

SAN BERNARDINO COMMUNITY COLLEGE DISTRICT

TO: Board of Trustees  
FROM: Bruce Baron, Interim Chancellor  
REVIEWED BY: Dr. Debra S. Daniels, President, SBVC  
PREPARED BY: Dr. Larry Buckley, Vice President, Instruction SBVC  
DATE: May 19, 2011  
SUBJECT: Consideration of Approval of Curriculum - SBVC

RECOMMENDATION

It is recommended that the Board of Trustees approve the SBVC curriculum modifications.

OVERVIEW

The courses, certificates and degrees at SBVC are continually being revised and updated to reflect and meet student needs.

ANALYSIS

These courses, certificates and degrees have been approved by the Curriculum Committee of the Academic Senate and will be included in the 2011-2012 College Catalog.

BOARD IMPERATIVE

II. Learning Centered Institution for Student Access, Retention and Success

FINANCIAL IMPLICATIONS

None

SAN BERNARDINO VALLEY COLLEGE  
SUBMITTED FOR BOARD OF TRUSTEE APPROVAL  
May 19, 2011

MODIFY COURSES
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COURSE ID	COURSE TITLE
ACAD 100	STRATEGIES FOR COLLEGE SUCCESS

**Course ID:** ACAD 001

**Catalog Description:** This class introduces students to the college environment, its educational opportunities, college services, academic procedures and policies, including graduation and transfer requirements. College survival skills such as educational planning, goal-setting, learning styles, time management, and interpersonal skills are key components of this course. (Formerly ACAD 100)

**Schedule Description:** This class introduces students to the college environment, its educational opportunities, college services, academic procedures and policies, including graduation and transfer requirements. College survival skills such as educational planning, goal-setting, learning styles, time management, and interpersonal skills are key components of this course. (Formerly ACAD 100)

**Effective Date:** FA12

**Rationale:** Content Review

COURSE ID	COURSE TITLE
ADJUS 102	PRINCIPLES AND PROCEDURES OF THE JUSTICE SYSTEM

**Catalog Description:** This is a study of the role and responsibilities of each segment within the administration of justice system: law enforcement, judicial, and corrections. It includes a past and present exposure to each sub-system, procedures from initial entry to final disposition, and the relationship that each segment maintains with its system members.

**Schedule Description:** This is a study of the role and responsibilities of each segment within the administration of justice system: law enforcement, judicial, and corrections. It includes a past and present exposure to each sub-system, procedures from initial entry to final disposition, and the relationship that each segment maintains with its system members.

**Effective Date:** FA12

**Rationale:** Content Review

COURSE ID	COURSE TITLE
ADJUS 103	CONCEPTS OF CRIMINAL LAW

**Catalog Description:** This course is an introduction to common law, legal concepts, codes and their history, and the philosophy and development of U.S. criminal law.

**Schedule Description:** This course is an introduction to common law, legal concepts, codes and their history, and the philosophy and development of U.S. criminal law.

**Effective Date:** FA12

**Rationale:** Content Review

Curriculum Meetings: 04-04-11; 04-18-11

Conjoint Meeting: 04-25-11

Board of Trustees Meeting: May 19, 2011

MODIFY COURSES
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COURSE ID	COURSE TITLE
ADJUS 104	LEGAL ASPECTS OF EVIDENCE

**Catalog Description:** This course examines the origin, development, philosophy, and constitutional basis of the use of evidence. It also incorporates constitutional and procedural considerations affecting arrest, search and seizure, types of evidence, and rules governing admissibility, judicial decisions, and interpretation of individual rights. Case studies will also be covered in this class.

**Schedule Description:** This course examines the origin, development, philosophy, and constitutional basis of the use of evidence.

**Effective Date: FA12**

**Rationale:** Content Review

COURSE ID	COURSE TITLE
ADJUS 105	COMMUNITY RELATIONS

**Catalog Description:** This course examines the criminal justice agencies relationship with the diverse population it serves. Awareness of issues such as gender, racial, and sexual orientation are discussed including discrimination and hate crimes.

**Schedule Description:** This course examines the criminal justice agencies relationship with the diverse population it serves. Awareness of issues such as gender, racial, and sexual orientation are discussed including discrimination and hate crimes.

**Effective Date: FA12**

**Rationale:** Content Review

COURSE ID	COURSE TITLE
ART 100	ART HISTORY: THE STONE AGE TO THE MIDDLE AGES

**Departmental Advisories:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process

**Catalog Description:** The course is a survey of western art from the Stone Age to the Middle Ages. The course provides an overview of the art and architecture of the following periods: the Stone Age, Ancient Near East, Egypt, the Aegean, the Greek and Roman Empires, the Etruscans, the Byzantine Empire, the Medieval periods in Europe, Romanesque, and Gothic.

**Schedule Description:** The course is a survey of western art from the Stone Age to the Middle Ages. The course provides an overview of the art and architecture of the following periods: the Stone Age, Ancient Near East, Egypt, the Aegean, the Greek and Roman Empires, the Etruscans, the Byzantine Empire, the Medieval periods in Europe, Romanesque, and Gothic.

**Effective Date: FA12**

**Rationale:** Content Review

Curriculum Meetings: 04-04-11; 04-18-11

Conjoint Meeting: 04-25-11

Board of Trustees Meeting: May 19, 2011

MODIFY COURSES

COURSE ID	COURSE TITLE
ART 102	ART HISTORY: THE RENAISSANCE TO PRESENT

**Course Title:** Art History: Renaissance to Present

**Departmental Advisories:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process

**Catalog Description:** The course is a survey of western art from the Renaissance through the 21st Century. Topics covered include 15th and 16th century Italian art; Renaissance and Baroque art; the Rococo movement; Romanticism; Realism; Impressionism; Cubism; Surrealism and other styles of the 19th, 20th, and 21st centuries.

**Schedule Description:** The course is a survey of western art from the Renaissance through the 21st Century. Topics covered include 15th and 16th century Italian art; Renaissance and Baroque art; the Rococo movement; Romanticism; Realism; Impressionism; Cubism; Surrealism and other styles of the 19th, 20th, and 21st centuries.

**Effective Date:** FA12

**Rationale:** Content Review

COURSE ID	COURSE TITLE
ART 103	ART APPRECIATION

**Departmental Advisories:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process

**Catalog Description:** The course is an introduction to two- and three-dimensional art from a multicultural perspective. Art in a historical and worldwide context, the function of art in society, art processes, and visual vocabulary are examined. Students will develop an increased appreciation of the differences and similarities among the styles, content, and expression of world art.

**Schedule Description:** This course is an introduction to two- and three-dimensional art from a multicultural perspective. Art in a historical and worldwide context, the function of art in society, art processes, and visual vocabulary are examined.

**Effective Date:** FA12

**Rationale:** Content Review

COURSE ID	COURSE TITLE
ART 107	ART HISTORY: AFRICA, ASIA, THE AMERICAS, AND OCEANIA

**Departmental Advisories:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process

**Catalog Description:** The course provides a survey of art from Africa, Asia, the Americas, and Oceania. This includes an examination of the religious and social factors influencing art, artifacts, and architecture.

**Schedule Description:** The course provides a survey of art from Africa, Asia, the Americas, and Oceania. This includes an examination of the religious and social factors influencing art, artifacts, and architecture.

**Effective Date:** FA12

**Rationale:** Content Review

Curriculum Meetings: 04-04-11; 04-18-11

Conjoint Meeting: 04-25-11

Board of Trustees Meeting: May 19, 2011

MODIFY COURSES
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COURSE ID	COURSE TITLE
ART 108	MEXICAN ART HISTORY

**Course Title:** Art of Mexico and Mesoamerica

**Departmental Advisories:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process

**Catalog Description:** The course is a survey of Mexican and Mesoamerican art from Precolumbian times through the 21st century. Art will be evaluated and critiqued on historical content, subject matter, and aesthetics.

**Schedule Description:** The course is a survey of Mexican and Mesoamerican art from Precolumbian times through the 21st century.

**Effective Date:** FA12

**Rationale:** Content Review

COURSE ID	COURSE TITLE
ART 120	TWO-DIMENSIONAL DESIGN

**Catalog Description:** The course is an introduction to basic principles, components, and terminology of two-dimensional design common in the visual arts. Course topics include the principles of design, elements of design, color theory, and an exploration of the creative process.

**Schedule Description:** The course is an introduction to basic principles, components, and terminology of two-dimensional design common in the visual arts. Course topics include the principles of design, elements of design, color theory, and an exploration of the creative process.

**Effective Date:** FA12

**Rationale:** Content Review

COURSE ID	COURSE TITLE
ART 148	BEGINNING COMPUTER GRAPHICS

**Course Title:** Beginning Computer Graphic Design

**Catalog Description:** The course introduces students to the role of computer graphics in visual communication. The emphasis is on interaction of concepts, typography, layout, and images to produce print media. The fundamentals of applicable software are explored, with an emphasis on page layout software.

**Schedule Description:** The course introduces students to the role of computer graphics in visual communication. The fundamentals of applicable software are explored, with an emphasis on page layout software.

**Effective Date:** FA12

**Rationale:** Content Review

Curriculum Meetings: 04-04-11; 04-18-11

Conjoint Meeting: 04-25-11

Board of Trustees Meeting: May 19, 2011

MODIFY COURSES
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COURSE ID	COURSE TITLE
ART 149	INTERMEDIATE COMPUTER GRAPHICS

**Course Title:** Intermediate Computer Graphic Design

**Catalog Description:** This intermediate level course examines the role and application of computer graphics in visual communication, with an emphasis on more complex computer skills and design problems. Career goals are explored and students develop portfolios in digital and print formats.

**Schedule Description:** This intermediate level course examines the role and application of computer graphics in visual communication, with an emphasis on more complex computer skills and design problems. Career goals are explored and students develop portfolios in digital and print formats.

**Effective Date:** FA12

**Rationale:** Content Review

COURSE ID	COURSE TITLE
ART 161	DIGITAL PHOTOGRAPHY

**Catalog Description:** This introductory course focuses on photography as a creative medium. Emphasis in the course is on aesthetics, composition, content, technical and creative skills required to make effective images using digital cameras and computer software. Students also critically evaluate photographic images according to the principles of photographic theory. Students will supply their own camera.

**Schedule Description:** This introductory course focuses on photography as a creative medium. Emphasis in the course is on the creative skills required to make effective images using digital cameras and computer software. Students will supply their own camera.

**Effective Date:** FA12

**Rationale:** Content Review

COURSE ID	COURSE TITLE
BIOL 100	GENERAL BIOLOGY

**Prerequisites:** ENGL 015 or eligibility for ENGL 101 as determined by the SBVC assessment process and MATH 942 or eligibility for MATH 952 as determined by the SBVC assessment process

**Catalog Description:** This is an introductory course for non-majors emphasizing the scientific method in investigating the origins, physiology, ecological roles, and comparative characteristics of living organisms.

**Schedule Description:** This is an introductory course for non-majors emphasizing the scientific method in investigating the origins, physiology, ecological roles, and comparative characteristics of living organisms.

**Effective Date:** FA12

**Rationale:** Content Review

Curriculum Meetings: 04-04-11; 04-18-11

Conjoint Meeting: 04-25-11

Board of Trustees Meeting: May 19, 2011

MODIFY COURSES
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COURSE ID	COURSE TITLE
BIOL 140	BIOLOGY OF SEXUALLY TRANSMITTED DISEASES

**Departmental Advisories:** ENGL 015 or eligibility for ENGL 101 or ENGL 101H as determined by the SBVC assessment process

**Catalog Description:** This course is an examination of the social, economic, psychological, medical and legal issues surrounding sexually transmitted diseases. The topics include the pathogenesis, diagnosis and treatment of prominent sexually transmitted diseases including the impact of current biotechnology on vaccine development, treatment and diagnostics. The historical and changing attitudes and measures toward the control of sexually transmitted diseases will be reviewed.

**Schedule Description:** This course is an examination of the social, economic, psychological, medical and legal issues surrounding sexually transmitted diseases. The topics include the pathogenesis, diagnosis and treatment of prominent sexually transmitted diseases including the impact of current biotechnology on vaccine development, treatment and diagnostics. The historical and changing attitudes and measures toward the control of sexually transmitted diseases will be reviewed.

**Effective Date: FA12**

**Rationale:** Content Review

COURSE ID	COURSE TITLE
ENGL 125x2	LITERARY MAGAZINE PRODUCTION

**Lecture:** 2 contact hour(s) per week  
32 - 36 contact hours per semester

**Laboratory:** None

**Prerequisite:** ENGL 914 or eligibility for ENGL 015 as determined by the SBVC assessment process

**Catalog Description:** Students in this course are responsible for production of the college literary magazine including selecting material, creating the style and look, formatting, typesetting, and layout.

**Schedule Description:** Students in this class are responsible for the production of the college literary magazine including selecting material, creating the style and look, formatting, typesetting, and layout.

**Effective Date: FA12**

**Rationale:** Content Review

COURSE ID	COURSE TITLE
MATH 222	INDEPENDENT STUDY IN MATHEMATICS

**Catalog Description:** Students with previous course work in mathematics may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of mathematics. Prior to registration, a written contract must be jointly prepared by the instructor and the student.

**Schedule Description:** Students with previous course work in mathematics may do assigned projects involving research and analysis of selected topics. This independent study is for students who are interested in furthering their knowledge of mathematics. Prior to registration, a written contract must be jointly prepared by the instructor and the student.

**Effective Date: FA12**

**Rationale:** Content Review

Curriculum Meetings: 04-04-11; 04-18-11

Conjoint Meeting: 04-25-11

Board of Trustees Meeting: May 19, 2011

MODIFY COURSES
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COURSE ID	COURSE TITLE
MATH 250	SINGLE VARIABLE CALCULUS I

**Prerequisite:** MATH 151 or eligibility for MATH 250 as determined through the SBVC assessment process  
**Catalog Description:** This is a first course in calculus, including limits, continuity, derivatives of algebraic and transcendental functions, applications of derivatives, antiderivatives, definite integrals and their applications.  
**Schedule Description:** This is a first course in calculus, including limits, continuity, derivatives of algebraic and transcendental functions, applications of derivatives, antiderivatives, definite integrals and their applications.  
**Effective Date: FA11**  
**Rationale:** Content Review

COURSE ID	COURSE TITLE
MATH 251	SINGLE VARIABLE CALCULUS II

**Catalog Description:** This second course in calculus provides further application of definite integrals, differentiation and integration of transcendental functions, techniques of integration, L'Hopital's rule and improper integrals, infinite sequences and series, Taylor and power series.  
**Schedule Description:** This second course in calculus provides further application of definite integrals, differentiation and integration of transcendental functions, techniques of integration, L'Hopital's rule and improper integrals, infinite sequences and series, Taylor and power series.  
**Effective Date: FA11**  
**Rationale:** Content Review

COURSE ID	COURSE TITLE
MATH 252	MULTIVARIABLE CALCULUS

**Catalog Description:** This third course in calculus includes vectors, lines, and simple surfaces in three-dimensional space, some linear algebra topics, vector-valued functions, partial derivatives, multiple integrals, line integrals and Green's Theorem, surface integrals and the theorems of Gauss and Stokes.  
**Schedule Description:** This third course in calculus includes vectors, lines, and simple surfaces in three-dimensional space, some linear algebra topics, vector-valued functions, partial derivatives, multiple integrals, line integrals and Green's Theorem, surface integrals and the theorems of Gauss and Stokes.  
**Effective Date: FA11**  
**Rationale:** Content Review



MODIFY COURSES

COURSE ID	COURSE TITLE
MATH 265	LINEAR ALGEBRA

**Units:** 4  
**Lecture:** 4 contact hour(s) per week  
 64 - 72 contact hours per semester

**Prerequisite:** MATH 250

**Catalog Description:** This course provides an introduction to linear algebra that complements advanced courses in calculus. Topics include systems of linear equations, matrix operations, determinants, vectors and vector spaces, eigenvalues and eigenvectors, and linear transformations.

**Schedule Description:** This course provides an introduction to linear algebra that complements advanced courses in calculus. Topics include systems of linear equations, matrix operations, determinants, vectors and vector spaces, eigenvalues and eigenvectors, and linear transformations.

**Effective Date:** FA11

**Rationale:** Content Review; Due to the level and quantity of material covered in this course, the department increased the units from three to four.

COURSE ID	COURSE TITLE
MATH 266	ORDINARY DIFFERENTIAL EQUATIONS

**Units:** 4  
**Lecture:** 4 contact hour(s) per week  
 64 - 72 contact hours per semester

**Catalog Description:** This course provides an introduction to differential equations that complements advanced courses in calculus. Topics include first-order differential equations and applications, linear differential equations and some applications of second order linear differential equations, linear systems, an introduction to series solutions and the Laplace transform.

**Schedule Description:** This course provides an introduction to differential equations that complements advanced courses in calculus. Topics include first-order differential equations and applications, linear differential equations and some applications of second order linear differential equations, linear systems, an introduction to series solutions and the Laplace transform.

**Effective Date:** FA11

**Rationale:** Content Review; Due to the level and quantity of material covered in this course, the department increased the units from three to four.

Curriculum Meetings: 04-04-11; 04-18-11

Conjoint Meeting: 04-25-11

Board of Trustees Meeting: May 19, 2011

MODIFY COURSES

COURSE ID	COURSE TITLE
PE/T 116x4	TEAM SPORTS ACTIVITIES: SOCCER

**Catalog Description:** This course will provide instruction in the skills, techniques, strategies, etiquette and rules of soccer at beginning, low intermediate, high intermediate, and advanced levels of performance. With the application of these techniques and practice, students will improve their overall fitness and develop life-long behavioral skills. This course may be taken four times.

**Schedule Description:** This course will provide instruction in the skills, techniques, strategies, etiquette and rules of soccer at beginning, low intermediate, high intermediate, and advanced levels of performance. With the application of these techniques and practice, students will improve their overall fitness and develop life-long behavioral skills. This course may be taken four times.

**Effective Date: FA12**

**Rationale:** Content Review

COURSE ID	COURSE TITLE
READ 015	PREPARATION FOR COLLEGE READING

**Catalog Description:** This course is designed to foster general reading improvement with an emphasis on reading comprehension and vocabulary. The required laboratory practice assignments are based on diagnostic tests, which identify strengths and weaknesses on reading comprehension and vocabulary.

**Schedule Description:** This course is designed to foster general reading improvement with an emphasis on reading comprehension and vocabulary. The required laboratory practice assignments are based on diagnostic tests, which identify strengths and weaknesses on reading comprehension and vocabulary.

**Effective Date: FA12**

**Rationale:** Content Review

COURSE ID	COURSE TITLE
WST 074	WATER/WASTEWATER ANALYSIS

**Prerequisites/Corequisites:** CHEM 110 and WST 072 or WST 092

**Catalog Description:** This course examines fundamentals of laboratory analysis with an emphasis on chemical and microbiological procedures used by water and wastewater plant operators. The course includes procedures and techniques used in physical, chemical, and bacteriological examination of water/wastewater.

**Schedule Description:** This course examines fundamentals of laboratory analysis with an emphasis on chemical and microbiological procedures used by water and wastewater plant operators.

**Effective Date: FA12**

**Rationale:** CHEM 110 and WST 092 are offered only in the spring semester. The department modified the prerequisite to prerequisite/corequisite to enable students to complete certificate requirements in a reasonable time.

Curriculum Meetings: 04-04-11; 04-18-11

Conjoint Meeting: 04-25-11

Board of Trustees Meeting: May 19, 2011

## DELETE COURSES

**HUMSV 160**  
**SPEECH 110**

**Effective Date: FA12**

**Rationale:** These courses are no longer offered.

## DISTRIBUTED EDUCATION

<b>ACAD 100</b>	<b>100% ONLINE</b>
<b>ART 100</b>	<b>100% ONLINE</b>
<b>ART 102</b>	<b>100% ONLINE</b>
<b>ART 103</b>	<b>100% ONLINE</b>
<b>ART 107</b>	<b>100% ONLINE</b>
<b>BIOL 100</b>	<b>HYBRID</b>
<b>BIOL 140</b>	<b>100% ONLINE</b>
<b>READ 015</b>	<b>100% ONLINE</b>

**Effective Date: FA12**

**Rationale:** One of the planning themes of San Bernardino Valley College (SBVC) is access. For career technical courses, the issue of scheduling is crucial. Students working the night shift can only take class in the morning while those working traditional day schedules can only take evening classes. Given these variables and difficult schedules, students need the flexibility of time that an online class affords. An asynchronous online class allows students to study when their schedules allow and where they have the space and materials to do so effectively. The online delivery method of these courses supports the mission of SBVC by providing access to education to a diverse community of learners who find themselves in a community with complicated lives and difficult and demanding schedules and responsibilities.

Curriculum Meetings: 04-04-11; 04-18-11

Conjoint Meeting: 04-25-11

Board of Trustees Meeting: May 19, 2011

**Sociology Associate of Arts Transfer Degree (AA-T) A.A. Degree Major**

Sociology is both a scientific and humanistic discipline. Sociologists examine the systems of social action including single social acts, social relationships, organizations, institutions, communities, and societies. Through analyses of society, its groups, institutions, and processes, sociologists attempt to understand and predict human behavior. The study of sociology prepares students for further study of and careers in social work, probation, corrections, human services, law enforcement, research, public policy, law and education.

Students planning to transfer to a four-year institution and major in sociology should consult with a counselor regarding the transfer process and lower division requirements.

***Completion of CSU GE-Breadth or IGETC for the UC or CSU is required in addition to the major requirements listed below.***

## REQUIRED COURSES

## LIST A

		<b>Units</b>
SOC 100	Introduction to Sociology	3
	<b>or</b>	
SOC 100H	Introduction to Sociology - <b>Honors</b>	3
SOC 110	Contemporary Social Issues	3
ECON 208	Business and Economics Statistics	4
	<b>or</b>	
MATH 108	Introduction to Probability and Statistics	4
	<b>or</b>	
PSYCH 105	Statistics for the Behavioral Sciences	3

## CHOOSE TWO COURSES FROM LIST B BASED ON TRANSFER CSU

## LIST B

		<b>Units</b>
SOC 130	Marriage and the Family	3
SOC 135	Sociology of Crime and Deviance	3
SOC 141	Race and Ethnic Relations	3
SOC 145	Sociology of Gender	3
SOC 150	Sociology of Aging and the Life Course	3

**CONTINUED....**

Curriculum Meetings: 04-04-11; 04-18-11

Conjoint Meeting: 04-25-11

Board of Trustees Meeting: May 19, 2011

CHOOSE ONE COURSE FROM LIST C BASED ON TRANSFER CSU OR AN ADDITIONAL COURSE FROM LIST B

LIST C

		<b>Units</b>
ADJUS 101	Introduction to Administration of Justice	3
ANTHRO 102	Cultural Anthropology	3
ENGL 102	Intermediate Composition and Critical Thinking	4
	<b>or</b>	
ENGL 102H	Intermediate Composition and Critical Thinking - <b>Honors</b>	4
PHIL 102	Critical Thinking and Writing	3
	<b>or</b>	
PHIL 103	Introduction to Logic: Argument and Evidence	3
PSYCH 100	General Psychology	3
	<b>or</b>	
PSYCH 100H	General Psychology - <b>Honors</b>	3
SOC 120	Health and Illness in Society	3
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<b>Total Units</b>		<b>18 - 20</b>

**Effective Date: FA11**

**Rationale:** With approval of the Sociology Associate of Arts Transfer Degree (AA-T) A.A. Degree Major, SBVC will be compliant with Education Code 66745 Student Transfer Achievement Reform Act.

Curriculum Meetings: 04-04-11; 04-18-11

Conjoint Meeting: 04-25-11

Board of Trustees Meeting: May 19, 2011

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**Mathematics Associate of Science for Transfer (AS-T) A.S. Degree Major**

The Associate of Science for Transfer (AS-T) in Mathematics is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus.

Students planning to transfer to a four-year institution and major in mathematics should consult with a counselor regarding the transfer process and lower division requirements.

***Completion of CSU GE-Breadth or IGETC for the UC or CSU is required in addition to the major requirements listed below:***

<b>REQUIRED CORE COURSES:</b>		<b>Units</b>
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4
MATH 252	Multivariable Calculus	5
 <b>CHOOSE TWO COURSES (BASED ON TRANSFER CSU):</b>		 <b>Units</b>
CS 190	Programming in C++	4
MATH 265	Linear Algebra	4
MATH 266	Ordinary Differential Equations	4
<b>Total Units</b>		<b>21</b>

**Effective Date: FA11**

**Rationale:** With approval of the Mathematics Associate of Science for Transfer (AS-T) A.S. Degree Major, SBVC will be compliant with Education Code 66745 Student Transfer Achievement Reform Act.