Ventura County Grand Jury
# 2011 - 2012
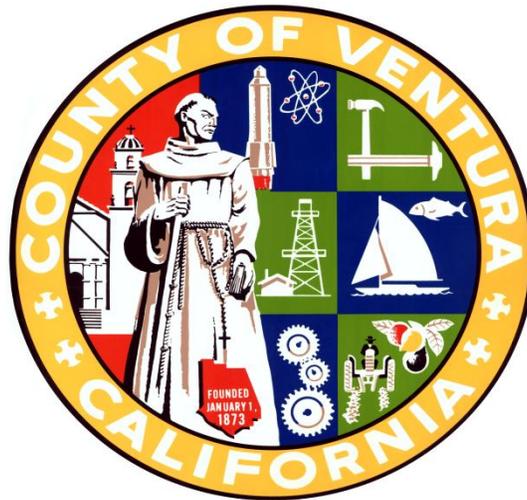
Final Report

Educational Inconsistencies Within the VCCCD

June 5, 2012

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Educational Inconsistencies Within the Ventura County Community College District

Summary

The 2011-2012 Ventura County Grand Jury (Grand Jury), pursuant to its responsibility for government oversight, elected to look into the methods and systems of the organization of curricula of the Ventura County Community College District (VCCCD or District).

There are approximately 35,500 students within the VCCCD campuses (Moorpark, Oxnard, and Ventura Colleges). The reduction of state funding caused a loss of over $11 million to the District's budget. The District's response to this deficit was to eliminate classes, programs, and employees. Students need to attend two or three campuses to achieve full-time status (12 units or more). The side effects of this reduction have resulted in the rationing of classes. This also has required many students to navigate through all three colleges of the District.

The Grand Jury interviewed administrators and employees of the VCCCD, researched newspapers, educational reports, and legislation with respect to consistency of information being presented to VCCCD students. The Grand Jury collected data from VCCCD community college catalogues to assess specific inconsistencies.

The Grand Jury found a failure on the part of the Board of Trustees in establishing a policy of consistency across the District.

The Grand Jury found that the three colleges of the VCCCD have different nomenclature, which causes confusion for students, parents, taxpayers, and at times, faculty. The Grand Jury found that the Articulation Agreements between VCCCD colleges and the California State Universities (CSU) are not consistent across all of the VCCCD campuses. They are not consistent with the University of California (UC) Articulation Agreement between the colleges and the universities. The Grand Jury found insufficient number of counselors at VCCCD.

The Grand Jury recommends that the Board of Trustees of the VCCCD establish a policy of consistency among the colleges for course nomenclature, number of units, and student assessment; the Board of Trustees to implement the counselor-to-student ratio proposed by the Academic Senate of California Community Colleges.

Background

The VCCCD has been forced to reduce their annual budget by more than $11 million. This deficit has caused the VCCCD to cut classes, programs, and personnel. Discussions with VCCCD officials caused the Grand Jury to investigate educational inconsistencies within their course nomenclature, articulation forms, and assessments.

The Los Angeles Times reported, "California's budget crisis has led to soaring tuition and cutbacks at every level, with tens of thousands of students who can't get the classes they need are being turned away from community colleges." The governing board of the State's 112 community colleges recently approved a broad set of reforms intended to help students obtain Certificates, Associate's Degrees, and to transfer to four-year colleges and universities.

The VCCCD is required to meet the Mission of the California Community Colleges (Ed. Code § 66010.4). It is, in part: "The mission . . . the California Community Colleges shall, as a primary mission, offer academic and vocational instruction at the lower division level for both younger and older students, including those persons returning to school. . . . In addition to the primary mission of academic and vocational instruction, the community colleges shall offer instruction and courses to achieve all of the following: . . . remedial instruction . . . instruction in English as a second language . . . adult non-credit instruction . . . and support services . . . ."

Methodology

The Grand Jury interviewed employees of the VCCCD Chancellor's office, researched newspapers, educational reports, and legislation with respect to consistency of information being presented to VCCCD students. The Grand Jury collected data from VCCCD community college catalogues to assess specific inconsistencies.

Data was gathered from the college catalogues and websites as well as from interviews with personnel of all three Ventura County Community Colleges. The Grand Jury focused on program inconsistencies for the Certificate, Associate of Arts/Associate of Science Degrees, along with the Articulation Agreements for the University of California and the California State Universities. The Grand Jury also evaluated the existing VCCCD assessment documents.

Facts

FA-01. The colleges of VCCCD are currently on probation and threatened with loss of accreditation from the Accrediting Commission of Community and Junior Colleges, due in part, to lack of proper District governance. The Accreditation of the VCCCD colleges is vital to every student for units, degrees, and the ability to transfer to not only articulated colleges and universities, but to all accredited institutions in the United States. [Ref-5]

FA-02. Each of the VCCCD Colleges has certificate programs. A certificate is awarded to students who have successfully completed a minimum of 18–36 units in an occupational curriculum. Each of the colleges has a different numbering system. For example: Moorpark, Oxnard, and Ventura have a course called, "Child, Family and Community," for a Certificate in Child Development. According to their respective

catalogues, this course has the same unit value at each college; however, the nomenclature is different. (Table 1) [Ref-01–03] (Att-01)

Campus	Course Number	Units
Moorpark	CDM03	3
Oxnard	CDR106	3
Ventura	CDV61	3

Table 1: Certificate in Child Development Course Name: "Child, Family and Community"

FA-03. Each of the VCCCD colleges awards Associate of Arts Degrees and Associate of Science Degrees. Associate Degrees are awarded to students who have successfully completed a minimum of 60 semester units in general education courses with at least 18 units in one curriculum area. Each of the three colleges has different Associate Degree General Education Courses. The numbering systems for courses under the Associate Degree program are different. For example: the "Financial Accounting" course for the Associate in Business Degree is different in course numbering and number of units across the colleges. (Table 2)

Campus	Course Number	Units
Moorpark	BUSM02A	3
Oxnard	ACCTR101	3
Ventura	Bus V03 +V01B	3-4

Table 2: Associate in Business Course Name: "Financial Accounting" [Ref-01–03] (Att-02)

FA-04. Each of the VCCCD colleges has separate Articulation Agreements, Transfer Admission Agreements (TAA), or Transfer Admission Guarantee (TAG) to the California State University system. The TAA/TAG is a contract of understanding as to the General Breadth Requirements (39 units or more in specific "areas") among a community college, a participating four-year university and the student. This guarantees that upon completion of the conditions of the Agreement the student will be admitted to the CSU system for the agreed term of enrollment. Oxnard College chose to represent this "partnership" as a TAG where the other two colleges use TAA. Under normal conditions, it is necessary for a student to contact a counselor to determine eligibility and begin the TAA/TAG process. [Ref-01–03] (Att-03)

FA-05. The Articulation Agreements establish the necessary "General Breadth Courses" that are required to satisfy the lower division. Across the colleges of VCCCD the general breadth courses have inconsistent numbering and courses articulated. For example, a course taken at Moorpark may not be included in Oxnard articulation. There are six general breadth "Areas": English Communication, Mathematical Concepts and Quantitative Reasoning, Arts and Humanities, Social and Behavioral

Sciences, Physical and Biological Sciences, and Language other than English. The "areas'" names are the same for each of the three colleges; however, course numbers and course choices differ. [Ref-01–03] (Att-03)

FA-06. Each of the VCCCD Colleges has an Articulation Agreement and an Intersegmental General Education Transfer Curriculum (IGETC) with the University of California system that provides clear access to the CSU and UC system. The IGETC is a general education program that community college transfer students can use to fulfill lower division general education/breadth requirements (39 units or more in a specific "area") for either the California State University or the University of California systems without the need, after transfer, to take additional lower division general education courses. It is necessary that a student understand the process or contact a counselor to determine eligibility and begin the Articulation Agreement. [Ref-01–04] (Att-04–05)

FA-07. The Academic Senate of California Community Colleges proposed changes to 08.02, Title 5, of the California Education Code to define the minimum number of counseling faculty to be based on a ratio of 1 to 370 (counselor to students). Currently the ratio at VCCCD is as illustrated in Table 3. [Ref-06]

VCCD Fall 2011	**Oxnard**	**Moorpark**	**Ventura**
Full-Time Counselors	6	12	13
Total number of students	7,440	15,385	13,763
Number of students per Counselor	1,240	1,282	1,059

Table 3:   VCCCD Counselor-Student Ratios

FA-08. Students frequently change colleges or are enrolled at one, two, or three campuses within one semester making inconsistencies confusing. Each of the VCCCD colleges has its own nomenclature (numbering and course identification system) and the number of units, which differ. For example: "College Algebra" at Moorpark is Math M05, Oxnard Math R115, and Ventura Math V04. (Table 4) [Ref-01–03] (Att-06)

Campus	**Course Number**	**Units**
Moorpark	Math 05	3
Oxnard	Math R115	3
Ventura	Math V04	4

Table 4: Mathematics Course Name: "College Algebra"

FA-09. It is necessary that students be assessed as to their level of knowledge prior to taking college courses. Each of the VCCCD colleges has developed its own assessment tools. Moorpark has English Self Placement, developed by the Moorpark English Department. They also have Mathematics Self-Placement, developed by the Mathematics Department. Oxnard College uses the Compass assessment that was developed by Joliet Junior College in Illinois. Ventura College uses the College Tests for English Placement (CTEP) for English and the CSU/UC Mathematics Diagnostic Testing Project (MDTP) for math. [Ref-01-03]

FINDINGS

FI-01. The Certificate programs at each of the VCCCD colleges differ in nomenclature for no apparent reason (Course numbering system). (FA-02)

FI-02. The Associate of Arts and the Associate of Science Degrees at each of the VCCCD colleges vary in nomenclature and in some cases unit value assigned to the same courses. The Grand Jury finds no apparent reason for these differences. (FA-03)

FI-03. The Articulation Agreement for the California State University system at each of the VCCCD colleges varies in nomenclature for no apparent reason. (FA-04–05)

FI-04. The Articulation Agreement for the University of California (IGETC) system at each of the VCCCD colleges varies in nomenclature used for no apparent reason. (FA-05–06)

FI-05. The nomenclature is different for many courses with similar content across the VCCCD colleges for no apparent reason. (FA-08)

FI-06. The VCCCD does not reflect the student/counselor ratio as proposed by the Academic Senate for California Community Colleges. (FA-07)

FI-07. The Grand Jury finds that there is an inconsistency in the Assessment Program across the three colleges of the VCCCD. (FA-09)

FI-08. Students entering the VCCCD are facing obstacles to pursuing higher education by the inconsistencies within the administration of the academic programs of the District. (FA-02–09)

FI-09. The inconsistencies in the education programs across the VCCCD indicate a failure in governance with respect to the Board of Trustees. (FA-01–06, FA-08-09)

Recommendations

R-01. That the VCCCD Board of Trustees establish a policy that courses with the same content have the same nomenclature and unit value across the VCCCD. (FI-01–FI-05)

R-02. That the VCCCD Board of Trustees establish a policy that nomenclature and unit value be consistent for all the general education breadth

requirements associated with Certificates and AA/AS Degrees and, likewise, for articulated transfer courses, for CSU and UC systems. (FI-02–FI-05)

R-03. That the VCCCD Board of Trustees establish a policy that each college in the VCCCD system use the same assessments for English/reading and math with the same placement outcomes. Skills assessment tests must represent the entire VCCCD. (FI-07)

R-04. That the VCCCD Board of Trustees adopt the Academic Senate of California Community Colleges' recommendation for counselor-to-student ratio. (FI-06)

Responses

Responses Required From:

Ventura County Community College District Board of Trustees (FI-01–FI-07) (R-01–R-04)

Responses Requested From:

Chancellor, Ventura County Community College District (FI-01–FI-07)　(R-01-R-04)

President of Moorpark College (FI-01–FI-07) (R-01–R-04)

President of Oxnard College (FI-01–FI-07) (R-01–R-04)

President of Ventura College (FI-01–FI-07) (R-01–R-04)

President of the Academic Senate Moorpark College (FI-01–FI-07)　(R-01–R-04)

President of the Academic Senate Oxnard College (FI-01–FI-07)　(R-01–R-04)

President of the Academic Senate Ventura College (FI-01–FI-07)　(R-01–R-04)

References

Ref-01. Moorpark College, Catalog, staff, 2011-2012, Moorpark, California, Moorpark College 2011-2012, April 19, 2012

Ref-02. Oxnard College, Catalog, staff, 2011-2012, Oxnard, California, Oxnard College 2011-2012, April 19, 2012

Ref-03. Ventura College, Catalog, staff, 2011-2012, Ventura, California, Ventura College 2011-2012, April 19, 2012

Ref-04. Asimov, Nanette, State Community Colleges Set To Ration Classes, San Francisco Chronicle, December 25, 2011, 12/28/2011.

Ref-05. Cowden Moore, Jean. "Junior Colleges Put on Probation." Ventura County Star, February 7, 2012.

Ref-06. Academic Senate for California Community Colleges 08.02, Title 5, Changes to Include counselor to student Ratio, Spring 2010, Stephanie Dumont, Presenter, Sacramento, California, April 10,2012.

Attachments

Att-01. Child Development Certificates at Moorpark, Oxnard and Ventura Colleges

Att-02. Associate of Science Degree in Business at Moorpark, Oxnard and Ventura Colleges

Att-03. General Education Requirements for an AA/AS Degree at Moorpark, Oxnard and Ventura Colleges

Att-04. California State University General Education Breadth Courses at Moorpark, Oxnard and Ventura Colleges

Att-05. Intersegmental General Education Transfer Breadth Curriculum at Moorpark, Oxnard and Ventura Colleges.

Att-06. College Algebra Math Courses at Moorpark, Oxnard and Ventura Colleges.

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Fain, Paul, California Community College Task Force Pushes Big Changes, Inside Higher Ed. , October 24, 2011, 10/26/2011

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Chea, Terence, AP, Community College Policy Changes Target Grad Rates, The Star, Wednesday, January 11, 2012.

Disclaimer

This report is issued by the 2011-2012 Ventura County Grand Jury. Due to a potential conflict of interest, a member of this Grand Jury was excused from participating in any aspect of the production of this report.

Glossary

TERM	DEFINITION
"Areas" 1–6	General education breadth areas: English Communication, Mathematical Concepts and Quantitative Reasoning, Arts and Humanities, Social and Behavioral sciences, Physical and Biological Sciences, and Language other than English
Articulation Agreement	A formal written agreement specifying which courses at one college are accepted in lieu of courses at another college or university
Assessment Test	Test given to students prior to registration for classes in English and Math to evaluate skills. The results are used to help students select appropriate class level
Associate Degree	A degree granted by a community college recognizing a student's satisfactory completion of an organized program of study of at least 60 semester units, including a major or area of emphasis, general education, and other graduation requirements
Breadth Requirements	Specific educational course requirement to make a student's education well rounded
Certificate	A certificate awarded which recognizes a student's satisfactory completion of an organized program of study
Consistency	Webster dictionary defines consistency as ". . . the condition of holding together . . . agreement with what has already been done, agreed on, or expressed; conformity with previous practice."
CSU	California State University
District	Ventura County Community College District
ESL	English as a second language
Full-time Student	A student enrolled in a minimum of 12 units for a regular semester
Grand Jury	2011-2012 Ventura County Grand Jury

Nomenclature	The name and numbering system assigned to each class to identify the course in the schedule of classes and the catalogue
UC	University of California
VCCCD	Ventura County Community College District

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Attachment 01

Child Development Certificates at Moorpark, Oxnard and Ventura Colleges

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Chemistry   Child Development

CHEM M12 – 5 Units
Introductory Chemistry I
Prerequisites: MATH M01 or equivalent
Class Hours: 4 lecture, 3 lab

Introduces basic principles of chemistry with reference to measurement, chemical nature of matter and energy, and atomic theory. Also presents the chemical concepts of elements and compounds, the periodic table, bonding, molecular structure, nomenclature, chemical reactions, equations, and calculations. Students cannot complete both CHEM M12 and CHEM M12H courses because credit will only be awarded to the first course completed. Applies to Associate Degree. Transfer credit: CSU; UC

CHEM M12H – 5 Units
Honors: Introductory Chemistry I
Prerequisites: MATH M01 or equivalent
Class Hours: 4 lecture, 3 lab

Introduces basic principles of chemistry with reference to measurement, chemical nature of matter and energy, and atomic theory. Also presents the chemical concepts of elements and compounds, the periodic table, bonding, molecular structure, nomenclature, chemical reactions, equations, and calculations. Honors work challenges students to be more analytical and creative through expanded assignments, real-world applications and enrichment opportunities. Students cannot complete both CHEM M12 and CHEM M12H courses because credit will only be awarded to the first course completed. Applies to Associate Degree. Transfer credit: CSU; UC

CHEM M13 – 5 Units
Introductory Chemistry II
Prerequisites: CHEM M11 or CHEM M12 or CHEM M12H or equivalent college course
Class Hours: 4 lecture, 3 lab

Introduces fundamental concepts of general chemistry including kinetics, equilibria, pH, thermodynamics, electrochemistry, and nuclear chemistry. Covers topics in organic and biochemistry including structure, nomenclature, and reactions of organic compounds and metabolism of carbohydrates, lipids, proteins, enzymes, and nucleic acids. Applies to Associate Degree. Transfer credit: CSU; UC (no credit if taken after CHEM M07A/CHEM M07B)

CHEM M22A/B – 0.5 to 3 Units
Independent Studies in Chemistry
Prerequisites: A previous course in Chemistry
Class Hours: 1 to 3 as arranged

Allows an independent project (approved by instructor and dean) to expand knowledge of chemistry through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of six (6) units. Applies to Associate Degree. Transfer credit: CSU; UC (determined after admission)

CHEM M80 – 1 to 4 Units
Internship in Chemistry
Prerequisites: Completion of or concurrent enrollment in one course in the discipline
Class Hours: 3 to 33 work experience hours as arranged

Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Career Transfer Center, (805) 378-1536. May be taken for a total of four (4) times for credit. (Same course as WEXP M20.) Applies to Associate Degree. Transfer credit: CSU

Child Development
Program Purpose: Students who complete Child Development courses will be able to apply concepts of child growth and development from conception through adolescence within the family and cultural context. Students who complete the Child Development program will develop both the knowledge of subject matter and professional skills that enable them to work in the Early Education and Family Development fields.

Dean
Julius Sokenu, Phone (805) 378-1445

Full-time Faculty
Kristi Almeida-Bowin, Cynthia Sheaks-McGowan

Counselors
Anitra Evans

Degree, Certificate of Achievement and Permit Options in Child Development
The Child Development program prepares students for an Associate in Science degree with a major in Child Development and for completion of certificates of achievement in Preschool, Infant/Toddler or School Age Teacher, Family Child Care Provider or Early Intervention Assistant. Students may also complete coursework leading to Child Development permits granted by the California Commission on Teacher Credentialing. Through the study of Child Development, students develop both knowledge of subject matter and skills that are needed to pursue future academic and vocational goals.

To earn an Associate in Science Degree with a major in Child Development, students complete 26 specified units, plus General Education Degree Requirements, for a total of 60 units.

Required Courses	Units
CD M01 ....Introduction to Careers in ECE 1.0
CD M02 ....Human Development 3.0
CD M03 ....Child, Family and Community 3.0
CD M04 ....Observation and Assessment..2.0
CD M04L ....Observation and Assessment Laboratory.............................1.0
CD M05 ....Equity Issues in ECE..3.0
CD M11 ....Programs: Early Childhood Education 3.0
CD M12 ....Student Teaching Practicum 2.5
CD M12L ....Student Teaching Practicum Laboratory.............................1.5
CD M14 ....Introduction to Curriculum 3.0
CD M23 ....Health, Safety, and Nutrition for Children.........................3.0
TOTAL 26.0

See General Education Degree Requirements and Transfer Information.

CHILD DEVELOPMENT

The Child Development program offers classes in English and Spanish that combine lecture and lab activities. These courses prepare students who are interested in working with young children including those seeking certification to work in a day care facility. Students may learn to plan nurturing educational environments and activities that enhance children's emotional, cognitive and physical development.

A four stage matrix guides career preparation in accordance with California State licensing standards. At Oxnard College, students may complete a certificate program that prepares them for employment as an Assistant Teacher in a public day care facility and complete additional courses in child development and general education to qualify as a Teacher. An Associate of Science degree with a major in Child Development is available that prepares them for other career options. Areas of specialization include Diversity, Infant/Toddlers and Special Needs. Stipends for study may be available through grants and programs such as the First Five Initiative.

For more information, contact:
Elvia Rivero, Lead Faculty, Child Development,
  erivero@vcccd.edu
(805) 986-5800, ext. 2041
Kim Karkos, Director/Coordinator Child Development
  Center, kkarkos@vcccd.edu
(805) 986-5800, ext. 7620

Career Opportunities

Teacher Aide	Family Childcare Provider
Instructional Aide	Nanny
Preschool Teacher	Program Site Supervisor
Infant/Toddler Specialist	School Age Teacher
Cruise Ship Childcare Provider	
Early Childhood Program Director	

Faculty

Full-Time
Patricia Mendez
Elvia Rivero

◆ Child Development

Associate in Science Degree
Certificate of Achievement

A student who successfully completes the 24 units in Child Development may provide service in the care, development and instruction of children in a child care and development program, and supervise teacher aides and teacher associates degree holders. This certificate is in accordance with the Child Development Permit Matrix and the Early Childhood Education Competencies by the California Department of Education.

Required Courses:		Units
CD R100	Introduction to Curriculum for the Young Child	3
CD R102	Human Development	3
CD R103	Programs for Young Children	3
CD R106	Child, Family, and Community	3
CD R107	Cross-Cultural Experiences with Children and Families	3
CD R111	Child Development Principles and Practicum I	3
CD R112	Child Development Principles and Practicum II	3
CD R129	Child Nutrition, Health, and Safety	3
	Total Required Units	**24**

Recommended elective courses for the Associate in Science Degree:

All Associate Degrees require a minimum of 60 units, comprised of the major, general education and electives as necessary to complete the 60 units. The Child Development department recommends the courses below to satisfy any electives required to complete the Associate in Science Degree in Child Development.

CD R108	The Exceptional Child	3
CD R113	Programs for Infants and Toddlers	3
CD R118	Infant/Toddler Theory of Practice	3
CD R131	Art in Early Childhood	3
CD R132	Science in Early Childhood	3
CD R133	Language Arts in Early Childhood	3
CD R134	Movement and Music in Early Childhood	3

Program Student Learning Outcomes

Upon successful completion of the Child Development program students will be able to:

- Students will be able to analyze major developmental milestones for children from conception through adolescence in the areas of physical, psychosocial, cognitive, and language development using standard research methodologies.

- Students will differentiate characteristics of typical and atypical development at various stages.

- Design, implement and evaluate environments and activities that support positive developmental play and learning outcomes for all young children.

- Apply effective guidance and interaction strategies that support all children's social learning, identity and self confidence.

Child Development Courses

CD R100—Introduction to Curriculum for   3 units
                the Young Child

3 hours lecture weekly
This course offers an introduction to the curriculum that is developmentally appropriate for young children. The students will learn the design and implementation of lesson plans and the development of activities that are based on sound child development practices and that are based on observation and assessment of children from birth to five years. The course covers curriculum areas along with organization of materials and resources. Negative TB test or chest x-ray required. Field trips may be required. (2)
Transfer credit: CSU

CD R102—Human Development   3 units
3 hours lecture weekly
This course offers an introduction to the history, the philosophies that support early childhood development and the methods that are used to educate children in their primary years. Requirements and opportunities are explored in Early Childhood Education through both private and public child care centers. Curriculum areas are also covered, along with organization of materials and resources. Teaching techniques based upon an understanding of the young child as an active learner socially, physically, emotionally, and cognitively are examined. Field trips may be required and a negative TB test or chest X-ray is required.
Transfer credit: UC, CSU

Associate in Science Degree
Certificate of Achievement

CHILD DEVELOPMENT

Transfer requirements may differ
See counselor or consult assist.org

REQUIRED COURSES:		Units
CD V01	Introduction to Careers in Child Development	1
CD V02	Child Growth and Development	3
CD V05	Teaching in a Diverse Society	3
CD V24	Child Nutrition, Health and Safety	3
CD V61	Child, Family and Community	3
CD V62	Introduction to Programs in Early Childhood Education	3
CD V63	Introduction to Curriculum in Early Childhood Education	3
CD V64A	Practicum in Early Childhood Education: Observation and Assessment	3
CD V64B	Practicum in Early Childhood Education: Field Experience	3

REQUIRED ADDITIONAL COURSES:
Select three (3) units from the following courses:

CD V11	Language and Literacy in Early Childhood Education	3
CD V14	Creative Arts in Early Childhood Education	3
CD V19	Math and Science in Early Childhood Education	3
CD V28	Programs for Infant and Toddler Care	3
		28

Successful completion of specific Child Development courses fulfills the Early Childhood (ECE) requirements for the California Department of Social Services, Title 22 regulations, to work in licensed childcare settings. In addition, successful completion of specific Child Development courses fulfills the education requirements for a Child Development permit. Permits are offered by the California Commission on Teacher Credentialing at the following levels: Assistant, Associate Teacher, Teacher, Master Teacher, Site Supervisor, and Program Director. Additional general education units are required in English/Language Arts; Math or Science: Social Studies; Humanities and/or Fine Arts for Teacher, Master Teacher, and Site Supervisor permits and specializations. See the Child Development faculty for further information about Title 22 requirements or the Child Development permits.

COURSE DESCRIPTIONS

CD V01 - INTRODUCTION TO CAREERS IN CHILD DEVELOPMENT - 1 Unit
Hours: 1 lecture weekly
This course focuses on the array of career and education options in the field of child development. Sources of career information, educational support services, the Child Development Permit Matrix, and exploration of careers, including teaching, counseling, and working with children and families, will be covered.

CD V02 - CHILD GROWTH AND DEVELOPMENT - 3 Units
Hours: 3 lecture weekly
This course examines the major developmental milestones of children, both typical and atypical, from conception through adolescence. Physical, psychosocial and cognitive development are studied with an emphasis on the interactions between maturational processes and environmental factors including language, culture, and diversity. Students will observe children, evaluate individual differences, and analyze characteristics of development at various stages while studying developmental theory and investigative research methodologies.
Field trips may be required. Transfer credit: CSU; UC; credit limitations - see counselor.

CD V03 - HUMAN DEVELOPMENT - 3 Units
Hours: 3 lecture weekly
This course integrates the physical, social, psychological, emotional and cognitive aspects of human development throughout the lifespan. Developmental tasks facing individuals at various points in the lifespan are examined. The course will also explore the ways social interaction and cultural institutions shape the development of the individual including relationships and adjustments during the normal stages of family living.
Formerly HEC V24. Transfer credit: CSU; UC; credit limitations - see counselor.

CD V05 - TEACHING IN A DIVERSE SOCIETY - 3 Units
Hours: 3 lecture weekly
This course examines the development of social identities in diverse societies including theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms, and teaching. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. The course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling.
Field trips may be required. Transfer credit: CSU.

CD V09 - FIELD WORK: CHILD DEVELOPMENT - 1 Unit
Prerequisite: current negative TB test report
Recommended preparation: enrollment in one additional course in the discipline
Hours: 3 laboratory weekly
This course provides supervised laboratory and field experience for students interested in developing their skills of observation and working with children from infancy through school age. Students may work with children at the Ventura College Child Development Center or in an approved community setting with a master teacher. This course provides hours needed to meet the requirements of the California Child Development Permit.
Field trips may be required. May be taken for a maximum of 4 times.

CD V11 - LANGUAGE AND LITERACY IN EARLY CHILDHOOD EDUCATION - 3 Units
Recommended preparation: CD V62 and CD V63
Hours: 3 lecture weekly
This course is an in-depth study of current research and best teaching practices that promote the development of children's literacy skills and language acquisition. It emphasizes developmentally appropriate learning experiences, curriculum materials, and literature for both native English speakers and English language learners.
Field trips may be required. Formerly CD 11.

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Attachment 02

Associate of Science Degree in Business at Moorpark, Oxnard and Ventura Colleges

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Biotechnology

Business

BIOT M50A – 0.5 Unit
Bridge to Biotechnology
Prerequisites: None
Class Hours: 1.5 lab

Designed as a bridge for entry-level and high school students who are interested in exploring the field of biotechnology. Students will develop practical, hands-on experience with laboratory techniques used in the field of biotechnology. The specific techniques will vary depending on the current state of technology. Applies to Associate Degree.

BIOT M80 – 1 to 4 Units
Internship in Biotechnology
Prerequisites: Completion of or concurrent enrollment in one course in the discipline
Class Hours: 3 to 33 work experience hours as arranged

Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Career Transfer Center, (805) 378-1536. May be taken for a total of four (4) times for credit. (Same course as WEXP M20.) Applies to Associate Degree. Transfer credit: CSU

Broadcasting
See courses in Radio/Television

Business

Program Purpose: Students who complete Business courses will explain the role business plays in providing the goods, services, jobs and benefits that society requires, including the consideration of ethics, social responsibility, and diversity.

Study in business leads to a wide range of opportunities in a variety of industries such as banking, health care/biotechnology, law, entertainment, defense, computer/electronics, and education, as well as in government and non-profit organizations. Upon completion of the baccalaureate degree, the student will be prepared for a career in specialized areas such as accounting, finance, investments, real estate, marketing, office administration, management, production, operations management, operations research, and statistics. Upon completion of the associate degree, the student will be prepared for various entry-level positions within these same organizations, for promotion from technical and specialty job functions into management positions, and/or for transfer to a baccalaureate program.

Dean
Lori Bennett, Phone (805) 378-1427

Full-time Faculty
Stephanie Branca, Janice Feingold, Navreet Sumal

Counselors
Denice Avila, Pam Kennedy-Luna, Candace Mead

Degree and Certificate Options in Business
Associate in Science Degree

Associate in Science Degree
To earn an Associate in Science Degree with a major in Business, students complete 28-32 specified units, plus General Education Degree Requirements (minimum total = 60 units).

Required Courses		Units
BUS M02A	Financial Accounting I	3.0
BUS M02B	Financial Accounting II	3.0
BUS M30	Introduction to Business and Economics	3.0
BUS M31	Introduction to Management	3.0
BUS M33	Business Law	3.0
OR		
BUS M34	Legal Environment of Business	3.0
BUS M39	Business Communication	3.0
OR		
BUS M28	Business English	3.0
CIS M16	Introduction to Information Systems	4.0
Units from One of the OPTIONS below		6.0-10.0
TOTAL		**28.0-32.0**

OPTIONS: Choose one of the following options:
Management Option – Choose 6 units from the Following:

BUS M32	Small Business Management	3.0
BUS M42	Business and Society	3.0
BUS M51	Human Resources Management	3.0
BUS M54	Organizational Behavior	3.0

OR
Sales & Marketing Option – Choose 6 units from the Following:

BUS M35	Sales Techniques	3.0
BUS M37	Marketing	3.0
BUS M38	Advertising	3.0

OR
Accounting Option – Complete All of the Following:

CIS M14	10-Key Mastery on the Computer	1.0
CIS M24	Microsoft Excel Part 1	1.5
CIS M25	Microsoft Excel Part 2	1.5
BUS M02C	Managerial Accounting	3.0
BUS M08	Accounting with QuickBooks	3.0

Associate in Arts Degree
To earn an Associate in Arts Degree with a major in Business, students complete 25 specified units, plus General Education Degree Requirements (minimum total = 60 units).

In addition to General Education Degree Requirements, complete the following:

Required Courses		Units
BUS M02A	Financial Accounting I	3.0
BUS M02B	Financial Accounting II	3.0
BUS M02C	Managerial Accounting	3.0
BUS M30	Introduction to Business and Economics	3.0
OR		
ECON M02	Principles of Macroeconomics	3.0
BUS M33	Business Law	3.0
OR		
BUS M34	Legal Environment of Business	3.0
BUS M39	Business Communications	3.0
CIS M16	Introduction to Information Systems	4.0
ECON M01	Principles of Microeconomics	3.0
TOTAL		**25.0**

BUSINESS

The Business program offers a wide variety of courses in business management, marketing and accounting, leading to the degrees of Associate in Arts and Science and Certificates in Accounting, Business, and Business Management. In addition to the major coursework, which emphasizes business and accounting practices, the business program combines studies in computer information systems and meets the needs of students targeting careers that meld knowledge of business and information systems.

For more information, contact:
Robert Cabral, rcabral@vcccd.edu
(805) 986-5800, ext. 1981

Career Opportunities

A.A./Certificate Level

Account Clerk	Accounts Payable Clerk
Accounts Receivable Clerk	Management Trainee
Assistant Manager	Sales Trainee
Sales Representative	Buyer
Finance Operations	Fashion Director
Market Research Assistant	Manufacturer Representative

B.A. Level

Cost Accountant	Assistant Controller
Controller/Treasurer	Human Resource Manager
Small Business Owner	Small Business Manager
Advertising Manager	Accountant
International Business Management	Manufacturers Representative
Sales Executive/Sales Management	

Faculty

Full-Time	Part-Time
Ed Bassey	Josepha Baca
Robert Cabral	Stephanie House
	Patricia Greene
	Sandy Iverson
	Larry Kennedy
	Dennis Polen

◆ Business

Associate in Arts Degree

This program is designed for students interested in transferring to a four-year college or university to complete a bachelor's degree in Business, Business Administration, Management, Economics, Accounting, and other Business-related majors such as Marketing. The courses in the Associate Degree listed below are the most commonly required lower-division courses in these majors at both CSU and UC campuses as well as independent colleges and universities. Business-related majors are popular at all university campuses and impacted at many, making admission into these programs competitive. At some universities, admission preference may be given to students who have completed all lower-division major requirements prior to transfer. Requirements vary by campus and are subject to change. Students are advised to refer to the official articulation agreements on assist.org for the most current requirements of their intended transfer institution and should work with a counselor to create a transfer plan.

Required Courses:		Units
ACCT R101	Principles of Financial Accounting	3
ACCT R102	Principles of Managerial Accounting	3
ECON R101	Principles of Macroeconomics	3
ECON R102	Principles of Microeconomics	3

Choose one information technology course:		
CAOT R122 OR	Microsoft Office	3
CIS R100	Introduction to Computer Information Systems	3

Choose one mathematics course:		
MATH R106 OR	Mathematics for Business Applications	5
MATH R120	Calculus with Analytic Geometry I	5

Choose one additional major preparation course:		
BUS R111A	Business Law I	3
BUS R140	Business Communications	3
MATH R105	Introductory Statistics	5
	Total Required Units	**23-25**

Program Student Learning Outcomes

Upon successful completion of the Business program students will be able to:

- Students will write clearly and accurately in a variety of business contexts and formats while checking, editing, and revising their written work for correct information, appropriate emphasis, form, style, and grammar.
- Students will apply rules and principles to new business situations.
- Students will formulate ways of accessing and interpreting business information from beyond their immediate spheres.
- Students will demonstrate personal conduct that reflects an ethical understanding of complex business, economic and social issues.
- Students will demonstrate collaboration skills by working effectively with others in group settings - both inside and outside the classroom.
- Students will acquire skills for employment in a variety of public and private organizations.

◆ Business Management

Associate in Science Degree
Certificate of Achievement

This program will prepare students for management positions within an organization. These positions would include responsibilities for formulating and implementing policies, long-range planning, and overseeing the work of other levels within the organization.

Required Courses:		Units
ACCT R101	Principles of Financial Accounting	3
ACCT R102	Principles of Managerial Accounting	3
BUS R111A	Business Law I	3
BUS R120	Introduction to Business	3
BUS R121	Introduction to Management	3
BUS R122	Human Resource Management	3
BUS R132A	Marketing	3
BUS R140	Business Communications	3
PSY R102A	Interpersonal Relations	3

Complete one of the following courses:		
BUS R030	Concepts in Business Math	3
CIS R100	Introduction to Computer Information Systems	3
COMM R101	Introduction to Oral Communication	3
ECON R101	Principles of Macroeconomics	3
ECON R102	Principles of Microeconomics	3
	Total Required Units	**30**

(1)=Pass/No Pass Only   (2)=Pass/No Pass at Student's Option   OXNARD COLLEGE CATALOG 2011-2012   119

Associate in Science Degree
Certificate of Achievement

BUSINESS
General

Transfer requirements may differ
See counselor or consult assist.org

REQUIRED COURSES:		Units
BUS V30	Introduction to Business	3
BUS V31/		
SUP V94	Organization and Management	3
BUS V34	Exercise in Management	
	Decision Making	3
BIS V40	Computer Applications in Business	3

REQUIRED ADDITIONAL COURSES:
Select one (1) of the following sequences:

BUS V01A-V01B	Financial Accounting and	
	Managerial Accounting	4-4
BUS V03-V01A	Introduction to Accounting and	
	Financial Accounting	3-4
BUS V07A-V07B	Business Calculations and Using Excel	2.5-2.5

Select one (1) of the following courses:

BUS V07A	Business Calculations	2.5
BIS V70	Computer Fundamentals	2

Select one (1) of the following courses:

BUS V32/SUP V93	Human Resource Management	3
BUS V33	Business Law	3
BUS V53	Legal Environment of Business	3

Select one (1) of the following courses:

BUS V44/		
SUP V81	Business English	3
BUS V45	Business Communications	3

Select at least one (1) unit from the following courses:

BIS V44A-V44B	Microsoft Word I & II	2-2
BIS V47A	Microsoft Access I	2
BIS V70	Computer Fundamentals	2
BIS V71A	Introduction to the Internet, the Web,	
	and e-mail	1
BIS V71B	Using the Web for Research	1
BIS V71C	Creating a Web Page	1
BIS V77A	Introduction to Microsoft Access I	1
		26-30.5

Recommended courses: In addition to the required courses listed above, it is recommended that students who seek to obtain additional insight into the field of study consider taking one or more of the following courses: COMM V01; ECON V01A, V01B; PSY V01. Although these supplemental courses may be of value to the student, please note that they do **NOT** satisfy the requirements for this degree.

For other course descriptions, see
Business Information Systems and Supervision

Associate in Science Degree
Certificate of Achievement

BUSINESS MANAGEMENT

Transfer requirements may differ
See counselor or consult assist.org

REQUIRED COURSES:		Units
BUS V31/SUP V94	Organization and Management	3
BUS V38/CD V38	Small Business Management	3

REQUIRED ADDITIONAL COURSES:
Select one (1) of the following sequences:

BUS V01A-V01B	Financial Accounting &	
	Managerial Accounting	4-4
BUS V03-V01A	Introduction to Accounting and	
	Financial Accounting	3-4
BUS V07A-V07B	Business Calculations and Using Excel	2.5-2.5

Select one (1) of the following courses:

BUS V33	Business Law	3
BUS V53	Legal Environment of Business	3

Select four (4) of the following courses:

BUS V30	Introduction to Business	3
BUS V32/SUP V93	Human Resource Management	3
BUS V34	Exercise in Management	
	Decision Making	3
BUS V40/SUP V96	Organizational Behavior	3
BUS V43	Introduction to International Business	3
BUS V44/SUP V81	Business English	3
BUS V45	Business Communications	3
BIS V40	Computer Applications in Business	3

Select at least one (1) unit from the following courses:

BIS V44A	Microsoft Word I	2
BIS V70	Computer Fundamentals	2
BIS V71A	Introduction to the Internet, the Web,	
	and e-mail	1
BIS V71B	Using the Web for Research	1
BIS V71C	Creating a Web Page	1
BIS V76A-V76B	Microsoft Excel for Windows I & II	1-1
		27-31

Recommended courses: In addition to the required courses listed above, it is recommended that students who seek to obtain additional insight into the field of study consider taking one or more of the following courses: BUS V02, V40, V43, V44; CS V04; ECON V01A; SUP V81, V90, V96. Although these supplemental courses may be of value to the student, please note that they do **NOT** satisfy the requirements for this degree.

For other course descriptions, see
Business Information Systems,
Child Development, and Supervision
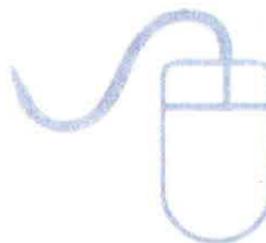
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Attachment 03

General Education Requirements for an AA/AS Degree at Moorpark, Oxnard and Ventura Colleges

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Planning Your Education

2011 - 2012 Moorpark College
Associate Degree General Education Requirements

A. NATURAL SCIENCES - a minimum of six (6) units
(1) One course in a Biological Science: **ANAT** M01; **ANSC** M06, M07; **ANTH** M01, M01H, M01L; **BIOL** M01, M02A, M02B, M02C, M03, M05, M09, M10, M10L, M16, M17; **BOT** M01, M06, M06L; **ENSC** M02; **MICR** M01, M03; **PHSO** M01; **PSY** M02, M02H; **ZOO** M01.

(2) One course in a Physical Science: **AST** M01, M01L, M02; **CHEM** M01A, M01B, M07A, M07B, M11, M12, M12H, M13; **ENSC** M01, M01L, M03; **GEOG** M01, M01L, M05; **GEOL** M02, M02L, M03, M03L, M05, M61; **PHSC** M01, M01L; **PHYS** M01, M01L, M10A, M10AL, M10B, M10BL, M20A, M20AL, M20B, M20BL, M20C+, M20CL+.

B. SOCIAL & BEHAVIORAL SCIENCES - a minimum of six (6) units
(1) One course American History/Institutions: **HIST** M03A, M03B, M04, M06, M07A, M07B, M12, M12H, M14, M25, M25H; **POLS** M01, M03, M03H, M05.

(2) One course other Social & Behavioral Science: **ANSC** M04; **ANTH** M02, M03, M06, M07, M08, M09, M11, M13, M15, M16, M17; **BUS** M04, M30, M42; **CD** M02; **CHST** M02; **CJ** M01^, M02^; **COMM** M04, M12; **ECON** M01, M02, M02H; **FTVM** M01; **GEOG** M02, M03, M03H, M10; **HIST** M01A, M01B, M03A, M03B, M04, M06, M07A, M07B, M08, M09, M12, M12H, M14, M15, M16, M20A, M20B, M25, M25H; **HUM** M19, M42; **JOUR** M01; **NTS** M07; **PHIL** M03; **POLS** M01, M02, M03, M03H, M04, M05; **PSY** M01, M01H, M03, M04, M05, M06, M07, M08, M09, M10, M11, M13, M14, M16, M19, M20; **SOC** M01, M01H, M02, M04, M05, M08, M10, M12, M15, M16, M60B.

C. HUMANITIES - a minimum of six (6) units
(1) One course in Fine/Performing Arts: **ART** M10, M11, M12, M13, M14, M30, M70, M77, M90; **COMM** M05; **DANC** M01, M03, M10A, M11A, M12A, M14A; **FILM** M10, M15, M25, M26, M31, M32, M51; **GR** M10, M11, M30; **HUM** M02, M07; **MUS** M01, M04, M04H, M08, M09A, M09B, M10, M12, M15, M21; **PHOT** M10, M40; **THA** M01, M02A, M04.

(2) One course in any other Humanities: **ARBC** M01, M02; **ART** M11, M12, M13; **BUS** M42; **CHIN** M01, M02; **COMM** M26; **ENGL** M01B, M01BH, M10A, M10B, M13A, M13B, M14, M15A, M15B, M17, M18, M19, M20, M21, M29A, M29B, M30, M31, M33, M40, M44; **FILM** M15, M25, M26, M51; **FREN** M01, M02, M03, M41; **GERM** M01, M02, M03; **HEB** M01, M02; **HIST** M01A, M01B, M15, M16, M20A, M20B; **HUM** M01, M02, M07, M10A, M10B, M12, M19, M42; **ITAL** M01, M02, M03; **JAPN** M01, M02, M03; **LAT** M01; **PHIL** M01, M01H, M02, M02H, M03, M04, M07, M08, M11, M12, M13, M14, M15, M16, M95; **SL** M01, M02; **SPAN** M01, M02, M03, M04, M12, M41; **THA** M01.

D. LANGUAGE & RATIONALITY - a minimum of six (6) units
(1) One course in English Composition: **BUS** M28; **ENGL** M01A, M01AH; **HUM** M02; **JOUR** M02.

(2) One course from Communication/Analytical Thinking: **COMM** M01, M02, M07, M25; **CS** M01, M10A, M10J; **ENGL** M01B, M01BH, M01C, M01CH; **HUM** M02; **JOUR** M02; **MATH** M03, M03B, M04B, M05, M06, M07, M10, M13, M14, M15, M15H, M16A, M16B, M21, M25A, M25AH, M25B, M25C+, M31+, M35+; **PHIL** M05, M07, M09.

E. HEALTH/PHYSICAL EDUCATION
(1) One or more courses in Health Education (a min. of 2 units): **CD** M23; **HED** M01, M02, M03, M05, M07, or M10A-Z; **NTS** M01, M05, M07, M10R, M10T

(2) Any KIN (formerly **PE**) activity course (except **KIN** M01, M16, M17, M18) or **DANC** activity course(s) M10A-M55 (except M18, M51, M55, M56) or **THA** M17

F. ETHNIC/WOMEN'S STUDIES -
ANTH M02, M06, M09; **CD** M05; **CHST** M02; **COMM** M12; **ENGL** M30@, M31@; **FILM** M51; **GEOG** M02%, M03, M03H; **GERM** M03; **HIST** M03A, M03B, M04, M06, M09, M12, M12H, M14; **HUM** M12, M19; **ITAL** M03; **JAPN** M03; **MUS** M04, M04H; **NTS** M07; **PSY** M14; **SL** M01, M02; **SPAN** M12; **SOC** M02, M08, M10.

NOTE: + *Effective beginning Spring 2007*

  ^ *Effective beginning Fall 2003*

  @ *Effective beginning Fall 2009*

A.A. Degree in General Studies Pattern I

General Studies (A.A) Pattern I

This pattern provides an opportunity to earn an Associate in Arts in General Studies. This degree covers a broad area of study and is intended for students who may not be planning to transfer to a four-year university or who may need to explore possibilities before committing themselves to a major. Students are required to:

1. Complete Oxnard College's General Education requirements to include areas A-F (page <u>67</u>)
2. Choose an area of emphasis from one of three categories listed below:
   - Natural Sciences Emphasis
   - Social and Behavioral Sciences Emphasis
   - Arts and Humanities Emphasis
3. Complete a minimum of **18 units in the chosen area of emphasis** with a grade of "C" or better (or a "P") in each of the courses selected within the chosen area. **Complete a minimum of 6 of the 18 units within a single discipline.** Courses in the area of emphasis may also be used to fulfill general education requirements but the units may count only once.
4. Complete a minimum of 60 degree-applicable units.
5. Complete the college's other graduation requirements in competency (Math and English), scholarship, and residency.
6. Apply for the A.A. degree in the Counseling Office

NOTE: *Students planning to transfer to a four-year university are advised that this curriculum may not adequately prepare them for transfer. General Studies Patterns II and III are designed for transfer students*

Areas of Emphasis

<u>Natural Science Emphasis</u>

The courses that fulfill the **Natural Sciences** area of emphasis will examine the physical universe, its' life forms and natural phenomena. The courses are designed to develop students' appreciation and understanding of the scientific method, and encourage an understanding of the relationships between science and other human activities.
   <u>ANAT</u> R101; **<u>ANTH</u>** R101; **<u>AST</u>** R101/L; **<u>BIOL</u>** R100/L, R101/L, R120/L, R122/L, R170; **<u>CHEM</u>** R104, R110, R112, R120, R122, R130, R132; **<u>ESRM</u>** R100; **<u>GEOG</u>** R101/L, R103; **<u>GEOL</u>** R101/L, R103/L; **<u>MICR</u>** R100/L; **<u>MST</u>** R100/L, R103/L, R122, R160, R175, R190, R195; **<u>PHSC</u>** R170; **<u>PHSO</u>** R101; **<u>PHYS</u>** R101/L, R102/L, R121, R122, R131, R132, R133; **<u>PSY</u>** R105

<u>Social and Behavioral Sciences Emphasis</u>

The courses that fulfill the **Social and Behavioral Sciences** area of emphasis will examine people as members of society. The courses are designed to develop students' awareness of the method of inquiry used by the social and behavioral sciences; to stimulate critical thinking about the ways people respond to their societies; and to promote appreciation of how societies and social subgroups operate.
   <u>AAS</u> R101; **<u>ANTH</u>** R102, R103, R105, R106, R107, R110, R111, R113; **<u>CD</u>** R102, R103, R106, R108; **<u>CHST</u>** R101, R107, R114; **<u>ECON</u>** R100, R101, R102; **<u>EDU</u>** R122; **<u>GEOG</u>** R102, R104; **<u>HIST</u>** R100A, R100B, R102, R103, R104, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119, R120, R121; **<u>IDS</u>** R102, R150, R151; **<u>PHIL</u>** R109, R110, R114; **<u>POLS</u>** R100, R101, R102, R104, R105, R106, R107, R108; **<u>PSY</u>** R101, R102A, R104, R107, R108, R110, R111, R112, R114, R131, R135; **<u>SOC</u>** R101, R102, R103, R104, R105, R106, R107, R108, R110, R111, R114, R116, R118, R122; **<u>TV</u>** R100

<u>Arts and Humanities Emphasis</u>

The courses that fulfill the **Arts and Humanities** area of emphasis will examine the cultural activities and artistic expressions of human beings. The courses are designed to develop students' awareness of the ways in which people throughout the ages and in different cultures have responded to themselves and the world around them in artistic and cultural creation and to develop students' aesthetic understanding and ability to make value judgments.
   <u>ART</u> R101, R102, R103, R104A, R104B, R106A, R106B, R150A, R152A, R152B; **<u>ASL</u>** R101, R102, R103, R104; **<u>COMM</u>** R100, R101, R109; **<u>ENGL</u>** R103, R104, R105, R107, R108, R111, R112, R130, R131, R132, R151, R152, R153, R154, R157; **<u>HIST</u>** R100A, R100B, R105, R106, R109, R111, R117, R118, R119; **<u>IDS</u>** R101A, R101B, R110; **<u>JAPN</u>** R101, R101A, R101B, R102; **<u>MUS</u>** R101, R103A, R106, R107A, R107B, R107C, R107D, R110A, R115, R116, R119; **<u>PHIL</u>** R101, R102, R103, R104, R105, R106, R108, R110; **<u>SPAN</u>** R101, R101A and R101B, R102, R103, R104, R107, R117, R118, R140, R141; **<u>TV</u>** R100, R102, R103, R104, R105

Specific Major (A.A. or A.S.)

1. Complete the college's general education requirements (areas A-E).
2. Complete a major (minimum of 18 units).
3. Complete 60 degree-applicable semester units.
4. Complete other graduation requirements in competency, scholarship, and residency.

The Specific Major option is designed to prepare students for the job market. These degrees provide concentrated study in specific skill areas to prepare students to gain employment in their chosen fields and to advance in their specialized careers.

Majors Available:

Accounting	Engineering
Agricultural Plant Science	Executive Assistant
Architecture	Fine Art
Automotive Technology	Human Services
Bilingual/Cross-Cultural Studies	International Studies
Biological Sciences	Medical Assistant
Business General	Music
Business Management	Natural Resources
Ceramics	Nursing
Child Development	Photography
Commercial Art	Physical Science:
Computer Science	Engineering Technology
Construction Technology	Supervision
Criminal Justice	Theatre Arts
Drafting Technology	Water Science
Emergency Medical Services: Paramedic Studies	Welding Technology

Refer to the Credit Courses, Degrees, Certificates, and Awards section of this Catalog for specific course requirements.

Associate Degree
General Education Courses
2011-2012

A. **NATURAL SCIENCES** - a minimum of six (6) units
   1. One (1) course in biological science
      AG V03, V04, V54; **ANAT** V01; **ANPH** V01; **ANTH** V01, V01L; **BIOL** V01, V01L, V03, V04, V10, V12, V14, V18, V23, V29, V29L, V42; **BIOT** V18, V42; **ESRM** V01, V14; **MICR** V01; **PHSO** V01; **PSY** V03.
   2. One (1) course in physical science
      AST V01, V01L; **CHEM** V01A, V01AL, V01B, V01BL, V05, V12A, V12AL, V12B, V12BL, V20, V20L, V21, V21L, V30, V30L; **ESRM** V02; **GEOG** V01, V01L, V05; **GEOL** V02, V02L, V03, V07, V11; **PHSC** V01; **PHYS** V01, V02A-V02AL, V02B-V02BL, V03A-V03AL, V03B-V03BL, V04-V04L, V05-V05L, V06-V06L.

B. **SOCIAL AND BEHAVIORAL SCIENCES** - a minimum of six (6) units
   1. One (1) course in American history and institutions
      AES V02A, V02B, V22, V40A, V40B, V63; **HIST** V02A, V02B, V03A, V03B, V04B, V05A, V05B, V07A, V07B, V12, V16, V17; **POLS** V01, V03.
   2. One (1) other course in social and behavioral sciences
      AES V01, V02A, V02B, V11, V20, V21A, V21B, V22, V23, V24, V40A, V40B, V41, V42A, V42B, V61, V62, V63; **ANTH** V02, V03, V04, V06, V07; **AAS** V01; **BUS** V30; **CHST** V01, V02, V24; **CD** V02, V03 V61; **CJ** V01, V02, V03, V15, V19; **ECON** V01A, V01B; **ESRM** V03; **GEOG** V02, V06, V08; **HIST** V01A, V01B, V02A, V02B, V03A, V03B, V04A, V04B, V05A, V05B, V07A, V07B, V08, V09, V10A, V10B, V12, V13, V14A, V14B, V15, V16, V17, V18A, V18B, V20, V21; **JOUR** V01; **POLS** V01, V02, V03, V04, V05, V09, V10, V11, V12, V14, V15, V16; **PSY** V01, V02, V05, V07-V07L, V15, V25, V29, V30, V31; **SOC** V01, V02, V03, V04, V05, V07, V13, V24, V31.

C. **HUMANITIES** - a minimum of six (6) units
   1. One (1) course in fine or performing arts
      AES V10, V12, V65, V66, V67; **ART** V01, V02A, V02B, V02C, V03, V04, V05, V06, V07, V08, V09, V11A, V12A, V13A, V19, V51A; **DANC** V01; **ENGL** V29A, V29B; **FILM** V01; **HEC** V05A, V07; **MUS** V01, V03, V06, V07, V08, V09A, V09B; **PHOT** V01, V02, V07; **THA** V01, V02A, V20, V29.
   2. One (1) course in humanities
      AES V30, V31; **COMM** V05; **ENGL** V01B, V06B, V10, V11A, V15, V16, V21A, V21B, V22A, V22B, V23, V26, V30, V31, V33, V34, V35, V36A, V36B, V133, V134, V135, V136A, V136B; **FREN** V01, V02, V03, V04, V51A, V51B, V51C; **GERM** V01, V02, V03, V04, V51A, V51B, V51C; **HIST** V01A, V01B, V18A, V18B; **IDS** V08; **ITAL** V01, V02, V03, V04, V51A, V51B; **JAPN** V01, V02, V51A, V51B; **PHIL** V01, V02, V03A, V03B, V04, V06A, V06B; **SL** V10A, V10B, V10C; **SPAN** V01, V02, V03, V03S, V04, V04S, V20, V51A, V51B; **THA** V23, V30A.

D. **LANGUAGE AND RATIONALITY** - a minimum of six (6) units
   1. One (1) course in English composition
      ENGL V01A.
   2. One (1) course in communication and analytical thinking
      BUS V06; **BIS** V40; **COMM** V01, V03, V10, V15; **CS** V04, V11, V15, V17, V20, V30, V40; **DRFT** V03; **ENGL** V01B, V05, V06A; **MATH** V03, V03A-V03E, V04, V05, V20, V21A, V21B, V21C, V24, V35, V38, V40, V44, V46, V52; **PHIL** V04, V05; **PSY** V04.

E. **HEALTH/PHYSICAL EDUCATION** - a minimum of two (2) courses
   1. One (1) course in health education
      HED V70, V73, V76, V87, V93, V95, V97.
   2. One (1) course in physical education activity
      CJ V11-V12B; **DANC** V10A-V50B; **EAC** V21, V25-V28; **ICA** V02-V24; **KIN** V02-V76; **REC** V41; **THA** V14.

*F. **ETHNIC/WOMEN'S STUDIES** - a minimum of three (3) units
      AES V01, V02A, V02B, V10, V11, V12, V20, V21A, V21B, V22, V23, V24, V30, V31, V40A, V40B, V41, V42A, V42B, V61, V62, V63, V65, V66, V67; **ANTH** V02, V04, V06; **ART** V02C, V03, V07, V08, V09; **AAS** V01; **CHST** V01, V02, V24; **CJ** V03; **ENGL** V06B, V33, V34, V35, V36A, V36B, V133, V134, V135, V136A, V136B; **HIST** V02A, V02B, V03A, V03B, V04B, V05A, V05B, V10A, V10B, V12, V13, V14A, V14B, V15, V17, V21; **MUS** V03, V07; **POLS** V11, V14; **PSY** V30; **SOC** V03, V04, V24; **SPAN** V20.

*General Studies degrees only; not required for degrees with specific majors.

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Attachment 04

California State University General Education Breadth Courses at Moorpark, Oxnard and Ventura Colleges

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Planning Your Education

2011-2012 CSU General Education Breadth Courses

AREA A: ENGLISH LANGUAGE COMMUNICATION and CRITICAL THINKING - a minimum of nine (9) semester units, with at least one course selected from each group (1, 2 and 3) and a grade of C or better in each course:
Group 1: Oral Communication - COMM M01, M02
Group 2: Written Communication - ENGL M01A, M01AH
Group 3: Critical Thinking - COMM M07, M25; ENGL M01B, M01BH, M01C, M01CH; PHIL M05, M07, M09

AREA B: SCIENTIFIC INQUIRY and QUANTITATIVE REASONING - a minimum of nine (9) semester units, with at least one course selected from each group (1, 2, 3 and 4) to include one laboratory activity course (group 3) corresponding to selected lecture course:
Group 1: Physical Science
AST M01, M02; CHEM M01A, M01B, M07A, M07B, M11, M12, M12H, M13; ENSC M01, M03; GEOG M01, M05; GEOL M02, M03, M05, M61; PHSC M01; PHYS M01, M10A, M10B, M20A, M20B, M20C+
Group 2: Life Science
ANAT M01; ANSC M06, M07; ANTH M01, M01H; BIOL M01, M02A, M02B, M02C, M03, M05, M09, M10, M16, M17; BOT M01, M06; ENSC M02; MICR M01, M03; PHSO M01; PSY M02, M02H; ZOO M01
Group 3: Laboratory Activity (must correspond with lecture course)
ANAT M01(L); ANTH M01L; AST M01L; BIOL M01(L), M02A(L), M02B(L), M02C(L), M03(L), M05(L), M09(L), M10L; BOT M01(L), M06L; CHEM M01A(L), M01B(L), M07A(L), M07B(L), M11(L), M12(L), M12H(L), M13(L); ENSC M01L, M02(L); GEOG M01L; GEOL M02L; MICR M01(L), M03(L); PHSC M01L; PHSO M01(L); PHYS M01L, M10AL, M10BL, M20AL, M20BL, M20CL+; ZOO M01(L).
Group 4: Mathematics/Quantitative Reasoning (requires a grade of C or better)
MATH M05, M06, M07, M10, M13, M14, M15, M15H, M16A, M16B, M21, M25A, M25AH, M25B, M25C+, M31+, M35+

AREA C: ART and HUMANITIES - a minimum of nine (9) semester units, with at least one course selected from each group (1 and 2).
Group 1: Arts (Arts, Cinema, Dance, Music, Theater)
ART M10, M11, M12, M13, M14, M30, M70; COMM M05; DANC M01, M03, M10A, M11A, M12A, M14A; FILM M10, M15, M25, M26, M31, M32, M51; GR M10#, M11&; HUM M02, M07; MUS M01, M04, M04H, M08, M09A, M09B, M10, M21; PHOT M10, M40; THA M01, M02A, M04.
Group 2: Humanities (Literature, Philosophy, Languages other than English)
ARBC M01, M02; CHIN M01, M02; COMM M26; ENGL M01B, M01BH, M10A, M10B▲, M13A, M13B, M14, M15A, M15B, M17, M18, M19, M20, M21, M29A, M29B, M30, M31, M33, M40, M44; FILM M15, M51; FREN M01, M02, M03, M41; GERM M01, M02, M03; HEB M01#, M02; HIST M01A, M01B, M15%, M16%, M20A, M20B; HUM M01%, M07▲, M10A, M10B; ITAL M01, M02, M03; JAPN M01, M02, M03; LAT M01; PHIL M01, M01H▲, M02, M02H▲, M03, M04, M08▲, M11, M12, M13, M14, M15, M16+, M95; SL M01, M02; SPAN M01, M02, M03, M04, M41▲

AREA D: SOCIAL SCIENCE - a minimum of nine (9) semester units, with courses in at least two (2) separate disciplines selected from at least two (2) groups:
D1: Anthropology and Archeology
ANTH M02, M03, M06, M07, M08, M09, M11, M13, M15, M16; CHST M02
D2: Economics
BUS M30; ECON M01, M02, M02H
D3: Ethnic Studies
ANTH M13; CHST M02; COMM M12; HIST M03A$, M03B$, M04, M06%, M14; PSY M14
D4: Gender Studies
HIST M12, M12H$, M14; HUM M19; SOC M10
D5: Geography
GEOG M02, M03, M03H, M10
D 6: History
HIST M01A, M01B, M03A&, M03B&, M04&, M06&, M07A&, M07B&, M08, M09, M12, M12H&, M14&, M15, M16, M20A, M20B, M25&, M25H&.
D7: Interdisciplinary Social or Behavioral Science
BUS M42; CD M02$; COMM M04, M12; FTVM M01; HUM M42; JOUR M01; PHIL M03;
D8: Political Science, Government, and Legal Institutions
CJ M01▲, M02▲; POLS M01, M02, M03+, M03H+, M04, M05+.
D9: Psychology
ANSC M04; CD M02; PSY M01, M01H, M03, M04, M05, M06▲, M07, M08, M09, M10, M11, M13, M14, M16, M19, M20; SOC M04, M05
D10: Sociology and Criminology
PSY, M05, M09, M20; SOC M01, M01H, M02, M04, M05, M08, M10, M12, M15, M16, M60B@
NOTE: & satisfy U.S. History and American Ideals requirement (US-1)
+ satisfy American, State and Local Government (US 2) and (US-3).

AREA E: LIFELONG LEARNING and SELF-DEVELOPMENT - a minimum of three (3) semester units, with no more than one and one-half (1.5) units of physical education activity:
CD M02, M23@; COUN M02; DANC M16+; HED M01, M02, M03, M05, M07; M10A, M10C, M10D, M10F, M10H, M10J▲, M10K, M10M, M10N, M10P, M10Q; KIN M23, M24, M31-M34, M40-M44, M50-M52, M62, M71, M72, M87, M92, M100A, M101A, M102A, M103A, M105A, M105B, M107A, M108A, M108B, M130A, M131A, M133A, M133B, M134A, M136A, M137A, M147; LS M09+; NTS M01, M05, M07; PSY M01, M03, M04, M05, M07, M08, M09, M11, M13, M20; SOC M04, M05, M08.

NOTE: The courses described herein are subject to change. Students should consult a counselor and appropriate Web sites (e.g., www.assist.org) to receive the most current transfer information.
▲ Effective beginning Fall 2003
$ Effective beginning Spring 2006
+ Effective beginning Spring 2007
# Effective beginning Fall 2007
@ Effective beginning Fall 2008
% Effective beginning Fall 2011

California State University (CSU) 2011-2012
General Education-Breadth Certification Courses

It is recommended that students planning to transfer to a California State University (CSU) complete their lower division general education prior to transfer by following the CSU GE-Breadth plan below. Counselors can help students select courses that fulfill lower-division major requirements as well as general education. After students complete the CSU GE-Breadth pattern, they must meet with a counselor in the Counseling Office or Transfer Center to request certification. **Certification is not automatic.** Without this "certification", students may have additional lower-division general education requirements to fulfill after transfer that vary from campus to campus in the CSU. Students who fully complete the CSU GE-Breadth for Oxnard College will also be eligible to apply for a Certificate of Achievement in California State University General Education-Breadth (CSU GE-Breadth). CSU GE is not appropriate for every major/college within the CSU. Check on www.assist.org or with your counselor or the Transfer Center for updated information.

Area A: English Language Communication and Critical Thinking
Complete one course from each group (A1, A2, A3). A total of 9 semester units (12 qtr. units) are required. All courses in Area A must be completed with a grade of "C" or better.
A1: Oral Communication: COMM R101, R107, R110, R111
A2: Written Communication: ENGL R101
A3: Critical Thinking: ENGL R102; **IDS** R110; **PHIL** R100, R107, R111, R112; **COMM** R107

Area B: Scientific Inquiry and Quantitative Reasoning: Complete a minimum of 9 semester units (12 qtr. units) with at least one course from each group (B1, B2, B3, B4) to include one laboratory activity course corresponding to selected lecture course. Math requires a grade of "C" or better.
B1: Physical Science: AST R101; **CHEM** R104, R110, R112, R120, R122, R130, R132; **GEOG** R101, R103; **GEOL** R101, R103; **MST** R103; **PHSC** R170; **PHYS** R101, R102, R121, R122, R131, R133
B2: Life Science: ANAT R101; **ANTH** R101; **BIOL** R100, R101, R120, R122; **MICR** R100; **MST** R100; **PHSO** R101; **PSY** R105
B3: Laboratory Activity: ANAT R101; **AST** R101L; **BIOL** R100L, R101L, R120L, R122L; **CHEM** R104, R110, R112, R120, R122, R130, R132; **GEOG** R101L; **GEOL** R101L, R103L; **MICR** R100L; **MST** R100L, R103L; **PHSC** R170; **PHSO** R101; **PHYS** R101L, R102L, R121, R122, R131, R133
B4: Math: MATH R101, R102, R105, R106, R115, R116, R118, R120, R121, R122, R125; **PSY** R103

Area C: Arts and Humanities: Choose 9 units (12 qtr. units) with at least one course from area C1, one course from C2, and the third course from either C1 or C2.
C1: Arts (Art, Cinema, Dance, Music, Theater): ART R101, R102, R103, R170; **MUS** R101, R103A, R106, R110A, R116, R119; **SPAN** R118; **TV** R117
C2: Humanities (Literature, Philosophy, Languages other than English): ART R108A; **ASL** R101, R102, R103, R104; **COMM** R105 **ENGL** R102, R103, R104, R105, R107, R108, R111, R112, R131, R132, R151, R152, R153, R154, R157; **HIST** R100A, R100B, R108, R119, R120 **JAPN** R101, R101A, R101B, R102; **PHIL** R101, R102, R103, R104, R105, R106, R108, R109, R110, R114; **PSY** R107; SOC R104, R114; **SPAN** R101, R101A, R101B, R102, R103, R104, R107, R117, R140, R141;

Area D: Social Sciences: Choose 9 semester units (12 qtr. units) with courses selected from at least two subgroups and from at least two academic disciplines.
D0: Sociology & Criminology: CD R106; **HIST** R112; **PSY** R107; **SOC** R101, R102, R103, R104, R105, R106, R107, R108, R111, R116, R118
D1: Anthropology & Archaeology: AFAM R101; **ANTH** R102, R103, R105, R106, R107, R110, R111, R113, R115
D2: Economics: ECON R100, R101, R102
D3: Ethnic Studies: AAS R101; **AFAM** R101; **ANTH** R107; **CD** R107; **CHST** R101, R107, R114; **HIST** R107, R108, R109, R121; **PSY** R114; **SOC** R103, R107, R108; **SPAN** R107
D4: Gender Studies: ANTH R105; **HED** R103; **HIST** R112, R117; **PSY** R107, R110; **SOC** R104,
D5: Geography: GEOG R102, R104
D6: History: AAS R101; **CHST** *R107; **HIST** R100A, R100B, *R102, *R103, R104, R105, R106, *R107, *R108, R109, R110, R111, R112, R113, R114, R115, R116, *R117, R118, R119, R120, R121
D7: Interdisciplinary, Social, or Behavioral Science: CD R102; **IDS** R101A, R101B, R102, R110; **JOUR** R100; **SOC** R105, R108; **COMM** R113; TV R100
D8: Political Science, Government, Legal Institutions: POLS *R100, *R101, *R102, R104, R105, R106, *R107, R108, R189A
D9: Psychology: CHST R114; **PSY** R101, R104, R107, R108, R110, R114, R131, R135; **SOC** R104

Area E: Life Long Learning & Self-Development: complete 3 semester units (4 qtr. units) with no more than 1 unit of physical activity.
 CD R102; **HED** R101, R102, R103, R104, R105, R107/L; **ICA** R122, R132, R142, R152, R162, R172, R182, R192, **MUS** R107A, R110A, R117; **PE** R116A, R116B, R119A, R119B, R124, R130, R131A, R132, R133A, R134A, R141A, R141B R143, R146, R148, R150, R151A, R155A, R155B, R156A, R156B, R159A, R159B, R160, R161, R165, R166, R167, R168, R169, R170, R171, R172, R177; **PG** R101A, R102; **PSY** R101, R102A, R107, R108, R112, R115; **SOC** R104, R105, R106

U.S. History, Constitution and American Ideals: *ONE course from Group A and ONE course from Group B*
* Courses may be double counted in Area D.
Group A: *U.S. History:* **CHST** R107; **HIST** R102, R103, R107, R108, R117
Group B: *U.S. Government:* **POLS** R100, R101, R102, (POLS R107 will also fulfill this requirement but only when combined with HIST R102)

Certification is not automatic. Students must request certification after completion of the CSU GE-Breadth. Students completing CSU GE Breadth Certification may also apply for a Certificate of Achievement in CSU GE-Breadth. See your counselor or the Transfer Center.

CALIFORNIA STATE UNIVERSITY
2011-2012

General Education-Breadth Requirements

California law empowers Ventura College to certify to all campuses of CSU that a maximum of 39 units of the 48 units typically required for general education for a baccalaureate degree have been completed. The CSU general education-breadth pattern requires each student to complete a minimum of 48 semester units. Nine of these units must be upper division level and cannot be taken prior to the term in which upper division status (completion of 60 units) is attained. These minimum nine of the 48 units must be earned at the campus granting the baccalaureate degree. The 48-unit total is a minimum; some campuses of the CSU system may elect to exceed this minimum in their general education-breadth requirements.

The 39 semester units for the lower division general education-breadth requirements are distributed according to the pattern listed on the CSU GE approved course list.

Courses listed are subject to change.

Approved General Education Courses

AREA A - ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING
A minimum of nine (9) units, with at least one (1) course selected from each group (1, 2, and 3) and a grade of C or better in each course:
   Group 1 - Oral Communication
     COMM V01, V03, V10, V15.
   Group 2 - Written Communication
     ENGL V01A.
   Group 3 - Critical Thinking
     COMM V10; ENGL V01B; PHIL V04, V05.

AREA B - SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING
A minimum of nine (9) units, with at least one (1) course selected from each group (1, 2, 3 and 4) to include one (1) laboratory activity course corresponding to the selected lecture course:
   Group 1 - Physical Science
     AST V01, V01L; CHEM V01A, V01AL, V01B, V01BL, V05, V12A, V12AL, V12B, V12BL, V20, V20L, V21, V21L, V30, V30L; ESRM V02; GEOG V01, V01L, V05; GEOL V02, V02L, V03, V07, V11; PHSC V01; PHYS V01, V02A-V02AL, V02B-V02BL, V03A-V03AL, V03B-V03BL, V04-V04L, V05-V05L, V06-V06L.
   Group 2 - Life Science
     AG V03, V04, V54; ANAT V01; AHPH V01; ANTH V01, V01L; BIOL V01, V01L, V03, V04, V10, V12, V14, V18, V23, V29, V29L; BIOT V18; ESRM V01, V14; MICR V01; PHSO V01; PSY V03.
   Group 3 - Laboratory Activity
   Group 4 - Mathematics/Quantitative Reasoning*
     CS V17; MATH V04, V05, V20, V21A, V21B, V21C, V24, V38, V40, V44, V46, V52; PSY V04.
     *Requires a grade of C or better.

AREA C - ARTS AND HUMANITIES
A minimum of nine (9) units, with at least one (1) course selected from each group (1 and 2):
   Group 1 - Arts
     AES V10, V12, V65, V66, V67; ART V01, V02A, V02B, V02C, V03, V04, V05, V06, V07, V08, V09, V12A, V13A, V19, V51A; DANC V01; ENGL V29A, V29B; FILM V01; HEC V07; MUS

V01, V03, V06, V07, V08, V09A, V09B; PHOT V01, V07; THA V01, V02A, V20, V29.
   Group 2 - Humanities
     AES V31; COMM V05; ENGL V01B, V10, V11A, V15, V16, V21A, V21B, V22A, V22B, V23, V26, V30, V31, V33, V34, V35, V36A, V36B; FREN V01, V02, V03, V04; GERM V01, V02, V03, V04; HIST V01A, V01B, V18A, V18B; IDS V08; ITAL V01, V02, V03, V04; JAPN V01, V02; PHIL V01, V02, V03A, V03B, V06A, V06B; SL V10A, V10B, V10C; SPAN V01, V02, V03, V03S, V04, V04S, V20; THA V23.

AREA D - SOCIAL SCIENCES
A minimum of nine (9) units, with courses in at least two (2) separate disciplines selected from at least two (2) groups:
   Group 1 - Anthropology and Archeology
     AES V01; ANTH V02, V03, V04, V06, V07.
   Group 2 - Economics
     ECON V01A, V01B.
   Group 3 - Ethnic Studies
     AES V01, V02A+, V02B+, V11, V20, V22+, V23, V24, V40A+, V40B+, V41, V62, V63+; ANTH V04; AAS V01; CHST V01, V02, V24; HIST V03A+, V03B+, V05A+, V05B+, V12+, V13, V17+; PSY V30; SOC V03, V24.
   Group 4 - Gender Studies
     ANTH V06; HIST V02A+, V02B+; SOC V04.
   Group 5 - Geography
     GEOG V02, V06, V08.
   Group 6 - History
     AES V02A+, V02B+, V21A, V21B, V22+, V40A+, V40B+, V41, V42A, V42B, V61, V63+; HIST V01A, V01B, V02A+, V02B+, V03A+, V03B+, V04, V04B+, V05A+, V05B+, V07A+, V07B+, V08, V09, V10A, V10B, V12+, V13, V14A, V14B, V15, V16, V17+, V18A, V18B, V20, V21.
   Group 7 - Interdisciplinary Social or Behavioral Science
     CD V02, V03, V61; JOUR V01.
   Group 8 - Political Science, Government, and Legal Institutions
     CJ V01, V02, V15; ESRM V03; POLS V01‡, V02, V03‡, V04, V05, V09, V10, V11, V12, V14, V15, V16.
   Group 9 - Psychology
     PSY V01, V02, V05, V07-V07L, V15, V25, V29, V30, V31; SOC V31.
   Group 10 - Sociology and Criminology
     AES V11, V24; CHST V24; CJ V03; PSY V31; SOC V01, V02, V03, V04, V05, V07, V13, V24, V31.
     + Will satisfy U.S. History and American Ideals requirement.
     ‡ Will satisfy U.S Constitution, and State and Local Government requirement.

AREA E - LIFELONG LEARNING AND SELF-DEVELOPMENT
A minimum of three (3) units, with no more than one (1) unit of physical activity:
     AES V11; ANTH V02; ART V01; BIOL V10, V12, V18; BIOT V18; CD V02, V03; COMM V03; *CJ V11, V12A, V12B; *DANC V10A, V13A-V15B, V23, V27, V29A-V30, V50A; *EAC V21, V25-V28; ESRM V01; HED V70, V73, V76, V87, V93, V95, V97; HIST V02A+, V02B+; *ICA V02-V08, V13-V20, V22-V24; *KIN V02-V04, V06, V08-V10, V12, V14, V16, V18, V20, V22, V24, V26, V28, V32, V34, V40, V42, V44, V47, V48, V50, V52, V58, V59, V62, V64, V66, V69, V70, V73, V74, V76; PSY V01, V02, V05, V25; *REC V41; SOC V03; *THA V14.
     *Physical activity courses limited to one (1) unit in satisfaction of Area E requirements.
     + Will satisfy U.S. History and American Ideals requirement.

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Attachment 05

Intersegmental General Education Transfer Breadth Curriculum at Moorpark, Oxnard and Ventura Colleges

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Planning Your Education

2011-2012 Intersegmental General Education Transfer Curriculum (IGETC)

AREA 1 - ENGLISH COMMUNICATION

CSU: 3 courses required, one from each group below.
UC: 2 courses required, one each from Group A and B
Group A: English Composition, 1 course, 3 semester or 4 quarter units.
    ENGL M01A•, M01AH•
Group B: Critical Thinking - English Composition, 1 course, 3 semester or 4 quarter units.
    COMM M25; **ENGL** M01B*•, M01BH*•, M01C•, M01CH•; **PHIL** M05;
Group C: Oral Communication (CSU requirement only), 1 course, 3 semester or 4 quarter units.
    COMM M01, M02

AREA 2: MATHEMATICAL CONCEPTS and QUANTITATIVE REASONING

1 course, 3 semester or 4 quarter units.
    MATH M05, M07, M14, M15•, M15H•, M16A•, M16B•, M21, M25A•, M25AH•, M25B, M25C•+, M31+, M35+

AREA 3: ARTS AND HUMANITIES

At least 3 courses, with at least one from the Arts and one from the Humanities, 9 semester or 12 quarter units.
    Arts: **ART** M10, M11, M12, M13, M14; **DANC** M01, M03; **FILM** M10, M15, M25, M26, M31, M32, M51; **GR** M10#, M11; **HUM** M02▲, M07*▲; **MUS** M01•, M04•, M04H•, M08, M09A, M09B; **PHOT** M40; **THA** M01, M04
    Humanities: **ARBC** M02; **CHIN** M02; **COMM** M26; **ENGL** M01B*• or M01BH*•, M13A, M13B, M14, M15A, M15B, M17, M18, M19, M20, M21, M29A, M29B, M30, M31, M33, M44; **FILM** M15, M51; **FREN** M02$, M03; **GERM** M02$, M03; **HEB** M02#; **HIST** M01A*, M01B*, M15, M16, M20A*, M20B*; **HUM** M01%, M07*▲, M10A, M10B; **ITAL** M02$; **JAPN** M02%, M03; **PHIL** M01•, M01H•, M02•, M02H•, M03, M04, M07, M08, M11, M12, M13, M14, M15#, M95; **SPAN** M02, M03•, M04•.

AREA 4 - SOCIAL AND BEHAVIORAL SCIENCES

At least 3 courses from at least 2 disciplines or an interdisciplinary sequence. 9 semester or 12 quarter units.
    4A - Anthropology and Archaeology
    ANTH M02, M03, M06, M07, M08, M09, M11 M13, M15, M16; **CHST** M02
    4B - Economics
    BUS M30+; **ECON** M01, M02, M02H
    4C - Ethnic Studies
    ANTH M13; **CHST** M02; **COMM** M12; **HIST** M03A$, M03B$, M04, M06%, M14
    4D - Gender Studies
    HIST M12, M12H$; **HUM** M19; **SOC** M10
    4E - Geography
    GEOG M02, M03, M03H, M10
    4F – History
    HIST M01A*, M01B*, M03A$, M03B$, M04, M06, M07A, M07B, M08, M09, M12, M12H$, M14, M15, M16, M20A*, M20B*, M25, M25H
    4G - Interdisciplinary, Social & Behavioral Sciences
    COMM M04; **FTVM** M01; **JOUR** M01, **PHIL** M03#
    4H - Political Science, Government & Legal Institutions
    POLS M01, M02, M03, M03H, M04, M05

4I – Psychology
    CD M02; **PSY** M01, M01H, M03%, M04, M05*, M06, M07, M08, M09*, M10, M11 ▲, M13, M14, M16 ▲, M19, M20*; **SOC** M04*, M05*, M15
4J - Sociology & Criminology
    PSY M05*, M09*, M20; **SOC** M01, M01H, M02, M04*, M05*, M08, M10, M12, M15, M16@, M60B@.

AREA 5: PHYSICAL AND BIOLOGICAL SCIENCES

At least 2 courses, one Physical Science course and one Biological Science course; at least one must include a laboratory (indicated by "L") corresponding to selected lecture. 7-9 semester units (9-12 quarter units). Courses must be a minimum of 4 semester units or 5 quarter units to fulfill the IGETC lab requirements.
Physical Sciences
    AST M01, M01L, M02; **CHEM** M01A(L),M01B(L), M07A(L)•, M07B(L)•, M11(L), M12(L)•, M12H(L)•, M13(L)•; **ENSC** M01, M01L; **GEOG** M01, M01L, M05; **GEOL** M02, M02L, M03, M05, M61%; **PHSC** M01•, M01L; **PHYS** M01•, M01L, M10A•, M10AL, M10B•, M10BL, M20A•, M20AL, M20B•, M20BL, M20C• +, M20CL+
Biological Sciences
    ANAT M01(L)•; **ANTH** M01, M01H, M01L; **BIOL** M01(L)•, M02A(L), M02B(L), M02C(L), M03(L), M05(L), M09%, M10, M10L, M16, M17; **BOT** M01 (L), M06, M06L; **ENSC** M02(L); **MICR** M01(L), M03%; **PHSO** M01(L)•; **PSY** M02, M02H; **ZOO** M01(L)
    NOTE: (L) Designates courses with a laboratory.

AREA 6: LANGUAGE OTHER THAN ENGLISH (UC Requirement ONLY)
Proficiency equivalent to two years of high school in the same language with a C or better or complete one (1) course below.
    ARBC M01; **CHIN** M01; **FREN** M01; **GERM** M01; **HEB** M01; **ITAL** M01; **JAPN** M01; **LAT** M01; **SL** M01; **SPAN** M01.

CSU GRADUATION REQUIREMENT IN U.S. HISTORY, CONSTITUTION AND AMERICAN IDEALS (Not part of IGETC; may be completed prior to transfer.) 6 units, one course from Group 1 and one course from Group 2.
GROUP 1: US – 1 (Historical development of American institutions and ideals)
HIST M03A$, M03B$, M04, M06, M07A, M07B, M12, M12H$, M14, M25, M25H
GROUP 2: US - 2 (U.S. Constitution and government) and US-3 (California state and local government)
    POLS M03, M03H, M05

NOTE:

▲	Effective beginning Spring 2004.
$	Effective beginning Spring 2006.
+	Effective beginning Spring 2007.
#	Effective beginning Fall 2007
@	Effective beginning Fall 2008
%	Effective beginning Fall 2011

* Courses listed in more than one area shall not be certified in more than one area.
• Transfer credit may be limited by either UC or CSU or both. Please consult with a counselor for additional information.

IGETC Certification Plan 2011-2012

For the University of California (UC) and California State University (CSU)

Completion of the Intersegmental General Education Transfer Curriculum (IGETC) with certification will permit a student to transfer to a UC or CSU campus without the need, after transfer, to take additional lower-division general education courses to satisfy campus-specific general education requirements. All courses taken for IGETC must be completed with a grade of "C" or better (or score of 3 or better on AP tests). Grades of "C-" are not acceptable. Once a student has completed the IGETC, they must make an appointment with an Oxnard College counselor or the Transfer Center to request certification; it is not automatic. Pre-major courses may also be completed prior to transfer and may count towards IGETC. Counselors can help students choose appropriate courses for their major and transfer goals. Students wishing to use a course to meet an IGETC requirement must be sure that the course is on the IGETC list during the academic year when it is taken. IGETC is not appropriate preparation for some colleges/majors within the UC/CSU systems. See page 84 for IGETC considerations and check on www.assist.org for updated information. Students who fully complete the IGETC for Oxnard College will be eligible to apply for a Certificate of Achievement in Intersegmental General Education Transfer Curriculum (IGETC). IGETC Certification must be requested prior to transferring.

Area 1: ENGLISH COMMUNICATION: *CSU: complete one course from each group A, B, & C.. UC: complete one course from group A and one course from group B. Each course must be 3 semester units (4-5 qtr. units).*
A: English Composition: ENGL R101
B: Critical Thinking - English Composition (Must have English Composition as a prerequisite –cannot be fulfilled by AP exam credit): ENGL R102, PHIL R111
C: Oral Communication (CSU requirement ONLY) : COMM R101, R107, R110, R111

Area 2: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING: complete one course of at least 3 semester units (4-5 qtr. units) MATH R101, R105, R106, R115, R118, R120, R121, R122, R125; PSY R103

Area 3: ARTS AND HUMANITIES: complete at least 3 courses of at least 3 semester units each (4-5 qtr. units), with at least one course from Group A Arts and one course from Group B Humanities and the third course from either group for at total of 9 semester units (12-15 qtr. units) in Area 3
A: Arts: ART R101, R102, R103; MUS R101, R103A, R116, R119; SPAN R118
B: Humanities: ANTH R105, R107, R110 R111, R113; ASL R103, 104; COMM R105 ENGL R104, R105, R107, R108, R111, R112, R131, R132, R151, R152, R153, R154, R157; HIST R100A, R100B, R105, R106, R108, R109, R110, R111, R112, R113, R114, R115, R116, R118, R119; IDS R101A, R101B, R102; PHIL R101, R102, R103, R104, R105, R106, R108, R109, R110, R114; PSY R107; SOC R104, R114; SPAN R103, R104, R107, R117;

Area 4: SOCIAL AND BEHAVIORAL SCIENCES: complete at least 3 courses, of at least 3 semester units each (4-5 qtr. units) from at least 2 academic disciplines for a total of 9 semester (12-15 qtr. units) in Area 4
A: Anthropology and Archeology: AFAM R101; ANTH R102, R103, R105, R106, R107, R110, R111, R113, R115
B: Economics: ECON R100, R101, R102
C: Ethnic Studies: AAS R101; AFAM R101; CHST R101, R107, R114; HIST R107; PSY R114; SOC R108; SPAN R107
E: Geography: GEOG R102, R104
F: History: CHST R107; HIST R100A, R100B, R102, R103, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119, R120, R121
G: Interdisciplinary, Social & Behavioral Sciences: CD R102: IDS R101A, R101B, R102, R110; COMM R113
H: Political Science, Government & Legal Institutions: POLS R100, R101, R102, R104, R105, R106, R108
I: Psychology: CHST R114; PSY R101, R104, R107, R108, R110, R114, R131; SOC R104
J: Sociology & Criminology: CD R102, R106; HIST R112; PHIL R114; PSY R107; SOC R101, R102, R103, R104, R106, R107, R108, R111, R114, R116

Area 5: PHYSICAL AND BIOLOGICAL SCIENCES: complete one course from each group; one of which must include a laboratory corresponding to selected lecture course; 7 - 9 semester (9-12 quarter units) in Area 5. Each course must be at least 3 semester units (4-5 qtr. units), except separate lab courses.
A: Physical Science: AST R101, R101L; CHEM R104, R110, R112, R120, R122, R130, R132; GEOG R101, R101L, R103; GEOL R101, R101L, R103, R103L; MST R103, R103L; PHSC R170; PHYS R101, R101L, R102, R102L, R121, R122, R131, R132, R133

B: Biological Science: ANAT R101; ANTH R101; BIOL R100, R100L, R101, R101L, R120, R120L, R122, R122L; MICR R100, R100L; MST R100, R100L, PHSO R101; PSY R105

Area 6: LANGUAGE OTHER THAN ENGLISH (UC REQUIREMENT ONLY):
Languages other than English. Proficiency equivalent to two years of high school in the same language with a "C" or better, or one of the following courses with a "C" or better: ASL R101, R102, R103, R104; JAPN R101, R101B, R102; SPAN R101, R101B, R102, R103, R104, R140, R141

High School _____ Other college course _____ AP Exam _____ Foreign high school _____

CSU GRADUATION REQUIREMENT IN U.S. HISTORY, CONSTITUTION AND AMERICAN IDEALS: 6 units
Not part of IGETC; may be completed prior to transfer. One course from Group 1 and one course from Group 2. May also be used in Area 4 at the discretion of the CSU campus.
Group 1: CHST R107; HIST R102, R103, R107, R108, R117
Group 2: POLS R100, R101, R102 (POLS R107 will also fulfill this requirement but only when combined with HIST R102)

IGETC Certification must be requested prior to transferring. Certification is not automatic. See your counselor or the Transfer Center. Students completing IGETC Certification may also apply for a Certificate of Achievement.

TRANSFER INFORMATION   OXNARD COLLEGE CATALOG 2011-2012   69

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)
2011-2012

General Education - Breadth Requirements

The Intersegmental General Education Transfer Curriculum (IGETC) is a general education program that community college transfer students can use to fulfill lower division general education-breadth requirements for either the California State University (CSU) or the University of California (UC) systems without the need, after transfer, to take additional lower division general education courses.

Approved General Education Courses

Each course must have a grade of C or better.

1. **ENGLISH COMMUNICATION:**
   CSU — Complete groups A, B and C. *UC* — Complete groups A and B.
   A. **English Composition:** One (1) course, three (3) semester units (4-5 quarter units).
      ENGL V01A.
   B. **Critical Thinking — English Composition:** One (1) course, three (3) semester units (4-5 quarter units).
      ENGL V01B; **PHIL** V05.
   C. **Oral Communication (*CSU requirement only*):** One (1) course, three (3) semester units (4-5 quarter units).
      COMM V01, V03, V10, V15.

2. **MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING:**
   One (1) course, three (3) semester units (4-5 quarter units).
   CS V17; **MATH** V04*, V20*, V21A*, V21B*, V21C, V24, V40, V44*, V46*, V52; **PSY** V04*.

3. **ARTS AND HUMANITIES:**
   At least three (3) courses, each at least three (3) semester units (4-5 quarter units), with at least one (1) course from the Arts and one (1) course from the Humanities; nine (9) semester units (12-15 quarter units).
   A. **Arts**
      AES V10, V12, V65, V66, V67; **ART** V01, V02A, V02B, V02C, V03, V04, V05, V06, V07, V08, V09; **DANC** V01; **ENGL** V29A*, V29B*; **FILM** V01; **HEC** V07; **MUS** V03, V06, V07, V08, V09A, V09B; **PHOT** V07; **THA** V01, V20, V29.
   B. **Humanities**
      AES V31; **ENGL** V01B, V15, V16, V21A, V21B, V22A, V22B, V23, V26, V30, V31, V33, V34, V35, V36A, V36B; **FREN** V02, V03, V04; **GERM** V02, V03, V04; **HIST** V01A, V01B, V18A, V18B; **IDS** V08; **ITAL** V02, V03, V04; **JAPN** V02; **PHIL** V01, V02, V03A, V03B, V06A, V06B; **SL** V10B, V10C; **SPAN** V02, V03*, V03S*, V04*, V04S*, V20; **THA** V23.

4. **SOCIAL AND BEHAVIORAL SCIENCES:**
   At least three (3) courses, each at least three (3) semester units (4-5 quarter units), from at least two (2) disciplines or an interdisciplinary sequence; nine (9) semester units (12-15 quarter units).
   AES V01, V02A*, V02B*, V11, V20, V21A, V21B, V22*, V23, V24, V40A*, V40B*, V41, V42A, V42B, V61, V62, V63*; **ANTH** V02, V03, V04, V06, V07; **AAS** V01; **CHST** V01, V02, V24; **CD** V03; **ECON** V01A, V01B; **ESRM** V03; **GEOG** V02, V06, V08; **HIST** V01A, V01B, V02A*, V02B*, V03A*, V03B*, V04A, V04B, V05A*, V05B*, V07A*, V07B*, V08, V09, V10A, V10B, V12*, V13, V14A, V14B, V15, V16, V17*, V18A, V18B, V20, V21; **JOUR** V01; **POLS** V01, V02, V03, V04, V05, V11, V12, V14, V15, V16; **PSY** V01, V02, V05, V07-V07L, V15, V25, V29, V30, V31*; **SOC** V01, V02, V03, V04, V05, V07, V13, V24, V31*.

5. **PHYSICAL AND BIOLOGICAL SCIENCES:**
   At least two (2) courses, one (1) physical science course and one (1) biological science course, one of which must include a <u>laboratory</u> corresponding to the selected lecture course; seven to nine (7-9) semester units (9-12 quarter units); each course must be at least three (3) semester units (4-5 quarter units), except separate lab courses.
   A. **Physical Sciences**
      AST V01, <u>V01L</u>; **CHEM** V01A, <u>V01AL</u>, V01B, <u>V01BL</u>, <u>V05</u>, V12A*, <u>V12AL</u>*, V12B, <u>V12BL</u>, V20*, <u>V20L</u>*, V21*, <u>V21L</u>*, V30, <u>V30L</u>;
      ESRM V02; **GEOG** V01, <u>V01L</u>, V05; **GEOL** V02, <u>V02L</u>, V03, V07, V11; **PHSC** <u>V01</u>*; **PHYS** <u>V01</u>*, V02A*, <u>V02AL</u>*, V02B*, <u>V02BL</u>*, V03A*, <u>V03AL</u>*, V03B*, <u>V03BL</u>*, V04*, <u>V04L</u>*, V05*, <u>V05L</u>*, V06*, <u>V06L</u>*.
   B. **Biological Sciences**
      AG <u>V03</u>; **ANAT** <u>V01</u>*; **ANPH** <u>V01</u>*; **ANTH** V01, <u>V01L</u>; **BIOL** V01*, <u>V01L</u>*, <u>V03</u>, <u>V04</u>, V10, V12*, V18, <u>V23</u>, V29, <u>V29L</u>; **BIOT** V18; **ESRM** V01; **MICR** <u>V01</u>; **PHSO** <u>V01</u>*;
      PSY V03.

6. **LANGUAGE OTHER THAN ENGLISH (*UC requirement only*):**
   Proficiency equivalent to two (2) years of high school study in the same language with a C or better or complete one (1) course.
   FREN V01, V02, V03, V04; **GERM** V01, V02, V03, V04; **ITAL** V01, V02, V03, V04; **JAPN** V01, V02; **SL** V10A, V10B, V10C; **SPAN** V01, V02, V03*, V03S*, V04*, V04S*.

*UC course credit may be limited. Please consult counselor or ASSIST for additional information.

U.S HISTORY, CONSTITUTION AND AMERICAN IDEALS: *CSU Graduation Requirement Only.* Not part of IGETC; may be completed prior to transfer. Six (6) units, one (1) course from Group 1 and one (1) course from Group 2. GROUP 1. **POLS** V01, V03; GROUP 2. **AES** V02A, V02B, V22, V40A, V40B, V63; **HIST** V02A, V02B, V03A, V03B, V04B, V05A, V05B, V07A, V07B, V12, V17. Courses used to meet this requirement can be used to satisfy requirements for IGETC for students who are fully or partially certified.

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Attachment 06

College Algebra Math Courses at Moorpark, Oxnard and Ventura Colleges

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Math

MATH M04B – 5 Units
Elementary and Intermediate Algebra Part B
Prerequisites: MATH M04A
Class Hours: 5 lecture

Covers square roots, rational exponents and radicals, quadratic equations and inequalities, rational expressions and equations, complex numbers, quadratic functions and graphs, inverse functions, exponential and logarithmic functions, conic sections and matrices and determinants. The second part of a two-semester course. A passing grade in both MATH M04A and MATH M04B must be obtained in order to receive unit credit for Elementary and Intermediate Algebra. Students receiving credit in both MATH M04A and MATH M04B will not receive credit for MATH M01 or MATH M03. Applies to Associate Degree.

MATH M05 – 3 Units
College Algebra
Prerequisites: MATH M03 or MATH M03B or MATH M04B
Class Hours: 3 lecture

Covers quadratic equations, non-linear inequalities, absolute value equations and inequalities, complex numbers, functions, polynomial functions, rational functions, exponential functions, logarithmic functions, systems of equations and inequalities, sequences and series, the binomial theorem, matrices, and determinants. Completing MATH M05 and MATH M06 is equivalent to completing MATH M07. Applies to Associate Degree. Transfer credit: CSU; UC (Students completing MATH M05, M06, and M07 receive maximum credit of 6 units for MC and CSU; MATH M05 and M07 combined is maximum credit, one course for UC)

MATH M06 – 3 Units
Trigonometry
Prerequisites: MATH M05
Class Hours: 3 lecture

Covers functions, trigonometric functions, solutions of triangles, radian measure, analytic trigonometry, trigonometric identities and equations, composite angle identities, inverse trigonometric functions, complex numbers and polar equations. Completing MATH M05 and MATH M06 is same as completing MATH M07. Applies to Associate Degree. Transfer credit: CSU

MATH M07 – 5 Units
College Algebra and Trigonometry
Prerequisites: MATH M03 or MATH M03B or MATH M04B
Class Hours: 5 lecture

Integrates college algebra and trigonometry. Includes basic algebraic concepts, equations and inequalities of the first and second degree, functions and graphs, linear and quadratic functions, polynomial functions of higher degree, rational functions, exponential and logarithmic functions, trigonometric functions, and analytical trigonometry. Recommended for students planning to enter the MATH M25A/B/C sequence. Completing MATH M07 is equivalent to completing both MATH M05 and MATH M06. Applies to Associate Degree. Transfer credit: CSU; UC (Students taking MATH M05, M06, M07 receive maximum credit of 6 units for MC and CSU; MATH M07 and MATH M05 combined is maximum credit, one course for UC)

MATH M09 – 3 Units
Pre-Algebra
Prerequisites: None
Recommended Prep: Competence with whole number arithmetic (addition, subtraction, multiplication, and division of whole numbers)
Class Hours: 3 lecture

Prepares students for algebra. Emphasizes basic arithmetic operations on fractions, decimals, and signed numbers. Provides drills to reinforce operations. Focuses on problem solving and practical applications on topics such as percent, proportion, and measurement. Includes an introduction to basic algebra. Completing Math M09 is the same as completing Math M09A, M09B, and M09C. Taking Math M09 and Math M09A, M09B, M09C receives a maximum credit of 3 units. Does NOT apply to Associate Degree.

MATH M09A – 1 Unit
Pre-Algebra A
Prerequisites: None
Class Hours: 3 lab

Prepares students for algebra. Emphasizes basic arithmetic operations on whole numbers and signed numbers. Provides drills to reinforce operations. Completing Math M09 is the same as completing Math M09A, M09B, and M09C. Taking Math M09 and Math M09A, M09B, M09C receives a maximum credit of 3 units. Does NOT apply to Associate Degree.

MATH M09B – 1 Unit
Pre-Algebra B
Prerequisites: None
Recommended Prep: MATH M09A
Class Hours: 3 lab

Prepares students for algebra. Emphasizes basic arithmetic operations on fractions and decimals. Includes problem solving and practical applications. Completing Math M09 is the same as completing Math M09A, M09B, and M09C. Taking Math M09 and Math M09A, M09B, M09C receives a maximum credit of 3 units. Does NOT apply to Associate Degree.

MATH M09C – 1 Unit
Pre-Algebra C
Prerequisites: None
Recommended Prep: MATH M09A and MATH M09B
Class Hours: 3 lab

Prepares students for algebra. Focuses on problem solving and practical applications on topics such as percent, proportion, and measurement. Includes an introduction to basic algebra. Completing Math M09 is the same as completing Math M09A, M09B, and M09C. Taking Math M09 and Math M09A, M09B, M09C receives a maximum credit of 3 units. Does NOT apply to Associate Degree.

MATH M10 – 3 Units
Mathematics for Elementary Teachers
Prerequisites: MATH M03 or MATH M03B or MATH M04B
Class Hours: 3 lecture

Covers language of sets, systems of numeration, nature of numbers and the fundamentals of operations, domain of integers, and fields of rational and real numbers. Not recommended for majors in physical sciences or mathematics. Applies to Associate Degree. Transfer credit: CSU; UC

MATH R101—Mathematics for the Liberal   **3 units**
      Arts Major
Prerequisites: MATH R014.
3 hours lecture weekly
This course gives the Liberal Arts major a better understanding of the deductive process and the nature of mathematics. Topics include sequences and series, counting theory, an introduction to probability, statistics and mathematical inference, graphing functions and analyzing graphs of functions. The instructor may choose to include additional topics such as network theory, exponential growth and decay, voting and apportionment, or linear programming. Character and origin of various mathematics subject fields will be explored. Field trips may be required. (2)
Transfer credit: UC credit limitations — see counselor, CSU

MATH R102—Mathematics for Elementary   **4 units**
      School Teachers
Prerequisites: MATH R014.
3 hours lecture weekly, 3 hours lab weekly
This course is designed for candidates pursuing an elementary teaching credential. It focuses on the development of quantitative reasoning skills through in-depth, integrated explorations of topics in mathematics, including: the real number system and subsystems, patterns and sequences, basic set theory, logic, and mathematical induction. Emphasis is on comprehension and analysis of mathematical concepts and applications of logical reasoning. Field trips may be required.
Transfer credit: UC, CSU

MATH R105—Introductory Statistics   **5 units**
Prerequisites: MATH R014 or MATH R014B.
5 hours lecture weekly
This course covers descriptive and inferential statistics for students of social sciences, science, education, business, and engineering. Included are discussions of graphing and interpreting graphs, measures of the center and variation, probability, normal curves, binomial tests, hypothesis testing, correlation and regression, chi-square tests, t-tests, and analysis of variance. This course also emphasizes the analysis of large data sets using technology. (2)
Transfer credit: UC, CSU

MATH R106—Mathematics for Business   **5 units**
      Applications
Prerequisites: MATH R014 or MATH R014B.
5 hours lecture weekly
This course provides students with majors in business, economics, social, and life sciences a non-trigonometric calculus course that meets their major requirements while including applications they are most likely to encounter in the future. Topics include the study of functions, limits, linear programming, college-level algebra, differentiation and related rates, maxima and minima, integration, and differential equations. It is not recommended for mathematics or physical science majors. (2)
Transfer credit: UC, CSU

MATH R115—College Algebra   **3 units**
Prerequisites: MATH R014.
3 hours lecture weekly
An advanced course in algebra, this course focuses on the study of functions and their graphs, techniques of solving equations and the recognition and creation of patterns. Students will analyze and graph functions (constant, linear, quadratic, absolute value, square root, cubic, polynomial, rational, exponential, and logarithmic). Topics also include inequalities, absolute values, analytic geometry of conic sections, systems of linear and nonlinear equations and inequalities, matrices, determinants, the binomial theorem, sequences, series, and mathematical induction. This course includes problem-solving strategies with applications to many areas including business and the social, biological, and physical sciences. (2)
Transfer credit: UC, CSU

MATH R116—College Trigonometry   **3 units**
Prerequisites: MATH R014.
3 hours lecture weekly
This course is designed to give Calculus-bound students a solid foundation in trigonometric functions. Emphasis will be placed on the trigonometric functions and their graphs, radian measure, trigonometric identities and equations, inverse trigonometric functions, complex numbers in trigonometric form, and DeMoivre's Theorem. Special topics in trigonometry, such as solving right-triangle applications, law of sines, law of cosines, parametric equations, vectors, polar coordinates, and curves in polar form are also included. (2).
Transfer credit: CSU

MATH R118—Precalculus Mathematics   **5 units**
Prerequisites: MATH R014.
5 hours lecture weekly
This course gives the calculus-bound student a solid foundation in precalculus algebra and analytic trigonometry, with emphasis on function concepts and graphing. Topics include equations and inequalities, analytic geometry of lines and conic sections, properties of functions, techniques of graphing, elementary functions (linear, quadratic, rational, exponential, logarithmic, and trigonometric) and inverse functions, trigonometric identities and equations, polar graphing, optimization applications, systems of equations, theory of equations, mathematical induction, binomial theorem, sequences, and series. (2)
Transfer credit: UC, CSU

MATH R120—Calculus with Analytic Geometry I   5 units
Prerequisites: MATH R118, or both MATH R115 and MATH R116.
5 hours lecture weekly
The first course in the calculus sequence, this course combines elements of analytic geometry with calculus applications. It includes the study of functions, limits, the derivative, continuity, techniques and applications of differentiation, and an introduction to the anti-derivatives and integration. (2)
Transfer credit: UC, CSU

MATH R121—Calculus with Analytic   **5 units**
      Geometry II
Prerequisites: MATH R120.
5 hours lecture weekly
As the second course in the calculus sequence, this course emphasizes Integral Calculus, techniques of integration, and applications of definite integrals. It also includes the study of infinite series, conic sections, and parametric equations. (2)
Transfer credit: UC, CSU

MATH R122—Calculus with Analytic   **5 units**
      Geometry III
Prerequisites: MATH R121.
5 hours lecture weekly
As the third course in the calculus sequence, this course reviews the calculus of several variables and solid analytic geometry. It includes the study of vectors and surfaces in space, partial derivatives, multiple integrals, vector valued functions, cylindrical and spherical coordinate systems, line and surface integrals, vector fields, Green's Theorem, parametric surfaces, Jacobians, Lagrange Multipliers, Stoke's Theorem, and the Divergence Theorem. (2)
Transfer credit: UC, CSU

MATH V03C - INTERMEDIATE ALGEBRA: MODULE III - 1 Unit
Prerequisite: MATH V03B with grade of P
Hours: 1 lecture weekly

This course is the third of a five-course sequence (MATH V03A-V03E). Completion of all five courses is equivalent to MATH V03. Topics will include positive, negative and fractional exponents, radicals, radical equations, and complex numbers. Under the guidance of the instructor, students will complete self-paced interactive competency-based computer assignments, including possible review of previously learned topics. More than one course in the sequence may be completed within the term. Students receiving credit in MATH V03A-V03E will not receive credit in MATH V03 or MATH V35.

Offered on a pass/no pass basis only.

MATH V03D - INTERMEDIATE ALGEBRA: MODULE IV - 1 Unit
Prerequisite: MATH V03C with grade of P
Hours: 1 lecture weekly

This course is the fourth of a five-course sequence (MATH V03A-V03E). Completion of all five courses is equivalent to MATH V03. Topics will include solution of quadratic equations using factoring, the square root property, completing the square, and the quadratic formula, as well as equations reducible to quadratic form, graphing quadratic functions and conic sections, and solving word problems involving quadratic equations and quadratic inequalities. Under the guidance of the instructor, students will complete self-paced interactive competency-based computer assignments, including possible review of previously learned topics. More than one course in the sequence may be completed within the term. Students receiving credit in MATH V03A-V03E will not receive credit in MATH V03 or MATH V35.

Offered on a pass/no pass basis only.

MATH V03E - INTERMEDIATE ALGEBRA: MODULE V - 1 Unit
Prerequisite: MATH V03D with grade of P
Hours: 1 lecture weekly

This course is the fifth of a five-course sequence (MATH V03A-V03E). Completion of all five courses is equivalent to MATH V03. Topics will include composite and inverse functions, properties of logarithms, common and natural logarithms, exponential and logarithmic equations, and solving word problems involving logarithmic and exponential equations. Under the guidance of the instructor, students will complete self-paced interactive competency-based computer assignments, including possible review of previously learned topics. More than one course in the sequence may be completed within the term. Students receiving credit in MATH V03A-V03E will not receive credit in MATH V03 or MATH V35.

Offered on a pass/no pass basis only.

MATH V04 - COLLEGE ALGEBRA - 4 Units
Prerequisite: MATH V03 or MATH V03A-V03E; or 1 year of high school intermediate algebra (Algebra II) with grade of C or better; or placement as measured by the college assessment process

This course introduces the number system and basic laws of algebra, determinants and matrices, variation, functional notation and curve plotting, theory of equations, and complex numbers.

Formerly Math 4. Transfer credit: CSU; UC; credit limitations - see counselor.

MATH V05 - PLANE TRIGONOMETRY - 3 Units
Prerequisite: MATH V03 or MATH V03A-V03E; or 1 year of high school intermediate algebra (Algebra II) with grade C or better; or placement as measured by the college assessment process
Hours: 3 lecture weekly

This course examines the six basic trigonometric functions, their definitions, relationships, and uses as they apply to: radian measure, right triangle solution, identities, trigonometric equations, graphs, inverse functions, and complex numbers.

Formerly Math 5. Transfer credit: CSU.

MATH V06 - MATH SUMMER BRIDGE - 1 Unit
Recommended preparation: MATH V09 or MATH 09A-V09C or high school basic math with grade of C or better; or MATH V10 or MATH V10A-V10C or 1 year of high school prealgebra with grade of C or better; or MATH V01 or MATH V01A-V01E or MATH V11B or 1 year of high school beginning algebra with grade of C or better
Hours: 2 lecture-laboratory weekly

This course introduces the skills necessary to succeed in college math and a short "refresher" of the prerequisites to algebra courses. It is designed for students taking their first community college math course or having difficulty passing algebra. Based on math placement at the first class, students will be divided into three groups (pre-algebra, elementary algebra and intermediate algebra). The course will include short lectures given by the instructor and group work organized by tutors. Students will participate in math games, applications and skill-building exercises.

Offered on a pass/no pass basis only.

MATH V09 - BEGINNING MATHEMATICS - 3 Units
Recommended preparation: LS V07 or placement as measured by the college assessment process
Hours: 3 lecture weekly

This course is a review of the basic mathematical skills and fundamental operations as applied to integers, fractions, and percentages. It provides an introduction to algebra, simple geometric figures, the metric system, and the use of formulas. Students receiving credit in MATH V09 will not receive credit in MATH V09A-V09C.

Formerly Math 9. Not applicable for degree credit.

MATH V09A - BEGINNING MATHEMATICS: MODULE I - 1 Unit
Recommended preparation: LS V07 or placement as measured by the college assessment process
Hours: 1 lecture weekly

This course is the first of a three-course sequence (MATH V09A-V09C). Completion of all three courses is equivalent to MATH V09. This first course in the sequence is a review of the basic mathematical skills and fundamental operations as applied to whole numbers. It provides an introduction to the metric system and use of formulas. Under the guidance of the instructor, students will complete self-paced interactive competency-based computer assignments, including possible review of previously learned topics. More than one course in the sequence may be completed within the term. Students receiving credit in MATH V09A-V09C will not receive credit in MATH V09.

Offered on a pass/no pass basis only. Not applicable for degree credit.

MATH V09B - BEGINNING MATHEMATICS: MODULE II - 1 Unit
Prerequisite: MATH V09A
Hours: 1 lecture weekly

This course is the second of a three-course sequence (MATH V09A-V09C). Completion of all three courses is equivalent to MATH V09. This second course in the sequence is a review of the basic mathematical skills and fundamental operations as applied to fractions and percentage as well as applications. Under the guidance of the instructor, students will complete self-paced interactive competency-based computer assignments, including possible review of previously learned topics. More than one course in the sequence may be completed within the term. Students receiving credit in MATH V09A-V09C will not receive credit in MATH V09.

Offered on a pass/no pass basis only. Not applicable for degree credit.