and interest participation; political parties; and modern bureaucratic public policy roles. *Three hours lecture.*

PLSC 005 **3 Units**
Constitutional Rights in a Multicultural Society
Course Advisories: PLSC 001; ENGL 001; SCC minimum math standard. Introduction to Constitutional rights, this course will highlight the impact of European, Native American, African American, Asian American, and Latino American cultures on United States and California law and government. The effect of the legislative, executive, and judicial branches will be explored. Cross-cultural issues will also be an integral part of this inquiry, including the freedom of expression, religious culture, and the politics of ethnic groups. Satisfies B or E requirements for graduation. *Three hours lecture.*

Political Science

PLSC 006

3 Units

Basic Concepts in Political Thought

Course Advisory: ENGL 001 or ENGL 062. An inquiry into fundamental political concepts in political thought (e.g. justice, freedom, equality, power, authority, obligation and citizenship) as expressed by major political thinkers. Includes the study of basic skills, criticism, and method in political inquiry relevant to the life and education of citizens. Critical reading and writing are required. *Three hours lecture.*

Special Topics

These courses, numbered 048 or 098, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

PLSC 016

3 Units

The American Legal System

Course Advisories: PLSC 001; ENGL 001; SCC minimum math standard. Introduction to the American legal system and influence of other legal systems, emphasizing the evolution of legal concepts in response to the changing environment. The American judicial system will be analyzed to include civil and criminal procedure, torts & contracts, as well as current legal issues including the death penalty, insanity defense, drugs, environmental law, right to die, forensic evidence and role of juries. *Three hours lecture.*

PLSC 019

3 Units

Human Rights and Sexual Orientation

Course Advisory: ENGL 001. An introduction to gay/lesbian studies with an analysis of a variety of concepts and theories in relation to political science, gay rights and the law, the politics of AIDS, health issues, the political/religious right, marriage and family, and current gay agenda issues. *Three hours lecture.*

PLSC 049

1-3 Units

Political Science Honors

Prerequisites: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 6 units in the discipline with a grade of "B" or better; an ability to work independently; permission of the division Dean based on instructor availability. Independent study project which results in a critical examination of government, politics, or law. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement.*

PLSC 050

1 Unit

Student Leadership

Course Advisories: SCC minimum English and math standards. A class devoted to the practical application of the governmental process through participation in the student government program. Open to all students. Repeatable 3 times. *Two hours activity, one hour weekly by arrangement weekly.*

Program Description

The psychology program provides academic instruction in basic psychological concepts, theories, terminology, and research methods, and promotes students' life skills, personal growth, and interpersonal effectiveness.

Associate in Arts Degree

The Associate in Arts Degree can be obtained by completing a total of 60 units, including the 18-unit major, general education requirements and electives.

Required Courses

	Units	OR	Units
PSYC 001 & 002—Intro. to Psych (3 & 3 units)	6	PSYC 065—Intro. to Psych of Aging	
PSYC 004—Research Methods in Behav'l Science		OR	
OR		SOCS 022-Ethnic, Racial, and Minority Group	
PSYC 030—Intro to Social Psych.	3	Relations in Harmony and Conflict	3
PSYC 020—Personal & Social Behavior		One other course from the above list	3
OR			18
PSYC 005—Abnormal Psychology			
OR			
PSYC 034—Human Sexual Behavior			
	3		
PSYC 010—Psych of Women			
OR			
PSYC 024—Psych of African-Amer.			

Recommended Electives:

ANTH 002
 BIO 005, 006, 010
 MATH 011
 PSYC 040, 049
 SOC 001
 SOCS 023

PSYC 001 3 Units

Introduction to Psychology: Individual & Social Processes

Course Advisories: SCC minimum English and math standards. Introduction to psychology as the scientific study of human behavior. Major topics include history of field, scientific method, sensation and perception, development, learning, cognitive skills, motivation, emotion, personality, tests and measurements, behavior disorders and treatment, and social psychology. *Three hours lecture.*

PSYC 001H 3 Units

Honors Introduction to Psychology -Individual and Social Processes

Prerequisites: Eligibility for Honors Program. Completion of English 001 with a grade of "B" or higher. An honors course in the introduction to psychology as the scientific study of human behavior. Major topics include history of field, scientific method, sensation, and perception, development, learning, cognitive skills, motivation, emotion, personality, tests and measurements, behavior disorders and treatment, and social psychology. *Three hours lecture.*

PSYC 002 3 Units

Introduction to Psychology: Biological Bases of Behavior

Course Advisories: SCC minimum English and math standards. Presents the relationship of genetic and physiological factors to behavior. Topics include neural mechanisms underlying sensory and perceptual processes, emotions, motivation, mental disorders, states of consciousness, learning and memory. (CAN PSY 2). *Three hours lecture.*

PSYC 004 3 Units

Research Methods in Behavioral Science

Prerequisites: PSYC 001 or PSYC 002 or SOC 001. Course Advisories: Eligibility for ENGL 001; MATH 011. Introduction to basic methods in the behavioral sciences. Assumptions and goals of science are considered as well as several specific research techniques or designs. The ethics of research with human and animal subjects will be covered. *Three hours lecture.*

Psychology

PSYC 005

3 Units

Abnormal Psychology

Prerequisite: PSYC 001. Course Advisories: ENGL 062, eligibility for ENGL 001, and SCC minimum math standard. Theoretical approaches to the explanation of psychological disorders. Survey of selected disorders in DSM IV, including psychoses, anxiety disorders, and depression. Survey of major therapeutic methods. *Three hours lecture.*

PSYC 010

3 Units

Psychology of Women

Course Advisory: PSYC 001. Study of contemporary women from a biological, psychological and sociological perspective. Theory and research pertaining to female development will be presented and critically examined. Open to all students. *Three hours lecture.*

PSYC 020

3 Units

Personal and Social Behavior

Course Advisories: SCC minimum English and math standards. Study of human behavior in the process of adjusting to life's changes. The emphasis is on normal and abnormal adaptations to the various challenges which life presents. Issues related to the major schools of thought and their views towards a healthy personality effective and ineffective behavior, behavioral disorders, psychotherapy, relationship, careers and personal growth. *Three hours lecture.*

PSYC 024

3 Units

Psychology of African Americans

Course Advisory: SCC minimum English standard. Examination of the principles and findings of psychology as they relate to the behavior and experience of African Americans. Emphasis upon theories and dimensions of personality, self-concept, normality, and the psychological effects of racism. *Three hours lecture.*

PSYC 030 (same as SOC 030)

3 Units

Introduction to Social Psychology

Course Advisories: PSYC 001; eligibility for ENGL 001; SCC minimum math standard. An attempt to understand and explain how the thoughts, feelings, and behavior of individuals are influenced by the actual, imagined, or implied presence of others. Focus will be on the social factors that influence human behavior; other people, institutions, situations and social and physical structures people have created. A review of the various perspectives unique to social psychologists and a variety of classical research studies will also be studied. *Three hours lecture.*

PSYC 034

3 Units

Human Sexual Behavior

Course Advisory: SCC minimum English standard. Objective exploration of the various issues pertaining to human sexual behavior from the perspective of the behavioral and social sciences. Some of the major topics to be discussed include history of sexuality, attitudes, behaviors, life styles, psychosexual development, role and identity, sexual dysfunctions, therapy and treatment. *Three hours lecture.*

PSYC 040

3 Units

Drugs, Society and Behavior

Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard. The course will cover the historical, sociological, psychological, physiological, pharmacological and legal aspects of drugs. Emphasis will be placed on the effects of stimulants, sedative-hypnotics, narcotics, hallucinogens, alcohol, marijuana and inhalants. Various education, prevention and treatment approaches will be discussed. *Three hours lecture.*

PSYC 049

1-3 Units

Psychology Honors

Prerequisites: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a grade of "B" or better; an ability to work independently; permission of the division Dean based on instructor availability. Independent study designed for honor students who intend to major in psychology. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement.*

PSYC 065

3 Units

Introduction to the Psychology of Aging

Course Advisories: SCC minimum English and math standards. Introductory course on the psychological aspects of aging covering the physical, emotional, sexual and intellectual processes that occur as an individual matures. The course is designed for those people who work with older adults, for aging individuals or those who must relate to aging adults and/or parents. *Three hours lecture.*

Special Topics

These courses, number 048 or 098 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Business & Computer Science Division

Program Description

This program offers courses needed to qualify for the state of California salesperson license examination as well as for the broker's examination. A full range of real estate courses is offered including real estate finance, appraisals, etc. The courses are taught by qualified real estate professionals.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained by completing the 24-unit major. The Associate in Science degree can be obtained by completing 60 units, including the major, general education requirements, and electives. The major consists of 18 units selected from the courses listed below plus 6 units selected from the list of recommended electives which have been approved by the California Department of Real Estate.

Required Courses

	Units	Recommended Electives:
R E 164—Principles of Real Estate (Not required for those holding Real Estate Sales License.)	3	ACCT 001 BUS 018 RE 176, 177
R E 171—Real Estate Economics OR ECON 001—Principles of Economics OR ECON 002—Principles of Economics	3	
R E 172—Real Estate Practice	3	
R E 173—Legal Aspects of Real Estate	3	
R E 174—Real Estate Finance	3	
R E 175—Principles of Appraisal	3	
Electives selected from the list of Recommended Electives	<u>6</u>	
	24	

Pre-Licensing Course

RE 164

3 Units

Real Estate Principles

Course Advisory: SCC minimum English and math standards. Study of the characteristics of real estate from physical, legal, and economic standpoints. Course material is designed to assist those preparing for the real estate salespersons and brokers license examination. *Three hours lecture.*

RE 172

3 Units

Real Estate Practice

Course Advisories: SCC minimum English and math standards. A comprehensive study of the techniques used to successfully operate a real estate business. Includes office management administration, in-service training of associate licensees, legal and statutory compliance, and agency and other oversights. Designed for students needing course for continuing education as required by the Department of Real Estate. *Three hours lecture.*

Post-Licensing Courses

RE 171

3 Units

Real Estate Economics

Course Advisories: SCC minimum English and math standards. Study of the economic aspects of real estate and their effects on real estate markets, urban growth and finance. Particular emphasis is made on governmental and agency controls on development of regional and local areas, past and future. *Three hours lecture.*

RE 173

3 Units

Legal Aspect of Real Estate

Course Advisories: SCC minimum English and math standards. Comprehensive study and analysis of California law as applied to the legal problems involved in real estate transactions. Includes contract, agency, and finance devices. *Three hours lecture.*

Real Estate

RE 174

3 Units

Real Estate Finance

Course Advisories: SCC minimum English and math standards. Comprehensive study and analysis of money markets, interest rates, and financing as applied to real estate transactions. *Three hours lecture.*

RE 175

3 Units

Principles of Appraisal

Course Advisories: SCC minimum English and math standards. Entry level appraisal course introducing students to basic appraisal principles, and the Uniform Standards of Professional Appraisal Practice. Content includes: Influences on value, legal considerations, economic principles, real estate markets and analysis, valuation process, property description, highest and best use analysis, appraisal statistics, sales comparison and cost approaches to value. *Three hours lecture.*

RE 176

3 Units

Advanced Residential Appraisal Practice

Prerequisite: RE 175. Course Advisories: SCC minimum English and math standards. Advanced appraisal course covering the principles, procedures and techniques needed to appraise all types of residential properties up to four units. The contents include: Review of basic appraisal principles, use of all Federal National Mortgage Association (FNMA) forms, basic income and expense estimating, gross rent multipliers, appraisal ethics and the Uniform Standards of Professional Appraisal Practice (USPAP). Student will appraise a custom home, a condominium and a small income residential property. *Three hours lecture.*

RE 177

3 Units

Income Property Appraisal and Analysis

Prerequisite: RE 175. Advanced appraisal course covering the principles, procedures and techniques needed to appraise commercial property, including large apartment buildings. The course content will include review of basic appraisal principles, income and expense estimating, operating expense ratios, direct capitalization, cash flow estimates, measures of cash flow and discounted cash flow analysis. The use of financial calculator will be required. *Three hours lecture.*

Program Description

This program is designed to provide students with a basic science background, preparing them to move into a curriculum at a four-year institution leading to a degree in such fields as chemistry, biology, physics, geology, or health sciences. This program is a path for immediate entry into science-based technology careers.

Associate in Arts Degree

The Associate in Arts Degree can be obtained by completing a total of 60 units, including a minimum of 18 units in the major with a grade of "C" (2.0) or better in each course, the general education requirements, and electives. The major consists of courses selected from the lists below and must include twelve (12) units in courses with laboratory work and at least one course in each of the areas Biological Science and Physical Science.

Required Courses

Biological Science

BIO 001*, 002*, 005*, 006*, 010*, 012, 012L*, 014*, 015*, 016, 018, 019*
ANTH 001

Physical Science

ASTR 010, 020*, 030, 040
CHEM 001*, 002*, 003*, 004*, 005*, 010*, 011*
GEOG 001, GEOG 001L*
GEOL 001, 002*, 003, 004*, 005
METR 010
PHYS 012*
PHYS 002*, 004*, 006*, 007*, 008*, 010

*Laboratory Class

Anthropology

ANTH 001

3 Units

Physical Anthropology

Course Advisory: SCC minimum English standard.

An introduction to physical anthropology covering evolutionary theory, human disease and genetics, human variation and adaptation, primatology, primate and hominid evolution. (CAN ANTH 2). *Three hours lecture.*

ANTH 002

3 Units

Cultural Anthropology

Course Advisory: SCC minimum English standard.

Introduction to the study of human culture, with an emphasis on the changing relations between individual people, families, and other social groups, and various types of social inequality. We will also study cultural institutions from around the world, such as religion and magic, political and economic change, varieties of art forms, and the cultural future. (CAN ANTH 4). *Three hours lecture.*

ANTH 007

3 Units

Prehistoric Archaeology

Course Advisory: SCC minimum English and math standards. An introduction to the theories and methods of anthropological archaeology, with an emphasis on and an overview of prehistory. This course will stress the evolution of social systems and technology. Case studies from around the world will illustrate the various ways archaeology deciphers past behavior. (CAN ANTH 6). *Three hours lecture.*

ANTH 049

2 Units

Anthropology Honors

Prerequisites: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a grade of "B" or better; an ability to work independently; and permission of the Division Dean based on instructor availability. Open to students qualified to do advanced work in the field. The program may include research, directed reading, field work, or other advanced study. Repeatable 1 time. *Six hours weekly by arrangement.*

Science, General

Astronomy

ASTR 010 **3 Units**

General Astronomy

Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard. An introductory study of the universe, including the properties and evolution of galaxies, stars, pulsars, black holes, quasars, the sun, planets, and life in the universe. *Three hours lecture.*

ASTR 020 **1 Unit**

Astronomy Laboratory

Prerequisites: ASTR 010, 030, or 040 (they may be taken concurrently). *Course Advisories: SCC minimum English and math standards.* Students will gain familiarity with the sky, telescopes, and other astronomical equipment. They will do experiments in physics related to astronomy. Topics will cover the moon, planets, stars, galaxies, and cosmology. *Three hours lab.*

ASTR 030 **3 Units**

The Solar System

Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard. An introductory study of solar system astronomy, the physics related to that astronomy, the planets and their moons, the sun, solar system debris, and the possibility of extraterrestrial life. *Three hours lecture.*

ASTR 040 **3 Units**

Stars, Galaxies, and Cosmology

Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard. An introductory study of stars, galaxies, the universe, and the physics related to these topics. This includes an examination of the facts relating to the sun, stellar lifetimes, supernovae, black holes, and cosmology. *Three hours lecture.*

Geography

GEOG 001 **3 Units**

Physical Geography

Course Advisory: SCC minimum English standard. An introductory study of Earth's natural environment. The course includes a detailed analysis of weather, geologic landforms, climate, natural vegetation, the oceans and other natural environmental elements. Special emphasis is given to the human impact on the environment. Includes a one-day field trip. (CAN GEOG 2). *Three hours lecture.*

GEOG 001L* **1 Unit**

Physical Geography Laboratory

Prerequisites: GEOG 001 (may be taken concurrently). *Course Advisories: SCC minimum English and math standards.* A lab course to supplement GEOG 001 (Physical Geography). Emphasis will be placed on using the skills and tools of modern physical geography and analyzing and interpreting geographic data. Maps, aerial photographs, satellite images, weather instruments and computer analysis are stressed. NOTE: One or more field trips are required and may occur outside of class time. *Three hours lab.* (*U.C. transferability pending.)

GEOG 002 **3 Units**

Cultural Geography

Course Advisory: Eligibility for ENGL 001. Introduction to humans and their impact on the land. This course includes a detailed evaluation of man's cultural world with special emphasis given to man's religions, political states, population problems, and economic systems. (CAN GEOG 4). *Three hours lecture.*

GEOG 004 **3 Units**

World Geography

Course Advisory: Eligibility for ENGL 001. Geographic study of the world's major regions. Special emphasis is given to the major problems confronting humanity in these regions including an analysis of population growth, hunger and poverty, modification and destruction of the natural environment, and natural resource and energy problems. *Three hours lecture.*

GEOG 010 (same as GEOL 010)

3 Units

Introduction To Geographic Information Systems

Course Advisories: SCC minimum English and math standards; basic computer literacy is desirable. Provides an in-depth introduction to the fundamentals of Geographic Information Systems (GIS). The course will include an introduction to basic cartographic principles including map scales, coordinate systems and map projections. Various applications of GIS technology used in science, business and government will also be presented. Specific topics covered in lectures will include an understanding of GIS terminology, raster and vector data structures, data sources and accuracy, methods of data acquisition, conversion and input, requirements for metadata, working with spatial data databases, and spatial analysis. The above topics will be reinforced in the laboratory with hands-on experience. NOTE: Not open to students who have completed GEOL 010. *Two hours lecture, three hours lab.*

Geology

GEOL 001 **3 Units**

Physical Geology

Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard. Presents a study of the composition of the earth and the processes responsible for its present characteristics. Topics covered include plate tectonics, rocks and minerals, volcanism, metamorphism, sedimentation, weathering, erosion, landforms, earthquakes, glaciers, and mineral resources. Field trips may be taken to areas of geological interest. A written research project, tests, and a comprehensive final examination will be used to evaluate student success. This course satisfies the physical science requirements for colleges and universities. (GEOL 001 & 002 = CAN GEOL 2 & GEOL 6). *Three hours lecture, plus field trips by arrangement.*

GEOL 002 **1 Unit**

Physical Geology Laboratory

Prerequisites: GEOL 001 or 005 (either may be taken concurrently). *Course Advisories: SCC minimum English and math standards.* Topics include the identification of rocks and minerals as hand specimen and the study of geologic maps, landforms, and structures. Field trips will be taken to areas of geologic interest. Laboratory projects, written assignments and reports, and examinations will be used to evaluate student success. (GEOL 001 & 002 = CAN GEOL 2). *Three hours lab and discussion, plus field trips by arrangement.*

GEOL 003 **3 Units**

Earth and Life Through Time

Course Advisories: Eligibility for ENGL 001, GEOL 001 or GEOL 005, and SCC minimum math standard. The study of the geologic history of the earth including stratigraphy, the evolution of the earth and its crust, organic evolution of life, fossils in the interpretation of the history of life, and the history of life from its beginning to historic times. Field trips will be taken to areas of geologic interest. (GEOL 003 & 004 = CAN GEOL 4)(CAN GEOL 8). *Three hours lecture, plus field trips by arrangement.*

GEOL 004 **1 Unit**

Earth and Life Through Time Laboratory

Prerequisites: GEOL 003 (may be taken concurrently). *Course Advisories: GEOL 001 and GEOL 002, SCC minimum English and math standards.* Practical application of the principles of historic geology including interpreting geological maps, fossil identification, and stratigraphy. Field trips to areas of geologic interest will be taken. (GEOL 003 & 004 = CAN GEOL 4). *Three hours lab and discussion, plus field trips by arrangement.*

GEOL 005 **3 Units**

Geology of California

Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard. An introductory course on the geology of California covering its geologic provinces, minerals (including gold), rocks, geologic hazards including earthquakes, and the development of scenic landscapes. Field trips will be taken to areas of geologic interest. *Three hours lecture.*

GEOL 010 (same as GEOG 10)

3 Units

Introduction To Geographic Information Systems

Course Advisories: SCC minimum English and math standards; basic computer literacy is desirable. Provides an in-depth introduction to the fundamentals of Geographic Information Systems (GIS). The course will include an introduction to basic cartographic principles including map scales, coordinate systems and map projections. Various applications of GIS technology used in science, business and government will also be presented. Specific topics covered in lectures will include an understanding of GIS terminology, raster and vector data structures, data sources and accuracy, methods of data acquisition, conversion and input, requirements for metadata, working with spatial data databases, and spatial analysis. The above topics will be reinforced in the laboratory with hands-on experience. NOTE: Not open to students who have completed GEOG 010. *Two hours lecture, three hours lab.*

GEOL 049H **1-3 Units**

Honors Geology

Prerequisites: Eligibility for the Honors program; GEOL 001 and 002 (either may be taken concurrently). *Course Advisory: Eligibility for ENGL 001.* Requires students to engage in an independent student project. The project may be a laboratory or field study or a library study that leads to a thesis. In all cases, the final written product should show integration and synthesis of ideas. *Three to nine hours weekly by arrangement.*

Science, General

Meteorology

METR 010

3 Units

Elements of Meteorology

Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard. A non-technical introduction to the science of meteorology and weather processes. Quizzes and tests and a comprehensive final exam will be used to evaluate student success. *Three hours lecture.*

Physical Science

PHYS 012

4 Units

Introduction to the Principles of Physical Science

Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard. An introduction to the physical universe from atomic particles to the stars, with emphasis on the basic principles of physics, chemistry, astronomy, and the geo-sciences. This is a general education course in the physical science area for non-science majors that satisfies the physical science requirement for most universities and colleges. *Three hours lecture, three hours lab.*

Special Topics

These courses, numbered 048 or 098 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Social Sciences

Fine & Applied Arts/Behavioral Sciences Division

Program Description

This program offers students the opportunity to study aspects of the human experience and the intricate relationship among them.

Associate in Arts Degree

The Associate in Arts Degree can be obtained by completing a total of 60 units, including the 18-unit major, general education requirements and electives. The 18-unit major is composed of courses selected from the six subject areas shown below.

Required Courses

	Units		Units
ANTH 001—Physical Anthro		PSYC 001—Intro. to Psych: Individual & Social Processes	
OR		OR	
ANTH 002—Cultural Anthro.	3	SOC 001—Sociology	
ECON 001—Principles of Economics	3	OR	
GEOG 001—Physical Geography		Any Social Science Ethnic Studies course that is not used to complete the above.	3
OR			18
GEOG 002—Cultural Geography			
OR			
GEOG 004—World Geography	3		
Any History OR American Studies Course	3		
PLSC 001—American Politics			
OR			
PLSC 006—Basic Concepts in Political Thinking			
OR			
PLSC 016—Law and Society	3		

Social Science

SOCS 022 3 Units Ethnic, Racial, and Minority Group Relations in Harmony and Conflict

Course Advisory: SCC minimum English standard.

Examination of the historical, economic, psychological, and sociological aspects of majority-minority group relationships (ethnic, racial and gender) in the United States and selected cross-cultural situations. *Three hours lecture.*

SOCS 023 3 Units The African-American Family

Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard. Analyze theory and research dealing with the modern African-American family, its structure, and functions. Course survey will include an examination of the historical changes, differing family patterns, and influences of contemporary society as it impacts the African-American family. Social policies will also be examined. *Three hours lecture.*

SOCS 025 3 Units Mexican-American Experience

Course Advisory: SCC minimum English standard.

Interdisciplinary examination of the historical, economic, psychological, and sociological aspects of the Mexican-American experience. *Three hours lecture.*

SOCS 026 3 Units Filipino-American Experience

Course Advisory: SCC minimum English standard.

Interdisciplinary examination of the historical, economic, political, and sociological aspects of the Filipino-American experience in the United States. Emphasis on various problems of assimilation. *Three hours lecture.*

SOCS 027 3 Units Native American Experience

Course Advisories: ENGL 001; SCC minimum math standard. Introduction to the diverse cultures of the Native American people of North, Central and South America. Emphasis is on Native American voices in the expression of cultural views and in the experience of conflicting values. *Three hours lecture.*

Social Sciences

SOCS 028

3 Units

Introduction to African Studies

Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard. Introduction to African studies, including African history, political development, culture and literature, economic issues and Africa's role in world affairs. *Three hours lecture.*

SOCS 030

3 Units

Peace, Non Violence and Conflict Resolution

Course Advisories: Eligibility for ENGL 001. Introduces the student to the study of peace, non violence and peaceful conflict resolution. The course is designed for students interested in the fundamental issues of peace, justice and conflict resolution in our society. It offers students an opportunity to reflect on the peace writings of both past and contemporary authors and is an examination of justice, peace and peacemakers, in the U.S. and worldwide. *Three hours lecture.*

SOCS 049

1-3 Units

Social Science Honors

Prerequisites: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a grade of "B" or better; an ability to work independently; permission of the division Dean based on instructor availability. Independent study designed for honor students who intend to major in social sciences. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement.*

SOCS 051

3 Units

Mediation

Course Advisories: Eligibility for ENGL 001. Introduces the student to the study of Mediation. This course is designed to provide students with the framework and analytical skills needed to conduct mediation. Emphasis is placed on the mediation process, the role of the mediator, communication skills and listening skills and the human dynamics of conflict. Mediation is a process by which parties submit their dispute to a neutral third party who works with them to reach a mutually agreeable settlement of their dispute. This course is beneficial for those persons pursuing Human Services, Business, Social Services, Speech and other majors that require analytical communication skills. The mediators role is to assist disputing parties in reaching peaceful resolutions to conflict. *Three hours lecture.*

Special Topics

These courses, numbered 048 or 098 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Sociology

SOC 001

3 Units

Sociology

Course Advisory: SCC minimum English standard. Introduction to sociology with analysis of a variety of concepts and theories in relation to culture, socialization, social inequality, race relations, sex roles, deviance, and the distribution of political and economic power. (CAN SOC 2). *Three hours lecture.*

SOC 002

3 Units

Social Issues & Problems

Course Advisories: SOC 001, SCC minimum English standard. Analysis of selected social problems, including race relations, urban decay, suburban sprawl, crime, population problems, environment, and changes in the familial, economic and political institutions. (CAN SOC 4). *Three hours lecture.*

SOC 023

3 Units

Sociology of African Americans

Course Advisories: SOC 001; Eligibility for ENGL 001; SCC minimum math standard. Introductory sociological study of African Americans. Emphasis will be on culture, community, social institutions, social relationships and social problems. *Three hours lecture.*

SOC 030 (same as PSYC 030)

3 Units

Introduction to Social Psychology

Course Advisories: PSYC 001; eligibility for ENGL 001; SCC minimum math standard. An attempt to understand and explain how the thoughts, feelings, and behavior of individuals are influenced by the actual, imagined, or implied presence of others. Focus will be on the social factors that influence human behavior; other people, institutions, situations and social and physical structures people have created. A review of the various perspectives unique to social psychologists and a variety of classical research studies will also be studied. *Three hours lecture.*

SOC 040**3 Units****Sociology of the Family**

Course Advisories: SOC 001 and ENGL 370.

Comparative cultural view of the family, the history of the family and its present role in our society with special emphasis on kinship relations, sex roles, ethnic variations of the family and alternative family styles.

Three hours lecture.

SOC 49**1-3 Units****Sociology Honors**

Prerequisites: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a grade of "B" or better; an ability to work independently; permission of the division Dean based on instructor availability. Independent study designed for honor students who intend to major in sociology. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement.*

SOC 049H**1-3 Units****Sociology Honors**

Prerequisites: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a grade of "B" or better; an ability to work independently; permission of the division Dean based on instructor availability. Independent study

SOC 075**3 Units****Introduction to Sociology of Sport**

(formerly SOC 021)

Course Advisories: SOC 001 or SOCS 022; Eligibility for ENGL 001. This course examines the nature, position, function, and growing importance of sports in contemporary industrial society. Particular emphasis is given to the relationships between structure, variety, and extent of sports activity and other sectors of society, such as, schools, churches and the work place. *Three hours lecture.*

Theatre Arts

(For Sociology - See "Social Sciences")
 (For Speech - See "Communication Studies")
 (For Sports Medicine/Fitness Science - See "Physical Education/Athletics")
 (For Television - See "Film & Television")

Fine & Applied Arts/Behavioral Sciences Division

Program Description

This program is designed to provide a foundation in theater arts for the student who wishes to enter the entertainment industry. Students may choose from two emphasis areas —Acting and Technical.

Associate in Arts Degree

The Associate in Arts Degree in Theatre Arts can be obtained by completing a total of 60 units, including the 18-unit major in one of the emphasis areas listed below, the general education requirements, and electives.

Required Courses

Acting Emphasis	Units	Technical Emphasis	Units
THEA 003—Stagecraft	3	THEA 001—Principles and Theory of Acting	3
THEA 004—Stage movement	2	THEA 003—Stagecraft	3
THEA 010—History of Theatre 1	3	THEA 010—History of Theatre 1	3
THEA 011—History of Theatre 2	3	THEA 011—History of Theatre 2	3
Seven units (7) in the following:			
THEA 033—Actor Training 4 (7 units)		THEA 020—Lighting	3
OR		THEA 047—Technical Production	3
THEA 001 (3 units) and THEA 002 (3 units),			18
AND		Recommended Elective:	
1 unit in any of the following:		THEA 013	
THEA 005, MUSC 022, THEA 047	7		
	18		

<p>THEA 001 3 Units</p> <p>Principles and Theory of Acting <i>Course Advisory: SCC minimum English standard.</i> Fundamentals of acting are presented and training is given in acting mechanics, pantomime, improvisation, and oral interpretation based on the comparison and analysis of plays and short scenes. (CAN DRAM 8). <i>Three hours lecture.</i></p>	<p>THEA 004 2 Units</p> <p>Stage Movement <i>Course Advisory: SCC minimum English standard.</i> Presents the fundamental principles of movement for the drama student including stage movement, character development and interrelationships, ensemble exercises and dramatic improvisation. <i>Four hours activity.</i></p>
<p>THEA 002 3 Units</p> <p>Principles and Theory of Acting <i>Prerequisite: THEA 001. Course Advisory: Eligibility for ENGL 001.</i> Presents the fundamentals of acting in greater depth, with emphasis placed on specific style of acting and the interpretation of structure, form, and style of plays as they relate to characterizations. <i>Three hours lecture.</i></p>	<p>THEA 005 1-3 Units</p> <p>Applied Drama <i>Prerequisite: Audition for actors only. Course Advisory: SCC minimum English standard.</i> Study, rehearsal and public performance of dramatic and comedic works for the stage which includes: classical plays, contemporary dramas and comedies, revues, poetry presentations, and one-acts. Students participate as actors, ensemble members in certain works, and/or accompanists. This is an open-entry, open-exit course. Repeatable to a maximum of 12 units, including initial enrollment. <i>One hour lab, two to eight hours weekly by arrangement.</i></p>
<p>THEA 003 3 Units</p> <p>Stagecraft <i>Course Advisory: SCC minimum English standard.</i> Presents the theory and practical application of procedures employed in technical theater, including safe use of stage equipment, construction and handling of scenery and properties, painting techniques and basic lighting. (CAN DRAM 12). <i>Two hours lecture, three hours lab.</i></p>	

THEA 006 Introduction to Theatre: Understanding Drama <i>Course Advisories: SCC minimum English and math standards.</i> Understanding and appreciation of both the distinctive and collaborative contributions of playwright, actor, director, and designer to the total work of dramatic art. Study of the plays from the major periods of dramatic art in their cultural contexts. Written exams and a paper are required. Audience oriented, non-performance course. <i>Three hours lecture.</i>	3 Units	THEA 011 History of Theatre 2 <i>Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard.</i> Presents the history of theatre from the Restoration to the present. Emphasizes the literature of theatre as affected by the society, culture, and politics during the period in which it was created. <i>Three hours lecture.</i>	3 Units
THEA 007 Directing <i>Prerequisites: THEA 002. Course Advisory: Eligibility for ENGL 001.</i> Introduction to the theory and practice of play direction which will culminate in the first-hand direction of a one-act play, to be publicly performed, in which all of the requisite directorial elements are synthesized. <i>Two hours lecture, three hours lab.</i>	3 Units	THEA 013 Diversity in American Theatre: A Contemporary Focus <i>Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard.</i> Introduction to American cultural diversity in theatrical performance, this course will study African-American, Asian-American and Latino (a) theatres, and theatrical representations including TV and film, supplemented by consideration of the social and political conditions impacting these works. Journals, exams, and scene performance or readings and oral reports or critical papers are required. <i>Three hours lecture.</i>	3 Units
THEA 008 Stage Makeup <i>Course Advisory: SCC minimum English standard.</i> Instruction, practice, and application of techniques of stage make-up. Emphasis is placed on role analysis as a basis for make-up design, principles of light and shade as they relate to the creation of youth and aging effects, integration and application of the principles of color usage as they relate to stage lighting and costumes. Also included is a study and comparison of various types of make-up and equipment, development of a make-up kit, special effects, the creation of wigs and moustaches and a survey of make-up fashions to be used in period productions. Repeatable 2 times. (CAN DRAM 14). <i>One hour lecture, three hours lab.</i>	2 Units	THEA 020 Lighting <i>Course Advisories: SCC minimum English and math standards.</i> Introductory course to the technical aspects of stage lighting. Instruction covers lighting equipment, color, electricity and the reading of lighting plots. Written exams, quizzes and a lighting project are required. (CAN DRAM 10). <i>Two hours lecture, three hours lab.</i>	3 Units
THEA 009 Stage Management <i>Course Advisories: SCC minimum English and math standards.</i> Duties, skills required, and the function of stage management are presented. Students will study the rehearsal process and environment, basic personnel management, union contracts, cueing, development of a prompt book, and performance systemics. A variety of written assignments related to stage management reporting and the development of a prompt book are required. <i>Three hours lecture.</i>	3 Units	THEA 021 Introduction to Theatre Design <i>Course Advisories: SCC minimum English and math standards.</i> Overview of the field of design in the entertainment arts is presented. A brief history of design, as well as style, conception, composition, design communication, and design integration are studied. This course will involve the study of design as it relates to the interpretation of play text and director concept, as well as how design is used in the interpretation and support of other types of entertainment. <i>Two hours lecture, two hours lab.</i>	3 Units
THEA 010 History of Theatre 1 <i>Course Advisories: SCC minimum English and math standards.</i> Presents the history of theatre from ancient Greece up to the Restoration. Emphasizes the literature of theatre as affected by the society, culture, and politics during the period in which it was created. <i>Three hours lecture.</i>	3 Units	THEA 030 Actor Training 1 <i>Corequisite: THEA 047. Prerequisite: Audition to be conducted by department faculty. Course Advisory: SCC minimum English standard.</i> An intensive acting study course which concentrates on the body as an instrument of communication, the acting process, sensory experience, spontaneity, objectives, vocal relaxation and centering, singing techniques for the actor, musical theatre score reading and musical theatre ballet. Students will begin to learn the integration of technical theatre in the performance. This course is offered only during the fall semester. Check the class schedule for specific information regarding audition dates and times. <i>Three hours lecture, thirteen hours activity.</i>	7 Units

Theatre Arts

THEA 031

7 Units

Actor Training 2

Prerequisite: THEA 030 with a grade of "C" or better.

Corequisite: THEA 047. An intensive acting study course which concentrates on the actor in relation to acting text, text breakdown and scoring, beats, textural analysis, American Realism, current play writing trends, diction and regionalism, musical theatre repertoire, sight reading of musical theatre scores, and musical theatre dance. Students will continue their preliminary studies of the total production concept, including scenery construction techniques for the novice. *Three hours lecture, thirteen hours activity.*

THEA 032

7 Units

Actor Training 3

Prerequisite: THEA 031 with a grade of "C" or better.

Corequisite: THEA 047. An intensive acting study course which concentrates on acting methodologies and styles, audition techniques, heightened realism, movement in clown, mime, and combat, musical theatre transitions, and American musical theatre tap dance. Students will develop an understanding of the various components of technical theatre including scenery and show operation. *Three hours lecture, thirteen hours activity.*

THEA 033

7 Units

Actor Training 4

Prerequisite: THEA 032 with a grade of "C" or better. Course Advisory: SCC minimum English standard. An intensive acting study course which concentrates on restoration, farce, commedia, and expressionism as acting styles, Shakespearean text and scansion for the actor, audition techniques as they relate to musical theatre and cold readings, as well as performance skills. Students will assimilate all areas of technical theatre into performance, including stage management responsibilities. *Three hours lecture, thirteen hours activity.*

THEA 047

1-3 Units

Technical Production

Course Advisory: SCC minimum English standard. A production course for students interested in technical theatre. Students are given an increasing level of responsibility in accordance with their individual abilities. Areas of responsibility may include: stage manager, lead carpenter, master electrician, lead grip, assistant lighting designer, scenic designer, lighting designer, assistant scenic designer. This is an open entry/open exit course. Repeatable to a maximum of 12 units, including initial enrollment. *Three hours lab, three to six hours weekly by arrangement.*

THEA 049

1-3 Units

Theatre Arts Honors

Prerequisite: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a grade of "B" or better; an ability to work independently; permission of the division Dean based on instructor availability.

Independent study course for proficient students of drama. Under a contractual arrangement between student and instructor, the student will pursue a specified course of independent but directed study. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement.*

THEA 050

3 Units

Performance for the Camera

Course Advisory: SCC minimum English standard. A professional approach to the basics of on-camera acting. Areas of concentration include commercials, public service announcements, corporate videos, news reporting, and feature films. The course includes an in-depth approach to careers in media with concentration on agents, casting directors, resumes, pictures and the necessary tools for building a life as an actor. *Three hours lecture.*

THEA 062

1-3 Units

Theatrical Costume Practicum

Course Advisories: SCC minimum English and math standards.

A practicum course that covers the fundamentals of costume construction and its integration into the theatre process. Each student will be given an increasing level of responsibilities in accordance with individual abilities. Areas of responsibility may include: Co-Costume Designer, Assistant Designer, Cutter, Tailor, First Hand, Stitcher, Milliner, Cobbler, Crafts Artisan, Wig/Hair Stylist, Make-up Artist, Wardrobe Supervisor or Dresser. Successful completion of the costume production process may culminate in a crew assignment. This is an open entry/open exit course. May be repeated to a maximum of 12 units, including initial enrollment. *Three hours lab, zero to six hours weekly by arrangement.*

THEA 105

1-3 Units

Solano Youth Theatre

Course Advisories: SCC minimum English and math standards.

The study and rehearsal of dramatic and comedic works for the stage, including classical plays, contemporary dramas and comedies, revues, and one-acts, with a special focus on the preparation of the beginning actor. Additional fees may be required for performance costumes and materials. Repeatable to a maximum of 12 units. *One hour lecture, two to eight hours weekly by arrangement.*

THEA 106

2 Units

Teen Touring Company

Prerequisite: THEA 105 and audition for actors only. Course Advisories: SCC minimum English and math standards. Teen Touring Company students will gain experience touring and performing material from the American Musical Theatre repertoire throughout Solano County. Through weekly rehearsals and varied performance opportunities, students acquire and practice the skills required of a "triple threat" (singing, dancing and acting) performer. Repeatable up to 12 units. *One hour lecture, two hours lab, and one and one-half hours weekly by arrangement.*

THEA 107

2 Units

Actor Training for Youth

Course Advisories: SCC minimum English and math standards. Following a conservatory structure, this acting course for youth concentrates on the body as an instrument of communication, the acting process, singing techniques for the actor, movement and dance. This 2 week intensive course allows for heavily concentrated focus on various world theatre styles, including but not limited to: Shakespeare, Chekov, and Asian Theatre. The class culminates in a workshop performance. Additional fees may be required for performance costumes and materials. Please call 707-863-7841 for more detail prior to enrolling in this course. Repeatable up to 12 units. *Ten hours lecture, twenty hours lab (2 week course).*

Special Topics

These courses, numbered 048, 098, or 148 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Water and Wastewater Technology

(For Tutoring - See "Counseling")

Career Technical Education Division

Program Description

A study of the principles of water and wastewater disposal and purification including municipal and industrial wastewater collection and treatment. The program will satisfy most of the requirements for certification of water and wastewater treatment personnel.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion of the 25 or 29 unit major. The Associate in Science Degree can be obtained upon completion of 60 units, including the major, the general education requirements, and electives.

Required Core Courses

	Units	
WATR 100—Intro. to WW Treatment	4	
WATR 102—Sanitary Chemistry I	4	
WATR 104—Intro. to Water Supply & Treatment	3	Recommended Electives:
WATR 105—Wastewater Treatment	3	WATR 120, 121
WATR 106—Instrumentation & Controls	3	OCED 090, 091
WATR 107—Math of WW Treatment	4	

Select from the following options:

Option 1

BIOT 160—Basic Concepts/Methods in Biotechnology

$\frac{4}{25}$

OR

Option 2

BIO 014—Principles of Microbiology

4

CHEM 10—Intermediate Chemistry

$\frac{4}{29}$

29

WATR 100

4 Units

Introduction to Wastewater Treatment

Course Advisories: SCC minimum English and math standards. Study of municipal and industrial wastewater collection and wastewater treatment methods, protection of ground water and receiving waters, and effects of pollutants on receiving waters. *Four hours lecture.*

WATR 102

4 Units

Sanitary Chemistry

Prerequisite: CHEM 160. Course Advisories: SCC minimum English and math standards. Study of the theory and demonstration of laboratory techniques for control tests of water purification. Emphasis is placed on process control including pH, chlorine residual, coliform, turbidity, BOD, solids, and interpretation of lab test results. Mandatory field trips will be taken to water treatment plants and water quality laboratories. *Four hours lecture.*

Water and Wastewater

WATR 104

3 Units

Introduction to Water Supply and Treatment

Course Advisories: SCC minimum English and math standards. Study of the elementary engineering aspects of design, operation, process control and maintenance of water treatment plants and facilities. *Two and one-half hours lecture, one and one-half hours lab.*

WATR 105

3 Units

Wastewater Treatment

Prerequisite: WATR 100. Course Advisories: SCC minimum English and math standards. Study of the elementary engineering aspects of design, operation process control, and maintenance of wastewater treatment plants and facilities. *Two and one-half hours lecture, one and one-half hours lab.*

WATR 106

3 Units

Instrumentation and Control

Course Advisories: SCC minimum English and math standards. Study of pneumatic, mechanical and electronic control systems and components. Includes a basic description and explanation of the operation of instruments and controls for water and wastewater plants. Typical performance characteristics, accuracy, and applications of instruments are studied. *Three hours lecture.*

WATR 107

4 Units

Mathematics of Water and Wastewater Treatment

Course Advisories: SCC minimum English and math standards. Study of hydraulics and calculations used in the design, operation, process control and the maintenance of treatment plants and facilities. *Four hours lecture.*

WATR 120

2 Units

Distribution Systems Maintenance

Course Advisories: SCC minimum English and math standards. Study of the operation and maintenance of water distribution systems covering the design, construction and the functioning of these systems. *Two hours lecture.*

WATR 121

2 Units

Collection Systems Maintenance

Course Advisories: SCC minimum English and math standards. Study of the operation and maintenance of wastewater collection systems covering the design, construction and functioning of these systems. *Two hours lecture.*

Special Topics

These courses, numbered 148, are courses of specialized interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

Welding

Career Technical Education Division

Welding, Industrial Technician

Program Description

Designed to upgrade the skills of persons employed as welders, providing advanced training in a variety of welding applications.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion of the 23-unit major listed below. The Associate in Science Degree can be obtained by completing a total of 60 units, including the major, general education requirements, and electives.

Certification of students as "Code Welders" is available at a nominal cost to the student.

Required Courses

	Units	Recommended Electives:
DRFT 079—Blueprint Reading	2	ECTN 101
IT 140—Industrial Materials	3	ENGL 051
Electives selected from the list below	<u>18</u>	IT 160
	23	OCED 090, 091
		WELD 174, 175, 176, 177

Select 18 units from the following (all 3-unit courses):

- WELD 120—Plate Welder (Basic)
- WELD 121—Plate Welder (Advanced)
- WELD 122—Pipe Welding (Basic)
- WELD 123—Pipe Welding (Advanced)
- WELD 124—Tungsten Inert Gas (Heliarc) Welding
- WELD 125—Metal Inert Gas/Arc (M.I.G.) Welding
- WELD 126—Ornamental Iron Welding

Welding Technician

Program Description

Designed to prepare the graduate for employment as a welder or a welder helper in the metal trades. The major types of welding covered are shielded arc, acetylene gas welding, metal inert gas, tungsten inert gas, automatic and semi-automatic welding machines.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion of the 48-unit major listed below. The Associate in Science Degree can be obtained by completing a total of 69 units, including the major and the general education requirements.

Certification of students as "Code Welders" is available at a nominal cost to the student.

Required Courses

	Units	
WELD 100—Welding Technology	10	Recommended Electives: ECTN 101, 102 IT 160 OCED 090, 091 WELD 174, 175, 176, 177
WELD 101—Welding Technology	10	
WELD 102—Welding Technology	10	
WELD 103—Welding Technology	10	
DRFT 079—Blueprint Reading	2	
IT 140—Industrial Materials	3	
IT 150—Industrial Processes	<u>3</u>	
	48	

Job-Direct Certificate Requirements

All courses must be completed with a grade of "C" or better.

Welding Equipment Operator

	Units
WELD 174—Weld Equipment Operation	2
WELD 175—Welding Fabrication	2
WELD 176—Shielded Arc Certification	2
WELD 177—Wire Welding Certification	2
*OCED 090—Occupational Work dExperience	<u>1</u>
	9

*Students will be required to complete 80 hours of cooperative supervised work experience to receive credit.

Welding

WELD 100

10 Units

Welding Technology

Course Advisory: SCC minimum English standard. Development of manual skills and related technical knowledge in arc and acetylene welding and burning; flat, horizontal, vertical and overhead positions; machine adjustments, rod identification and characteristics; joints metal expansion and contraction. *Five hours lecture, fifteen hours lab.*

WELD 101

10 Units

Welding Technology

Prerequisites: WELD 100 or comparable industry experience or training. Course Advisory: SCC minimum English standard. Designed to present the theory, procedures, and manipulative skills required to weld mild steel plate to code certification levels with the shielded metal arc and flux cored arc welding processes. A basic understanding of metallurgy, metals identification, layout, and welding of other metals is also presented. *Five hours lecture, fifteen hours lab.*

WELD 102

10 Units

Welding Technology

Prerequisites: WELD 101 or comparable industry experience or training. Course Advisories: SCC minimum English and math standards. Designed to present the theory, procedures, and manipulative skills required to weld metals of various thicknesses with the gas metal arc welding process. Introduces the student to the theory, procedures, and manipulative skills required to weld mild steel pipe to industrial standards. *Five hours lecture, fifteen hours lab.*

WELD 103

10 Units

Welding Technology

Prerequisites: WELD 102 or comparable industry experience or training. Course Advisory: SCC minimum English standard. Designed to present the theory, procedures and manipulative skills required to weld metals of various thicknesses with the gas tungsten arc process, as well as the theory, procedures and manipulative skills required to weld and fit pipe in all positions. *Five hours lecture, fifteen hours lab.*

WELD 112

1 Unit

Carpentry Apprentice Welding

Course Advisories: SCC minimum English and math standards. Provides introductory safety instruction and manipulative practice in the setup and use of oxy-acetylene and arc welding and cutting equipment. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned. *Twelve hours lecture, twenty-four hours lab (one week course).*

WELD 120

3 Units

Plate Welder (Basic)

Course Advisories: Successful completion of IT 110 or prior welding experience; SCC minimum English standard. Presents the theory, procedure and manipulative skills required to meet certification standards on one-inch plate using low hydrogen electrodes in the vertical position. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques earned. *Two hours lecture, three hours lab.*

WELD 121

3 Units

Plate Code Welder (Advanced)

Course Advisories: Successful completion of IT 110 or prior welding experience; SCC minimum English standard. Develops the principles taught in WELD 120, expanding the student's ability to weld one-inch thick certification plates in all positions with low hydrogen electrodes. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned. *Two hours lecture, three hours lab.*

WELD 122

3 Units

Pipe Welding (Basic)

Course Advisories: Successful completion of IT 110 or prior welding experience; SCC minimum English standard. Presents the theory, procedure, and manipulative skills required to meet certification standards on schedule 80 steel pipe in the horizontal fixed position. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned. *Two hours lecture, three hours lab.*

WELD 123

3 Units

Pipe Welding (Advanced)

Course Advisories: Successful completion of IT 110 or prior welding experience; SCC minimum English standard. Develops the principles taught in WELD 122, expanding the student's ability to weld pipe in all positions. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned. *Two hours lecture, three hours lab.*

WELD 124**3 Units****Gas Tungsten Arc Welding**

Course Advisories: Successful completion of IT 110 or prior welding experience; SCC minimum English standard. Presents the theory, procedures, and manipulative skills required to weld aluminum steel and stainless steel with the Gas Tungsten Arc process. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned. *Two hours lecture, three hours lab.*

WELD 125**3 Units****Gas Metal Arc Welding**

Course Advisories: Successful completion of IT 110 or prior welding experience; SCC minimum English standard. Presents the theory, procedures, and manipulative skills required to weld steel and aluminum with the gas metal arc process. Includes the manipulative skills required to weld with the flux cored arc process. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned. *Two hours lecture, three hours lab.*

WELD 126**3 Units****Ornamental Iron Welding**

Course Advisories: Successful completion of IT 110 or prior welding experience; SCC minimum English standard. Presents the theory, procedures, and manipulative skills required to fabricate and weld ornamental iron projects. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned. Repeatable 2 times. *Two hours lecture, three hours lab.*

WELD 174**2 Units****Welding Equipment Operation**

Course Advisories: SCC minimum English and math standards. Designed to acquaint students with the equipment and techniques used to safely perform welding operations. Students will learn to perform basic welding methods. *Four hours lecture, sixteen hours lab (4 week course).*

WELD 175**2 Units****Welding Fabrication**

Course Advisories: SCC minimum English and math standards. Designed to increase student knowledge and tactile skills with welding processes and related metal working equipment. *Four hours lecture, sixteen hours lab (4 week course).*

WELD 176**2 Units****Shielded Arc Certification**

Course Advisories: SCC minimum English and math standards. Designed to increase student knowledge and tactile skills to the level they can pass a certification test to certain Welding Codes using the Shielded Metal Arc process. Repeatable 2 times. *Four hours lecture, sixteen hours lab (4 week course).*

WELD 177**2 Units****Wire Welding Certification**

Course Advisories: SCC minimum English and math standards. Designed to increase student knowledge and tactile skills to the level they can pass a certification test to certain Welding Codes Specifications using wire processes. Repeatable 2 times. *Four hours lecture, sixteen hours lab (4 week course).*

WELD 500**Pass/No Pass-Only****Special Welding Problems**

Prerequisites: Permission of the instructor to verify room for special problems students. Designed to assist students who have sufficient background in welding fundamentals to pursue more independent studying in the area of their choice. The student works by arrangement with the instructor on an outlined program of study to achieve independent objectives. This is an open entry/open exit course. *Hours by arrangement as required.*

Special Topics

These courses, numbered 148, 248, or 548 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Specific information will vary with each course.