

## Santa Monica College Curriculum Committee Meeting Agenda

Wednesday, March 3, 2010 3:00 p.m.

Loft Conference Room (DH-300E) Third Floor, Drescher Hall

Members:

Guido Davis Del Piccolo, Chair

Georgia Lorenz, Vice Chair

Brenda Antrim
Brenda Benson
Karissa Gonzalez
Diane Gross
Nancy Hanson

Eleni Hioureas Maral Hyeler Randal Lawson Helen LeDonne Judy Marasco

Walter Meyer Eric Minzenberg

Estela Narrie

Christina Preciado Judith Remmes Saul Rubin

Jeff Shimizu Edie Spain

Mary Lynne Stephanou

Gary Taka

Diana Wattapongsakorn

Interested Parties:

Jonathan Cohanne Mary Colavito Ellen Cutler Kiersten Elliott Mona Martin Mitra Moassessi Katharine Muller Wendy Parise Eleanor Singleton Julie Yarrish

. ExOfficio Members:

Eric Oifer

Cameron Henton

Agenda:

Approval of Minutes

Chairs Report:

State Approvals

Information Items:

- 1. Accounting 01: Accounting 1 (course update)
- 2. Business 32: Business Communication (course update)
- CIS 51: XHTML, CSS, and Accessibility (course update; title change—from Web Page Design Using XHTML and CSS)
- CIS 56: Web Media Production (course update; title change—from Multimedia for the Web)
- 5. CIS 57: Web Planning and Production (course update; title change—from Website Management)
- 6. CS 32: Database Programming in VB Net (course update)
- 7. CS 37: Web Programming in VB Net (course update)
- 8. ECE 11: Child, Family and Community (requests UC transferability)
- 9. ECE 23: Fieldwork in Early Intervention (course update)
- 10. ECE 50A: Parent Skills Development (course update; course number change—from ECE 50)

Information Items: (Program Review-Dance)

- 1. Dance 02: Dance in American Culture (course update)
- 2. Dance 05: Dance History (course update)
- 3. Dance 09: Dance Production (course update)

#### (Info Items-cont.)

- 4. Dance 16: Advanced Modern Jazz (course update)
- 5. Dance 17: Beginning Tap (course update)
- 6. Dance 18: Intermediate Tap (course update)
- 7. Dance 19: Ballroom Dance (course update)
- 8. Dance 20: Ethnic Dance (course update)
- 9. Dance 21: Asian Pacific Dance Survey (course update)
- 10. Dance 24: Flamenco Dance 1 (course update)
- 11. Dance 25: African Dance (course update)
- 12. Dance 27: Brazilian Dance (course update)
- 13. Dance 37: Beginning Pointe (course update)
- 14. Dance 55A: Dance Performance-Modern/Contemporary (course update)
- 15. Dance 55B: Dance Repertory-Modern /Contemporary (course update)
- 16. Dance 57A: World Dance Performance (course update)
- 17. Dance 57B: Dance Repertory-Ethnic (course update)
- 18. Ethnic Dance Staging Techniques (course update)
- 19. Dance 59A: Dance Performance-Ballet (course update)
- 20. Dance 79: Dance in New York City (course update)

### New Courses-

Credit:

- 1. Cosmetology 50B: State Board Practical
- 2. Cosmetology 50C: State Board Written
- 3. ECE 20: High Scope Curriculum

#### Distance Education:

1. ECE 20: High Scope Curriculum

#### Certificates:

- 1. Business Merchandising Department Certificate
- 2. Business Entrepreneurship Department Certificate
- 3. Business International Department Certificate
- 4. Business Management Department Certificate
- 5. Business Logistics Department Certificate
- 6. Business Marketing Department Certificate
- 7. Early Childhood Education Core Department Certificate
- 8. Fashion Design: Certificate of Achievement
- 9. Website Creator Department Certificate (revised)
- 10. Website Software Specialist Certificate of Achievement (revised)

#### AA Degrees:

- 1. Fashion Merchandising: Associate in Arts Degree
- 2. Website Software Specialist: Associate in Arts Degree (revised)

#### Old Business:

- Transfer Degree Debate
- 2. Life Science Prerequisites

#### New Business:

- 1. Application of International Baccalaureate Exam to SMC's
  - A.A. General Education Pattern
- 2. Chancellor's Office: Avocational, Recreational, and Personal Development Courses
- 3. Study Abroad Approval Process Subcommittee

### Adjournment



## SANTA MONICA COLLEGE CURRICULUM COMMITTEE MEETING MINUTES OF DECEMBER 2, 2009

The Santa Monica College Curriculum Committee was called to order by Guido Davis Del Piccolo at 3:09 p.m.

**Members Present:** 

Guido Davis Del Piccolo,

Georgia Lorenz, Vice Chair

Brenda Benson Karissa Gonzalez

Diane Gross Nancy Hanson Eleni Hioureas Maral Hyeler Randy Lawson Emily Lodmer Walter Meyer

Eric Minzenberg Estela Narrie

Christina Preciado

**Judith Remmes** Saul Rubin

Jeff Shimizu Edie Spain

Mary Lynne Stephanou

Gary Taka

Diana Wattapongsakorn

Carol Womack

Members Absent:

Helen LeDonne

Others Present:

Amber Katharine

Christine Schultz

**Bob Ware** 

Approval of Minutes: The minutes of November 18, 2009 were unanimously approved.

Chair's Report:

- Guido announced that the Academic Senate on November 24, 2009 approved the following: New Course—Energy 01; Distance Education— Business 31; Prerequisite of English 1 added—Biology 21, 22, and 23.
- Guido went to the Business Department to discuss Auto 50 (which was submitted to the Curriculum Committee as a Global Citizenship course in Ecological Literacy and not approved in Spring 2009). They discussed the possibility of adding a fourth category more geared to vocational courses.
- Guido and Estela Narrie were invited to the Student Affairs Committee to discuss the Administrative Regulations regarding the wording for the IGETC and CSUGE Certificates of Achievement. Language for the change is being considered by the Student Affairs Committee.

Information Items:

- 1. Anthropology 02: Cultural Anthropology (course update)
- 2. Anthropology 14: Sex, Gender and Culture (course update)
- 3. English 26/Humanities 26: Introduction to the Humanities (course update) 4. Political Science 22: Environmental Politics and Policies (course update)

#### Information Items:

(Program Review: Dance)

- 1. Dance 14: Beginning Modern Jazz (course update)
- 2. Dance 15: Intermediate Modern Jazz (course update)
- 3. Dance 22: Beginning Mexican Jazz (course update)
- 4. Dance 23: Intermediate Mexican Jazz (course update)

#### Information Items:

(Program Review: Library)

- 1. Library 01: Library Research Methods (course update)
- 2. Library 03: Advanced Library Research Methods (course update)

#### (Info Items—cont.)

- 4. Dance 16: Advanced Modern Jazz (course update)
- 5. Dance 17: Beginning Tap (course update)
- 6. Dance 18: Intermediate Tap (course update)
- 7. Dance 19: Ballroom Dance (course update)
- 8. Dance 20: Ethnic Dance (course update)
- 9. Dance 21: Asian Pacific Dance Survey (course update)
- 10. Dance 24: Flamenco Dance 1 (course update)
- 11. Dance 25: African Dance (course update)
- 12. Dance 27: Brazilian Dance (course update)
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- 14. Dance 55A: Dance Performance-Modern/Contemporary (course update)
- 15. Dance 55B: Dance Repertory-Modern /Contemporary (course update)
- 16. Dance 57A: World Dance Performance (course update)
- 17. Dance 57B: Dance Repertory-Ethnic (course update)
- 18. Ethnic Dance Staging Techniques (course update)
- 19. Dance 59A: Dance Performance-Ballet (course update)
- 20. Dance 79: Dance in New York City (course update)

### New Courses—

Credit:

- 1. Cosmetology 50B: State Board Practical
- 2. Cosmetology 50C: State Board Written
- 3. ECE 20: High Scope Curriculum

### Distance Education:

1. ECE 20: High Scope Curriculum

#### Certificates:

- 1. Business Merchandising Department Certificate
- 2. Business Entrepreneurship Department Certificate
- 3. Business International Department Certificate
- 4. Business Management Department Certificate
- 5. Business Logistics Department Certificate
- 6. Business Marketing Department Certificate
- 7. Early Childhood Education Core Department Certificate
- 8. Fashion Design: Certificate of Achievement
- 9. Website Creator Department Certificate (revised)
- 10. Website Software Specialist Certificate of Achievement (revised)

#### AA Degrees:

- 1. Fashion Merchandising: Associate in Arts Degree
- Website Software Specialist: Associate in Arts Degree (revised)

#### Old Business:

- 1. Transfer Degree Debate
- 2. Life Science Prerequisites

#### New Business:

- 1. Application of International Baccalaureate Exam to SMC's
- A.A. General Education Pattern
- 2. Chancellor's Office: Avocational, Recreational, and Personal Development Courses
- 3. Study Abroad Approval Process Subcommittee

#### Adjournment

(Information Items cont.)

3. Library 10A-Z: Information Resources: Selected Disciplines (course update)

Note: Library 15 is not on the agenda. Ways are being explored to bring this course back redesigned to fit the mission of the college.

### Consent Agenda:

1. Photo 60: Business Practices in Photography—presented by Bob Ware. (course update; unit change *from* 2 units to 3 units).

Eric Minzenberg moved to approve the Consent Agenda. The motion passed unanimously.

### Global Citizenship:

 Anthropology 02: Cultural Anthropology—presented by Eric Minzenberg.

The following changes were made: Course Objectives—Change #D to read: "Analyze the significance of, and employ, cross-cultural comparison within the field of cultural anthropology." Change #F to read: "Explain the ethical issues anthropologists are faced with, and professional ethical obligations that must be met in the study of cultural groups different from their own."

Diane Gross moved to approve Anthropology 2 as a Global Citizenship course. The motion passed with 13 yes votes and 6 abstentions.

2. Anthropology 14: Sex, Gender and Culture—presented by Eric Minzenberg.

The following change was made: Course Description: The first sentence should read: "Using an anthropological framework, this course presents a cross-cultural survey of the position of men and women throughout the world."

Carol Womack moved to approve Anthropology 14 as a Global Citizenship course. The motion passed with 18 yes votes and 1 abstention.

3. Political Science 22: Environmental Politics and Policies—presented by Amber Katharine and Christine Schultz.

The following change was made to the Course Outline: Skills Advisory: Eligibility for English "1."

Nancy Hanson moved to approve Political Science 22 as a Global Citizenship course. The motion passed unanimously.

#### **Distance Education:**

1. English 26/Humanities 26: Introduction to the Humanities—presented by Judith Remmes.

The following change was made: Course Objectives—Change #E to read: "Recognize the relationship between religion and the arts in the western tradition."

Saul Rubin moved to approve English 26/Humanities 26 as a Distance Education course. The motion passed unanimously.

#### **New Business:**

 Transfer Degree Debate—Resolution AB440 of the Academic Senate for California Community Colleges. This bill deals with having 18 units in an area of emphasis or major in addition to the general education courses. The Academic Senate of California Community Colleges has asked for input from community colleges. The recently adapted resolution opposes eliminating local degree requirements.

Estela Narrie stated that the Articulation and Transfer Committee does not favor this resolution. There was limited discussion due to the lateness of the meeting. This will be on the first agenda in the Spring.

2. AR 5110 Curriculum Committee Structure, Functions, Responsibilities, Meetings

Due to time constraints, this discussion will be held in the Spring.

3. Application of International Baccalaureate Exam to SMC's A.A. General Education Pattern

Due to time constraints, this discussion will be held in the Spring.

Adjournment:

The meeting was adjourned at 5:11 p.m.

**Next Meeting:** 

The next meeting of the Curriculum Committee will be Wednesday, March 3, 2010 at 3:00 p.m. in <u>DH-300E</u>, The Loft.

Respectfully submitted, Georgia Lorenz

## **COURSE APPROVAL AND DATA SHEET**

COL	JRSE APPROVAL AND DATA OHEE.	Request Date:	1-6-10
1.	Course Number C O S M 5 0 B New	First Semester: Total Instruction Revised X	Summer al Hours: 81 Reinstated
2.	Course Title for Schedule of Classes: State Board Practic	al- Prep	
3.	Units: 1.5 Hours/Week: 4.5 (Lec	_in-Class Lab4.5_	Arranged)
4.	Prerequisites: Completion of the minimum of 1000 hours of o	cosmetology training	
5.	Printed Catalog and Class Schedule Description:		
	The State Board Practical-Prep class is a class that will prepare Board practical exam required to obtain a cosmetology license hairstyling, thermal pressing and curling with Marcel iron, hair curls, manicure, pedicure, acrylic nails, nail repair, (silk and pefacial, plain facial) Hair removal, (tweezers and wax), soft per straightening (sodium hydroxide), cold wave (permanent wave (predisposition test), disinfection, sanitation and safety process.	e. The state board proc cutting, finger waving, r aper), facial (chemical f m (ammonium thioglyco e), hair coloring, bleach	coller placement, pin acial, dermal light blate), hair
6.	Rationale for addition of the course to the curriculum:		
	This is an existing course containing the practical and written to retake or study the class a second time, they have to take proposal for this class is to separate the two components so needed.	nan componens a ur	ncentrate on the area
7.	Should this course be in the A.A. General Education Patt	tern? Yes	No X
	Social Human	ll Science Science nities age and Rationality I Citizenship Requiren	nent
	required: Certificates of Achievement in which this course fulfills an option: Dept. Certificates in which this course is required: Dept. Certificates in which this course fulfills a requirem	NA NA NA nent: NA	. No V
8.	Should this course be transferable? to CSU YesN * If you are requesting UC transferability, please list	a comparable lower d	
	offered at one of the UC campuses: UC Campus: Course Num Course Title	iber: :	
9.	Physical Univer Arts, Literature, Social, Political Understanding	e CSU general education  I hat part of the pattern  In the English Language  Se and Life Forms  Philosophy and Foreicand Economic Institution  The part of the par	n: age ign Language tions

10.	Should this course be recommended for inclusion in the IGETC pattern?										
	Yes No X If yes,				please indicat	e what	part of the pat	tern:			
		English Communication									
	Mathematical Concepts and Quantitative Reasoning										
	Arts and Humanities										
				***************************************	Social and B	ehavior	al Sciences				
				***************************************	Biological/Pl						
					Foreign Lan	_					
					_ Foreign Lan	juaye			•		
11.	Should this Number of		se be repeat	able?	Yes	2 X	No	N/A			
12.	Course loa Rationale:	d facto	or suggested	d by depa	rtment:75	<u> </u>					
13.	(Refer to: M by The Boar	<i>linimun</i> rd of Go	n Qualification overnors)	ns for Faci		strators		mmunity College			
14.	Are the red	uired	documents	submitte	d?						
	• Course	Outlin	ne of Record	i	Yes	X	No	N/A			
			Corequisite	and		X	h1	ALLA			
			Checklist		Yes	· <del></del>	_ No	N/A	****		
			Worksheet		Yes	X	No	N/A			
			ance Skills) nship Requi		163	·	_				
			on for Appro		Yes	<b>;</b>	No	N/A			
			ication Chec		Yes		No	N/A X			
			ication Gnet		Yes		No	N/A X			
	- 100 100 100113										

## Santa Monica College

### Course Outline For State Board Practical Prep COSM 50B

Course Title: State Board Practical

Date Submitted:

Updated:

January 6, 2010

Units: 1.5 IGETC Area: CSU GE Area: Transfer: N/A

### I. Catalog Description:

Prerequisite: Completion of at least 1000 hours of Cosmetology coursework

The State Board Practical-Prep class is a class that will prepare the student to take the California State Board practical exam required to obtain a cosmetology license. The state board procedures include; wet hairstyling, thermal pressing and curling with Marcel iron, haircutting, finger waving, roller placement, pin curls, manicure, pedicure, acrylic nails, nail repair, (silk and paper), facial (chemical facial, dermal light facial, plain facial) Hair removal, (tweezers and wax), soft perm (ammonium thioglycolate), hair straightening (sodium hydroxide), cold wave (permanent wave), hair coloring, bleaching, P.D. test (predisposition test), disinfection, sanitation and safety procedures.

### II. Required Text and References:

Milady's Standard Cosmetology Textbook: Milady's Publishing Company, 2004

Milady's Standard Cosmetology Practical Workbook: Milady's Publishing Company, 2004

Milady's Standard Cosmetology Theory Workbook: Milady's Publishing Company, 2004

### III. Course Objectives:

Upon completion of the course students will be able to:

- A. Demonstrate ability to pass the State Board practical exam.
- B. Describe State Board procedures.
- C. Integrate proper State Board practical procedures with the following subjects:

Disinfectant and sanitation procedure

**Predisposition Test** 

9 Hair color applications (virgin tint light and dark, dye back, virgin bleach, toner on pre lightened hair, toner retouch, retouch light and dark, bleach retouch).

Soft perm

Hair cutting

Hair straightening

Cold wave (permanent Waving)

Thermal hair styling (soft and hard press and Marcel iron)

Wet hair styling

Facials (plain, scrub, dermal light)

Hair removal (tweezers and wax)

Manicure, pedicure

Nail tips

Nail repair (silk and paper)

### Santa Monica College Cosmetology 50B: State Board Practical Page 2 of 3

Acrylic nails (sculpture nails)

- D. Demonstrate the proper use of cosmetology equipment.

  E. Demonstrate safe practices in of all above

#### IV. Methods of Presentation:

Lectures/Power point Demonstration Video/DVD Information Sheets Field Trip

#### ٧. **Course Content:**

<u>Percentage</u>	
of Term	<u>Topic</u>
5%	Disinfectant and sanitation procedure
10%	California Cosmetology Rules and Regulations
2.5%	Predisposition Test
10%	9 Hair color applications (virgin tint light and dark, dye back, virgin bleach, toner on pre lightened hair, toner retouch, retouch light and dark, bleach retouch).
10%	Soft perm
8%	Hair cutting
8%	Hair straightening
8%	Cold wave (permanent Waving)
8%	Thermal hair styling (soft and hard press and Marcel iron)
8%	Wet hair styling
5%	Facials (plain, scrub, dermal light)
5%	Hair removal (tweezers and wax)
5%	Manicure, pedicure
2.5%	Nail tips
2.5%	Nail repair (silk and paper)
2.5%	Acrylic nails (sculpture nails)

#### Methods of Evaluation: (Actual percentages will vary from instructor to instructor but VI. approximate values are shown.)

Practical Final	20%
Written Final	50%
Verbal Testing	20%
Participation	10%
100 - 90 = A 89 - 80 = B 79 - 70 = C 69 - 60 = D	

59 Below Fail

### Santa Monica College Cosmetology 50B: State Board Practical Page 3 of 3

### VII. Sample Assignment:

Research steps and make flash cards for hair color applications including: virgin tint dark, virgin tint light, virgin bleach, dye back, and virgin toner on pre lightened hair to assist you in the practical applications of color.

## **Santa Monica College**

## **Student Learning Outcomes**

Date: January 19, 2010

Course Name and Number: COSM 50B: Practical Preparation for State Board

Exam

### **Student Learning Outcome(s):**

1. Analyze and follow all State Board procedures mandated by the State of California.

As assessed by:

Practical exams given to the students and observed by the instructor that could be implemented by the State Board of California.

2. Demonstrate and utilize techniques that lessen anxiety commonly associated with test taking.

As assessed by:

Students will be given multiple practical exams within a given period of time allowing instructor to assess student test taking progress.

## Demonstrate how this course supports/maps to at least one program and one institutional learning outcome. Please include all that apply:

Program Outcome(s):

Students will recognize all cosmetology practical program procedures in every aspect in the cosmetology field.

COSM 50B expects that students will complete all services following all of the state board procedures

2. Institutional Outcome(s):

### ANALYTIC & COMMUNICATION SKILLS-

obtain the knowledge and academic skills necessary to access, evaluate, and interpret ideas, images, and information critically in order to communicate effectively, reach conclusions, and solve problems;

COSM 50B expects that the students analytical skills are used to analyze the hair, skin and nails of each client to better serve their needs in completing all services following the state board procedures.

## **COURSE APPROVAL AND DATA SHEET**

	Request Date: 1-6-10
1.	First Semester: Summer  Total Instructional Hours: 54  Course Number C O S M 5 0 C New X Revised Reinstated
2.	Course Title for Schedule of Classes: State Board Practical- Prep
3.	Units: 1 Hours/Week: 3 (LecIn-Class Lab_3Arranged)  (Full Semester Equivalent)
4.	Prerequisites: Completion of the minimum of 1000 hours of cosmetology training
5.	Printed Catalog and Class Schedule Description:
	This theory course is designed to successfully prepare the student to take the written portion of the California State Board exam required to obtain a cosmetology license. State Board written testing includes: wet hairstyling, thermal pressing and curling with Marcel iron, haircutting, finger waving, roller placement, pin curls, manicure, pedicure, acrylic nails, nail repair, (silk and paper), facial (chemical facial, dermal light facial, plain facial, hair removal (tweezers and wax), soft perm (ammonium thioglycolate), hair straightening (sodium hydroxide), cold wave (permanent wave), P.D. test (predisposition test), disinfection, sanitation and safety procedures.
6.	Rationale for addition of the course to the curriculum:
	This is an existing course containing the practical and written components' of the class. If a student needs to retake or study the class a second time, they have to take both components at the same time. The proposal for this class is to separate the two components so that the student can concentrate on the area needed.
7.	Should this course be in the A.A. General Education Pattern? Yes No X
	Please indicate what part of the pattern:  Social Science  Humanities  Language and Rationality  Global Citizenship Requirement
	A.A. majors in which this course is required: Cosmetology A.A. majors in which this course fulfills an option: NA Certificates of Achievement in which this course is Cosmetology required: Certificates of Achievement in which this course fulfills NA an option: Dept. Certificates in which this course is required: NA Dept. Certificates in which this course fulfills a requirement: NA
8.	chould this course be transferable? to CSU Yes No X to UC* Yes NoX_
	* If you are requesting UC transferability, please list a comparable lower division course offered at one of the UC campuses:  Course Number: Course Title:
9.	Should this course be recommended for inclusion in the CSU general education pattern?
	Yes No X If yes, please indicate what part of the pattern:
	Communication in the English Language
	Physical Universe and Life Forms  Arts, Literature, Philosophy and Foreign Language
	Arts, Literature, Philosophy and Foreign Language Social, Political and Economic Institutions
	Understanding and Self Development
	American History and Institutions
	With the state of

10.	Should this course be recommend	ed for inclus	ion in 1	he IGE	TC pattern?						
	Yes No X If yes, please indicate what part of the pattern:										
		English Communication									
	Mathematical Concepts and Quantitative Reasoning										
	***************************************	Arts an	d Hum	anities	i						
					al Sciences						
	***************************************				Science						
				•	30101100						
		Foreigi	Lang	uaye							
11.	Should this course be repeatable? Number of times:		Yes	X 2	No	N/A					
12.	Course load factor suggested by d	lepartment: _	75_								
13.	Appropriate discipline(s) for facul (Refer to: <i>Minimum Qualifications for</i> by The Board of Governors)  The faculty teaching this course must ha equivalent.	Faculty and A	dminis	trators							
14.	Are the required documents subm • Course Outline of Record	nitted?	Yes	<u> </u>	No	N/A					
	<ul> <li>Prerequisite, Corequisite and</li> </ul>			X		****					
	Advisory Checklist		Yes		_ No	N/A	<del></del>				
	Prerequisite Worksheet		Van	X	No	N/A					
	(Exit/Entrance Skills)	<b>4</b>	Yes			$\overline{\mathbf{x}}$					
	<ul> <li>Global Citizenship Requireme Application for Approval</li> </ul>	IIL	Yes		No	N/A					
	Distance Education Checklist		Yes		No	N/A X					
	Distance Education Form		Yes		No	N/A X	·····				
							<del></del>				

## SIGNATURE PAGE

1.	Course Number & Title COSM 50C Writte	en Preparation for State Board Exam
2.	Approvals	
	Department Vote: Yes 3 No Not Voting	Date: <u>2-23-2010</u>
	Department Chair: Helen LeDonne Gelen Mile	nne Date: 2-23-2010
	Librarian:	Date: 24 Feb10
	List of suggested materials has been given to libra	man ivo <u>ii</u>
	Library has adequate materials to support course	Yes X No
3.	Signatures of Approval	
	Articulation Officer:	Date:
	Instructional Dean:	Date:
	Curriculum Committee:	Date:
	Academic Senate:	Date:
	Board of Trustees:	Date:

COSM 50C Written Preparation for State Board Exam

## Santa Monica College

# State Board Written COSM 50C

Course Title:

State Board Written

Units: 1

Date Submitted:

IGETC Area:

CSU GE Area: Transfer: N/A

Updated:

July 1, 2009

### I. Catalog Description:

Prerequisite: Completion of at least 1000 hours of Cosmetology coursework

This theory course is designed to successfully prepare the student to take the written portion of the California State Board exam required to obtain a cosmetology license. State Board written testing includes: wet hairstyling, thermal pressing and curling with Marcel iron, haircutting, finger waving, roller placement, pin curls, manicure, pedicure, acrylic nails, nail repair, (silk and paper), facial (chemical facial, dermal light facial, plain facial, hair removal (tweezers and wax), soft perm (ammonium thioglycolate), hair straightening (sodium hydroxide), cold wave (permanent wave), P.D. test (predisposition test), disinfection, sanitation and safety procedures.

### II. Required Text and References:

Milady's Standard Cosmetology Textbook: Milady's Publishing Company, 2004

Milady's Standard Cosmetology Practical Workbook: Milady's Publishing Company, 2004

Milady's Standard Cosmetology Theory Workbook: Milady's Publishing Company, 2004

## III. Course Objectives:

Upon completion of the course students will be able to:

- A. Demonstrate the ability to pass the State Board written exam (Cosmetology State Board Rules and Regulations).
- B. Describe State Board procedures.
- C. Integrate proper State Board theory procedures in the following subjects:

Disinfectant and sanitation procedure

**Predisposition Test** 

9 Hair color applications (virgin tint light and dark, dye back, virgin bleach, toner on pre lightened hair, toner retouch, retouch light and dark, bleach retouch).

Soft perm

Hair cutting

Hair straightening

Cold wave (permanent Waving)

Thermal hair styling (soft and hard press and Marcel iron)

Wet hair styling

Facials (plain, scrub, dermal light)

Hair removal (tweezers and wax)

Manicure, pedicure

Nail tips

Nail repair (silk and paper)

### Santa Monica College Cosmetology 50C: State Board Written Page 2 of 2

Acrylic nails (sculpture nails)

D. Demonstrate the proper use of cosmetology equipment.

## IV. Methods of Presentation:

Lectures/Power point Demonstration Video/DVD Information sheets

### V. Course Content:

Percentage of Term 5% 10% 2.5% 10%	Topic Disinfectant and sanitation procedure California Cosmetology Rules and Regulations Predisposition Test 9 Hair color applications (virgin tint light and dark, dye back, virgin bleach, toner on pre lightened hair, toner retouch, retouch light and dark, bleach retouch).
10%	Soft perm
8%	Hair cutting
8%	Hair straightening
8%	Cold wave (permanent Waving)
8%	Thermal hair styling (soft and hard press and Marcel iron)
8%	Wet hair styling
5%	Facials (plain, scrub, dermal light)
5%	Hair removal (tweezers and wax)
5%	Manicure, pedicure
2.5%	Nail tips
2.5%	Nail repair (silk and paper)
2.5%	Acrylic nails (sculpture nails)

# VI. Methods of Evaluation: (Actual percentages will vary from instructor to instructor but approximate values are shown.)

Written Final	50%
Verbal Testing	30%
Participation	20%
• •	

100 - 90 = A 89 - 80 = B 79 - 70 = C 69 - 60 = D 59 Below Fail

## VII. Sample Assignment:

Research steps and make flash cards for the draping, safety and procedure for electrical facial using blue, red and white dermal lights to assist you in the understanding of the theory related to the procedure.

## Santa Monica College

## **Student Learning Outcomes**

Date: January 19, 2010

Course Name and Number: COSM 50C: Written Preparation for State Board Exam

## Student Learning Outcome(s):

1. Analyze and follow all State Board procedures mandated by the State of California.

As assessed by:

Written exams given to the students and observed by the instructor that could be implemented by the State Board of California.

Demonstrate and utilize techniques that lessen anxiety commonly associated with test taking.

As assessed by:

Students will be given multiple written exams within a given period of time allowing instructor to assess student test taking progress.

## Demonstrate how this course supports/maps to at least one program and one institutional learning outcome. Please include all that apply:

Program Outcome(s): 1.

> Students will recognize and understand all theory of the cosmetology procedures in every aspect in the cosmetology field.

> COSM 50C expects that students will completely understand the theory of all services as well as all of the state board procedures

Institutional Outcome(s): 2.

## ANALYTIC & COMMUNICATION SKILLS--

obtain the knowledge and academic skills necessary to access, evaluate, and interpret ideas, images, and information critically in order to communicate effectively, reach conclusions, and solve problems;

COSM 50C expects that the students analytical skills are used to analyze the hair, skin and nails of each client to better serve their needs in completing all services mandated by the state board procedures.

## **COURSE APPROVAL AND DATA SHEET**

			Request Date:	2/4/2010
			First Semester: Total Instruction 54	nal Hours:
1.	Course Number E C E 2 0	New X	Revised	Reinstated
2.	Course Title for Schedule of Classes: High	h Scope Curriculu	m ·	
3.	Units: 3 Hours/Week: 3 (Full Semester Equivalent	· —	In-Class Lab	_Arranged)
4.	Prerequisites: None			
5.	Printed Catalog and Class Schedule Desc	eription:		
	This course outlines the foundational principle framework model derived from Piagetian the learn best from activities that they themselve encouraged to engage in a variety of key expactively contribute to their own development	ory. This curriculun es plan, carry out, ar periences that help t	n views children as nd reflect upon. The	active learners who children are
6.	Rationale for addition of the course to the	e curriculum:		
	This is one type of curriculum used in Head for children. One of our goals is to assist the offers our ECE students a variety when sele degree options.	Head Start program	ns with their staff de	evelopment, it also
7.	Should this course be in the A.A. Genera Please indicate what part of the pattern:	Matural Social S	cience ience	No x ment
	A.A. majors in which this course is requi A.A. majors in which this course fulfills a	an option: Early ( Interve	Childhood Education ention Assistant / Ea ention Teacher	n / Early Childhood arly Childhood Educatior
	Certificates of Achievement in which this	s course is none	•	
	required: Certificates of Achievement in which this an option:			ducation / Early ntion Assistant / Early on Intervention Teacher
	Dept. Certificates in which this course is Dept. Certificates in which this course fu	required: Ilfills a requiremen	none t: none	
8.	Should this course be transferable? to  * If you are requesting UC transferab	ility, please list a c	omparable lower	
	offered at one of the UC campuses:	UC Campus:	Similar course transfer to UC	es at other CCC
	,	Course Numbe Course Title:	r:	
9.	Should this course be recommended for	r inclusion in the C	SU general educa	tion pattern?
•		lease indicate wha Communication in		1000
	•	COMMINICATION IN	tire Linguali Lange	<sup>iaye</sup> 19

Physical Universe and Life Forms
Arts, Literature, Philosophy and Foreign Language
Social, Political and Economic Institutions
Understanding and Self Development
American History and Institutions

10.	Should this course be recom	mended for i	inclusion in th	e IGETC	patterr	າ?							
	Yes x No If yes, please indicate what part of the pattern:												
	700 X	E	English Communication										
			lathematical C			uantitat	ive Re	asoning					
			rts and Huma										
			ocial and Bel		cience	s							
			liological/Phy			_							
			<del></del>										
		·F	oreign Langu	aye									
11.	Should this course be repeat Number of times:	able?	Yes		No	x	N/A						
12.	Course load factor suggester Rationale:	d by departn	nent:1.0	<del></del>									
13.	Appropriate discipline(s) for (Refer to: <i>Minimum Qualificatio</i> by The Board of Governors)	r faculty tead ns for Faculty	ching the cou and Administ	rse: rators in C	alifornia	a Comm	unity C	Colleges ad	lopted				
	•			tul Calcana	ما داله								
	Masters in Early Childhood Ed	ucation, Educ	cation , or Spe	ciai Educa	ITION								
14.	Are the required documents	submitted?	Yes	x	No		N/A						
	<ul> <li>Course Outline of Record</li> <li>Prerequisite, Corequisite</li> </ul>		100					X					
	Advisory Checklist	ana	Yes		No		N/A						
	Prerequisite Worksheet							X					
	(Exit/Entrance Skills)		Yes		No		N/A						
	<ul> <li>Global Citizenship Requi</li> </ul>	irement	<b></b>		No		N/A						
	Application for Appr	oval	Yes		No No	**************************************	N/A						
	Distance Education Che		Yes	<u>X</u>	No	<del></del>	N/A						
	<ul> <li>Distance Education Form</li> </ul>	n	Yes	<u>x</u>	NO		. (3//7						
							-						

## SIGNATURE PAGE

1. Course Number & Title Early Childhood Education 20

2.	Approvals				
	Department Vote: Yes <u>5</u> No <u>0</u> Not Voti	ng <u>n/a</u> Date	: Nover	nber 30, 20	009
	Department Chair: Laura Manson	Date	: Febru	ary 9, 201	D
	Librarian:	Date	: 16	FEB 2	010
	List of suggested materials has been given to	librarian Yes	<u>X</u>	No	
	Library has adequate materials to support co		×	No	
3.	Signatures of Approval				
3.	Signatures of Approval	_			
	Articulation Officer:	<u></u>	ate:		
	Instructional Dean:	D	ate:		<u></u>
	Curriculum Committee:	D	ate:		
	Academic Senate:		ate:		·
	Board of Trustees:		ate:		

## Associate Degree Course Criteria and Standards, as per Title V, Section 55002

Department \_Early Childhood Education Course Number:20

Full Course Title: High Scope Curriculum (up to 35 characters, including spaces)

Items 1 through 14 below. If any criterion is not met, course credit is non-applicable toward th	Criterion	Criterion	Criterion
(☑ □ Copy and paste where appropriate)	Met	Not Met	Null
1.This course is a collegiate course meeting the needs of students eligible for admission. It will be offered as described in the course outline of record (attached).	X		
2. This course is to be taught by an instructor with a masters or higher degree, or the equivalent, in an approved discipline.	X		
3.The course outline of record specifies the unit value, scope, student objectives and content in terms of a specific body of knowledge.	X		
4.The course outline of record specifies requested reading and writing assignments, and other assignments to be done outside of class (homework).	X		
5.The course outline of record specifies instructional methodology and methods of evaluation for determining whether the stated student objectives have been met.	X		
6. This course will be taught in accordance with a set of instructional objectives common to all students enrolled in the course (all sections).	X		
7.This course will provide for the measurement of student performance in terms of the stated course objectives. A formal grade based upon uniform standards of student evaluation will be issued for the permanent record of each student.	X		
8. This formal grade will be based on student ability to demonstrate proficiency in the subject matter by means of either (1) written essays, (2) problem solving exercises, or (3) student skill demonstrations.	X		
9.The number of units of credit assigned to the course is based upon the number of lecture, laboratory, and/or activity hours as specified in the course outline.	X		
10. A minimum of three hours of work per week (including class time) is required for each unit of credit, prorated for short term, lab and activity courses.	X		
11.Subject matter is treated with a scope and intensity which requires students to study independently outside of class time.	X		. 0
12.Learning skills and a vocabulary deemed appropriate for a college course are required. Educational materials used are judged to be college level.	X		
13.Repeated enrollments are not allowed, except as permitted by provisions of Division 2, Title V, Sections 55761-55763 and 58161.	X		
14.Student ability to (1) think critically and (2) understand and apply concepts at a college level is required in order to participate in the course.	X		
Section II – Recommendations for Prerequisites  15.Are entrance skills and consequent prerequisites for the course required? If yes, state the	e recommende	d prerequisites.	NO
16. Is eligibility for enrollment in a certain level of English and/or mathematics necessary for state the English and/or math level necessary for success. <b>N/A</b>	success in this	course? If yes,	
English level recommended:			

Math level recommended:\_\_

## Santa Monica College

### **Course Outline For ECE 20**

Course Title: High Scope Key Experience Curriculum

Units: 3

IGETC Area: Not Applicable

CSU GE Area: Not Applicable

CSU GE Area: Transfer: CSU

Date Submitted: February 1, 2010

Updated:

#### **Catalog Description:** 1.

Prerequisite: None

This course outlines the foundational principles of the High/Scope Preschool Curriculum which is an open-framework model derived from Piagetian theory. This curriculum views children as active learners who learn best from activities that they themselves plan, carry out, and reflect upon. The children are encouraged to engage in a variety of key experiences that help them to make choices, solve problems, and actively contribute to their own development.

#### Required Text and References: 11.

Hohmann and Weiker, Educating Young Children, 3rd Edition, High Scope Press: Ypsilanti, MI, 2008.

#### **Course Objectives:** III.

Upon completion of the course students will be able to:

- Understand the historical development of the High Scope Curriculum with emphasis on Jean Piaget and the constructivist approach as well as the research involved in the project.
- Identify the developmental characteristics of all young children, both typically and atypically developing including the following: cognitive, social-emotional, language and physical development.
- C. Develop activities and techniques to enhance the child's learning in each of the key experiences.
- D. Design a classroom environment and activities that support active learning and socialemotional development.
- Describe the teaching strategies used in the High Scope approach during the plan, do, and review portions of a child's day.
- Describe the elements of positive adult-child interactions and its importance in laying the foundation for all learning.
- G. Record and interpret observations of children using key experience notes, anecdotal observations and checklists.
- H. Describe the teacher's role in creating positive partnerships with families.
- Recognize the value of and strategies involved in teaching in a team comprised of school personnel and families.

## Santa Monica College ECE 20: High Scope Key Experience Curriculum Page 2 of 3

## IV. Methods of Presentation:

Lecture/ Powerpoint Video Group discussions

## V. Course Content:

Descriptions	
Percentage	Topic
of Term	Overview of High Scope Curriculum
15%	a. Theoretical foundations
	b. Child development
	c. Components of active learning
	d. Adult-Child interaction strategies
	Working with families
15%	Room Arrangement/classroom environment
1570	a. Setting up activity centers
	b. Materials
	c. Labeling
15%	Daily Routine
, , , ,	a. Elements of the daily routine
	b. Sequence of the daily routine
	c. Plan-do-review strategies
15%	Curriculum
	a. Use of key experiences as a framework for curriculum
	<ul><li>b. Planning for small group experiences</li><li>c. Teacher's role during work time, small groups and circle time</li></ul>
	c. Teacher's role during work time, small groups and
20%	Curriculum Planning/ Assessment
	a. Daily planning - use of team planning     b. Child Obervation and assessment
	c. Use of the Child Assessment Record
20%	Key Experiences  a. Creative representation
	b. Language and literacy
	c. Initiative and social relations
	d. Movement
	e. Music
	f. Classification
	g. Seriation
	h. Number
	i. Space
	j. Time

## VI. Methods of Evaluation:

(Actual percentages will vary from instructor to instructor but approximate values are shown.)

Percentage 35% 10% 30%	Evaluation Method Preschool Observation Journal entries Key Experience / Curriculum lesson plans
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### Santa Monica College ECE 20: High Scope Key Experience Curriculum Page 3 of 3

**Evaluation Method** Percentage

Quizzes 15%

Case Studies 10%

#### Sample Assignments: VII.

1) Child Study: Watching and Listening to an Active Learner For 10 - 20 minutes, observe a child aged 3-5 years old at play alone or with others. As you watch and listen, record your observations by checking the appropriate items on the Essential Ingredients Summary checklist. If you check an item, note the verifying evidence. Write a summary of your findings.

2) Answer the following questions. Your paper should be a minimum of 2 pages and maximum of 5:

1. Why do many early childhood educators wish to teach young children to recite, recognize, and write alphabet letters?

2. In an active learning setting, how do children learn about alphabet letters and letter sounds?

3. Children who lack hearing, sight, or speech nevertheless retain the desire to communicate. Why is it important for adults to focus on their communication initiatives rather than on their

4. What is the relationship between language and literacy and creative representation?

## Santa Monica College

## **Student Learning Outcomes**

Date: February 2010

Course Name and Number: ECE 20: High Scope Key Experience Curriculum

## Student Learning Outcome(s):

Students will analyze the principles of the High Scope educational approach by comparing/contrasting High Scope educational approach with one other constructivist early childhood curriculum models. (For example Montessori, Reggio Emilia, Bank Street).

As assessed by: written documentation

Students will describe the philosophical basis of the High Scope Educational approach as it relates to active learning, use of key experiences, room arrangement, the plan-do-review cycle, and teacher planned but child oriented learning experiences.

As assessed by: written documentation

Demonstrate how this course supports/maps to at least one program and one institutional learning outcome. Please include all that apply:

Program Outcome(s): 1. Understanding content knowledge in Education\* Students understand the importance of each content area in children's learning. Students know the essential concepts, inquiry tools, and structure of content areas, and can identify resources.

#### Rationale:

Design a classroom environment and activities that supports active learning and socialemotional development.

Institutional Outcome(s):

ANALYTIC & COMMUNICATION SKILLS--

Through their experiences at SMC, students will obtain the knowledge and academic skills necessary to access, evaluate, and interpret ideas, images, and information critically in order to communicate effectively, reach conclusions, and solve problems;

### Rationale:

Record and interpret observations of children using key experience notes, anecdotal observations and checklists

## DISTANCE EDUCATION REVIEW AND APPROVAL CHECKLIST

Course Name: Early Childhood Education 20 Instructor Preparing Course:

Distance Education course meets the same standard of course quality as is applied to traditional classroom courses in the following categories, as stated in the official course outline of record:
x_ Course objectives have not changed.
x Course content has not changed.
x_ Method of instruction meets the same standard of course quality.
x_ Outside assignments meet the same standard of course quality.
_x Required texts meet the same standard of course quality.
x Serves comparable number of students per section as a traditional course in the same department
Additional considerations for all distance education courses:
x_ Determination and judgments about the equality of the distance education course were made with the full involvement of the faculty as defined by Administrative Regulation 5420 and college curriculum approval procedures.
x Adequate technology resources exist to support this course/section
x Library resources are accessible to students.
x Specific expectations are set for students with respect to a minimum amount of time per week for student and homework assignments.
x_ Adequately fulfills "effective contact between faculty member and student" required by Title 5
x Will not affect existing or potential articulation with other colleges
x Special needs (i.e., texts, materials, etc.) are reasonable
x Complies with current access guidelines for students with disabilities
Evaluation methods are in place to produce an annual report to the Board of Trustee on activity in offering this course or section following the guidelines to Title 5 Section 55317 (see attachment) and to review the impact of distance education on this program through the program review process specified in accreditation standard 2B.2.
Santa Monica College has a legal and ethical obligation to ensure equal access to electronic information technology (e.g., software, computers, web pages0 for all students. Consistent with this obligation, the technology-based components of our course will reflect current accessibility design standards. Support ir implementing these standards is available through Academic Computing and Disabled Student Services.
Department vote:5Yes0No0Abstain0Not Voting
Approvals: President, Academic Senate
Librarian Chair, Academic Senate Curriculum Committee
Web Accessibility Specialist
Chief Instructional Officer

### For the Curriculum Committee

# QUESTIONS FOR FACULTY PREPARING DISTANCE EDUCATION CLASSES (An additional page for more complete answers may be attached)

## NAME OF CLASS Early Childhood Education 20: High Scope Curriculum

- 1. How specifically will your methods of instruction change in delivering the course online? Describe the specific methods of instruction you will use for this online class. For example, if you typically present a lecture followed by small and large group discussion, how will you teach this same lesson in the online environment? (Keep in mind that in the online environment, written lectures do not get read.)
  - a. Lectures topics would be presented via PowerPoint using articulate or Zentation (<a href="http://www.zentation.com/">http://www.zentation.com/</a>) which combines video and PowerPoints presentations
  - b. Small group discussions will be done via threaded discussion groups followed by a large group debriefing discussion.
- 2. How specifically will your methods of evaluation change?

Methods of evaluation will be the same online as on-ground.

- 3. Does eCollege support your technology needs? What other software does your course need?
  - a. Yes, eCollege will support the technology needed for this course. Audio and video lessons
- 4. What are the benefits of offering this course content via distance education?
  - a. It will reach a wider range of students who are employed and have multiple responsibilities.
- 5. What are the anticipated challenges with teaching this course via distance education? (Consider pedagogical, practical, and technical challenges.)
  - a. Assisting students who enroll in the online class but are not technologically savvy or do not understand the importance of self motivation, organization and time management are consistently a challenge for me as an online instructor. Often these students end up dropping, being dropped, or failing the class. I am hoping to develop more online strategies to assist students to be successful in the online environment.
- 6. What experience do you have with the technology needed to support your method of delivering this course via distance education? If you have little or none, what training do you anticipate undertaking to facilitate the delivery of your class?
  - a. I have been teaching online since Spring 2005 and I take advantage of several professional development opportunities offered through eCollege, @ONE and Distance Education GEEK club.

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- 7. In which semester do you wish to begin offering this distance education class? Spring 2011
- 8. How do you propose to establish and maintain regular and effective contact with students as required by Title V, Section 55211?
  - a. Virtual office
  - b. Announcements posted in the virtual classroom
  - c. Email
  - d. Phone contact
  - e. Office hours by apppointment

## Business Management Department Certificate—12 units

#### Required courses:

Business 1, Introduction to Business (3)

Business 20, Principles of Marketing (3)

Business 32, Business Communication (3)

Business 65, Management Principles (3)

### Additional recommended courses:

Business 62, Human Relations and Ethical Issues in Business (3)

Business 51, Intercultural Business Communication (3)

Business 76, Human Resource Management (3)

Business 5, Business Law (3)

Business 54, International Management (3)

Accounting 1, Accounting 1, (5)

### Business Logistics Department Certificate--12 units

### Required courses:

Business 80, Principles of Logistics (3)

Business 81, Transportation Management (3)

Business 82, Supply Chain Management (3)

Business 83, Operations Management (3)

### Additional recommended courses:

Business 1, Introduction to Business (3)

Business 51, Introduction to International Business (3)

Business 52, International Marketing (3)

Business 53, Importing and Exporting (3)

## Business Marketing Department Certificate—12 units

### Required courses:

Business 1, Introduction to Business (3)

Business 20, Principles of Marketing (3)

Business 26, Marketing Research and Consumer Behavior (3)

### Choose one of the following:

Business 22, Introduction to Advertising (3)

Business 23, Principles of Selling (3)

Business 28, Marketing Promotion (3)

Business 52, International Marketing (3)

## **Business Department Department Certificates of Completion** February 2010

### **Business Merchandising** Department Certificate—12 units

Required courses:

Business 20, Principles of Marketing (3)

Business 21, Merchandising Principles (3)

Business 25, Advertising Display

<u>And</u>

Choose one from the following:

Business 1, Introduction to Business (3)

Business 22, Introduction to Advertising (3)

Business 23, Principles of Selling (3)

## **Business Entrepreneurship** Department Certificate—12 units

Required courses:

Accounting 21, Business Bookkeeping (3) or Accounting 1, Accounting 1 (5)

Business 5, Business Law (3) or Business 32, Business Communication (3)

Business 63, Principles of Entrepreneurship (3)

Choose one from the following:

Business 1, Introduction to Business (3)

Business 27, Introduction to e-Commerce (3)

Business 50, Introduction to International Business (3)

Business 65, Management Principles (3)

Business 80, Principles of Logistics (3)

Accounting 35/CIS 35 Quickbooks (3)

### **Business International** Department Certificate—12 units

Required courses:

Business 50, Introduction to International Business (3)

Business 52, International Marketing (3)

Business 53, Importing and Exporting (3)

Choose one from the following:

Business 1, Introduction to Business (3)

Business 32, Business Communication (3)

Business 54, International Management (3)

Business 80, Principles of Logistics (3)

### **Early Childhood Education**

Early Childhood Education Core Department Certificate

### Required Coursework: (12 Units)

- 1. Psychology 11- Child Growth and Development
- 2. Early Childhood Education 2- Principles and Practices in Early Childhood programs
- 3. Early Childhood Education 11- Home, School and Community
- 4. Chose one of the following:
  - Early Childhood Education 4
  - Early Childhood Education 5
  - Early Childhood Education 8
  - Early Childhood Education 17

#### Rationale:

This certificate mirrors the courses required to obtain the Associate Teacher Permit according to the Child Development Permit Matrix issued by the California Commission on Teaching Credentialing. It will outline the 12 core units needed for employment in a California Community Care Licensed program, thus making the requirements apparent to students.

Note: All who desire to work in an early childhood setting are required to take these core classes. Students taking these classes are often post BA/BS and come to SMC to take these units. Other students take the 12 core units and then transfer to a 4 year institution. Not all of our early childhood education students complete the traditional 27 unit Early Childhood Education certificate. Without this certificate, we are unable to capture this group of completers.

Application Date

## California Community Colleges SUBSTANTIAL CHANGES TO AN APPROVED CREDIT PROGRAM

SUBSTANTIAL CHANGES TO AN A	APPROV	ED CREDIT PROGRAM	
Fashion Design  ITTLE OF PROPOSED PROGRAM  TITLE OF EXISTING PROGRAM (IF DIFFERENT)  1303.10  EXISTING PROGRAM T.O.P. CODE  Santa Monica College  Santa Monica	DE	Georgia Lorenz CONTACT PERSON  Dean, Instruction TITLE  (310) 434-4277 PHONE NUMBER  lorenz georgia@smc.edu E-MAIL ADDRESS	
upon approval PROJECTED START DATE FOR CHANGE GOAL(S) OF PROGRAM (CHECK ALL THAT APPLY):	NSFER	☐ OTHER	
PLANNING	SUMM	ARY	1303.10
Type of change requested: Check all that apply.  Replace Existing Program		Recommended T.O.P. Code	1303.10
Add new Certificate of Achievement		Units for Degree Major or Area	
Add Degree to Existing Certificate Program		of Emphasis	40

## DEVELOPMENT CRITERIA NARRATIVE & DOCUMENTATION

Attach a document that describes the development of the proposed program, addressing the five criteria as listed below. Number the sections of the narrative to match the lists below. If appropriate, you may note that a section is "not applicable" but do not re-number the sections. Provide documentation in the form of attachments as indicated.

## Criteria A. Appropriateness to Mission

- 1. Statement of goals and objectives for existing program, including new changes.
- 2. Catalog description for existing program, including new option.

Add new Option/Track to Existing Degree

Delete Existing Degree Major, Area of

Emphasis, Track or Option Delete Existing Certificate

- 3. New program requirements.
- Optional: Discussion of background and rationale (if needed).

### Criteria B. Need

- 5. Enrollment and Completer Projections
- 6. Place of proposed change in the curriculum relation to existing program and options; relation to other programs at your college.
- Discussion of impact on other colleges in region (optional for transfer only programs).
- Analysis of labor market need or job availability (for career technical education only).

### Criteria C. Curriculum Standards

9. Transfer applicability to two 4-year institutions (if applicable).

Attachment: Course outlines for required courses (required for all applications).

Attachment: Articulation Agreements (if applicable).

## If applicable to revised program:

- 10. Criteria D-Adequate Resources: Facilities, additional faculty, and new equipment or library resources
- 11. Criteria E-Compliance: Enrollment restrictions and licensing or accreditation standards

40

30

Required Units-Certificate

Projected Annual Completers

Criteria A. Appropriateness to Mission

- Statement of goals and objectives for existing program, including new changes. Santa Monica College would like to offer a Certificate of Achievement in Fashion Design which mirrors our existing Associate in Arts degree in Fashion Design. We would like to give students the option of completing either a certificate or a degree in this field. By offering a certificate of achievement, students will receive acknowledgment of completion of a body of work in Fashion Design without also being obligated to complete 60 units and the general education pattern. This will allow students to have proof of their accomplishment and to get out into the workforce faster.
- Catalog description for existing program, including new option. Fashion designers create new apparel and accessory designs. They may sketch the garment, cut the pattern, select the fabric and materials, and in some cases construct the sample garment. They may arrange for the showing of a line at sales meetings and/or fashion shows.

At least 50% of the required units for Certificates of Achievement must be completed at Santa Monica College. Each course must be completed with a grade of C or higher.

40 units are required to complete the certificate.

New program requirements.

The requirements for the proposed certificate of achievement will be the same as the major for the A.A. degree in Fashion Design.

Fashion Design 40 units Core Classes (9 units)

Fashion 1, Trends and Design (3)

Fashion 3, Apparel Construction (3)

Fashion 9A, Fashion Illustration & Merchandising (3)

Second Level Classes (11-12 units)

Fashion 2, Color Analysis (3)

Fashion 5, Fashion Buying (3)

Fashion 10, Advanced Design & Construction (3)

Fashion 6A, Pattern Analysis and Design (2) OR Fashion 13, Draping I (3)

Third Level Classes (8 units)

Fashion 6B, Pattern Drafting and Design Intermediate (3)

Fashion 11, Tailoring (2)

Fashion 14, Draping II (3)

Fourth Level Classes (9 units)

Fashion 7, Fabrics for Fashion Design and Merchandising (3)

Fashion 8, History of Fashion Design (3)

Fashion 12, Fashion Show Production (3)

Electives (3 units)

Art 10A, Design I (3)

Art 20B, Drawing II

Business 63, Principles of Entrepreneurship (3)

Fashion 9B, Advanced Fashion Illustration and Advertising (2)

Fashion 15, Ethnic Fashion (3)

Fashion 16, Pattern Grading 92)

Fashion 17, Apparel Production Manufacturing Techniques (3)

Fashion 18, Computer Assisted Fashion Illustrator and Design (2)

Fashion 19, Fashion Marketing (3)

Fashion 20, Window Display for Fashion (3)

Optional: Discussion of background and rationale (if needed). N/A

#### Criteria B. Need

5. Enrollment and Completer Projections

The Fashion Design program at Santa Monica College has experienced steady enrollment. While it is one of our smaller programs, it has proven to be popular among our students. 18 sections were fully enrolled in Fall 2009. In addition several students engaged in independent study and internships in the field. 22 sections were offered in Spring 2009. The total annual enrollment estimate for Fashion Design courses is approximately 800 (duplicated). We estimate that there will be 30 certificate completers per year.

6. Place of proposed change in the curriculum – relation to existing program and options; relation to other programs at your college.

The college currently offers a certificate of achievement in Fashion Merchandising but only an AA degree in Fashion Design. By creating a certificate option for students in Fashion Design, we will allow students the flexibility to take the required courses in the major without the obligation of fulfilling the general education requirements and an additional 20 units. This will fulfill a student need by helping students to pursue jobs in the field more quickly with proof of their academic accomplishment in hand. The required courses are the same as those for the degree. Some of the courses are shared with the Fashion Merchandising program, and these two programs are operated in the same department utilizing the same resources and faculty.

- 7. Discussion of impact on other colleges in region (optional for transfer only programs).

  Adding a certificate of achievement option for students in Fashion Design will have no impact on other colleges in the region. The Fashion Design degree program has been operating for many years. We do not anticipate increasing the number of sections offered or expanding the program in any way to accommodate the new certificate, so there should be no additional impact to other colleges.
- Analysis of labor market need or job availability (for career technical education only).
   We are not proposing a new CTE area of study, only the addition of a certificate of achievement option.

According to EMSI (Economic Modeling Specialists, Inc.) there will be a 9% increase in the jobs available in the field of Fashion/Apparel Design between 2009 and 2014 in the Los Angeles County area. There will be 213 annual openings and 642 replacement jobs. See attachment.

### Criteria C. Curriculum Standards

9. Transfer applicability to two 4-year institutions (if applicable). N/A

Attachment: Course outlines for required courses (required for all applications). See attached.

Attachment: Articulation Agreements (if applicable). N/A

If applicable to revised program:

- 10. Criteria D-Adequate Resources: Facilities, additional faculty, and new equipment or library resources

  The addition of the certificate of achievement option in Fashion Design will not require any new investment of
  facilities, equipment, funding or faculty.
- 11. **Criteria E-Compliance:** Enrollment restrictions and licensing or accreditation standards

  The Fashion Design program is an open access program which does not have additional licensing requirements or accreditation standards.

## REVISION OF EXISTING CERTIFICATE (February 2010)

## REVISED - WEBSITE CREATOR (15 units) (effective Fall 2010)

### Required Courses: (15 units)

CIS 50, Internet, HTML and Web Design (3)

CIS 51, XHTML, CSS, and Accessibility (3)

CIS 59A, Dreamweaver I (3)

CIS 54, Web Page Development and Scripting (3)

CIS 60A, Photoshop I (3)

## **CURRENT - Certificate for Comparison Purposes**

### Required Courses: (15 units)

CIS 50, Internet, HTML and Web Design (3)

CIS 51, Web Page Design Using XHTML and CSS (3)

CIS 53, Microsoft Expression Web (3) or CIS 59A, Dreamweaver I (3)

CIS 54, Web Page Development and Scripting (3)

CIS 60A, Photoshop I (3)

### **Recommended Courses:**

CIS 58, Designing Accessible Websites (3)

CIS 61, Fireworks (3)

Application Date



### California Community Colleges

### SUBSTANTIAL CHANGES TO AN APPROVED CREDIT PROGRAM

Fashion Merchandising TITLE OF PROPOSED PROGRAM			Georgia Lorenz CONTACT PERSON Dean, Instruction	
TITLE OF EXISTING PROGRAM (IF DIFFERENT)			TITLE	
1303.20 EXISTING PROGRAM T.O.P. CODE	03283 EXISTING PROGRAM UNIQUE CO	DDE	(310) 434-4277 PHONE NUMBER	
Santa Monica College COLLEGE	Santa Monica DISTRICT		lorenz_georgia@smc.edu E-MAIL ADDRESS	
upon approval PROJECTED START DATE FOR CHANGE GOAL(S) OF PROGRAM (CHECK A)  CAREER TECHNICAL EDUCATION		NSFER	□ other	
·	PLANNING	SUMM	IARY	
Type of change requested Replace Existing Pro		П	Recommended T.O.P. Code	1303.20
Add new Certificate	of Achievement ng Certificate Program		Units for Degree Major or Area of Emphasis	40
	ck to Existing Degree	ㅁ		
Delete Existing Degr Emphasis, Track or O Delete Existing Certi	ee Major, Area of Option		Required Units—Certificate Projected Annual Completers	20

### DEVELOPMENT CRITERIA NARRATIVE & DOCUMENTATION

Attach a document that describes the development of the proposed program, addressing the five criteria as listed below. **Number** the sections of the narrative to match the lists below. If appropriate, you may note that a section is "not applicable" but do not re-number the sections. Provide documentation in the form of attachments as indicated.

### Criteria A. Appropriateness to Mission

- 1. Statement of goals and objectives for existing program, including new changes.
- 2. Catalog description for existing program, including new option.
- 3. New program requirements.
- 4. Optional: Discussion of background and rationale (if needed).

### Criteria B. Need

- 5. Enrollment and Completer Projections
- 6. Place of proposed change in the curriculum relation to existing program and options; relation to other programs at your college.
- 7. Discussion of impact on other colleges in region (optional for transfer only programs).
- 8. Analysis of labor market need or job availability (for career technical education only).

### Criteria C. Curriculum Standards

9. Transfer applicability to two 4-year institutions (if applicable).

Attachment: Course outlines for required courses (required for all applications).

Attachment: Articulation Agreements (if applicable).

### If applicable to revised program:

- 10. Criteria D-Adequate Resources: Facilities, additional faculty, and new equipment or library resources
- 11. Criteria E-Compliance: Enrollment restrictions and licensing or accreditation standards

### Criteria A. Appropriateness to Mission

- 1. Statement of goals and objectives for existing program, including new changes.

  Currently Santa Monica College only offers a certificate of achievement in Fashion Merchandising. We would like to give students the option of pursuing an Associate in Arts degree in this field. The goals and objectives of the program remain unchanged.
- 2. Catalog description for existing program, including new option.

  Fashion merchandisers select, purchase, promote, and sell clothing and accessories. They study fashion trends and visit

Fashion merchandisers select, purchase, promote, and sell clothing and accessories. They study fashion trends and visit manufacturers and merchandise markets. They work as part of a team and consult with managers and buyers, advise the advertising and display departments, and organize and coordinate promotional activities such as fashion shows. They may advance to become buyers and purchasing agents, sales representatives, and managers.

Students must complete major requirements in effect at the time enrollment begins or major requirements in effect at graduation as long as continuous enrollment is maintained. At least 50% of the required major units must be completed at Santa Monica College. All coursework for the major must be completed with a grade of C (2.0) or higher.

Graduation from Santa Monica College with the Associate in Arts degree is granted upon successful completion of a program of studies of 60 units with a grade point average of C (2.0) or higher. Each program of study is composed of State and local requirements. The General Education requirements consist of 18 units in the following five areas:

- I. Natural Science (3 units)
- II. Social Science (6 units)
- III. Humanities (3 units)
- IV. Language and Rationality (6 units)
- V. Global Citizenship (3 units)- please note, courses from other areas may be used to fulfill more than one area
- 3. New program requirements.

Fashion Merchandising major 40 units

Core Classes (9 units)

Fashion 1, Trends and Design (3)

Fashion 3, Apparel Construction (3)

Fashion 9A, Fashion Illustration & Merchandising (3)

Second Level Classes (9 units)

Fashion 2, Color Analysis (3)

Fashion 5, Fashion Buying (3)

Fashion 6A, Pattern Analysis and Design (2) OR Fashion 13, Draping I (3)

Third Level Classes (9 units)

Fashion 7, Fabrics for Fashion Design and Merchandising (3)

Fashion 12, Fashion Show Production (3)

Fashion 19, Fashion Marketing (3)

Fourth Level Classes (8 units)

Fashion 8. History of Fashion Design (3)

Fashion 9B, Advanced Fashion Illustration and Advertising (2)

Fashion 15, Ethnic Fashion (3)

Electives (5 units)

Art 10A, Design I (3)

Art 20B, Drawing II

Business 31, Business English Fundamentals (3)

Business 63, Principles of Entrepreneurship (3)

CIS 1, Computer Concepts with Applications (3)

Fashion 6B, Pattern Drafting and Design Intermediate (3)

Fashion 11, Tailoring (2)

Fashion 14, Draping II (3)

Fashion 16, Pattern Grading (2)

Fashion 17, Apparel Production Manufacturing Techniques (3)

Fashion 18, Computer Assisted Fashion Illustrator and Design (2)

Fashion 20, Window Display for Fashion (3)

4. Optional: Discussion of background and rationale (if needed). N/A

### Criteria B. Need

5. Enrollment and Completer Projections

The Fashion Merchandising program at Santa Monica College has experienced steady enrollment. While it is one of our smaller programs, it has proven to be popular among our students. 18 sections were fully enrolled in Fall 2009. In addition several students engaged in independent study and internships in the field. 22 sections were offered in Spring 2009. The total annual enrollment estimate for Fashion Merchandising courses is approximately 800 (duplicated). We estimate that there will be 15 AA degree completers per year.

6. Place of proposed change in the curriculum – relation to existing program and options; relation to other programs at your college.

The college currently offers a certificate of achievement in Fashion Merchandising but not an AA degree. The addition of an AA degree option for students will give students the choice to pursue a degree that provides a broader base of academic coursework that will serve them well in the workplace. This includes mathematics, writing skills, communication skills, and knowledge areas that are part of the general education requirements. Possessing a degree as opposed to a certificate may allow the student to advance along the career ladder more quickly and earn a higher salary as well.

The required courses are the same as those for the certificate. Most of the courses are shared with the Fashion Design degree program, and these two programs are operated in the same department utilizing the same resources and faculty.

- 7. Discussion of impact on other colleges in region (optional for transfer only programs).

  Adding a degree option for students in Fashion Merchandising will have no impact on other colleges in the region. The Fashion Merchandising certificate program has been operating for many years. We do not anticipate increasing the number of sections offered or expanding the program in any way to accommodate the new degree, so there should be no additional impact to other colleges.
- 8. Analysis of labor market need or job availability (for career technical education only). We are not proposing a new CTE area of study, only the addition of a degree option.

According to EMSI (Economic Modeling Specialists, Inc.) there will be a 9% increase in the jobs available in the field of Fashion/Apparel Design between 2009 and 2014 in the Los Angeles County area. There will be 213 annual openings and 642 replacement jobs. See attachment.

### Criteria C. Curriculum Standards

9. Transfer applicability to two 4-year institutions (if applicable). N/A

Attachment: Course outlines for required courses (required for all applications). See attached.

Attachment: Articulation Agreements (if applicable). N/A

### If applicable to revised program:

- 10. Criteria D-Adequate Resources: Facilities, additional faculty, and new equipment or library resources
  The addition of the degree option in Fashion Merchandising will not require any new investment of facilities,
  equipment, funding or faculty.
- 11. Criteria E-Compliance: Enrollment restrictions and licensing or accreditation standards

  The Fashion Merchandising program is an open access program which does not have additional licensing requirements
  or accreditation standards.

### REVISION OF EXISTING CERTIFICATE (February 2010)

### REVISED – WEBSITE SOFTWARE SPECIALIST CERTIFICATE (37 units) (effective Fall 2010)

### Required Core Courses: (18 units)

CIS 1, Computer Concepts with Applications (3)

CIS 50, Internet, HTML, and Web Design (3)

CIS 51, XHTML, CSS, and Accessibility (3)

CIS 54, Web Page Development and Scripting (3)

CIS 59A, Dreamweaver I (3)

CIS 60A, Photoshop I (3)

### Required Concentration Courses (13 units)

CIS 56, Web Media Production (3)

CIS 57, Website Planning and Production (3)

CIS 59B, Dreamweaver II (3)

CIS 62A, Flash I (3)

CIS 88A, Independent/special topics (1)

### Select Two of the Following Elective Courses (6 units)

CIS 55, Advanced Web Page Development and Scripting (3)

CIS 62B, Flash II (3)

CIS 66, FLEX (3)

### **CURRENT - WEBSITE SOFTWARE SPECIALIST CERTIFICATE & ASSOCIATE IN ARTS DEGREE (34 units)**

### Required Courses: (34 units)

CIS 1, Computer Concepts with Applications (3)

CIS 50, Internet, HTML, and Web Design (3)

CIS 51, Web Page Design Using XHTML and CSS (3)

CIS 53, Microsoft Expression Web (3)

CIS 54. Web Page Development and Scripting (3

CIS 55. Advanced Web Page Development & Scripting (3)

CIS 56, Multimedia for the Web (3)

CIS 57, Web Site Management (3)

CIS 59A, Dreamweaver I (3)

CIS 60A, Photoshop I (3)

CIS 62A, Flash I (3)

CIS 88A, Independent Study (1)

### **Additional Recommended Courses:**

CIS 58, Designing Accessible Websites (3)

CIS 59B, Dreamweaver II (3)

CIS 60B, Photoshop II (3)

CIS 61, Fireworks (3)

CIS 62B, Flash II (3)

### 41st FALL SESSION RESOLUTIONS

### Academic Senate for California Community Colleges (ASCCC)

### **FALL 2009 ADOPTED RESOLUTIONS**

4.02 F09 Maintain Local Autonomy over Degree Requirements
Chris Hill, Grossmont College

Whereas, Assembly Bill 440 (Beall), in an attempt to remove perceived barriers to transfer for community college students, recently proposed legislation that would remove local autonomy for degrees by placing degree requirements into statute and could effectively lead to legislative curriculum dictates;

Whereas, Placing any degree requirements in statute is in direct contradiction to Education Code §70902(b)(7), which clearly puts responsibility for curriculum and academic standards under the joint responsibility of the local board and the academic senates of a district;

Whereas, Title 5 already grants community colleges the right to develop degrees with a minimum of 60 transferable semester units consisting of an approved transfer general education program (e.g., IGETC or CSU GE) and a major or area of emphasis as locally defined, and allows local colleges the ability to create degree variations that best serve their students' ability to transfer; and

Whereas, The Academic Senate for California Community Colleges previously affirmed its support for local autonomy in several of the 10+1 areas, including curriculum (Resolution 6.02 F03 and 18.03 F07);

Resolved, The Academic Senate for California Community Colleges oppose any legislation that seeks to alter its curriculum, degree, and certificate requirements and reaffirm its support of local autonomy and faculty primacy over the same.

MSC Disposition: Chancellor's Office, Local Senates

Assigned: President

### **FALL 2009 REFERRED RESOLUTIONS**

4.03 F09 Response to AB 440: "Transfer Degree"
Stephanie Dumont, Golden West College, Executive Committee

Whereas, Assembly Bill 440 (Beall) as of July 2, 2009 would authorize a community college to award an associate degree in a major or area of emphasis designated "for transfer" to students who complete a minimum of 60 transferable semester units consisting of an approved transfer general education program (e.g., IGETC or CSU GE) and a major or area of emphasis as locally defined and requires colleges that do so to refrain from requiring additional local requirements that are not included in the GE package or the major/area of emphasis;

Whereas, There is a great deal of support for the concept of a "transfer degree" in the legislature and public, and it is possible that a bill will move forward that would put California community college degrees in statute rather than in Title 5, and such a bill could require degree standards that could be inconsistent with the Academic Senate positions; and

Whereas, Placing any degree in statute is inappropriate and could effectively lead to legislative curriculum dictates, but making a change in Title 5 regulations would retain control of degrees within the California Community Colleges and codify degrees that many colleges are already awarding;

Resolved, The Academic Senate for California Community Colleges work with the Chancellor's Office to change Title 5 regulations such that colleges would be permitted to offer associate degrees in a major or area of emphasis designated for transfer to students who complete GE (IGETC or CSU GE) and 60 transferable semester units with a minimum of 18 semester units in a major or area of emphasis and require the colleges that do so to refrain from requiring additional local requirements that are not included in the GE package or the major/area of emphasis.

MSR Disposition: Referred to the Executive Committee to collect further information and return in Spring 2010.

### 4.03.01 F09 Amend Resolution 4.03 F09 Stephanie Dumont, Golden West College

Amend the resolve:

Resolved, That the Academic Senate for California Community Colleges work with the Chancellor's Office to change Title 5 regulations such that colleges would be permitted to award an associate degree in a major or area of emphasis designated "for transfer" (e.g., "Psychology for Transfer") to students who complete at least 60 transferable semester units including a minimum of 18 semester units in a major or area of emphasis that meet the requirements of transfer institutions and a transfer general education pattern, and require the colleges that choose to offer such a degree do not impose any additional local graduation requirements.

MSR Disposition: Referred to the Executive Committee to collect further information and return in Spring 2010.

### 4.04 F09 Transfer Degree Paul Setziol, De Anza College

Whereas, State legislators have proposed statewide transfer degrees;

Whereas, The Academic Senate for California Community Colleges maintains that the purview of degree definitions in legislation goes against basic higher education principles embedded in past practice;

Whereas, The faculty should maintain the right and responsibility to determine graduation degree requirements as specified in Title 5; and

Whereas, Title 5 currently makes no reference to transfer associate degrees;

Resolved, That the Academic Senate for California Community Colleges work with the Chancellor's Office to seek a change to Title 5 requiring the colleges to offer a transfer associate degree; and

Resolved, That the Academic Senate for California Community Colleges include in Title 5 language the provision that any local requirements for the degree are to be governed by existing Title 5 language on graduation requirements.

MSR Disposition: Referred to the Executive Committee to collect further information and return in Spring 2010.

### 4.04.01 F09 Amend Resolution 4.04 F09 Paul Setziol, De Anza College

Add second resolve:

Resolved. That the Academic Senate for California Community Colleges define a transfer associate degree to be a degree, the successful completion of which certifies that a student meets the requirements for transfer to UC and or CSU.

MSR Disposition: Referred to the Executive Committee to collect further information and return in Spring 2010.

### Background for Resolution 4.02 F09 Response to AB 440: "Transfer Degree" (FAQs)

This resolution calls for the Academic Senate to "... work with the Chancellor's Office to change Title 5 regulations such that colleges would be permitted to offer associate degrees in a major or area of emphasis designated for transfer to students who complete GE (IGETC or CSU GE) and 60 transferable semester units with a minimum of 18 semester units in a major or area of emphasis, and require the colleges that do so to refrain from requiring additional local requirements that are not included in the GE package or the major/area of emphasis."

1. Why/how is this resolution a response to AB 440?

AB 440, a bill being considered today, seeks to put a community college degree into law. It intends to introduce a degree option for community colleges through legislation. However, legislation is often not the best way to improve higher education. Although the proposed language of AB440 is **permissive**, meaning that it would not mandate us to change, the idea of placing a degree into law could set a dangerous precedent. It could lead to all of our degrees being legislated, removing faculty control of our degrees. No other segment of higher education has their degrees legislated. In contrast, resolution 4.02 recommends placing the language in Title 5 regulation rather than in law--- so the community colleges may elect to make this change. Note that the language is **permissive** in nature and does not mandate that local degrees be modified in any way – it merely states

explicitly that this is an option that colleges have.

- 2. I thought we opposed AB 440 what happened?

  The ASCCC took a strong oppose position to AB 440 early on in the process because the bill had many flaws. It was only in the final hours that AB 440 took its current form –and reflected our degree structure (i.e., general education and a major or area of emphasis). Even though the final form of the language (July 2009) was far less problematic than early versions and the original intent language, it still sought to put a degree into law, which is what remains problematic.
- 3. How does this resolution differ from what AB 440 proposed? Why do we need to take any action? Keeping degrees out of law is the goal. The momentum behind AB 440 has not waned and its sponsor is not only well-funded, but has hired experienced professionals to assist in moving this legislation forward. If this resolution is adopted, we would be able to "pre empt" legislation and make Title 5 changes that would make legislation unnecessary.
- 4. Can't we already offer these kinds of degrees?

  We certainly can. There is nothing to preclude colleges from not imposing local graduation requirements on students who complete a transfer general education pattern and major or area of emphasis.
- 5. <u>Don't colleges already do this?</u>
  Yes. In the past few years, as colleges sought to modify existing non-compliant degrees and expand the options for students, some colleges integrated their local requirements into their local general education pattern and established degrees that achieve just what this resolution suggests.
- 6. <u>Is this kind of degree good for students?</u>
  It appears that when colleges offer degrees that are expressly designed for the transfer-bound student and do not impose additional requirements, the number of degrees awarded increases, and most would agree that earning a degree is a good thing, as long as the students complete the appropriate requirements.
- 7. Would this resolution require local changes?
  No. The language is permissive. Colleges may choose to offer these kinds of degrees as one option among their degrees or not.
- 8. What would such a degree be called? It would be, for example, an "A.A. in history for transfer" or an "A.S. in natural sciences for transfer." Such a degree would satisfy those who call for a "transfer degree" but would not compromise the Title 5 and Academic Senate requirement for a major or area of emphasis.

- 9. But many colleges just removed the word "transfer" from their degree titles. What's up? This proposed degree title is different because it indicates the major or area of emphasis where the student focused his or her study. That is very different from a degree with no major/area of emphasis. Students don't major in "transfer" but rather they study one or more disciplines. As long as the discipline is in the title, designating that it was designed with transfer in mind would be very different from a holding an "A.A. in transfer". Never the less, this is inconsistent with the position established by ASCCC resolution 9.02 in Fall 2006 that called for the removal of the word "transfer" in all degree titles. One justification for that position, however, would be removed here if all courses for the degree were transferable.
- 10. What is lost if we pass this resolution? If this resolution is passed and the language is added to Title 5, it may lead to local pressure to reconsider local graduation requirements. It may have the effect of increasing local pressure to waive such requirements for students completing transfer general education patterns.
- 11. What is gained if we pass this resolution? If this resolution is passed and the language is added to Title 5, there would be no need or reason for AB 440 to move forward in its current form.
- 12. What do we lose if we don't pass this resolution? It is very likely AB 440 will pass; it has a great deal of support. If our degrees are set in law, we lose the autonomy of community college faculty determining their degrees. It gives over control of community college degrees to the legislators.

Nov 2009



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Executive Summary

**Current Study** Background

### LIFE SCIENCE COURSE PREREQUISITE VALIDATION: REPORT OF THE FINDINGS

Santa Monica College
Office of Institutional Research
Hannah Alford, Director, Matriculation Research
Caroline Sheldon, Dean, Institutional Research

January 2010

### 2x2 Matrix of Outcomes and Prerequisite Status: Chi Square Analyses Appendix A: Comparison of Current Findings to Previous Study Appendix B: Description of the Life Science Courses Disproportionate Impact Analyses Net Increase in Accuracy Carrelational Analyses **Recommendations and Conclusions** Data Analyses and Findings Hannah Alford, Director, Matriculation Research Caroline Sheldon, Dean, Institutional Research Sonto Monico College Description of Cohort Summary of Findings References

54 92

7 18 7 23

### **Executive Summary**

A study was conducted to validate an ENGL 1 or eligibility for ENGL 1 prerequisite on three life science courses, ANATMY 1, BIOL 21, and MCRBIO 1. Empirical data was analyzed to determine whether the prerequisites are necessary for success in the life science courses and to determine whether students who do not meet the prerequisites are highly unlikely to earn a successful grade in the life science courses. The study was initiated after a documented content review revealed ENGL 1 as a potential prerequisite course for the life science courses.

The study adopted the California state standards for evidence to evaluate the appropriateness and need for either ENGL 1 or eligibility for ENGL 1 as prerequisites for the life science courses. The analyses revealed the following findings and the subsequent recommendations and conclusions were made:

- it is recommended that the district establish ENGL 1 as a prerequisite for ANATMY 1. The data reveal that implementing an ENGL 1 prerequisite on ANATMY 1 would increase the overall course success rate by nearly 10% and that students who meet the prerequisite are more likely to obtain a satisfactory grade in ANATMY 1 than those who do not. However, the data also reveal that an ENGL 1 prerequisite would adversely impact access to the course for Black and Hispanic students; therefore, it is recommended that strategies be developed to correct for the disproportionate impact.
- It is recommended that neither the ENGI. 1 nor eligibility for ENGI. 1 prerequisites be established for enrollment in BIOL 21. The data reveal that placing either prerequisite would not substantially increase the overall course success rate and students with the prerequisites are not more likely to complete the course than students without the prerequisite. In addition, a large proportion (approximately 705%) of students aiready meet the prerequisite, therefore, there is little need for the prerequisites on BIOL 21.
- it is recommended that neither the ENGI. 1 nor eligibility for ENGI. 1 prerequisites be established for enrollment in MCRBIO 1. The data reveal that regardless of prerequisite status, the overall course success rate is a high 84.1%; therefore, enforcing either prerequisite will do little to increase the courses success rate. Similar to BIOL 21, a large proportion of students enrolled in MCRBO 1 (approximately 75%) have already met either prerequisite, therefore, there is little need for the prerequisites on MCRBIO 1.

### Background

in fall 2009, the Life Sciences Department at Santa Monica College (SMC) proposed a research study to validate an English 1 (ENGL 1) course requirement for seven life science courses, including. ANATMY 1 (Anatomy 1), ANATMY 2 (Biology 21), BIOL 22 (Biology 22), BIOL 23 (Biology 23), MCRBIO 1 (Microbiology 1), and PHYS 3 (Physiology 31), Currently, these courses have a skills advisory of eligibility for ENGL 1. In addition to the course prerequisite study, the Life Sciences Department requested that an analytic study be conducted to determine whether the current advisory is better suited as a prerequisite than adopting ENGL 1 as a prerequisite for the outcome courses. Descriptions of courses with a proposed prerequisite (outcome courses) are provided in Appendix 8.

According to the Academic Senate for California Community Colleges [ASCCC] (1997), prerequisites, an integral component of the college curriculum, assure that students have the necessary skills and abilities to be successful in a course and that the skill levels of all students in a course are consistent. Prerequisites, when appropriate, increase course retention and success, ensure academic quality in the classroom, while preserving access for students (ASCCC).

Currently, California Community College (1998) Matriculation Regulations require that in order to implement a mandatory prerequisite requirement on a course, a relationship between the course and its prospective prerequisite be established. The regulations state that the "prerequisite for a course shall be clearly related to course content and must be validated as being necessary for success in such course. [58106 (c) [2)]. In addition, the regulations assert that "in order to show that a prerequisite is necessary for success in a particular course, the validation procedure must ensure that a student who has not met the prerequisite is highly unlikely to obtain a satisfactory grade in the course" [58106 (e)].

In the absence of a local standard for the evaluation of course prerequisites<sup>3</sup>, the ASCCC (1997) advises colleges to engage in two analytical processes, documented content analysis and statistical analysis, in order to validate courses in communication or computation skills as prerequisites for courses other than another skills course. For example, placing an ENGL I (communication skills course) perequisite on HIST and on-communication or computation skills course) requires validation using content and statistical analyses. Currently, Santa Monica College has not adopted its own local standards for the benchmark of the standards which to evaluate and validate course prerequisites.

in the first analysis, documented content review, faculty teaching the outcome course define the expectations for entrance abilities, skills, and knowledge in the outcome course, determine the means of obtaining these skills, and identify the course that provide the skills necessary for the outcome course (ASCCC, 1997). Subsequently, faculty teaching the proposed prerequisite course define the exit skills possessed by students who are successful in the course. Lastly, the entrance skills in the outcome course and exit skills in the proposed prerequisite course are compared; in cases where the exit skills clearly match the entry skills of the outcome course, the proposed prerequisite is justified (ASCCC).

Hannah Alford, Director, Matriculation Research Caroline Sheldon, Dean, Institutional Research Sonta Monica College

prerequisites.

Hannah Alford, Director, Matriculation Research Caroline Sheldon, Dean, Institutional Research

9 Santa Monico College

The local standard for the evaluation and validation of course prerequisites is distinct from the local standard for the establishment of course

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prerequisite are highly unlikely to earn a satisfactory grade in the course. "Highly unlikely" is undefined validity, the second method of prerequisite validation, is the use of empirical data to evaluate whether Once the content analysis identifies a potential prerequisite course for the outcome course, statistical data needs to be collected to substantiate the content analysis findings (ASCCC, 1997). Statistical implementation of Prerequisites" (ASCCC). The following table describes the three research methods the prerequisite is necessary for success in the outcome course and whether students without the and minimum standards for evidence outlined by the ASCCC in the evaluation of the relationship except through the three standard research analyses recommended in "Good Practice for the between the prerequisite and success in the outcome course.

. Mashade of Validation Course Prerequisites

Table 1. Three Method	Table 1. Three Methods of Validating Course Flerequisites Because Method Description	Criterion for Evidence
Net Increase in Accuracy	Applying the prerequisite should show a gain in the percentage of students who are successful in the outcome course	Increase of at least 10% in course success rate
2x2 Matrix & Chl-Square	A 2x2 matrix of outcomes in the course (success, non-success) and prerequisite status (met the perequisite, did not meet the perequisite) and chi-square to determine where a systematic and statistically significant relationship exists between the variables	The percentage of students who meet the prerequisite and are successful in the outcome course should be statistically larger than expected
Correlation Coefficient	Analysis to determine the strength of the relationship between performance in the prerequisite and outcome courses	A minimum of +0.35

SOURCE: Academic Senate for California Community Colleges (2007), Good Practice for the Implementation of Prerequisites. Sacramento, CA: Chancellor's Office.

### **Current Study**

PHYS 3 as ANATMY 1 and/or BIOL 21 currently serve as prerequisites to the former group of courses (see Table 1); ENGL 1 will be a prerequisite to these courses, by default, if ENGL 1 is established as a 21, and MCRBIO 1 using the three research methods for course prerequisite validation recommended by examine the relationship between ENGL 1 or eligibility for ENGL 1 and ANATMY 2, BIOL 22, BIOL 23, nor The purpose of the current study is to attempt to validate ENGL 1 as a prerequisite for ANATMY 1, BIOL the California Chancellor's Office. In addition, the study investigates the relationship between the skills advisory, eligibility for enrollment in ENGL 1, and success in the outcome courses. The study did not prerequisite for ANATMY 1 and BIOL 21 (see Table 2).

Table 2. Current Course Prerequisites for Life Science Courses

	PHYS 3	ARSATARV 1	4	CHEW 10			
	MCRBIO 1	20,170,000	CHEW TO MANUAL TO	PHYS 3 or	,	30L3 or	BIOL 21
Compes	BIOL 23		80.22	CUERA 33			
es louicome	BIOL 22		810, 21	CHERN 11	COCK TT		
lie Scen	RIOI 27		ANATANY 1 CHEM 11				
	SWATANA	1	ANATMY 1				
	ANN TANY 1 ANATANY 2 HIGH 21   BIOL 22   BIOL 23   MCRBIO 1   PHYS 3	Alvertives 1	(Mana)	fixone?			
(Re Science Courses			1-1-4-6-1	Prefeduistice(s)			

write a research paper. In spring 2009, the Life Sciences Department conducted content review analyses focused on rhetoric. It emphasizes clear, effective written communication and prepares students to for placing an ENGL 1 prerequisite on ANATMY 1, BIOL 21, and MCRBIO 1; the findings of the review The proposed prerequisite course, ENGL 1, Reading and Composition 1, is a transfer-level course suggest that the exit skills of ENGL 1 match the entry skills of these outcome courses.

The study concludes with an analysis of disproportionate impact to test for adverse impact of the prerequisite on any race, ethnic group, or gender groups. Appendix A compares the findings of the current study to the findings of a prior study conducted in

P 3 8 e 14

Hannah Alford, Director, Matriculation Research
Caroline Sheldon, Dean, institutional Research
Sonto Monico College

# A DESCRIPTION OF THE COHORT

and/or MCRBIO 1, in academic years 2006-2007² or 2007-2008³. Only the first attempt in the course was the cohort consists of students who first enrolled in any of the outcome courses, ANATMY 1, BIO 21, included in the analyses to account for the potential effects of course repetition on successful course completion.

obtained from the college's Management information Systems (MIS) database. Assessment and placement information was obtained from the Santa Monica College Integrated School Information Course enrollment, student demographic, and education status (highest degree earned) data was Systems database.

associate or higher degree prior to their first enrollment in the outcome course were identified as those Table 3 describes the count and percent of students in the cohort, by outcome course, who met the prerequisite, Students who successfully completed ENGL 1 with a grade of  $\mathcal{C}/\mathbb{C}$ N or better or earned an who met the prerequisite.

d Percent of Students in Cohort Who Met the Prerequisite

Table 3. Count and Perce		The state of the s	Total
Outcome Course	Met the Prerequisite	Did Not Weet the Preregulsite	
ANATMY 1	1,172	946 (44.7%)	2,118 (100%)
BIOL 21	372	153 (29.1%)	525 (100%)
MCRBIO 1	501	183 (26.8%)	684 (100%)

Slightly over half of students enrolled in ANATMY 1 met the prerequisite prior to enrolling in the course. A larger proportion of students enrolled in BiOL 21 and MCRBIO 1 met the prerequisite; approximately seven in ten students met the prerequisite prior to enrolling in these courses.

description above) in addition to students who met at least one of the following conditions prior to the enrollment in ENG11. The 'Eligible for ENGL1' group includes students who met the prerequisite (see Table 4 describes the count and percent of students in the cohort, by outcome course, eligible for first enrollment in the outcome course:

- Enrolled in but did not successfully complete ENGL 1 (earned a D, F, NC, I, or W grade);
   Placed into ENGL 1 but did not enroll in ENGL 1; and/or
   Successfully completed ENGL 218<sup>4</sup> with a grade of C/CR or better.

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The second secon	and of Childents in Cohort Wi	to Were Eliaible for ENGL 1	
lable 4. Count and Perc	igbie 4. Count und Percent of Statement in Communication and Eligible for EMGL1	Not Eligible for ENGL 1	Total
Outcome Course	1 303	815	2,118
ANAIMIT 1	47.103 (6.1 5.90)		(100%)
	104.00	125	525
BIOL 21	400		(100%)
	(76.2%)	(23.679)	(acces)
MCBRIO 1	528	156	684
	(77.2%)	(22.8%)	(100%)

Approximately six in ten students in the ANATMY 1 cohort were eligible for ENGL 1 or higher. Only 13.1 of the 2,118 students in the cohort (6.2%) were eligible for ENGL 1 but did not meet the ENGL 1 prerequisite. A similar pattern is observed for the BIOL 21 and MCRBIO 1 cohorts; only 28 of the 525 students in the BIOL 21 cohort (5.3%) were eligible for ENGL 1 but did not meet the prerequisite.

Overail, a majority of the students enrolled in the outcome courses have met the prerequisite or were eligible for ENGL 1.

 $<sup>^3</sup>$  Includes summer 2006, Iad 2005, winter 2007, and spring 2007 terms  $^3$  Includes summer 2007, Sail 2007, winter 2008, and spring 2008 terms  $^4$  ENG1.218 is the prerequisite course for ENG1.1

The following section describes the findings of the three standard research analyses for validation of course prerequisites recommended by the ASCCC (1997).

### Net Increase in Accuracy

increases by at least 10%, there is enough empirical evidence to support the need for the prerequisite. According to the ASCCC (1997), if by applying the prerequisite the success rate in the outcome course

satisfactory grades (A, B, C, or CR) by the total course enrollment (A, B, C, CR, D, F, I, NC, and W grades). prerequisites are applied for the cohort. Success rates were calculated by dividing the total number of Tables 5 and 6 describe the overall course success rates and the rates after each of the proposed

sss Rates Comparison, Before and After Applying ENGL 1 Prerequisite

	Net increase in Accuracy	18 mg	%6·6+	+1.7%	+2.9%	
The state of the s	Course Success Rate	ypplying Arlex Apply Its Prerequisite	%9'69	65.1%	87.0%	
folie 5, Course Success nuces companied,	36	BEFORE	59.7%	64.4%	84.1%	
Table 5, Cour.	Outcome Course		ANATMY 1	20,0	SIOL 21	WEND T

Table 6. Course Success Rates Comparison, Before and After Applying Eligibility for ENGL 1 Prerequisite AFTER Applying the Net increase in Accuracy Course Success Rafe Outcome Course

27.2%		÷2.1%	+2.1%	
Prerequisite	67.0%	66.5%	86.2%	
Prerequisite	59.7%	64,4%	84.1%	
	ANATMY 1	BIOL 21	MCRBIO 1	

Prior to applying the prerequisite, the overall course success rate for ANATMY 1 was 59.7%. The success appiying the less stringent prerequisite, eligibility for ENGL 1, the success rate increased by more than prerequisite. The net increase in accuracy suggests that ENGL 1 is a vaild prerequisite for ANATMY 1 seven percentage points to 67,0%; although substantive, the net increase when applying eligibility for rate increases by nearly 10 percentage points to 69.6% after applying the ENGL 1 prerequisite. When and ENGL 1 as a prerequisite would increase the overall course success at a higher rate than the ENGL 1 as a prerequisite is smaller than the rate increase experienced when using ENGL 1 as the eligibility for ENGL 1 prerequisite.

insignificant amount. In fact, applying the less stringent prerequisite (eligibility for ENGL.1) increases the Without the ENGL 1 or eligibility for ENGL 1 prerequisites, the overall course success rate in BIOL 21 is 64.4%; approximately two in three students enrolled in BIOL 21 earned a C/CR or better. Applying the ENGL 1 prerequisite only increases the success rate by less than two percentage points to 66.1%, an success rate by 0.4% more when compared to applying the higher-level prerequisite, ENGL 1. The Hannah Alford, Director, Matriculation Research Caroline Sheldon, Dean, Institutional Research Sonto Monico College

findings suggest that placing either prerequisite does little to increase the overali course success rates

Similar to BJOL 21, placing either prerequisite (ENGL 1 or eligibility for ENGL 1) on MCRBIO 1 only slightly which means that nearly four in five students, regardless of their English course enrollment history, earn net increase). The findings suggest that students are successfully completing MCRBIO 1 at a very high improves the overall course success rates. Overall, the course success rate in MCRBIO 1 is a high 84.1% a grade of C/CR or better in the course. Placing the ENGL 1 prerequisite only increases the success rate by 2.9% to 87.0% and applying the eligibility for ENGL 1 prerequisite increases the rate to 86.2% (2.1% rate, regardiess of prerequisite status. As a result, applying either prerequisite does little to improve the success performance in MCRBIO 1.

2x2. Matrix of Outcomes and Prerequisite Status: Chi-Square Analysis

avallable, 'W' or withdrawal grades were excluded from the success variable. Unlike the net increase in accuracy analysis, the successful course completion rate was calculated by dividing the number of A, B, withdraw from courses for academic reasons, many withdraw for personal reasons such as job change Two by two matrices comparing success and non-successful completion for students with and without the prerequisite were constructed. According to Pascarella and Terenzini (2005), while some students and family responsibilities. Because Information related to the reasons students withdraw are not C, and CR grades by the total number of A, B, C, CR, D, F, and NC grades (Ws were excluded in the denominator).

relationship was found, standardized residuals were computed to determine which cells in the matrices A Pearson chi-square statistic was obtained to determine whether prerequisite status and outcome course success are statistically related to one another. In cases where a statistically significant were the major contributors to the significant chi-square test statistic.

According to the standards described in "Good Practice for the implementation of Prerequisites", at minimum, the yes prerequisite/successful cell should be a significant contributor to a significant chisquare test statistic with a positive standardized residual figure (larger percentage in the cell than expected).

Figure 1. Success in ANATMY 1 with ENGL 1 Prerequisite

Yes	88.0% Std. Residual= +2.6* N=816	12,0% Std. Residual= -5.3* N=111	*Significant standardized residual Significant @ .001
Prerequisite Status No	69.3% Std. Residual= -3.1* N=448		Chi Sauare = 84.12
ANATMY 1 Course	Successful (A, B, C, CR)	Non-successful (D, F, NC, I)	28.340

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disproportionately fewer students who did not meet the prerequisite were successful in ANATMY 1 than the percentage of students who were successful in ANATMY 1 significantly differed by whether they met the prerequisite?, ENGL 1, disproportionately more students who met the prerequisite and expected.

All cells contributed to the significance of the chi-square statistic. There were disproportionately more students in the yes prerequisite/successful and no prerequisite/unsuccessful cells than expected. In prerequisite/unsuccessful cells than expected. The 2x2 matrix and chi-square analysis supports the addition, there were disproportionately fewer students in the no prerequisite/successful and yes establishment of ENGL 1 as a prerequisite for ANATMY 1.

ENGL 1 prerequisite on ANATMY I would deny access for a large proportion (41.1%) of students in the proportion of students who do not meet the prerequisite were still successful in the course. Placing an Although the empirical data indicate that the relationship between prerequisite status and success in cohort, a large percentage of who (69.3%) would have been successful in the course, even without outcome course are significant statistically, it is imperative to examine the significance on a practical level. Nearly 90% of students with the prerequisite were successful in ANATMY 1, however, a large meeting the required prerequisite.

Figure 2. Success in ANATMY 1 with Eligible for ENGL 1 Prerequisite

ANATMY 1 Course	Prerequisite Status		
Outcome	No	Yes	
Successful (A. B. C. CR)	69.6%	86.4%	
	Std. Residual= -2.9*	Std. Residual:: +2.1*	
	N=391	N=873	
Non-successful (D. F. NC, 1)	30.4%	13.6%	
	Std, Residual= +5.8*	Std. Residual= -4.3*	
	N=171	N=138	
		*Significant standardized residual	zed residual
Chl Sq.	Chi Square = 64.41	Significant @ .001	N=1,573

When applying the less stringent prerequisite of eligibility for ENGL 1, the percentage of students who were successful in ANATMY 1 was still significantly different by prerequisite status<sup>c</sup>, disproportionately more students who met the prerequisite and fewer students who did not meet the prerequisite were successful in ANATMY 1. All cells contributed to the significance of the chi-square statistic. There were disproportionately more students in the yes prerequisite/successful and no prerequisite/unsuccessful cells than expected. In addition, there were disproportionately fewer students in the no prerequisite/successful and yes prerequisite/unsuccessful cells than expected. The 2x2 matrix and chi-square analysis supports the establishment of eligibility for ENGL 1 as a prerequisite for ANATMY 1.

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However, placing a requirement of eligibility for ENGL 1 on ANATMY 1 will deny access to the outcome prerequisite for ANATMY 1 will deny access to a large proportion of students who would have been successful in the course, even without meeting the prerequisite. Although the relationship between prerequisite and course outcome is statistically significant, establishing eligibility for ENGL 1 as a course for 35.7% of the cohort. In addition, among those denied access, 69.6% would have been successful in the course, regardless of prerequisite status.

# Figure 3. Success in BIOL 21.1 with ENGL 1 Prerequisite

**BIOL 21** 

BIOL 21 Course Outcome	requisite Status	Vec
Successful (A, B, C, CR)	84,4%	85,1%
	Std, Residual=10	Std. Residual= 0
	N=92	N=246
Non-successful (D. F. NC. I)	15.6%	14.9%
	Std. Residual= +.10	Std. Residual=10
	N=17	N=43
	The state of the s	

analysis are statistically insignificant; there is no empirical support for the establishment of ENGL 1 as The percentage of students who were successful in BIOL 21 *did not* significantly differ by whether they met the prerequisite?, ENGL 1. In addition, the percentage of students who were not successful in BIOL 21 did not significantly differ by prerequisite status. The findings of the 2x2 matrix and chi-square a prerequisite to BIOL 21.

N=398

Not Significant

Chi Square = 0.03

deny access to a large proportion of students who would have otherwise been successful In the course. successful, even without meeting the prerequisite. Establishing on ENGL 1 prerequisite for BIOL 21 will By placing an ENGL 1 prerequisite on BIOL 21, over one-quarter of the cohort would not be able to access the outcome course. Among students denied access to BIOt. 21, 84.4% would have been

Figure 4. Success in BIOL 2.1.1 with Eligible for ENGL 1 Prerequisite

		%	Std. Residual= +.10	99	%	Std. Residuoi=20	Ġ.	
Prerequisite Status	No Yes	83.7% 85.3%	Std. Residual= 10 Std.	N=72	1	Std, Residual= +.30	N=14 N=46	
BIOL 21 Course Outcome		Successful (A. B. C. CR)			Non-successful (D. F. NC. !)			-

Chi Square = 0.32

7 x²(1, N=398) = 0.03, p=ns

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 $<sup>{}^5\</sup>chi^3(1, N=1,573) = 84.12, p<.001$  ${}^6\chi^1(1, N=1,573) = 64.41, p<.001$ 

The percentage of students who were successful in BIOL 21 old not significantly differ by whether they met the prerequisite, eligible for ENGL 1. In addition, the percentage of students who were not successful in BiOL 21 did not significantly differ by prerequisite status.

The data reveals that although 85% of students who met the prerequisite were successful in BIOL 21, a large proportion of students who *do not meet the prerequisite* (83.7%) were still successful in the course. By placing an ENGL 1 prerequisite on BIOL 21 over one-fifth of the cohort would not be able to access the outcome course. The results of the chi-square analyses for BIOL 21 reveal that a systematic relationship between prerequisite status and course success outcome does not exist. In addition, placing either prerequisite (ENGL 1 or eligibility for ENGL 1) would deny access to a large proportion of students who would have been successful in the outcome course.

Figure 5. Success in MCRBIO 1 with ENGL 1 Prerequisite

MCRBIO 1 Course	Prerequisite Status		
Outcome	No	Yes	
Successful (A, B, C, CR)	89.1%	36.5%	
	Std. Residual =70	Std. Residual = +.40	
	N=139	N=436	
Non-successful (D, F, NC, I)	10.9%	3.5%	
	Std. Residual = +2.9*	Std. Residual = -1.7	
	N=17	N=16	
		*Significant standardized residual	펻
Chi Sai	Ch! Sauare = 12.23 5	Significant @ .001 N=608	

chi-square statistic. Disproportionately more students without the prerequisite earned a non-successful residuals found that only one cell, no prerequisite/non-successful contributed to the significance of the grade in MCRBIO 1 than expected. The yes prerequisite/successful cell was NOT a contributor to the The chi-square statistic obtained reveals a systematic relationship between prerequisite status and significant chi-square statistic, the percent of students who were successful in MCRBIO 1 did not course success outcome<sup>9</sup> that is statistically significant. However, an analysis of the standardized statistically differ by prerequisite status.

Establishing an ENGL 1 prerequisite will deny access to a large proportion of students, 89% of who would have been successful without the prerequisite.

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# Figure 6. Success in MCRBIO 1 with Eligible for ENGL 1 Prerequisite

MCRBIO 1 Course	Prerequisite Status		
Outcome	No	Yes	
Successful (A, B, C, CR)	89.6%	80.96	
	Std. Residual = 60	Std. Residual = +.30	
	N=120	N=455	
Non-successful (D, F, NC, I)	10.4%	4.0%	
	Std. Residual = +2.5*	Std. Residual = -1.3	
	N=14	N=19	
		*Significant standardized residual	d residual
Chi Squ	Chi Square = 8,44	Significant @ .01	N=608

Establishing an ENGL 1 prerequisite will deny access to a larger proportion of students, 89% of who would have been successful without the prerequisites.

chi-square statistic. Disproportionately more students without the prerequisite earned a non-successful residuals found that only one cell, no prerequisite/non-successful contributed to the significance of the grade in MCRBIO 1 than expected. The yes prerequisite/successful cell was NOT a contributor to the The chi-square statistic obtained reveals a systematic relationship between prerequisite status and course success outcome <sup>20</sup> that is statistically significant. However, an analysis of the standardized significant chi-square statistic; the percent of students who were successful in MCRBIO 1 did not statistically differ by prerequisite status.

Establishing an ENGL 1 prerequisite will deny access to a large proportion of students, 90% of who would have been successful without the prerequisite.

percent of successful students by prerequisite status. In addition, placing either prerequisite (ENGL 1 or between the prerequisite status and course success variables; however, there is no difference in the eligibility for ENGL 1) would deny access to a large proportion of students who would have been The results of the chi-square analyses for MCRBIO 1 reveal a statistically significant relationship successful in the outcome course.

### Correlational Analyses

Correlation coefficients relating outcome course grades and prerequisite course grades were computed determine the strength of the relationship between performances in the two courses. Only cases where students enrolled in both the proposed prerequisite course, ENGL 1, and the outcome course and to establish whether a relationship between the prerequisite and outcome courses existed and earned a non-W/CR/NC/I grade were included in the analyses 11.

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 $<sup>^8\</sup>chi^2(1,N=398)=0.12,p=ns$  $^9\chi^2(1,N=608)=12.23,p<.001$ 

<sup>10</sup> x2(1, N=608) = 8.44, p<.01

<sup>11</sup> Students who were eligible for ENGL 1 or met the ENGL 1 prevequishe by placement or degree attainment information alone were not included in the analyses. Students who were eligible for ENGL 1 by successful performance in the preceding ENGL course (ENGL 118) were only included in the analyses if they also enrolled in ENGL 1.

A Pearson correlation was computed for grades in ENGL 1 and the outcome course where, A=4, B=3, C=2, D=1, and F=0.

Table 7 provides the correlation coefficients for the variables for all outcome courses. A significance level at or below the .05 level provides evidence of a relationship between performance in the prerequisite course, ENGI. 1, and performance in the life science outcome course. The ASCCC (1997) recommends a minimum correlation of +0.35 as evidence for prerequisite course validation.

Table 7. Correlations for ENGL 1 and Outcome Course Grades
Outcome Course Count of Students Correlation Coefficient Significance Level

Outcome course	COMME OF STATESTICS		
ANATMY 1	493	+0.38	p<.001
BIOL 21	230	+0,24	p<.001
MCRBIO 1	241	+0.34	p<.001

The correlation analyses found a positive and significant relationship between grades in ENGL 1 and life science courses; therefore, students who earn high grades in ENGL 1 also earn high grades in ANATMY 1, BIOL 21, and MCRBIO 1, and students who earn low grades in ENGL 1 also earn low grades in the outcome courses. While a significant relationship was observed between the two variables for all outcome courses, the strength of the relationship for BIOL 21 and MCRBIO 1 does not meet the minimum threshold recommended by the State Academic Senate. The correlation coefficient is only slightly higher than the minimum threshold for evidence for placement of the perequisite on ANATMY and outcome courses, the size of the correlation is small and does not provide compelling evidence for prerequisite validation.

### Disproportionate Impact Analyses

Title 5 regulations require that an evaluation be conducted to determine whether implementation of a course prerequisite will have a disproportionate impact "on particular groups of students described in terms of race, ethnicity, gender, age or disability, as defined by the Chancellor" (Section 5520I[e][12]]. Although Title 5 does not contain a specific definition of "disproportionate impact", the ASCCC advise that the standard used by the Equal Employment Opportunity Commission be applied. Under this standard, disproportionate impact occurs if the selection rate for a particular group is less than 4/5ths or 80% of the selection rate for the group with the highest selection rate. Selection rate is calculated by dividing the number of students in a group who meet the prerequisite by the total number of students in the group.

A study was conducted examining whether establishing either prerequisite (ENGL 1 or eligibility for ENGL 1) would have an adverse impact on specific ethnic/race and gender groups.

### GENDER

Women had the highest selection rates for ANATMY 1, BIOL 21, and MCRBIO 1 when compared with men for an ENG1. 1 prerequisite. Table 8 describes the ENG1 1 selection rates for both female and male gender groups in the outcome courses and calculates the figures for 4/5ths or 80% of the female selection group rates.

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Table 8. Selection Rates by Gender Group for ENGL 1 Prerequisite

Selection Rates	Outcome Course		
Gender Group	ANATMY 1	BIOLZA	MCRBIO 1
Female	55.6%	72.0%	74.2%
Male	54.7%	69.2%	69.7%
4/5 or 80% of Highest Selection Rate	44.5%	57.6%	59.4%
Disproportionate Impact None	None	None	None

The data reveals no disproportionate impact of implementing and ENGL 1 prerequisite for the life science outcome courses on any gender group. The male group's selection rates were higher than 4/5 or 80% of the female group's selection rates.

Women had the highest selection rates for ANATMY 1, BIOL 21, and MCRBIO 1 when compared with men for the eligibility for ENGL 1 prerequisite. Table 9 describes the eligibility for ENGL 1 selection rates for both female and male gender groups in the outcome courses and determines what 4/5ths or 80% of the female selection group rates are.

Table 9. Selection Rates by Gender Group for Eligibility for ENGL 1 Prerequisite

Selection Rates	Outcome Course		
Gender Group	ANATMY1	BIOL 21	MCRBIO 1
Female	61.8%	76.5%	77.8%
Male	86.09	75.7%	75.0%
4/5 or 80% of Highest 49.4%	49.4%	61.2%	62.2%
Disproportionate impact None	None	None	None

The data reveals no disproportionate impact of implementing and eligibility for ENGL 1 prerequisite for the life science outcome courses on any gender group. The male group's selection rates were higher than 4/5 or 80% of the female group's selection rates.

No gender group is adversely impacted if either prerequisite (ENGL 1 or eligibility for ENGL 1) was established for the life science courses.

### ETHNICITY/RACE

Tables 10 and 11 describe the selection rates, by ethnic/race group, for the eligibility for ENGL 1 prerequisite on the outcome courses. Native American/Alaskan Native students were not included in the analysis because there were fewer than ten students in each cohort.

Table 10. Selection Rates by Ethnic/Race Group for ENGL 1 Prerequisite

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Selection Rates	Outcome Course		
Ethnic/Race Group	ANATMY 1	BIOL21	MCRBIO1
Aslan/Pacific Islander	60.3%	66.3%	74,6%
Black	42.5%	60.0%	66.7%
Filipino	54.5%	84.6%	76.0%
Hispanic	43,4%	85.89	68.4%
Other	56.1%	72,7%	75.0%
White	61.3%	77.4%	75.4%
4/5 or 80% of Highest Selection Rate	49.0%	67.7%	60.8%
Disproportionate impact	Black Hispanic	Asian/Pacif Islander Black	None

No groups would be adveisely impacted by placing an 'eligibility for ENGL 1' prerequisite on MCRBIO 1.

Implementing an 'eligibility for ENGL 1' prerequisite on ANATMY 1 and BIOL 21 would have a negative, disproportionate impact on Black students. In both courses, however, the selection rate for the Black group's selection rate.

White students had the highest selection rate (percent of students who met the ENGL 1 prerequisite) in ANATMY 1 (61,3%). Black and Hispanic students had selection rates that were lower than 4/5ths of 61,3% (49,0%); approximately 43% of Black students and Hispanic students met the ENGL 1 prerequisite in ENGL 1. Black and Hispanic students would be adversely impacted by implementing an ENGL 1. prerequisite on ANATMY 1.

Filipino students had the highest selection rates in BIOL 21 and MCRBIO 1 for the ENGL 1 prerequisite (84.6% and 76.0%, respectively). Asian/Pacific Islander and Black students had selection rates that were lower than 4/5ths of the Filipino students' rate in BIOL 21 (4/5 of 84.6% = 67.7%); approximately 66% of Asian/Pacific Islander and 60% of Black students met the ENGL 1 prerequisite in the BIOL 21 cohort. While both Asian/Pacific Islander and Black students would be adversely impacted by the implementation of ENGL 1 as a prerequisite on BIOL 21, the impact would be smaller for Asian/Pacific Islander students as their selection rate is only 1.5% lower than 4/5 of the highest selection rate.

No groups would be adversely impacted by placing an ENGL 1 prerequisite on MCRBIO 1.

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Table 11. Selection Rates by	Ethnic/Race Group Jo	Table 11, Selection Rates by Ethnic/Hace Group for Eligibility for Enat. L'Iteraquistic
Selection Rates	Outcome Course	
Ethnic/Race Group Asian/Pacific Islander	ANATMY 1. 64.1%	#IOU21 MCRHD1. 71.8% 78.0%
Black	51.7%	65.0%
Filipino	61.2%	84.6%
Hispanic	53.1%	71.2% 72.6%
Other	61.0%	77.3% 75.0%
White	66.2%	82.4% 78.8%
4/5 or 80% of Highest Selection Rate	53.0%	67.7% 64.0%
Dispreportionate Impact Black	Black	Black

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The key findings from the current study regarding the establishment of either ENGL 1 or eligibility for ENGL 1 as prerequisites for ANATMY 1 are as follows:

- Currently, half of students enrolled in ANATMY 1 already meet the ENGL 1 prerequisite. Six in ten students are at least eligible for ENGL 1. Approximately 40 to 50% of ANATMY 1 students would be affected by the establishment of the proposed prerequisites.
- Without the prerequisite, the overall course success rate in ANATMY 1 is 60%. Establishing ENGL 1 or eligibility for ENGL 1 as prerequisites would increase the success rates to 70% and 67%, respectively. The ENGL 1 prerequisite meets the minimum net increase in percent of successful students required by the standards of the ASCCC; however, eligibility for ENGL 1 as a prerequisite does not.
- A statistically significant relationship exists between prerequisite status and course success for both prerequisites. In both cases, disproportionately more students with the prerequisite are successful in ANATMY 1 than students who do not meet the prerequisite.
- An examination of practical significance reveals that placing either prerequisite on ANATMY 1 will derry access to a large proportion of students (approximately 70%) who would have been successful without meeting the required prerequisites.
- who earn lower grades in ENGL 1 also earn lower grades in ANATMY 1. However, the size of the There is a positive and significant relationship between performance in ENGL 1 and ANATMY 1; students who earn higher grades in ENGL 1 also earn higher grades in ANATMY 1 and students correlation is only small to moderate.
- Establishing either prerequisite has no disproportionate impact on any gender groups.
- students; disproportionately fewer students from these groups would have access to the course Establishing ENGL 1 as a prerequisite for ANATMY 1 would adversely impact Black and Hispanic when compared with other ethnic/race groups.
- Establishing eligibility for ENGL 1 as a prerequisite for ANAMTY 1 would adversely impact Black students; disproportionately fewer Black students would have access to the course when compared with other ethnic/race groups.

Proposed Prerequisites and Biology 21

The key findings from the current study regarding the establishment of either ENGL 1 or eligibility for ENGL 1 as prerequisites for BIOL 21 are as follows:

- Currently, a large majority of students enrolled in BIOL 21 already meet the ENGL 1 prerequisite (71%) and/or the eligibility for ENGL 1 prerequisite (76%)
- Without the prerequisite, the overall course success rate in BIOL 21 is 64%. Establishing ENGL 1 or eligibility for ENGL 1 as prerequisites would increase the success rates to 66% and 67%, respectively. Establishing either prerequisite does little to increase the net percentage of successful students in BIOL 21.
- successful in BIOL 2.1 when compared with students who did not meet the prerequisite, in fact, success for both prerequisites. Students who meet the prerequisite are not more likely to be approximately 84% of students who do not meet either prerequisite are still successful in the A statistically significant relationship does not exist between prerequisite status and course course.
- students who earn higher grades in ENGL 1 also earn higher grades in BIOL 21 and students who correlation coefficient is small and does not meet the minimum standards recommended by the There is a positive and significant relationship between performance in ENGL 1 and BIOL 21, earn lower grades in ENGL 1 also earn lower grades in BIOL 21. However, the size of the
- Establishing either prerequisite has no disproportionate impact on any gender groups.
- and Black students; disproportionately fewer students from these groups would have access to Establishing ENGL 1 as a prerequisite for BIOL 21 would adversely impact Asian/Pacific Islander the course when compared with other ethnic/race groups.
- Establishing eligibility for ENGL 1 as a prerequisite for BIOL 21 would adversely impact Black students; disproportionately fewer Black students would have access to the course when compared with other ethnic/race groups.

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# Proposed Prerequisites and Microbiology 1

The key findings from the current study regarding the establishment of either ENGL 1 or eligibility for ENGL 1 as prerequisites for MCRBIO 1 are as follows:

- Currently, a large majority of students enrolled in MCRBIO 1 already meet the ENGL 1 prerequisite (73%) and/or the eligibility for ENGL 1 prerequisite (77%).
- Without the prerequisite, the overall course success rate in MCRBIO 1 is 84%. Establishing ENGL 1 or eligibility for ENGL 1 as prerequisites would only increase the success rates by 2 to 3%, the net increase in success is not large enough to meet the minimum standards recommended by
- A statistically significant relationship exists between prerequisite status and course success for both prerequisites. However, the percent of students with the prerequisite who are successful does not differ from the percent of students without the prerequisite.
- will deny access to a large proportion of students (approximately 90%) who would have been An examination of practical significance reveals that placing either prerequisite on MCRBIO 1. successful without meeting the required prerequisites.
- correlation coefficient is small and does not meet the minimum standards recommended by the who earn lower grades in ENGL 1 also earn lower grades in MCRBIO 1. However, the size of the There is a positive and significant relationship between performance in ENGL 1 and MCRBIO 1; students who earn higher grades in ENGL 1 also earn higher grades in MCRBIO 1 and students
- Establishing either prerequisite has no disproportionate impact on any gender groups.
- Establishing either prerequisite has no disproportionate Impact on any ethnic/race groups.

# Recommendations & Conclusions

Recommendations are made based on the California state standards for the estabilshment, evaluation, and benchmarking of course prerequisites and the findings of the current study.

the data should show an overall success rate increase of at least 10% after estabiishing the proposed specify the minimum standard for evidence using empirical data. It is recommended that the district prerequisite. In addition, a systematic and statistically significant relationship between prerequisite ASCCC in the document 1997 "Good Practices for the implementation of Prerequisites". Therefore, and 2x2 matrix/chi-square statistic, and follow the minimum standards of evidence outlined by the adopt two of the three research methods to validate course prerequisites, net increase in accuracy (1) It is recommended that the district develop local standards to evaluate course prerequisites and prerequisite are successful in the outcome course than students without the prerequisite. status and course success should exist where disproportionately more students with the

proposed prerequisites as the method relies on a restricted range (0 to 4) of grade performance and prerequisite course and students who withdrew or earned credit-no credit grades in either the The third research method, correlational analysis, is not recommended for the evaluation of excludes a large proportion of students, including students who have never enrolled in the prerequisite or outcome course.

proportion of students without the prerequisite who are successful in the outcome course should be establishing the proposed prerequisite. Issues of practical significance are important in cases where recommended that the district develop local standards of practical significance in the evaluation of threatens access for students, quality in the classroom, and student success. For example, the data course prerequisites. The purpose of the practical significance standard will be facilitate discussion empirical data supports the need for a prerequisite; however, implementation of the prerequisite In the absence of a local standards for the research methods and minimum standards of evidence and dialogue among campus constituents related to the potential and practical consequences of supports the need for an ENGL 1 prerequisite for ANATMY 1 as adopting the prerequisite would for course prerequisite validation, the California state standards outlined by the ASCCC apply. increase the overall course success rate by nearly 10%. However, consideration for the large Currently, the state standards do not address issues of practical significance; therefore, it is made; implementing the prerequisite will deny access to these students.

prerequisite continues to be necessary for success in an outcome course. It is recommended that It is recommended that established prerequisites be evaluated every six years to ensure that the the potential disproportionate impact of the prerequisite on gender and ethnic/race groups continue to be monitored on a six-year cycle. (2) There is sufficient evidence supporting the establishment of ENGL f 1 as a prerequisite for ANATMY f 1. grade in ANAMTY 1. Because a majority of students (90%) who are eligible for ENGL 1 already meet 10% to a course success rate of 70%. The data reveals that students who meet the prerequisite are Instituting an ENGL 1 prerequisite on ANATMY 1 would increase the overall course success rate by highly likely and students who do not meet the prerequisite are unlikely to obtain a satisfactory

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Implementation of the ENGL 1 prerequisite would adversely impact access to ANAMTY 1 for Black and Hispanic students; therefore, it is recommended that the Curriculum Committee develop strategies to correct for the disproportionate impact. Some examples of strategies addressing disproportionate impact include making all groups feel comfortable and welcome on campus, increasing contact between students and faculty outside of the classroom, Boartight, 2003).

- (3) It is recommended that the ENGL 1 and eligibility for ENGL 1 prerequisites NOT BE established for enrollment in BIOL 21. The findings do not meet the minimum standards of validity and implementing either prerequisite will only increase the overall course success rate by less than 3% while denying access for 25% of the cohort. In addition, because more than seven in ten students enrolled in BIOL 21 already meet either prerequisite, there is little need for an English prerequisite on this course.
- (4) It is recommended that the ENGL 1 and eligibility for ENGL 1 prerequisites NOT BE established for enrollment in MCRBIO 1. Implementing either prerequisite will only increase the overall course success rate by less than 3% while denying access for nearly 25% of the cohort.

The course success rate in MCRBIO 1, regardless of prerequisite status, is 84.1%. The success rate is considerably high when compared with the average college-wide overall course success rate [66.5% in 2007-2008]. Therefore, enforcing any prerequisite will do little to increase the net percent of course success as the rate is already near ceiling, in addition, a large majority of MCRBIO 1 students (approximately 75%) have already met either English prerequisite. Based on these findings, there is little evidence suggesting that students who do not meet the prerequisite are highly unlikely to be successful in the course.

The current study evaluated the establishment of ENGL 1 and eligibility for ENGL 1 as prerequisites for ANATMY 1, BIOL 21, and MCRBIO 1. While the findings of the study found support for the implementation of ENGL 1 as a prerequisite for ANATMY 1, they failed to support the implementation of an English prerequisite for BIOL 21 and MCRBIO 1. This report offers recommendations to be considered by the Curriculum Committee in the establishment and evaluation of course prerequisites.

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# Appendix A: Comparison of Current Findings to Previous Study

An earlier study conducted in spring 2009 attempted to provide empirical support for the establishment of ENG1.1 or eligibility for ENG1.1 as prerequisites for ANATMY 1, BIOL 21, and MCRBIO 1. However, the study failed to follow the research methods recommended by the ASCCC and the California state standards for evidence of course prerequisite validation were not met.

The following tables compare the findings of the first study with the findings of the current study. Any comparisons should be made with caution as the documentation of the analyses of the first study is unavailable. For example, it is unknown what years of cohorts were used, who were in the cohorts, whether prerequisite and outcome course enrollment data were extracted in temporal order, and whether the outcome course sample included duplicates of student enrollment.

Table 12. Comparison of Percent of Students in Cohort Who Met the Prerequisite

table 12: Companison of Lacent Special	referred of order		
Met the Prerequisite	Outcome Course		
ENGL 1	ANATMY 1	810(.21	MCRBIO.1
First Study	66.0%	79.9%	78.7%
Current Study	55.3%	70.9%	73.2%
Difference in Data?	YES	YES	YES
Eligibility for ENGL 1	ANATMY 1	BIOL 21	MCRBIO 1
First Study	18.6%	29.4%	17.8%
Current Study	61.5%	76.2%	77.2%
Difference in Data?	YES	YES	YES
***************************************			

There are differences in the figures produced for percent of students in the cohorts who meet the prerequisite between the earlier and current studies. The earlier study produced a disproportionately larger percentage figure for those who met either prerequisite in ANAMTY 1, BIOL 21, MCRBIO 1, than the current study. It is unknown how ENGI. 1 prerequisite status was determined in the earlier study. In the current study, students who successfully completed ENGI. 1 and/or students who completed an associate degree or higher prior to enrolling in their life science course (first attempt) were identified as those who "met the ENGI. 1 prerequisite.", in addition, it is unknown how eligibility for ENGI. 1 prerequisite, and the current study, the eligible for ENGI. 1 included students who had not met the ENGI. 1 prerequisite as well as those who did.

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Table 13. Comparison of Overall Course Success Rate Before and After Placing the ENGL 1 Prerequisite

CONTRACTOR	CULCOSIE COURSE		
Bafora Prerequisite	ANATMY 1	8101.21	MCRBIO 1
First Study	60.4%	62.7%	84.0%
Current Study	59.7%	64.4%	84.1%
Difference in Data?	NO	NO	NO
After Prerequisite	ANATMY 1	B(01/21	MCRBIO 1
First Study	68.2%	65.9%	86.9%
Current Study	89:69	65.1%	87.0%
Difference in Data?	ON	NO	ON

The findings from the earlier study are consistent with the findings from the current study in overall course success rates prior to and after establishing the ENGL 1 prerequisite. For both studies, the overall course success rates before placing the prerequisite for ANATMY 1 and BIOL 21 was approximately 60 to 63%. Placing the ENGL 1 prerequisite increased the rate by approximately 8% to 10% for ANATMY 1; however, the ENGL 1 prerequisite did not increase the overall course success rate in BIOL 21.

In both studies, the overall course success rate for MCRBIO 1 is a high 84%. Placing an ENGL 1 prerequisite did not substantially increase the success rates.

table 14. Comparison of Overall Course Success Rate Before and After Placing the Eligibility for ENGL 1

		THE RESERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I	t Dispare
Before Prerequisite First Study	ANATMY 1. 60.4%	810], 21 62.7%	84.0%
Current Study	59.7%	64.4%	84.1%
Difference in Data?	NO	NO	NO
After Prerequisite	ANATMY 1	8101.21	MCR8IO.1. 84.8%
First Study	54,9%	20.00	7¢C 20
Current Study	67.0%	65.3%	007770
Difference in Data?	2	ON	NO

The findings from the earlier study are consistent with the findings from the current study in overall course success rates prior to and after establishing the eligibility ENGL 1 prerequisite. However, the net increase in accuracy experienced after placing the prerequisite in BIOL 21 differs by nearly 6%. In the earlier study, placing the eligibility for ENGL 1 prerequisite on BIOL 21 increased the course success rate by 8%. In the current study, the success rate increased by only 2% after placing the prerequisite.

Comparisons for success rates of students with prerequisites with students without prerequisites were not made as the earlier study included Ws in the calculation of the rates as the current study did not.

## Appendix B: Description of the Life Science Courses

### ANATMY 1, General Human Anatomy

This course is an intensive study of the gross and microscopic structure of the human body including the four major types of tissue and their subgroups, and the following organ systems: integumentary, skeletal, muscle, circulatory, respiratory, digestive, urinary, reproductive, endocrine, nervous, and senses. Functions of the organ systems are included at the introductory level to prepare students for a course in Human Physiology. Laboratory assignments develop the skills of observation, investigation, discovery, and dissection. The use of actual specimens, including cat dissection and observation of a human cadaver, is emphasized to assure that students learn the relative structure, functions, textures, and variations in tissues not incorporated in models. Supplemental materials such as models, photographs, charts, videotapes, and digitized images are also provided. This course is required for students preparing for many Aliled Health professions including, but not limited to, Nursing, for students preparing for many Aliled Health professions including, but not limited to, Nursing, Assistant and is a prerequisite for Human Physiology 3.

## ANATMY 2, Advanced Human Anatomy

This course emphasizes developmental, comparative, gross anatomy as applied to various disciplines such as clinical medicine, anthropology, art, illustration, kinesiology, and pathology in order to demonstrate practical and professional applications of anatomy. The laboratory experience includes individualized instruction in dissection of the human body. Students prepare seminars on specific anatomy topics for presentation to faculty and other students. Guest lecturers and field trips may be included.

### BIOL 21, Cell Biology and Evolution

This is the first course of a three-course lecture and laboratory sequence for Biology majors, including Biology 21, 22, and 23. It describes how scientist approach the scientific method to generate scientific knowledge; studies the history, evidence, and mechanism of evolution; identifies the chemistry of four-classes of macromolecules; elucidates the cell principles including cell structure, function, and physiology; describes general energy metabolism; and illustrates the processes of growth, and reproduction through mitosis, melosis, development, and life cycles. Students are required to perform at least two experiments that require data collection, computer-based data management and graphing, and scientific analysis and interpretation of data. The course is designed to meet the needs of students transferring to upper division biology student.

## BIOL 22, Genetics and Molecular Biology

This is the second course of a three-course lecture and laboratory sequence for Biology majors, including Biology 21, 22, and 23, it focuses on the structure, function, and transmission of genes from the

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perspectives of genetic and molecular biology. A strong foundation in genetics and its relationship to molecular biology is developed through problem solving. Students perform experiments that require data analyses and demonstrate interpretations in laboratory reports. Application of internet databases for bioinformatics is used to show relationships between DNA and protein sequences. The course is designed to meets the needs of students transferring to upper division biology study.

# SIOL 23, Organismal and Environmental Biology

This is the third course of a three-course lecture and laboratory sequence for Biology majors, including Biology 21, 22, and 23. Organisms at and above the cellular level of organization are examined, with plants, invertebrates, and vertebrates receiving equal attention. Topics emphasized include morphology, physiology, systematic, ecology, evolution, and behavior. Additionally, each student must complete a term project which includes lab or fieldwork and library research.

## MCRBIO 1, Fundamentals of Microbiology

This course involves study of several types of microorganisms with emphasis on bacteria. Principles of microbiology, metabolism, genetics, immunology, and medical and non-medical applications are considered. The laboratory includes aseptic transfer techniques, cultural characteristics, methods of microscopy, and analytical techniques for identifying microbial organisms. The course content is related to both general and clinical applications including recent molecular biological and serological

### PHYS 3, Human Physiology

This rigorous course provides a basic understanding of physiological mechanisms with a focus on the human body. Basic concepts of cellular physiology, including: molecular control; mechanisms of gene expression; ligand-binding site interactions; energy and cellular metabolism; membrane transport; membrane and action potentials, and cellular communication, including signal transduction, will be integrated within the concept of homeostasis involving the following body systems: nervous and sensory, endocrine, muscular, circulatory, immune, respiratory, renal, digestive, and reproductive. This course content includes both general and clinical applications and is intended to prepare students for advanced courses in Allied Health and Medical professions including Nursing, Physical Therapy, Respiratory Therapy, Physician's Assistant, Pharmacy, and Exercise Science/Kinesiology Training.

### Application of International Baccalaureate to SMC AA GE, Liberal Arts, and General Science Degrees

The Diploma Program for students aged 16 to 19 is a demanding two-year curriculum leading to final examinations and a qualification that is welcomed by many universities around the world. Each program includes a curriculum and pedagogy, student assessment appropriate to the age range, professional development for teachers and a process of school authorization and evaluation. The programs are available through 2,741 IB World Schools in 138 countries. There are 1,037 IB World Schools in the United States - including 668 schools that offer the Diploma Program.

The IB does not own or manage any schools. Instead, they work with schools around the world (both state and privately funded) that share their commitment to international education. More information can be found at: http://www.ibo.org/diploma/

In the summer of 2009, the UC and CSU agreed to accept IB exams for use on IGETC and CSUGE (see below).

### **CSUGE**

INTERNATIONAL BACCALAUREATE	( <b>IB</b> )	CSUGE		
The following International Baccalaure INTERNATIONAL BACCALAUREATE (IB)	PASSING SCORE	MINIMUM SEMESTER CREDITS EARNED	SEMESTER CREDITS TOWARD GE BREADTH CERTIFICATION	AMERICAN INSTITUTIONS AND/OR GE BREADTH AREA
	5	6	3	B2
IB Biology HL		6	3	B1
IB Chemistry HL	3		3	D2
1B Economics HL	5	<u>^</u>	3	D5
IB Geography HL	5		3	C2 or D6
IB History (any region) HL	5	6	<u> </u>	C2
IB Language A1 (any language) HL	4	6		C2
is Language AT (di) Janguage HI	4	6	3	
IB Language A2 (any language) HL	4	6	0	n/a
IB Language B (any language) HL7		6	3	B4
IB Mathematics HL	5	6	3	B1
Physics, HL		L	_1	•

### TCETC

		IGETC	
1	exams is required to gran s to either 3 semester/4 c B exam should not take a	comparable college course because transfer credit will	not be granted for
The following International Baccalaureate (I INTERNATIONAL BACCALAUREATE	B) exams may be used on IGETC AREA	INTERNATIONAL BACCALAUREATE (IB)	IGETC AREA
(IB) EXAM		IB Language A1 (any language) HL	38
IB Biology HL	5B (without lab)	IB Language A2 (any language) HL	3В
IB Chemistry HL	5A (without lab)	IB Language B (any language) HL	6A
IB Economics HL	4B	IB Mathematics HL	2
IB Geography HL	4E. 3B <u>or</u> 4F	IB Physics HL	5A (without lab)
IB History (any region) HL	38 and 6A	IB Psychology HL	41
IB Language A1 (any language, except	35 and ox		
English) HL  IB Language A2 (any language, except	3B <u>and</u> 6A	IB Theatre HL	3A
English) HL	<u> </u>	7800001	

Proposed SMC AA GE, Liberal Arts, and General Science Degrees

INTERNATIONAL BACCALAUREATE (IB  A score of 5, 6 or 7 on Higher Level (H  An acceptable IB score equates to eith	L) exams is required to g	grant crea	dit for the Santa Monica College AAGE pattern	
The following International Baccalaureate INTERNATIONAL BACCALAUREATE	(IB) exams may be used AAGE AREA	d on the S	anta Monica College AAGE patter: INTERNATIONAL BACCALAUREATE (IB)	AAGE AREA
(IB) EXAM	l (without lab)		IB Language A1 (any language) HL	
IB Biology HL IB Chemistry HL	l (without lab)		IB Language A2 (any language) HL IB Language B (any language) HL	11
IB Economics HL IB Geography HL	II B IIB	$\exists ::$	IB Mathematics HL	IV B I (without lab)
IB History (any region) HL	II B		IB Physics HL	1 (111111111111111111111111111111111111

### CALIFORNIA COMMUNITY COLLEGES SYSTEM OFFICE

1102 Q STREET SACRAMENTO, CA 95811-6549 (916) 445-8752 http://www.ccco.edu



Date

January 22, 2010

To:

Chief Instructional Officers
Chief Student Services Officers

From:

Barry A. Russell, Vice Chancellor of Academic Affairs

Subject:

Avocational, Recreational, and Personal Development Courses ... Some

Suggestions

In fall 2009, messages concerning some possible funding changes for certain courses at California community colleges began to surface from a variety of sources. After much discussion, several phone meetings, and some investigative activities, the Chancellor's Office makes the following observations and suggestions to guide colleges.

Why Is There Confusion?

In the 2009-10 Budget Act1, language was provided that directed community colleges to

"the greatest extent possible, shall implement any necessary workload reductions in areas other than basic skills, workforce training, and transfer."

Although this language was clear about the classes to be included in the focus for 2009-2010, it gave no specific direction about all the other courses and programs being offered at community colleges. The budget was reduced \$120 million without identifying specific cuts that must be made or courses that must be eliminated. Subsequently, colleges are looking for direction. In addition, it is important to note that this limitation (at this point) is only attached to the 2009-2010 budget language. Budget language is still being crafted for the 2010-2011 year and it is yet to be determined if there will be a continued focus directly communicated by the Legislature or if more general language will be used. Whatever the action, it is probably fair to say that the Legislature has communicated an overall priority for colleges during this budget crisis...however long it should last.

For 2009-2010 it is safe to assume all courses that are outside of transfer, basic skills, or career technical are potential courses for scrutiny as community colleges limit class offerings in response to large budget cuts across the state. In addition to focusing on these three areas, community colleges also must continue to respond to local community need and workforce issues through the noncredit offerings which are already restricted to 10 areas of identified content (California Education code 84757(a)).

<sup>&</sup>lt;sup>1</sup> Budget Act of 2009, Section 482, item 6870-101-0001, provision 29, page 617

So, the questions are:

- Where do colleges draw the line between the three categories and those outside?
- What courses do colleges exclude and what courses do they include?
- Do colleges discontinue very popular courses should they fall outside the designated areas?

### What's Next?

The Legislative Analyst Office, legislators, and others are looking closely at both credit and noncredit offerings throughout the state and have found a variety of courses that seem to fall outside of the accepted areas listed above. There could be legislation or other actions taken to remove some local control of course offerings if colleges are not responding to the expressed intent of the budget language.

This is not a new question. In a review of documents all the way back to 1982, there have been several instances where recreational, avocational, and personal development courses have been addressed. In fact, in a letter dated January 31, 1984 to all Chief Instructional Officers, clear direction was provided that still remains appropriate today. The difference is that at that time, the Legislature mandated that the Chancellor's Office develop a list for a \$30 million reduction and at this time, there is no mandate from the current Legislature. Here is a quote from this 1984 memo:

"Recreational, avocational, and personal development courses are those which:

- (a) are not required courses or suggested electives leading to the completion of the requirements of a major offered by the college,
- (b) are offered primarily to provide recreational or avocational pursuits for students.
- (c) are of greater private than public interest.
- (d) should be offered as a community service class for a fee which covers the cost of instruction."2

It should also be noted that the language is very general intentionally so as not to focus or marginalize one specific sector of the curriculum. These types of courses can occur in virtually every curricular area of the campus.

How can community colleges respond?

While not giving colleges specific direction, the Chancellor's Office would highly recommend that each college visit their course offerings and review them for three priorities: basic skills, transfer, and career technical. If courses do not fit into one of those three categories, then further analysis should be done according to the four points (a through d) listed above. Note that option "d" provides a way to continue offering a course as a community service class without affecting the state budget.

It is the opinion of the Chancellor's Office that this is a local decision and not one that should be made at the state level. The reality, though, is that if courses that are perceived as recreational, avocational, or personal development are not voluntarily removed from the credit/noncredit offerings, the Legislature or others may choose a more intrusive method.

<sup>&</sup>lt;sup>2</sup> Letter to Chief Instructional Officers by Allan L. Petersen, Dean, January 31, 1984.

It would be prudent for colleges to also focus on communication with their local communities and governance groups as these changes take place. The budget message should be clear to all sectors (boards, administration, faculty, staff, and students) that the necessary limited focus on basic skills, transfer, and career technical education requires subsequent changes in scheduling and course offerings.

### Where will this take us?

In the next Legislature, the issue of funding community college courses will inevitably include some review of courses which the Legislature interprets as outside the scope of the community college mission. If California community colleges have proactively changed or removed the offering of these courses voluntarily, there will be less evidence to support further reductions in state funding based on this one point of contention.

As you study your offerings and take action to reduce course offerings to meet workload reduction goals, please focus first on sustaining basic skills, transfer, and career/technical courses and programs. With a statewide response to this reduction of \$120 million, hopefully the chance of further state budget reductions based on this issue can be minimized. If you have any questions or concerns throughout this process, please feel free to contact the Chancellor's Office Division of Academic Affairs at 916.322.6881.

cc: Chief Executive Officers
Academic Senate for the California Community Colleges