

Santa Monica College Curriculum Committee Meeting Agenda

Wednesday, December 1, 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 Benson Ellen Cutler Diane Gross Aileen Huang Maral Hyeler Randal Lawson
Helen LeDonne
Emily Lodmer
Jesse Martinez
Walter Meyer
Eric Minzenberg

Christina Preciado

Estela Narrie

Deborah Schwyter
Jeffery Shimizu
Edie Spain
Gary Taka
Esau Tovar
Carol Womack

Patricia Ramos

Judith Remmes

Interested Parties:

Maria Bonin Jonathan Cohanne Mary Colavito Kiersten Elliott Mona Martin Mitra Moassessi Katharine Muller

Wendy Parise Eleanor Singleton Julie Yarrish Chris Young

ExOfficio Members:

Eric Oifer

Tiffany Inabu

Agenda:

Approval of Minutes

Chairs Report

Information Items:

- ET 13: 2D Game Prototyping (course update; title change from "Game Prototyping")
- 2. ET 23: 2D Character Animation (course update; title change *from* "2D Character Animation")
- 3. ET 64: Digital Effects 1 (course update)
- 4. ET 72: Career Development (course update; title change from "Career Exploration")
- 5. Graphic Design 65: Web Design I (course update)

Consent Agenda:

- ET 18: Digital Storyboarding (course update; title change from "Storyboards;" unit increase from 2 units to 3 units)
- 2. ET 19A: Beginning 2D Animation (course update; title change from "2D Animation I;" unit change from 2 units to 3 units)
- 3. ET 19B: Advanced 2D Animation (course update; title change *from* "2D Animation II;" unit change *from* 2 units to 3 units)
- 4. ET 24: 3D Fundamentals (course update; prerequisites removed; advisory of ET 11 added)
- 5. ET 25: 3D Modeling (course update; title change from "3D Modeling and Rigging;" unit change from 4 units to 3 units)
- 6. ET 26: 3D Rendering (course update; unit change from 4 units to 3 units)

New Courses— Credit:

- 1. ET 25C: 3D Character Rigging
- 2. Philosophy 20/Environmental Studies 20: Environmental Ethics
- 3. Recycling and Resource Management 01: Introduction to Recycling and Resource Management
- 4. Recycling and Resource Management 02: Culture and Zero Waste
- 5. Recycling and Resource Management 03: Resource Management and Zero Waste for Communities
- 6. Recycling and Resource Management 04: Resource Management and Zero Waste in Business

Global Citizenship:

- 1. Philosophy 20/Environmental Studies 20: Environmental Ethics
- 2. Recycling and Resource Management 01: Introduction to Recycling and Resource Management

A.A. Degree:

1. Associate of Science Degree in Mathematics for Transfer

Certificates:

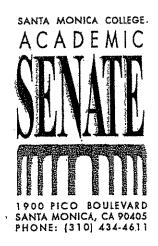
- 1. Animation Certificate of Achievement (revised)
- 2D Animation Department Certificate
 3D Animation Department Certificate
 3D Modeling Department Certificate
 3D Rendering Department Certificate

Old Business

New Business

Adjournment

Please advise Guido Davis Del Piccolo (x3561), Georgia Lorenz (x4277), or Sheryl Bowman (x4454) if you are unable to attend this meeting.



SANTA MONICA COLLEGE CURRICULUM COMMITTEE MEETING MINUTES OF NOVEMBER 17, 2010

The Santa Monica College Curriculum Committee was called to order by Guido Davis Del Piccolo at 3:11 p.m.

Members Present:

Guido Davis Del Piccolo.

Georgia Lorenz, Vice Chair

Brenda Benson Ellen Cutler Diane Gross Aileen Huang

Maral Hyeler Randal Lawson Helen LeDonne **Emily Lodmer** Jesse Martinez Estela Narrie

Christina Preciado Patricia Ramos Deborah Schwyter Jeffery Shimizu Edie Spain Gary Taka Carol Womack

Members Absent:

Walter Meyer

Eric Minzenberg

Judith Remmes Esau Tovar

Others Present:

Christine Schultz

Richard Tahvildaran-Jesswein

Approval of Minutes: The minutes of November 3, 2010 were unanimously approved.

Chairs Report:

- The Academic Senate on November 9, 2010, passed the following: New Courses—Medical Laboratory Technician 01, Medical Laboratory Technician 02, and Turkish 01.
- Guido discussed SMC's Global Studies courses regarding articulation with four-year colleges. UC Santa Barbara rejected the courses and we will pursue this further. We need articulation with three colleges and have acceptance with UCLA and UC Riverside.

Information items:

- 1.. ESL 10G: Multiple Skills Preparation: Listening, Speaking, and Grammar
- 2. ESL 10W: Multiple Skills Preparation: Reading and Writing (course update)
- 3. ESL 11A: Basic English 1 (course update)
- 4. ESL 21A: English Fundamentals (course update)

New Courses--Credit:

1. Political Science 31: Introduction to Public Policy—presented by Richard Tahvildaran-Jesswein and Christine Schultz. This course is an introduction to public policy. The course covers core topics in American public policy and focuses on institutions, policy actors, and major theoretical models. In addition, the course covers the nature and practice of policy analysis in order to demonstrate how to employ evaluative criteria in substantive policy areas.

(New Courses—cont.)

Randy Lawson moved to approve Political Science 31 with the following changes:

- On the Course Approval and Data Sheet:
 - Appropriate Minimum Qualifications Change to read: "Political Science."
 - On the Student/Program/Institutional Learning Outcomes: Change ILO #2 to read: "The student will learn how to pursue and develop public policy. The student will be asked to engage . . ."
- > On the Course Outline:
 - Please see the appropriate version of this course outline which is attached.

The motion passed unanimously.

2. Political Science 95: Public Policy—Experiential Learning—presented by Richard Tahvildaran-Jesswein and Christine Schultz. This course builds upon the content of Political Science 31, Introduction to Public Policy, to provide the student with field experience in the discipline. This course is a practicum in public policy in a local setting. As a hands-on course, students will engage in experiential learning through various agencies which have a role in developing and/or implementing public policy. Each student will develop a reading list, customized to their particular agency's focus and complete a minimum of 30 hours of volunteer work with that agency. In addition, this course addresses the theoretical underpinnings of democratic civic engagement. The course exposes the students to organized meaningful public policy research and implementation in substantive policy arenas. Students will be exposed to both local governmental and nongovernmental agencies and will be supervised in their off-campus experiential learning projects pertaining to the political development of public policy.

Randy Lawson moved to approve Political Science 95 with the following changes:

- > On the Course Approval and Data Sheet:
 - List all A.A. majors in which this course is/will be an option— Remove "Liberal Arts—Social and Behavioral Sciences."
- On the Course Outline:
 - Please see the appropriate version of this course outline which is attached.

The motion passed unanimously.

Approval of the Prerequisite for Political Science 95: Political Science 31. Estela Narrie moved to approve the prerequisite. The motion passed unanimously.

Old Business:

SB 1440 / C-ID Discussion - There was discussion on SB 1440 and related resolutions from the statewide Academic Senate Plenary Session.

Adjournment:

The meeting was adjourned at 4:05 p.m.

Next Meeting:

The next meeting of the Curriculum Committee will be December 1, 2010 at 3:00 p.m. in DH-300E. The Loft.

Respectfully submitted, Georgia Lorenz sb

Form 1: Course Outline of Record

Santa Monica College

Course Outline For Political Science 31

Course Title: Int	roduction to Public Policy	Units: 3
Total Instructional H	ours: (usually 18 per unit) 54	
Hours per week (full	semester equivalent) in Lecture: 3	in-Class Lab: (hours) Arranged: (hours)
Date Submitted: Date Updated:	September 17, 2010	
		IGETC Area: 4H Political Science/Gov't. CSU GE Area: D8 Political Science/Gov't.
entre de la companya		SMC GE Area: IIB Social Science (Group B) Transfer: UC, CSU
Prerequisite(s): Skills Advisory:	None English 1	

Catalog Description:

This course is an introduction to public policy. The course covers core topics in American public policy and focuses on institutions, policy actors, and major theoretical models. In addition, the course covers the nature and practice of policy analysis in order to demonstrate how to employ evaluative criteria in substantive policy areas.

- II. Examples of Appropriate Text or Other Required Reading: (include all publication dates; for transferable courses at least one text should have been published within the last five years)

 American Public Policy: Promise and Performance, 8th edition, 2009. B. Guy Peters, University of
 - Pittsburgh.
 - Public Policy: Politics, Analysis, and Alternatives, 3rd edition, 2009. Michale Kraft and Scott Furlong, 2. University of Wisconsin, Green Bay.
 - Issues for Debate in American Public Policy, 11th edition, 2010. CQ Press, Washington D.C. 3,

III. Course Objectives:

Upon completion of the course students will be able to:

- Define and explain the concept of public policy. 1.
- Identify the structures of policymaking in American government. 2.
- Explain the politics behind particular policy choices. 3.
- Demonstrate an understanding of the politics of budgeting and the allocation of public resources pertaining to 4. public policies.
- Evaluate policy changes.
- Evaluate cost-benefit analyses pertaining to public policies. 6.
- Identify and evaluate ethical analyses of substantive contemporary public policies. 7.
- Write critically about a substantive American public policy (local, state, and/or national). 8.

IV. Methods of Presentation:

Lecture, films, and small group discussions

١.		Content:

Topic
What is Public Policy
The Structure of Policymaking in American Government
Explaining Policy Choices
Agenda Setting and Public Policy
Legitimating Policy Choices
Organizations and Implementation
Budgeting: Allocation and Public Policy
Evaluation and Policy Change
Evaluating Substantive Policy Issues: Economic, Tax, Health, Income Maintenance, Education, Energy and the Environment, Defense and Law Enforcement, Social.
Policy Analysis: Cost-Benefit Analysis and Ethical Analysis

VI. Methods of Evaluation: (Specific percentages will vary with instructor; approximate values are shown.)

% of grade	Evaluation Method			and the second second
30%	3 Quizzes		and the second	and the second s
30%	Midterm			and the second of the second o
10%	Academic Journal with 10 Entrie	s in response to g	uiding questions fro	om instructor
30%	Final Examination		the state of the s	and the second s

VII. Sample Assignments: (please describe at least 2 sample assignments)

Students will be required to keep a written academic journal that chronicles their reflections on class readings and discussions. Each week students will respond in the journal to a question posed by the instructor such as, 1. "Select a public policy issue at the county level and write an argument for or against the policy."

Students will work in groups to develop a law or regulation in response to a current public need or problem. 2.

Form 1: Course Outline of Record

Santa Monica College

Course Outline For Political Science 95

Course Title: Public Policy –Expe	riential Learning	Units: 2	24 1 - AMARIA II
Total Instructional Hours: (usually 18	and the second s		and or ex-
Hours per week (full semester equiva		In-Class Lab: (hours) Arranged: 2	
Hours per week (tail serilester equiva	The second secon	A supplied to the second state of the second	
Date Submitted: September 17 Date Updated:	7, 2010		•
and the second s		(office use only)	
A CONTRACTOR OF THE CONTRACTOR	and hold the applica	IGETC Area: (office use only)	
IGETC Area (if applicable): please Area 1A: Composition Area 1B: Critical Thinking Area 1C: Oral Communication Area 2: Mathematics Area 3A: Arts Area 3B: Humanities Area 4A: Anthropology/Archeology	Area 4C: Ethnic Studies (must be Area 4D: Gender Studies Area 4E: Geography Area 4F: History Area 4G: Interdisciplinary Area 4H: Political Science/Gover Area 4I: Psychology	Area 5A: Physical Science (no lab) Area 5B: Biological Science (no lab) Area 5B: Biological Science (no lab) Area 6A: Language Area US1: US History Area US2: US Constitution & Gov't	
Area 4B: Economics	Area 4J: Sociology & Criminolog	CSU GE Area: (office use only) 2 nd CSU GE Area: (office use only)	
CSU GE Area(s) (if applicable): ple Area A1: Speech Area A2: Composition Area A3: Critical Thinking Area B1: Physical Science Area B2: Biological Science Area B3: Lab Area B4: Mathematics Area C1: Arts	ease underline and bold the a Area C2: Humanities Area D0: Sociology/Criminology Area D1: Anthropology/Archeol Area D2: Economics Area D3: Ethnic Studies (must l Area D4: Gender Studies Area D5: Geography Area D6: History	y Area D8: Political Science/Government logy Area D9: Psychology Area E: Lifelong Learning/Self-Development	pment
SMC AA General Education Area(Area I: Natural Science Area IIA: Social Science (Group A) Area IIB: Social Science (Group B) Area III: Humanities	Alea	SMC GE Area: (office use only) erline and bold the applicable area or areas: IVA: Language and Rationality (Group A) IVA: Language and Rationality (Group B) IV: Global Citizenship	
Transfer (if applicable): please <u>ur</u>	nderline and bold the anticipat	Transfer: (office use only) ed transferability of this course:	
<u>Transferable to</u>	UC	Transferable to CSU	•
Prerequisite(s): Political Science Skills Advisory: English 1	ce 95		
I. Catalog Description:			**1

This course builds upon the content of Political Science 31, Introduction to Public Policy, to provide the student with field experience in the discipline. This course addresses the theoretical underpinnings of democratic civic engagement and is a practicum in public policy in a local setting. As a hands-on course, the student will engage in experiential learning through various governmental and nongovernmental agencies which have a role in developing and/or implementing public policy. The student will develop a reading list, customized to his/her particular agency's focus and complete a minimum of 30 hours of volunteer work with that agency. The course exposes the student to

organized, meaningful public policy research and implementation in substantive policy arenas and will be supervised in his/her off-campus experiential learning project pertaining to the development of public policy.

- II. Examples of Appropriate Text or Other Required Reading: (include all publication dates; for transferable courses at least one text should have been published within the last five years)
 - Ehrlich, Thomas (2007). <u>Education for Democracy: Preparing Undergraduates for Responsible Political</u> <u>Engagement</u>. Jossey-Bass, San Francisco.
 - Colby, Anne, et. al. (2003). <u>Educating Citizens: Preparing America's Undergraduates for Lives of Moral and Civic Responsibility</u>. Jossey-Bass, San Francisco.
 - 3. Wilson, Carter (2006). Public Policy: Continuity and Change. McGraw Hill, New York, NY.
 - 4. Smith, Michel, et. al. (2010). Citizenship across the Curriculum. Indiana University Press.
 - Issues for Debate in American Public Policy, 11th edition (2010). CQ Researcher.

III. Course Objectives:

Upon completion of the course students will be able to:

- 1. Identify and explain core theories of democratic civic engagement.
- Demonstrate an understanding and awareness of contemporary substantive public issues and policies.
- 3. Evaluate theories pertaining to civic engagement and public participation.
- 4. Identify public problems and policy alternatives.
- 5. Assess specific substantive public policy alternatives.
- 6. Demonstrate professional and political skills in the public arena.

IIIb. Arranged Hours Objectives:

If this course has any "arranged hours" listed above, provide the specific objectives related to those arranged hours.

Upon completion of the arranged hours students will be able to:

- 1. Write critically pertaining to a substantive public policy in a specific area of interest.
- 2. Identify improvements pertaining to a substantive public policy in a specific area of interest.

IV. Methods of Presentation:

An orientation will provide an introduction and discussion of basic concepts what will be addressed in the course. Instructors will approve the placement site. Discussions (could be electronic) involving the instructor as well as classmates will occur, providing feedback and guidance to further academic exploration.

IVb. Arranged Hours Instructional Activities:

If this course has any "arranged hours" listed above, provide the specific instructional activities related to those arranged hours.

1. Students will complete 30 hours of experiential learning in an arranged local governmental or nongovernmental agency in one of four substantive policy areas.

V. Course Content: % of course 15% Introduction to course requirements, basic concepts in public policy and engaged scholarship, basic concepts in experiential learning, and how they are applied in the particular situation involved. 10% Development of an appropriate reading list. 75% Applying theoretical and empirical knowledge to lived experiences through experiential learning.

/i. Methods of	Evaluation: (Specific percentages will vary with instructor; approximate values are shown.)
% of grade	Evaluation Method
10%	Development of appropriate reading list
60%	Academically-sound Experiential Learning Reflection Journals (approximately 6)
30%	Term Paper

VII. Sample Assignments: (please describe at least 2 sample assignments)

- 1. Students will be required to maintain an academic journal that demonstrates their awareness and understanding of the connections between the theoretical and the practical in the area of a substantive public policy.
- Students will be required to complete a term paper where they identify a public policy alternative, present a cost-benefit analysis, and critique.
- Students will complete community-based experiential-learning work focused on civic matters such as
 environmental and socioeconomic issues, education and the arts, and public health. Students will be asked to
 demonstrate an awareness of an active engagement in the work of a community agency through writing in their
 reflective journal.

Form 1: Course Outline of Record Santa Monica College

Course Outline For Entertainment Technology 18

Course Title: Dig	ital Storyboarding			Units: 3
Total Instructional Ho	ours: (usually 18 per unit) 54	1		The second secon
Hours per week (full	semester equivalent) in Lectur	re: 3	In-Class Lab: 1	Arranged: 1
Date Submitted: Date Updated:	May 1997 (March 2005) October 15, 2010			
Transfer (if applica	ble): please <u>underline and b</u>	old the anticipat	IGETC Area: CSU GE Area: 2 nd CSU GE Area: SMC GE Area: Transfer: ed transferability of this	(office use only) s course:
indicion (a approx	Transferable to UC			erable to CSU
Prerequisite(s): Skills Advisory: I. Catalog Descri	ET 2 ET 11, 91, 92,			
Through the use storytelling inclu discuss the varie	e of computer software and the ding techniques such as stagir ous applications of digital story	digital drawing t ng, composition boarding for gar	ablet, students will lear and camera movement nes, web, 2D and 3D a	nimation, and visual effects.
at least one text	ppropriate Text or Other Req should have been published v Storyboarding (Design Exploruly 16, 2004	vithin the last five	e years)	n dates; for transferable courses elmar Cengage Learning; 1
2. The Grap & InDesig	hic Designer's Digital Toolkit: / n CS5 (Adobe Creative Suite)	A Project-Based by Allan Wood;	Introduction to Adobe Delmar Cengage Lear	Photoshop CS5, Illustrator CS5 ning; 5 Edition; August 2, 2010
1. Tell a vis	ives: n of the course students will be ual story in effective manner us		rt.	
	gital storyboards that utilize ba	the state of the s		
3. Understa	nd the correct terminology for	describing came	ra framing and movem	ent.
4. Design a	n animatic using the principles	of storyboarding	and animation timing.	

IIIb. Arranged Hours Objectives:

If this course has any "arranged hours" listed above, provide the specific objectives related to those arranged hours.

Upon completion of the arranged hours students will be able to:

Become proficient with the use of digital input devices such as a Wacom tablet or Cintiq monitor.

2. Become proficient with the use of digital storyboard software such as Storyboard Pro.

IV. Methods of Presentation:

Lecture, demonstration, discussion, hands-on projects, screenings

IVb. Arranged Hours Instructional Activities:

If this course has any "arranged hours" listed above, provide the specific instructional activities related to those arranged hours.

- 1. Tutorials that relate to the use of digital input devices.
- 2. Tutorials that relate to the use of digital storyboard software.

V. Course Con	tent:		
% of course	Topic	and the second of the second o	And the second s
5%	Visual Storytelling Overview		was a constant of the constant of the
10%	Shot Fundamentals (camera terminology, a	aspect ratios, etc.)	
20%	Composition Basics		
20%	Continuity Basics	and the second second	
10%	Storyboarding for Film, Television and Visu	ial Effects	and the second s
10%	Storyboarding for Videogames	and the second s	
25%	Animatic Development		
and the second of the second of the second			

Vi. Methods of % of grade	Evaluation: (Specific percentages will vary with instructor, approximate values are shown.) Evaluation Method
15%	Participation
40%	8 Project Presentations
25%	Quizzes
20%	Final Project

VII. Sample Assignments: (please describe at least 2 sample assignments)

- 1. Create a 10-12 panel storyboard using the story concept of "getting to class on time". Set up an Establishment-Conflict scenario, and devise a creative resolution.
- 2. Use the Beatles' "Rocky Raccoon" to create a storyboard that is inspired by the lyrics but is not a direct illustration of what is actually being said in the song.

Become proficient with the use of digital storyboard software such as Storyboard Pro. 2.

IV. Methods of Presentation:

Lecture, demonstration, discussion, hands-on projects, screenings

IVb. Arranged Hours Instructional Activities:

If this course has any "arranged hours" listed above, provide the specific instructional activities related to those arranged hours.

- Tutorials that relate to the use of digital input devices. 1.
- Tutorials that relate to the use of digital storyboard software. 2.

of course	Topic Control	- 4
5%	Visual Storytelling Overview	
10%	Shot Fundamentals (camera terminology, aspect ratios, etc.)	
20%	Composition Basics	
20%	Continuity Basics	
10%	Storyboarding for Film, Television and Visual Effects	
10%	Storyboarding for Videogames	
25%	Animatic Development	

VI. Methods of Evaluation: (Specific percentages will vary with instructor; approximate values are shown.) **Evaluation Method** % of grade

LYGINGS OF THE PROPERTY OF THE
Participation
8 Project Presentations
Quizzes
Final Project

VII. Sample Assignments: (please describe at least 2 sample assignments)

- Create a 10-12 panel storyboard using the story concept of "getting to class on time". Set up an Establishment-1. Conflict scenario, and devise a creative resolution.
- Use the Beatles' "Rocky Raccoon" to create a storyboard that is inspired by the lyrics but is not a direct 2. illustration of what is actually being said in the song.

Form 2: Course Approval and Data Sheet for: Entertainment Technology 18

Offit 2. Codico Approvation and a second and	and the second s
s this a New Course, <u>Updated/Revised</u> Course, or <u>Reinstated</u> Course?	<u>Updated/Revised</u>
this is a NEW course, anticipated semester and year of first offering:	(enter status here)
this is a <u>new</u> course, please provide a rationale for the addition of the add	nis course to the curriculum: date your complete response)
ist all A.A. majors in which this course is/will be <u>required</u> : • Animation; Digital Media	engana ang manggana ang manggana ang mga ang m
ist all A.A. majors in which this course is/will be an option:	
List all Certificates of Achievement in which this course is/will be <u>required</u> • Animation; Digital Media, Level 1	
ist all Certificates of Achievement in which this course is/will be an optio	<u>n</u> :
List all Department Certificates in which this course is/will be required :	
List all Department Certificates in which this course is/will be an option:	
	and supplied to the supplied of the supplied of the supplied to the supplied of the supplied o
Should this course be transferable to the CSU? YES	
of sold this course he transferable to the IJC?	
If you are requesting UC transferability, please list either a comparable lo campuses or a comparable California Community College course which i UC Campus: UC Course Number: UC Course Title: or California Community College: Course Number: Course Number:	s transferable to UC:
Repeatability (requires that the student's experience will be qualitatively	different with each repetition).
 Repeatability (requires that the student's experience will be qualitatively How many times should this course be <u>repeatable</u>? None 	, ,
Course Load Factor suggested by department: 1.0 Rationale for the above load factor suggestion: technology based of and frequent revision	ourse that requires significant preparation
Appropriate Minimum Qualifications for faculty teaching this course: Administrators in California Community Colleges adopted by The Board Multimedia	(Refer to: <i>Minimum Qualifications for Faculty ar</i> of Governors)

Form 3: Student / Program / Institutional Learning Outcomes

October 15, 2010 Entertainment Technology 18

Course Level Student Learning Outcomes: (Must list at least 2)

- Students will exhibit strong academic behaviors including regular attendance, timeliness, participation in class activities, and adherence to the College Honor Code.
 - As assessed by: in-class exercises, assignments
- Apply the digital storyboarding process effectively to the development of an entertainment industry project.
 As assessed by: assignments and final project

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

- Create compelling and original content for a quality entertainment project using industry-specific technology tools.
 This course emphasizes the design of original content using digital storyboarding tools.
- 2. Effectively analyze and apply design and production methods used by the entertainment industry.
 - This course utilizes digital storyboarding methods employed by the entertainment industry.

Demonstrate how this course supports/maps to at least one of the following Institutional Learning Outcomes. Please include all that apply. Through their experiences at SMC, students will

ILO #1 acquire the self-confidence and self-discipline to pursue their intellectual curiosities with integrity in both their personal and professional lives.

This course supports student self-discipline by assessing the timely completion of coursework and participation in group activities.

ILO #2 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.

This course assesses the student's ability to effectively communicate original concepts, work with industry-standard tools and resolve technical and storytelling problems.

S/ILO Committee Use Only

reviewed by: CKS 11-17-10

Form 4: Associate Degree Course Criteria and Standards, as per Title V, Section 55002

Entertainment Technology 18

Section I - Course Criteria

Items 1 through 14 below. If any criterion is not met, course credit is non-applicable toward the associate degree.

		Criterion Met	Criterion Not Met
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).	Х	
2.	This course is to be taught by an instructor with a masters or higher degree, or the equivalent, in an	Х	
3.	approved discipline. The course outline of record specifies the unit value, scope, student objectives and content in terms of a	Х	
4.	specific body of knowledge. The course outline of record specifies requested reading and writing assignments, and other	Х	
5.	assignments to be done outside of class (homework). The course outline of record specifies instructional methodology and methods of evaluation for	Х	
6.	determining whether the stated student objectives have been met. This course will be taught in accordance with a set of instructional objectives common to all students	Х	
7.	enrolled in the course (all sections). 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	х	
8.	permanent record of each student. 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,	Х	
10.	to the state of the and potinity courses	Х	
11.		Х	
12	outside of class time. Learning skills and a vocabulary deemed appropriate for a college course are required. Educational	Х	
13	materials used are judged to be college level. Repeated enrollments are not allowed, except as permitted by provisions of Division 2, Title V, Sections	×	
14	55761-55763 and 58161. 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	

Sec	ction II – Recommendations for Prerequisites			
15.	TET 2, Storytelling ET 11, Computer Skills for Digital Media ET 91, Perspective ET 92, Figures in Motion 16. Is eligibility for enrollment in a certain level of English and/or mathematics necessary for success in this course? If yes, state the English and/or math level necessary for success:	YES		
ET	11, Computer Skills for Digital Media			
ET	[•] 91, Perspective			
ET	92, Figures in Motion	and the second second second		
16.	Is eligibility for enrollment in a certain level of English ar necessary for success in this course?	nd/or mathematics	NO	
	If yes, state the English and/or math level necessary for	r success:		
	English level recommended:		l recommended:	

FORM 5: APPROVALS PAGE

Entertainment Technology 18

Department/Area Vote(s):

7	0	0	11/8/10
-	ons co	tons consulted r	sons consulted regarding this

Department Chair Approval:	Chris Fria	Date:	11/8/10
Additional Department Chair Approval: (if applicable)		Date:	

SMC Librarian:			7 -
List of suggested mate	erials has been given to librarian?	Yes	No
Library has adequate	materials to support course?	Yes	No
ibrarian Approval: (Enter Name Here)		Date:	

Approvals:

Articulation Officer:	Date:
Instructional Dean:	Date:
Curriculum Committee:	Date:
Academic Senate:	Date:
Board of Trustees:	Date:

Form 6: Prerequisite, Corequisite, & Advisory Checklist and Worksheet (as per Matriculation Regulations)

Entertainment Technology 18
Corequisite: ET 2, Storytelling
Other prerequisites, corequisites, and advisories also required for this course: (Please note that a separate sheet is required for each prerequisite, corequisite, or advisory)
ET 11; Computer Skills for Digital Media
ET 91; Perspective Drawing
ET 92; Figure in Motion

SECTION 1 - CONTENT REVIEW: Check items 1-9 below. If any criterion is not met, the prerequisite will be disallowed.

dis	allowed. Criterion	Met	Not Met
1.	Faculty with appropriate expertise have been involved in the determination of the prerequisite, corequisite or advisory.	X	
2.	The department in which the course is (will be) taught has considered course objectives in accordance with accreditation standards.	X	
3.	Selection of this prerequisite, corequisite or advisory is based on tests, the type and number of examinations, and grading criteria.	X	
4.	Selection of this prerequisite, corequisite or advisory is based on a detailed course syllabus and outline of record, related instructional materials and course format.	X	
5.	The body of knowledge and/or skills which are necessary for success before and/or concurrent with enrollment have been specified in writing.	X	
6.	The course materials presented in this prerequisite or corequisite have been reviewed and determined to teach knowledge or skills needed for success in the course requiring this prerequisite.	X	
7.	The body of knowledge and/or skills necessary for success in the course have been matched with the knowledge and skills developed by the prerequisite, corequisite or advisory.	X	
8.	The body of knowledge and/or skills taught in the prerequisite are not an instructional unit of the course requiring the prerequisite.	X	
9.	til 1 1 1 1 1 2 shows how been taken is readily available in departmental files.	X	

SECTION II - ADDITIONAL LEVEL OF SCRUTINY

In addition to the affirmation of content review listed in section I, an additional level of scrutiny is also required. The level of scrutiny depends on which type of prerequisite is involved. There are six types and each is listed below. Please identify which one is being used to justify the proposed prerequisite. The additional level of scrutiny corresponding to each type of prerequisite is identified below.

•	Type 1: Standard Prerequisite
X	Type 2: Sequential within and across disciplines
	Type 3: Course in communication or computational skills as prerequisite for course other than another skills course
	Type 4: Program prerequisites
	Type 5: Health and Safety
	Type 6: Recency and other measures of readiness (miscellaneous)
	· · · · ·

Prerequisite Worksheet

ENTRANCE SKILLS FOR ET18

A)	Analyze and discuss the history of storytelling.
B)	Compare and contrast the function of the story in different cultures.
(C)	Recognize and apply the breakdown of story formula.
D)	Identify and define the elements of an effective story.

EXIT SKILLS FOR ET 2

lom/\l	I VIVILLUI VIVILUI VIVILLUI VIVILLUI VIVILLUI VIVILLUI VIVILLUI VIVILLUI VI
1.	Analyze and discuss the history of storytelling.
2.	Compare and contrast the function of the story in different cultures.
3.	Recognize and apply the breakdown of story formula.
4.	Identify and define the elements of an effective story.

				El	NTRANCE	SKILLS	FOR ET	18			
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EXIT 8	7								ļ		
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Form 6: Prerequisite, Corequisite, & Advisory Checklist and Worksheet (as per **Matriculation Regulations)**

Entertainme	ent Technology 18
Advisory: ET 11; Computer Skills for Digital Media	
Other prerequisites, corequisites, and advisories als (Please note that a separate sheet is required for each	to required for this course:
ET 91; Perspective Drawing	
ET 92; Figure in Motion	
ET 2; Storytelling	

SECTION 1 - CONTENT REVIEW: Check items 1-9 below. If any criterion is not met, the prerequisite will be disallowed.

dis	allowed. Criterion	Met	Not Met
			IVICE
1.	Faculty with appropriate expertise have been involved in the determination of the prerequisite, corequisite or advisory.	X	
2.	The department in which the course is (will be) taught has considered course objectives in accordance with accreditation standards.	X	
3.	Selection of this prerequisite, corequisite or advisory is based on tests, the type and number of examinations, and grading criteria.	X	
4.	Selection of this prerequisite, corequisite or advisory is based on a detailed course syllabus and outline of record, related instructional materials and course format.	X	
5.	The body of knowledge and/or skills which are necessary for success before and/or concurrent with enrollment have been specified in writing.	X	
6.	The course materials presented in this prerequisite or corequisite have been reviewed and determined to teach knowledge or skills needed for success in the course requiring this prerequisite.	X	
7.	The body of knowledge and/or skills necessary for success in the course have been matched with the knowledge and skills developed by the prerequisite, corequisite or advisory.	X	<u> </u>
8.	The body of knowledge and/or skills taught in the prerequisite are not an instructional unit of the course requiring the prerequisite.	X	
9.	Written documentation that steps 1 to 8 above have been taken is readily available in departmental files.	X	

SECTION II - ADDITIONAL LEVEL OF SCRUTINY

In addition to the affirmation of content review listed in section I, an additional level of scrutiny is also required. The level of scrutiny depends on which type of prerequisite is involved. There are six types and each is listed below. Please identify which one is being used to justify the proposed prerequisite. The additional level of scrutiny corresponding to each type of prerequisite is identified below.

Type 1: Standard Prerequisite	
x Type 2: Sequential within and across disciplines	
Type 3: Course in communication or computational s	kills as prerequisite for course other than another skills course
Type 4: Program prerequisites	and the second
Type 5: Health and Safety	and the second s
Type 6: Recency and other measures of readiness (miscellaneous)

Prerequisite Worksheet

ENTRANCE SKILLS FOR ET18

	IVARIOL DIVILLO I DIVILLO I
A)	Efficiently work with the computer, create files and folders, use keyboard shortcuts, work in a cross-platform environment, and work on a network.
B)	Organize and name files correctly.
C)	Make proper backups of information on the computer.
D)	Utilize the fundamental concepts of digital images and audio.

EXIT SKILLS FOR ET 11

EXI.	T SKILLS FOR E1 11
1.	Efficiently work with the computer, create files and folders, use keyboard shortcuts, work in a cross-platform environment, and work on a network.
2.	Organize and name files correctly.
3.	Make proper backups of information on the computer.
4.	Utilize the fundamental concepts of digital images and audio.

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Form 6: Prerequisite, Corequisite, & Advisory Checklist and Worksheet (as per Matriculation Regulations)

Entertainment Technology 18	
Advisory: ET 91; Perspective Drawing	
Other prerequisites, corequisites, and advisories also required for this course: (Please note that a separate sheet is required for each prerequisite, corequisite, or advisory)	
ET 11; Computer Skills for Digital Media	
ET 92; Figure in Motion	
ET 2; Storytelling	

SECTION 1 - CONTENT REVIEW: Check items 1-9 below. If any criterion is not met, the prerequisite will be disallowed.

uisa	Allowed. Criterion	Met	Not Met
10.	Faculty with appropriate expertise have been involved in the determination of the prerequisite, corequisite or advisory.	х	
11.	The department in which the course is (will be) taught has considered course objectives in accordance with accreditation standards.	X	
12.	Selection of this prerequisite, corequisite or advisory is based on tests, the type and number of examinations, and grading criteria.	X	
13.	Selection of this prerequisite, corequisite or advisory is based on a detailed course syllabus and outline of record, related instructional materials and course format.	Х	
14.	The body of knowledge and/or skills which are necessary for success before and/or concurrent with enrollment have been specified in writing.	X	
15.	The course materials presented in this prerequisite or corequisite have been reviewed and determined to teach knowledge or skills needed for success in the course requiring this prerequisite.	X	
16.	The body of knowledge and/or skills necessary for success in the course have been matched with the knowledge and skills developed by the prerequisite, corequisite or advisory.	X	
17.	The body of knowledge and/or skills taught in the prerequisite are not an instructional unit of the course requiring the prerequisite.	X	nhati a
18.	Written documentation that steps 1 to 8 above have been taken is readily available in departmental files.	X	

SECTION II - ADDITIONAL LEVEL OF SCRUTINY

In addition to the affirmation of content review listed in section I, an additional level of scrutiny is also required. The level of scrutiny depends on which type of prerequisite is involved. There are six types and each is listed below. Please identify which one is being used to justify the proposed prerequisite. The additional level of scrutiny corresponding to each type of prerequisite is identified below.

	Type 1: Standard Prerequisite	
Х	Type 2: Sequential within and across disciplines	
	Type 3: Course in communication or computational skills as prerequisite for course other than another skills cours	е
	Type 4: Program prerequisites	
	Type 5: Health and Safety	
	Type 6: Recency and other measures of readiness (miscellaneous)	
	**	

Prerequisite Worksheet

ENTRANCE SKILLS FOR ET18

EN	IRANCE SKILLS FOR ETTO
(A)	Employ standard drafting methods to draw one, two, and three-point perspective.
B)	Render objects in three dimensions from any viewing angle.
(C)	Create accurate shading and cast shadows using mechanical and free-hand methods.
D)	Analyze and depict human and animal forms as a collection of connected basic geometric shapes.

EXIT SKILLS FOR ET 91

		1 SKILLS FOR LT 91
	1.	Employ standard drafting methods to draw one, two, and three-point perspective.
	2.	Render objects in three dimensions from any viewing angle.
<u></u>	3.	Create accurate shading and cast shadows using mechanical and free-hand methods.
-	4.	Analyze and depict human and animal forms as a collection of connected basic geometric shapes.
- 1		

				El	NTRANCE	SKILLS	FOR ET	18			
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Form 6: Prerequisite, Corequisite, & Advisory Checklist and Worksheet (as per Matriculation Regulations)

Entertainment Technology 18
dvisory: ET 92; Figure in Motion
ther prerequisites, corequisites, and advisories also required for this course: (Please note that a separate sheet is required for each prerequisite, corequisite, or advisory)
T 91; Perspective Drawing
T 11; Computer Skills for Digital Media
T 2; Storytelling

SECTION 1 - CONTENT REVIEW: Check items 1-9 below. If any criterion is not met, the prerequisite will be disallowed.

a.o.	Criterion	Met	Not Met
19.	Faculty with appropriate expertise have been involved in the determination of the prerequisite, corequisite or advisory.	Х	
20.	The department in which the course is (will be) taught has considered course objectives in accordance with accreditation standards.	x	
21.	Selection of this prerequisite, corequisite or advisory is based on tests, the type and number of examinations, and grading criteria.	X	
22.	Selection of this prerequisite, corequisite or advisory is based on a detailed course syllabus and outline of record, related instructional materials and course format.	X	
23.	The body of knowledge and/or skills which are necessary for success before and/or concurrent with enrollment have been specified in writing.	X	
24.	The course materials presented in this prerequisite or corequisite have been reviewed and determined to teach knowledge or skills needed for success in the course requiring this prerequisite.	X	
25.	The body of knowledge and/or skills necessary for success in the course have been matched with the knowledge and skills developed by the prerequisite, corequisite or advisory.	X	
26.	The body of knowledge and/or skills taught in the prerequisite are not an instructional unit of the course requiring the prerequisite.	X	
27.	Written documentation that steps 1 to 8 above have been taken is readily available in departmental files.	X	

SECTION II - ADDITIONAL LEVEL OF SCRUTINY

In addition to the affirmation of content review listed in section I, an additional level of scrutiny is also required. The level of scrutiny depends on which type of prerequisite is involved. There are six types and each is listed below. Please identify which one is being used to justify the proposed prerequisite. The additional level of scrutiny corresponding to each type of prerequisite is identified below.

Type 1: Standard Prerequisite
Type 2: Sequential within and across disciplines
Type 3: Course in communication or computational skills as prerequisite for course other than another skills course
Type 4: Program prerequisites
Type 5: Health and Safety
Type 6: Recency and other measures of readiness (miscellaneous)

Prerequisite Worksheet

ENTRANCE SKILLS FOR ET18

(A)	Create realistic drawings of the human figure in motion.
B)	Demonstrate an understanding of animal or human joints and pivot points.
C)	Apply an understanding of muscular dynamics to figure drawing.
D)	Break down any movement in terms of arcs and weight.

EXIT SKILLS FOR ET 92

5-m-/ 1.1	I VIVIEU I VIVII V
1.	Create realistic drawings of the human figure in motion.
2.	Demonstrate an understanding of animal or human joints and pivot points.
3.	Apply an understanding of muscular dynamics to figure drawing.
4.	Break down any movement in terms of arcs and weight.
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		***************************************		El	NTRANCE	SKILLS	FOR ET	18			
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Form 1: Course Outline of Record Santa Monica College

Course Outline For Entertainment Technology 19A

Course Title:	Beginning 2D Animation	Units: 3
Total Instruction	al Hours: (usually 18 per unit) 54	4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Hours per week	(full semester equivalent) in Lecture: 3	In-Class Lab: 1 Arranged: 1
Date Submitted Date Updated:	July 1997 (February 2005) October 15, 2010	
		IGETC Area: (office use only) CSU GE Area: (office use only) 2 nd CSU GE Area: (office use only) SMC GE Area: (office use only) Transfer: CSU
Transfer (if app	licable): please underline and bold th	e anticipated transferability of this course:
	Transferable to UC	<u>Transferable to CSU</u>
Prerequisite(s) Skills Advisory	14. 4	
I. Catalog De	scription:	

This introductory course teaches the basic principles of digital animation. Through lectures and projects, students will learn animation fundamentals such as timing, staging, squash and stretch, anticipation, follow through, overlapping action, arcs, and exaggeration. The material covered in this course serves as a foundation for advanced courses in games, web, 2D and 3D animation, and visual effects.

- II. Examples of Appropriate Text or Other Required Reading: (include all publication dates; for transferable courses at least one text should have been published within the last five years)
 - 1. Cartoon Animation (The Collector's Series); Preston Blair; Walter Foster, 1994
 - 2. Animation from Pencils to Pixels: Classical Techniques for the Digital Animator; Tony White; Focal Press, 2006

III. Course Objectives:

Upon completion of the course students will be able to:

- 1. Apply the basic principles of animation to individual projects.
- 2. Understand the natural rules of gravity and physics as they apply to animation.
- 3. Analyze and exaggerate realistic movement.
- Demonstrate a working knowledge of the digital animation production process.

IIIb. Arranged Hours Objectives:

If this course has any "arranged hours" listed above, provide the specific objectives related to those arranged hours.

Upon completion of the arranged hours students will be able to:

- 1. Become proficient with the use of digital input devices such as a Wacom tablet or Cintiq monitor.
- Become proficient with the use of digital animation software such as DigiCel Flipbook.

IV. Methods of Presentation:

Lecture, demonstration, discussion, hands-on projects, screenings

IVb. Arranged Hours Instructional Activities:

If this course has any "arranged hours" listed above, provide the specific instructional activities related to those arranged hours.

- 1. Tutorials that relate to the use of digital input devices.
- Tutorials that relate to the use of digital animation software.

V. Course Content:

CIL
Topic
Overview of animation development
Basics of posing and timing
Analyzing movement and natural forces
Applying squash and stretch
Using anticipation
Creating follow-through and overlapping action
Viewing and analyzing specific animation samples

VI. Methods of Evaluation: (Specific percentages will vary with instructor; approximate values are shown.) % of grade Evaluation Method

and the second second second	
10%	Quizzes
70%	7 Assignments
20%	Final Project

VII. Sample Assignments: (please describe at least 2 sample assignments)

- Create a two second digital animation of a bouncing ball utilizing the principles of stretch and squash, arcs, and slow-in/slow-out.
- Use a sample of beat-driven music to animate a motion cycle that hits the beat on the extreme poses. The
 cycle should utilize one of the 12 principles of animation.

Form 2: Course Approval and Data Sheet for: Entertainment Technology 19A

Is this a New Course, Updated/Revised Course, or Reinstated Course?	<u>Updated/Revised</u>
If this is a NEW course, anticipated semester and year of first offering:	
If this is a new course, please provide a rationale for the addition of the course (enter rationale here: table will automatically expand to accomi	f this course to the curriculum: nodate your complete response)
List all A.A. majors in which this course is/will be required:	
List all A.A. majors in which this course is/will be an option: • Animation	
List all Certificates of Achievement in which this course is/will be requir	<u>ed</u> :
List all Certificates of Achievement in which this course is/will be an op	ilion:
List all Department Certificates in which this course is/will be required : • 2D Animation	
List all Department Certificates in which this course is/will be an option	
Should this course be transferable to the CSU? YES	and the second of the second o
Should this course be transferable to the UC? NO	
If you are requesting UC transferability, please list either a comparable campuses or a comparable California Community College course whice UC Campus: UC Course Number: UC Course Title: or California Community College: Course Number: Course Title:	lower division course offered at one of the UC h is transferable to UC:
Repeatability (requires that the student's experience will be qualitative. How many times should this course be repeatable? None	ely different with each repetition).
Course Load Factor suggested by department: 1 Rationale for the above load factor suggestion: technology based and frequent revision	l course that requires significant preparation
Appropriate Minimum Qualifications for faculty teaching this course Administrators in California Community Colleges adopted by The Boa	e: (Refer to: <i>Minimum Qualifications for Faculty and</i> rd of Governors)

Form 3: Student / Program / Institutional Learning Outcomes

October 15, 2010 ET 19A

Course Level Student Learning Outcomes: (Must list at least 2)

 Students will exhibit strong academic behaviors including regular attendance, timeliness, participation in class activities, and adherence to the College Honor Code.

As assessed by: quizzes, assignments

 Students will demonstrate mastery of the fundamental principles of animation by creating effective character or object animations.

As assessed by: assignments, final project

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

1. Create compelling and original content for a quality entertainment project using industry-specific technology tools.

This course emphasizes the creation of original content using animation industry tools.

Effectively analyze and apply design and production methods used by the entertainment industry.

This course utilizes production methods employed by the animation industry.

Demonstrate how this course supports/maps to <u>at least one</u> of the following Institutional Learning Outcomes. Please include all that apply. Through their experiences at SMC, students will

ILO #1 acquire the self-confidence and self-discipline to pursue their intellectual curiosities with integrity in both their personal and professional lives.

This course supports student self-discipline by assessing the timely completion of coursework and participation in class activities.

ILO #2 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.

This course assesses the student's ability to effectively communicate animation concepts, work with industry-standard tools and resolve technical problems.

S/ILO Committee Use Only

reviewed by: CKS 11-17-10

Form 4: Associate Degree Course Criteria and Standards, as per Title V, Section 55002

Entertainment Technology 19A

Section I - Course Criteria

Items 1 through 14 below. If any criterion is not met, course credit is non-applicable toward the associate degree.

		Criterion Met	Criterion Not Met
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).	Х	
2.	This course is to be taught by an instructor with a masters or higher degree, or the equivalent, in an	Х	
3.	approved discipline. The course outline of record specifies the unit value, scope, student objectives and content in terms of a	Х	
4.	specific body of knowledge. The course outline of record specifies requested reading and writing assignments, and other assignments to be done outside of class (homework).	Х	
5.	The course outline of record specifies instructional methodology and methods of evaluation for	Х	
6.	This course will be taught in accordance with a set of instructional objectives common to all students	X	
7.	enrolled in the course (all sections). 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.	Х	
8.	This formal grade will be based on student ability to demonstrate proficiency in the subject matter by	x	
9.	The number of units of credit assigned to the course is based upon the number of lecture, laboratory,	×	
10	A minimum of three hours of work per week (including class time) is required for each unit of credit,	x	
11	The state of the s	x	
12	Learning skills and a vocabulary deemed appropriate for a college course are required. Educational	×	
13	materials used are judged to be college level. Repeated enrollments are not allowed, except as permitted by provisions of Division 2, Title V, Sections	x	
14	55761-55763 and 58161.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 prerequisite	s for the course required? YES
If yes, state the recommended prerequisites:	ET 11, Computer Skills for Digital Media ET 91, Perspective Drawing ET 92, Figure in Motion
Is eligibility for enrollment in a certain level of Enecessary for success in this course?	nglish and/or mathematics NO
If yes, state the English and/or math level nece	ssary for success:
English level recommended:	Math level recommended:

FORM 5: APPROVALS PAGE

Entertainment Technology 19A

Department/Area Vote(s):

	Yes	No	Not voting	Date of vote
Enter Department or Area	7	0	0	11/8/10
Additional Department or Area (if applicable)				

Department Chair Approval:	Chris Fria	Date:	11/8/10
Additional Department Chair		Date:	w
Approval: (if applicable)		Duto.	

SMC Librarian:			
List of suggested mate	erials has been given to librarian?	Yes	No
Library has adequate	materials to support course?	Yes	No
Librarian Approval:	(Enter Name Here)	Date:	

Approvals:

Articulation Officer:	Date:
Instructional Dean:	Date:
Curriculum Committee:	Date:
Academic Senate:	Date:
Board of Trustees:	Date:

Form 6: Prerequisite, Corequisite, & Advisory Checklist and Worksheet (as per Matriculation Regulations)

	Entertainment Technology 19A	
Advisory: ET 11; Computer Skil	ls for Digital Media	
· · · · · · · · · · · · · · · · · · ·	and advisories also required for this course: eet is required for each prerequisite, corequisite, or advisory)	
ET 91; Perspective Drawing		
ET 92; Figure in Motion		***************************************

SECTION 1 - CONTENT REVIEW: Check items 1-9 below. If any criterion is not met, the prerequisite will be disallowed.

disa	allowed.	Met	Not
	Criterion		Met
1.	Faculty with appropriate expertise have been involved in the determination of the prerequisite, corequisite or advisory.	X	
2.	The department in which the course is (will be) taught has considered course objectives in accordance with accreditation standards.	X	
3.	Selection of this prerequisite, corequisite or advisory is based on tests, the type and number of examinations, and grading criteria.	X	
4.	Selection of this prerequisite, corequisite or advisory is based on a detailed course syllabus and outline of record, related instructional materials and course format.	X	
5.	The body of knowledge and/or skills which are necessary for success before and/or concurrent with enrollment have been specified in writing.	X	
6.	The course materials presented in this prerequisite or corequisite have been reviewed and determined to teach knowledge or skills needed for success in the course requiring this prerequisite.	X	
7.	The body of knowledge and/or skills necessary for success in the course have been matched with the knowledge and skills developed by the prerequisite, corequisite or advisory.	X	
8.	The body of knowledge and/or skills taught in the prerequisite are not an instructional unit of the course requiring the prerequisite.	X	
9.	Written documentation that steps 1 to 8 above have been taken is readily available in departmental files.	X	

SECTION II - ADDITIONAL LEVEL OF SCRUTINY

In addition to the affirmation of content review listed in section I, an additional level of scrutiny is also required. The level of scrutiny depends on which type of prerequisite is involved. There are six types and each is listed below. Please identify which one is being used to justify the proposed prerequisite. The additional level of scrutiny corresponding to each type of prerequisite is identified below.

30	
	Type 1: Standard Prerequisite
×	Type 2: Sequential within and across disciplines
	Type 3: Course in communication or computational skills as prerequisite for course other than another skills course
	Type 4: Program prerequisites
	Type 5: Health and Safety
	Type 6: Recency and other measures of readiness (miscellaneous)

Prerequisite Worksheet

ENTRANCE SKILLS FOR ET19A

	RANCE SKILLS FOR ETION
A)	Efficiently work with the computer, create files and folders, use keyboard shortcuts, work in a cross-platform environment, and work on a network.
B)	Organize and name files correctly.
C)	Make proper backups of information on the computer.
D)	Utilize the fundamental concepts of digital images and audio.

EXIT SKILLS FOR ET 11

EXI	1 SKILLS FOR E1 11
1.	Efficiently work with the computer, create files and folders, use keyboard shortcuts, work in a cross-platform environment, and work on a network.
2.	Organize and name files correctly.
3.	Make proper backups of information on the computer.
4.	Utilize the fundamental concepts of digital images and audio.

				ΕN	ITRANCE	SKILLS	FOR ET1	9A			
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Form 6: Prerequisite, Corequisite, & Advisory Checklist and Worksheet (as per Matriculation Regulations)

and the second s	Entertainment Technology 19A	
Advisory: ET 91; Persp	ctive Drawing	
(Please note that a se	uisites, and advisories also required for this course: arate sheet is required for each prerequisite, corequisite, or advisory)	_
ET 11; Computer Skills for	Digital Media	-
ET 92; Figure in Motion		

SECTION 1 - CONTENT REVIEW: Check items 1-9 below. If any criterion is not met, the prerequisite will be disallowed.

uis	Allowed. Criterion	Met	Not Met
1.	Faculty with appropriate expertise have been involved in the determination of the prerequisite, corequisite or advisory.	x	
2.	The department in which the course is (will be) taught has considered course objectives in accordance with accreditation standards.	X	
3.	Selection of this prerequisite, corequisite or advisory is based on tests, the type and number of examinations, and grading criteria.	X	
4.	Selection of this prerequisite, corequisite or advisory is based on a detailed course syllabus and outline of record, related instructional materials and course format.	X	·
5.	The body of knowledge and/or skills which are necessary for success before and/or concurrent with enrollment have been specified in writing.	X	
6.	The course materials presented in this prerequisite or corequisite have been reviewed and determined to teach knowledge or skills needed for success in the course requiring this prerequisite.	X	
7.	The body of knowledge and/or skills necessary for success in the course have been matched with the knowledge and skills developed by the prerequisite, corequisite or advisory.	X	
8.	The body of knowledge and/or skills taught in the prerequisite are not an instructional unit of the course requiring the prerequisite.	X	
9.	Written documentation that steps 1 to 8 above have been taken is readily available in departmental files.	X	

SECTION II - ADDITIONAL LEVEL OF SCRUTINY

In addition to the affirmation of content review listed in section I, an additional level of scrutiny is also required. The level of scrutiny depends on which type of prerequisite is involved. There are six types and each is listed below. Please identify which one is being used to justify the proposed prerequisite. The additional level of scrutiny corresponding to each type of prerequisite is identified below.

	the many policy in the second of the second
15 10111	Type 1: Standard Prerequisite
X	Type 2: Sequential within and across disciplines
	Type 3: Course in communication or computational skills as prerequisite for course other than another skills course
	Type 4: Program prerequisites
	Type 5: Health and Safety
*********	Type 6: Recency and other measures of readiness (miscellaneous)

Prerequisite Worksheet

ENTRANCE SKILLS FOR ET19A

A)	Employ standard drafting methods to draw one, two, and three-point perspective.
B)	Render objects in three dimensions from any viewing angle.
C)	Create accurate shading and cast shadows using mechanical and free-hand methods.
D)	Analyze and depict human and animal forms as a collection of connected basic geometric shapes.

EXIT SKILLS FOR ET 91

1.	Employ standard drafting methods to draw one, two, and three-point perspective.
2.	Render objects in three dimensions from any viewing angle.
3.	Create accurate shading and cast shadows using mechanical and free-hand methods.
4.	Analyze and depict human and animal forms as a collection of connected basic geometric shapes.

1				EN	TRANCE	SKILLS	FOR ET 1	19A			
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l m	8								-		
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Form 6: Prerequisite, Corequisite, & Advisory Checklist and Worksheet (as per Matriculation Regulations)

and the second s	Entertainment Technology 19A	
Advisory: ET 92; Figur	e in Motion	
Other prerequisites, core	equisites, and advisories also required for this course: separate sheet is required for each prerequisite, corequisite, or advisory)	
ET 91; Perspective Drav		_
ET 11; Computer Skills		_

SECTION 1 - CONTENT REVIEW: Check items 1-9 below. If any criterion is not met, the prerequisite will be disallowed.

<u> </u>	allowed. Criterion	Met	Not Met
1.	Faculty with appropriate expertise have been involved in the determination of the prerequisite, corequisite or advisory.	х	
2.	The department in which the course is (will be) taught has considered course objectives in accordance with accreditation standards.	х	·
3.	Selection of this prerequisite, corequisite or advisory is based on tests, the type and number of examinations, and grading criteria.	X	
4.	Selection of this prerequisite, corequisite or advisory is based on a detailed course syllabus and outline of record, related instructional materials and course format.	X	
5.	The body of knowledge and/or skills which are necessary for success before and/or concurrent with enrollment have been specified in writing.	X	
6.	The course materials presented in this prerequisite or corequisite have been reviewed and determined to teach knowledge or skills needed for success in the course requiring this prerequisite.	X	
7.	The body of knowledge and/or skills necessary for success in the course have been matched with the knowledge and skills developed by the prerequisite, corequisite or advisory.	X	
8.	The body of knowledge and/or skills taught in the prerequisite are not an instructional unit of the course requiring the prerequisite.	X	
9.	Written documentation that steps 1 to 8 above have been taken is readily available in departmental files.	X	

SECTION II - ADDITIONAL LEVEL OF SCRUTINY

In addition to the affirmation of content review listed in section I, an additional level of scrutiny is also required. The level of scrutiny depends on which type of prerequisite is involved. There are six types and each is listed below. Please identify which one is being used to justify the proposed prerequisite. The additional level of scrutiny corresponding to each type of prerequisite is identified below.

	Type 1: Standard Prerequisite
X	Type 2: Sequential within and across disciplines
	Type 3: Course in communication or computational skills as prerequisite for course other than another skills course
	Type 4: Program prerequisites
	Type 5: Health and Safety
	Type 6: Recency and other measures of readiness (miscellaneous)

Prerequisite Worksheet

ENTRANCE SKILLS FOR ET19A

(A)	Create realistic drawings of the human figure in motion.
B)	Demonstrate an understanding of animal or human joints and pivot points.
C)	Apply an understanding of muscular dynamics to figure drawing.
D)	Break down any movement in terms of arcs and weight.

EXIT SKILLS FOR ET 92

/\#	I OIGILO! OICL! V
1.	Create realistic drawings of the human figure in motion.
2.	Demonstrate an understanding of animal or human joints and pivot points.
3.	Apply an understanding of muscular dynamics to figure drawing.

				EN	TRANCE	SKILLS	FOR ET 1	9A			
		Α	В	С	D	E	F	G	Н	l	J
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r	2		X								
FOR	3			Х							
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SKIL	6										
EXIT	7										
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Form 1: Course Outline of Record Santa Monica College

Course Outline For Entertainment Technology 19B

Course Title:	Advanced 2D Animation		Units: 3
Total Instructions	al Hours: (usually 18 per unit)) 54	
Hours per week	(full semester equivalent) in I	Lecture: 3	In-Class Lab: 1 Arranged: 1
Date Submitted Date Updated:	: March 1999 (February October 15, 2010	2005)	
Transfer (if app	ilicable): please underline a	and bold the antic	IGETC Area: (office use only) CSU GE Area: (office use only) 2 nd CSU GE Area: (office use only) SMC GE Area: (office use only) Transfer: CSU cipated transferability of this course:
	Transferable to UC	:	Transferable to CSU
Prerequisite(s) Skills Advisory			
and projects weight, antic	ed course focuses on the too	nderstanding and a overlapping action	sed to create digital character animation. Through lecture application of the 12 principles of animation such as timin n, exaggeration and staging. Students will be introduced
at least one	text should have been publis	shed within the las	ing: (include all publication dates; for transferable course t five years) ues for the Digital Animator; Tony White; Focal Press, 200
2. The A	Animator's Survival Kit; Richa	rd Williams; Fabei	r & Faber, 2001
and the second s	jectives: letion of the course students /ze character movement and		

IIIb. Arranged Hours Objectives:

Animate characters that exhibit emotions.

2.

3.

4.

If this course has any "arranged hours" listed above, provide the specific objectives related to those arranged hours.

Upon completion of the arranged hours students will be able to:

Apply the digital principles of timing, posing and staging to character animation.

Demonstrate an understanding of the basic principles of character acting and lip-synch.

- 1. Become proficient with the use of digital input devices such as a Wacom tablet or Cintiq monitor.
- 2. Become proficient with the use of digital animation software such as DigiCel Flipbook

IV. Methods of Presentation:

Lecture, demonstration, discussion, hands-on projects, screenings

IVb. Arranged Hours Instructional Activities:

If this course has any "arranged hours" listed above, provide the specific instructional activities related to those arranged hours.

- 1. Tutorials that relate to the use of digital input devices.
- 2. Tutorials that relate to the use of digital animation software.

V. Course Content:

%

	The state of the s	A THE DESIGNATION OF SHIPE OF THE	A 11 11 11 1 11 11 11 11 11 11 11 11 11			
of course	Topic					
10%	Review basic principles of animation					
10%	Analyzing character movement					
10%	Squash and stretch				m	
10%	Exaggeration					
10%	Line of action and arcs					
15%	Principles of acting			***		
15%	Staging and silhouettes				page to the W	
10%	Posing and emotion					
10%	Facial animation and lip-synch		•			

VI. Methods of Evaluation: (Specific percentages will vary with instructor; approximate values are shown.) % of grade Evaluation Method

78 Of Grade	Litara
10%	Quizzes
70%	7 Assignments
20%	Final Project

VII. Sample Assignments: (please describe at least 2 sample assignments)

- 1. Create a short animation that communicates a character's thought process when reading and reacting to a letter.
- 2. Animate a character struggling to lift and hold a very heavy rock to demonstrate the concept of weight.

Form 2: Course Approval and Data Sheet for: Entertainment Technology 19B

Is this a New Course, Updated/Revised Course, or Reinstated Course?	<u>Updated/Revised</u>
If this is a NEW course, anticipated semester and year of first offering:	(enter status here)
H HIIS IS A NEW COURSE, amorpaide controller and year of the course,	A CHARGE THE REPORT THE SECOND CONTRACTOR CO
If this is a <u>new</u> course, please provide a rationale for the addition of th	nis course to the curriculum:
(enter rationale here: table will automatically expand to accommod	
List all A.A. majors in which this course is/will be required :	
List all A.A. majors in which this course is/will be an option:	
• Animation	
List all Certificates of Achievement in which this course is/will be required:	
	· · · · · · · · · · · · · · · · · · ·
List all Certificates of Achievement in which this course is/will be an option	<u>ı</u> :
 Animation 	
List all Department Certificates in which this course is/will be <u>required</u> :	
2D Animation	and the second s
List all Department Certificates in which this course is/will be an option:	
A MANAGEMENT CONTROL OF THE CONTROL	
Should this course be transferable to the CSU? YES	No. of the second secon
The second secon	<u> </u>
Should this course be transferable to the UC? NO If you are requesting UC transferability, please list either a comparable low	ver division course offered at one of the UC
campuses or a comparable California Community College course which is	transferable to UC:
UC Campus:UC Course Number:	
UC Course Title:	
or California Community College: 	
Course Number:Course Title:	
• Course rule.	The second secon
Repeatability (requires that the student's experience will be qualitatively of	different with each repetition).
How many times should this course be repeatable? None	
	. The second of the second
Course Load Factor suggested by department: 1 Rationale for the above load factor suggestion: technology based co and frequent revision	ourse that requires significant preparation
Appropriate Minimum Qualifications for faculty teaching this course: (F	Refer to: Minimum Qualifications for Faculty and
Administrators in California Community Colleges adopted by The Board o	

Form 3: Student / Program / Institutional Learning Outcomes

October 15, 2010 Entertainment Technology 19B

Course Level Student Learning Outcomes: (Must list at least 2)

1. Students will exhibit strong academic behaviors including regular attendance, timeliness, participation in class activities, and adherence to the College Honor Code.

As assessed by: quizzes and assignments

 Students will demonstrate mastery of the principles of animation and character acting by creating effective character animations for portfolio development.

As assessed by: assignments, final project

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

- Create compelling and original content for a quality entertainment project using industry-specific technology tools.
 This course emphasizes the creation of original content using animation industry tools.
- Effectively analyze and apply design and production methods used by the entertainment industry.
 This course utilizes production methods employed by the animation industry.

Demonstrate how this course supports/maps to <u>at least one</u> of the following Institutional Learning Outcomes. Please include all that apply. Through their experiences at SMC, students will

ILO #1 acquire the self-confidence and self-discipline to pursue their intellectual curiosities with integrity in both their personal and professional lives.

This course supports student self-discipline by assessing the timely completion of coursework and participation in class activities

ILO #2 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.

This course assesses the student's ability to effectively communicate animation concepts, work with industry-standard tools and resolve technical problems.

S/ILO Committee Use Only

reviewed by: CKS 11-17-10

Form 4: Associate Degree Course Criteria and Standards, as per Title V, Section 55002

Entertainment Technology 19B

Section I - Course Criteria

Items 1 through 14 below. If any criterion is not met, course credit is non-applicable toward the associate degree.

		Criterion Met	Criterion Not Met
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).	Х	
2.	This course is to be taught by an instructor with a masters or higher degree, or the equivalent, in an approved discipline.	Х	
3.	The course outline of record specifies the unit value, scope, student objectives and content in terms of a specific body of knowledge.	Х	
4.	The course outline of record specifies requested reading and writing assignments, and other assignments to be done outside of class (homework).	Х	
5.	The course outline of record specifies instructional methodology and methods of evaluation for determining whether the stated student objectives have been met.	Х	
6.	This course will be taught in accordance with a set of instructional objectives common to all students enrolled in the course (all sections).	Х	
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.	х	
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.	×	
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.	×	
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.	the state of the s	×	
12.	Learning skills and a vocabulary deemed appropriate for a college course are required. Educational	×	
13.	Repeated enrollments are not allowed, except as permitted by provisions of Division 2, Title V, Sections 55761-55763 and 58161.	×	
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.	×	

Section II – Recommendations for Prerequisites

15. Are entrance skills and co	onsequent prerequisites for the c	ourse required?	YES	
If yes, state the recomme	nded prerequisites: ET 19A	, Beginning 2D An	imation	and the second s
16. Is eligibility for enrollment necessary for success in	t in a certain level of English and, this course?	or mathematics	NO	, and the open the open to the open the
If yes, state the English a	ind/or math level necessary for s	uccess:	and the second s	
English level recommend	led:	Math level re	commended:	

FORM 5: APPROVALS PAGE

(Enter Discipline and Course # here)

Department/Area Vote(s):

	Yes	No	Not voting	Date of vote
Enter Department or Area	7	0	0	11/8/10
Additional Department or Area (if applicable)				

		.,	
Department Chair Approval:	Chris Fria	Date:	11/8/10
Additional Department Chair			
Approval: (if applicable)		Date:	

SMC Librarian:			
List of suggested mate	erials has been given to librarian?	Yes	No
Library has adequate	materials to support course?	Yes	No
Librarian Approval:	(Enter Name Here)	Date:	

Approvals:

Articulation Officer:	Date:
Instructional Dean:	Date:
Curriculum Committee:	Date:
Academic Senate:	Date:
Board of Trustees:	Date:

Form 6: Prerequisite, Corequisite, & Advisory Checklist and Worksheet (as per Matriculation Regulations)

and the second second	Entertainment Technology 19B	
Prerequisite: ET 19A, Be	eginning 2D Animation	
Other prerequisites, coreq	uisites, and advisories also required for this course: parate sheet is required for each prerequisite, corequisite, or advisory)	
(If applicable, enter Discip	line and Course # here) ; (Enter Course Title here)	
(If applicable, enter Discip	line and Course # here) ; (Enter Course Title here)	

SECTION 1 - CONTENT REVIEW: Check items 1-9 below. If any criterion is not met, the prerequisite will be disallowed

	Criterion	Met	Not Met
1.	Faculty with appropriate expertise have been involved in the determination of the prerequisite, corequisite or advisory.	x	
2.	The department in which the course is (will be) taught has considered course objectives in accordance with accreditation standards.	x	
3.	Selection of this prerequisite, corequisite or advisory is based on tests, the type and number of examinations, and grading criteria.	Х	
4.	Selection of this prerequisite, corequisite or advisory is based on a detailed course syllabus and outline of record, related instructional materials and course format.	Х	
5.	The body of knowledge and/or skills which are necessary for success before and/or concurrent with enrollment have been specified in writing.	X	
6.	The course materials presented in this prerequisite or corequisite have been reviewed and determined to teach knowledge or skills needed for success in the course requiring this prerequisite.	X	
7.	The body of knowledge and/or skills necessary for success in the course have been matched with the knowledge and skills developed by the prerequisite, corequisite or advisory.	X	
8.	The body of knowledge and/or skills taught in the prerequisite are not an instructional unit of the course requiring the prerequisite.	Х	
9.	Written documentation that steps 1 to 8 above have been taken is readily available in departmental files.	Х	

SECTION II - ADDITIONAL LEVEL OF SCRUTINY

In addition to the affirmation of content review listed in section I, an additional level of scrutiny is also required. The level of scrutiny depends on which type of prerequisite is involved. There are six types and each is listed below. Please identify which one is being used to justify the proposed prerequisite. The additional level of scrutiny corresponding to each type of prerequisite is identified below.

	Type 1: Standard Prerequisite
×	Type 2: Sequential within and across disciplines
	Type 3: Course in communication or computational skills as prerequisite for course other than another skills course
*****	Type 4: Program prerequisites
	Type 5: Health and Safety
	Type 6: Recency and other measures of readiness (miscellaneous)

Prerequisite Worksheet

ENTRANCE SKILLS FOR ET19B

A)	Apply the basic principles of animation to individual projects.
В)	Understand the natural rules of gravity and physics as they apply to animation.
C)	Analyze and exaggerate realistic movement.
D)	Demonstrate a working knowledge of the digital animation production process.

EXIT SKILLS FOR ET 19A

1.	Apply the basic principles of animation to individual projects.					
2.	Understand the natural rules of gravity and physics as they apply to animation.					
3.	Analyze and exaggerate realistic movement.					
4.	Demonstrate a working knowledge of the digital animation production process.					

	ENTRANCE SKILLS FOR ET 19B										
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EXIT	7										
l iii	8										
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	10										

Form 1: Course Outline of Record Santa Monica College

Course Outline For ET 24, 3D Fundamentals

Course Title: 3	D Fundamentals			Units: 4
According to the second court of a second control of the second	Hours: (usually 18 per unit) 72	The second secon	A TOTAL CONTRACTOR OF SECURIOR OF SECURIOR CONTRACTOR OF SECURIOR	The state of the s
	ıll semester equivalent) in Lecture	: 3	In-Class Lab: 1	Arranged: 1
Date Submitted: Date Updated:	May 1997 (November 2006) October 15, 2010			
			IGETC Area: CSU GE Area: 2 nd CSU GE Area: SMC GE Area: Transfer:	
Transfer (if applic	cable): please underline and bo	ld the anticipa		
, ,,, , , , , x , , x , , , , , , , , , , , , , , , , , ,	Transferable to UC	•		ferable to CSU
Prerequisite(s): Skills Advisory:	None ET 11			
i. Catalog Desc	ription:			and a supplied of the supplied
fundamental o weekly exerci	concepts of 3D digital animation as ses, students will apply the skills t	s well as an u	inderstanding of the sof	ring. This course emphasizes the fitware. In addition to completing ect.
fundamental of weekly exercised This course use the second	concepts of 3D digital animation as ses, students will apply the skills t ses Autodesk Maya. Appropriate Text or Other Requ	s well as an under the control of th	create an individual proj	ect.
fundamental of weekly exercised This course until Examples of at least one to	concepts of 3D digital animation as ses, students will apply the skills t ses Autodesk Maya.	s well as an u hey learn to c lired Readin ithin the last f	create an individual proj g: (include all publicati ive years)	ect.
fundamental of weekly exercise. This course use the second of the secon	concepts of 3D digital animation as ses, students will apply the skills t ses Autodesk Maya. Appropriate Text or Other Requents should have been published w	s well as an u hey learn to c lired Readin ithin the last f hani; Sybex;	create an individual proj g: (include all publicati ive years) May 3, 2010	ect. on dates; for transferable cours
fundamental of weekly exercise. This course use. II. Examples of at least one to 1. Introduct 2. The Art. III. Course Object Upon comples.	concepts of 3D digital animation as ses, students will apply the skills to ses Autodesk Maya. Appropriate Text or Other Request should have been published woring Maya 2011; Dariush Derakhs of 3D Computer Animation and Extinct. Continuous Contraction of the course students will be	well as an under learn to continue the learn to continue the last for	g: (include all publicati ive years) May 3, 2010 Kerlow; Wiley; April 13,	ect. on dates; for transferable cours
fundamental of weekly exercise. This course use. II. Examples of at least one to at least one	concepts of 3D digital animation as ses, students will apply the skills to ses Autodesk Maya. Appropriate Text or Other Request should have been published woring Maya 2011; Dariush Derakhs of 3D Computer Animation and Extinct to of the course students will be estrate an understanding of 3D construction of the course students will be estrate an understanding of 3D construction.	well as an under learn to continue the learn to continue the last for	g: (include all publicati ive years) May 3, 2010 Kerlow; Wiley; April 13,	ect. on dates; for transferable cours
fundamental of weekly exercise. This course use. I. Examples of at least one to at least one to a least one to	concepts of 3D digital animation as ses, students will apply the skills to ses Autodesk Maya. Appropriate Text or Other Request should have been published woring Maya 2011; Dariush Derakhstof 3D Computer Animation and Extrems: tion of the course students will be a strate an understanding of 3D contained rig a simple character.	s well as an under learn to continue the learn to continue the last for the last fo	g: (include all publicati ive years) May 3, 2010 Kerlow; Wiley; April 13,	ect. on dates; for transferable cours
fundamental of weekly exercise. This course use. II. Examples of at least one to 1. Introduct 2. The Art. III. Course Object Upon completed 1. Demontal 2. Model 3. Model,	concepts of 3D digital animation as ses, students will apply the skills to ses Autodesk Maya. Appropriate Text or Other Request should have been published woring Maya 2011; Dariush Derakhstof 3D Computer Animation and Extrems: ton of the course students will be estrate an understanding of 3D compand rig a simple character. texture and light a simple 3D environments.	well as an under learn to continue the learn to continue the last for	g: (include all publicati ive years) May 3, 2010 Kerlow; Wiley; April 13,	ect. on dates; for transferable cours
fundamental of weekly exercise. This course use. II. Examples of at least one to 1. Introduct 2. The Art. III. Course Object Upon complect 1. Demons 2. Model 3. Model, 4. Animate	concepts of 3D digital animation as ses, students will apply the skills to ses Autodesk Maya. Appropriate Text or Other Request should have been published woring Maya 2011; Dariush Derakhs of 3D Computer Animation and Extreme and understanding of 3D contained in the course students will be a strate an understanding of 3D contained in the course students will be a strate and light a simple 3D environment of the course students will be a character within a 3D environment of the course students will be a character within a 3D environment of the course students will be a character within a 3D environment.	well as an under learn to continue the learn to continue the last for	g: (include all publicati ive years) May 3, 2010 Kerlow; Wiley; April 13,	ect. on dates; for transferable cours
fundamental of weekly exercise. This course use. II. Examples of at least one to at least one	concepts of 3D digital animation as ses, students will apply the skills to ses Autodesk Maya. Appropriate Text or Other Request should have been published woring Maya 2011; Dariush Derakhstof 3D Computer Animation and Extrems: ton of the course students will be estrate an understanding of 3D compand rig a simple character. texture and light a simple 3D environments.	well as an under learn to continue the learn to continue the last for	g: (include all publicati ive years) May 3, 2010 Kerlow; Wiley; April 13,	ect. on dates; for transferable cours
fundamental of weekly exercise. This course use. II. Examples of at least one to at least one	concepts of 3D digital animation as ses, students will apply the skills to ses Autodesk Maya. Appropriate Text or Other Request should have been published woring Maya 2011; Dariush Derakhs of 3D Computer Animation and Extreme and understanding of 3D contained in the course students will be a strate an understanding of 3D contained in the course students will be a strate and light a simple 3D environment of the course students will be a character within a 3D environment of the course students will be a character within a 3D environment of the course students will be a character within a 3D environment.	well as an under learn to continue the learn to continue the last for	g: (include all publicati ive years) May 3, 2010 Kerlow; Wiley; April 13,	ect. on dates; for transferable cours

IV. Methods of Presentation:

Lecture, discussion, demonstration

IVb. Arranged Hours Instructional Activities:

If this course has any "arranged hours" listed above, provide the specific instructional activities related to those arranged hours.

Complete video tutorials related to using the Maya software interface.

V. Course Content: % of course **Topic** Overview of 3D digital animation 5% Maya interface basics 10% 5% Maya animation basics NURBS modeling 5% Polygonal modeling 5% Hierarchies and path animation 5% Skeletons and kinematics 10% Character animation exercises 25% Constraint animation 5% 5% Cameras 5% Lighting Shading 5% 10% Rendering

VI. Methods of Evaluation: (Specific percentages will vary with instructor; approximate values are shown.) % of grade Evaluation Method 10% Participation 10% Quizzes 50% 10 Assignments 30% Final Project

VII. Sample Assignments: (please describe at least 2 sample assignments)

Assignment 1 - The Bouncing Ball

Objective:

Use a primitive NURBS sphere to create a 60 frame animation of a ball bouncing three times from left to right along the positive X axis of worldspace.

Procedure:

- Create a new scene in Maya.
- Set animation preferences for real-time playback at 30fps.
- Create a NURBS sphere and adjust its pivot point along the world's Y axis to the base of the object.

- Keyframe the X and Y translation attributes of the sphere to create key poses of the ball bouncing.
- Use the Graph Editor to modify the timing of the animation.
- Keyframe the scale attributes of the sphere to add the secondary effect of squashing on impact.
- Playblast the animation.
- 2. Assignment 4 Hierarchies and Path Animation

Objective:

Use the polygonal model of the airplane from Assignment 3 to create a simple path animation.

Procedure:

- Create the proper animation hierarchy for the airplane model.
- Use the Sculpt Geometry tool to shape the background terrain using a NURBS plane with 24 divisions.
- Create a NURBS curve as the motion path for the airplane.
- Edit the timing of the path animation to add acceleration and deceleration.
- Add secondary motion of the airplane banking into the turns.
- Attach a camera to a second motion path that follows the airplane.

Form 2: Course Approval and Data Sheet for: Entertainment Technology 24

11. date difference or Poinctated Course?	Updated/Revised
Is this a New Course, Updated/Revised Course, or Reinstated Course?	(enter status here)
If this is a NEW course, anticipated semester and year of first offering:	(enter stated mary)
If this is a <u>new</u> course, please provide a rationale for the addition of to the expand to accommod the rest of the rational expand to accommod the rest of the rest of the rest of the rational expand to accommod the rest of the rest o	this course to the curriculum: odate your complete response)
List all A.A. majors in which this course is/will be <u>required</u> : • Animation	
List all A.A. majors in which this course is/will be an option:	
List all Certificates of Achievement in which this course is/will be required • Animation	<u>4</u> :
List all Certificates of Achievement in which this course is/will be an option	<u>on</u> :
List all Department Certificates in which this course is/will be required:	
List all Department Certificates in which this course is/will be an option: •	
Should this course be transferable to the CSU? YES	
Chauld this course he transferable to the UC? (please in	ndicate YES or NO)
If you are requesting UC transferability, please list either a comparable locampuses or a comparable California Community College course which UC Campus: UC Course Number: UC Course Title: or California Community College: Course Number: Course Title:	ower division course offered at one of the UC is transferable to UC:

Repeatability (requires that the student's experience will be qualitatively different with each repetition).

• How many times should this course be repeatable? NONE

Course Load Factor suggested by department: 1.0 Rationale for the above load factor suggestion: technology based course that requires significant preparation and frequent revision

Appropriate Minimum Qualifications for faculty teaching this course: (Refer to: Minimum Qualifications for Faculty and Administrators in California Community Colleges adopted by The Board of Governors) Multimedia

Form 3: Student / Program / Institutional Learning Outcomes

10/15/10		
Entertainment	Technology	24

Course Level Student Learning Outcomes: (Must list at least 2)

 Students will exhibit strong academic behaviors including regular attendance, timeliness, participation in class activities, and adherence to the College Honor Code.

As assessed by: quizzes, assignments

Students will demonstrate mastery of the course content by creating effective and original 3D animations.
 As assessed by: assignments, final project

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

- Create compelling and original content for a quality entertainment project using industry-specific technology tools.
 This course emphasizes the creation of original 3D content using industry tools.
- 2. Effectively analyze and apply design and production methods used by the entertainment industry.

This course introduces students to 3D production methods employed by the entertainment industry.

Demonstrate how this course supports/maps to at least one of the following Institutional Learning Outcomes. Please include all that apply. Through their experiences at SMC, students will

ILO #1 acquire the self-confidence and self-discipline to pursue their intellectual curiosities with integrity in both their personal and professional lives.

This course supports student self-discipline by assessing the timely completion of coursework and participation in group activities.

ILO #2 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.

This course assesses the student's ability to effectively develop original concepts, work with industry-standard tools and resolve technical problems.

S/ILO Committee Use Only

reviewed by: CKS 11-17-10

Form 4: Associate Degree Course Criteria and Standards, as per Title V, Section 55002

Entertainment Technology 24

Section I - Course Criteria

Items 1 through 14 below. If any criterion is not met, course credit is non-applicable toward the associate degree.

		Criterion Met	Criterion Not Met
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).	х	
2.	This course is to be taught by an instructor with a masters or higher degree, or the equivalent, in an approved discipline.	х	
3.	The course outline of record specifies the unit value, scope, student objectives and content in terms of a specific body of knowledge.	×	
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	
12.	Learning skills and a vocabulary deemed appropriate for a college course are required. Educational	×	
13.	Repeated enrollments are not allowed, except as permitted by provisions of Division 2, Title V, Sections 55761-55763 and 58161.	×	
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.	×	

Section II – Recommendations for Prerequisites

	Are entrance skills and consequent prerequisites for the course requir		YES
	If yes, state the recommended prerequisites:		
16.	Is eligibility for enrollment in a certain level of English and/or mathematicessary for success in this course?	atics	NO
	If yes, state the English and/or math level necessary for success:		and the second s
	English level recommended:	Math level rec	commended:

FORM 5: APPROVALS PAGE

Entertainment Technology 24

Department/Area Vote(s):

	Yes	No	Not voting	Date of vote
Enter Department or Area	7	0	0	11/8/10
Additional Department or Area (if applicable)				- A column at the column at th

Department Chair Approval:	Chris Fria	Date:	11/8/10
Additional Department Chair			
Approval: (if applicable)		Date:	

SMC Librarian:			
List of suggested mate	erials has been given to librarian?	Yes	No
Library has adequate	materials to support course?	Yes	No
Librarian Approval:	(Enter Name Here)	Date:	

Approvals:

A distribution Officer	Date:
Articulation Officer:	La Catalon
Instructional Dean:	Date:
Curriculum Committee:	Date:
Academic Senate:	Date:
Board of Trustees:	Date:

Form 6: Prerequisite, Corequisite, & Advisory Checklist and Worksheet (as per Matriculation Regulations)

Entertainment Technology 24
Advisory: ET 11 ; Computer Skills for Digital Media
Other prerequisites, corequisites, and advisories also required for this course: (Please note that a separate sheet is required for each prerequisite, corequisite, or advisory)
(If applicable, enter Discipline and Course # here) ; (Enter Course Title here)
(If applicable, enter Discipline and Course # here) ; (Enter Course Title here)

SECTION 1 - CONTENT REVIEW: Check items 1-9 below. If any criterion is not met, the prerequisite will be disallowed

4,0	Criterion	Met	Not Met
1.	Faculty with appropriate expertise have been involved in the determination of the prerequisite, corequisite or advisory.	x	
2.	The department in which the course is (will be) taught has considered course objectives in accordance with accreditation standards.	х	
3.	Selection of this prerequisite, corequisite or advisory is based on tests, the type and number of examinations, and grading criteria.	х	
4.	Selection of this prerequisite, corequisite or advisory is based on a detailed course syllabus and outline of record, related instructional materials and course format.	х	
5.	The body of knowledge and/or skills which are necessary for success before and/or concurrent with enrollment have been specified in writing.	Х	
6.	The course materials presented in this prerequisite or corequisite have been reviewed and determined to teach knowledge or skills needed for success in the course requiring this prerequisite.	X	
7.	The body of knowledge and/or skills necessary for success in the course have been matched with the knowledge and skills developed by the prerequisite, corequisite or advisory.	X	
8.	The body of knowledge and/or skills taught in the prerequisite are not an instructional unit of the course requiring the prerequisite.	x	
9.	Written documentation that steps 1 to 8 above have been taken is readily available in departmental files.	х	

SECTION II - ADDITIONAL LEVEL OF SCRUTINY

In addition to the affirmation of content review listed in section I, an additional level of scrutiny is also required. The level of scrutiny depends on which type of prerequisite is involved. There are six types and each is listed below. Please identify which one is being used to justify the proposed prerequisite. The additional level of scrutiny corresponding to each type of prerequisite is identified below.

	Type 1: Standard Prerequisite
×	Type 2: Sequential within and across disciplines
	Type 3: Course in communication or computational skills as prerequisite for course other than another skills course
	Type 4: Program prerequisites
	Type 5: Health and Safety
	Type 6: Recency and other measures of readiness (miscellaneous)

Prerequisite Worksheet

ENTRANCE SKILLS FOR ET 24

A)	Efficiently work with the computer, create files and folders, use keyboard shortcuts, work in a cross-platform environment, and work on a network.
B)	Organize and name files correctly.
C)	Make proper backups of information on the computer.
D)	Utilize the fundamental concepts of digital images and audio.

EXIT SKILLS FOR ET 11

1.	Efficiently work with the computer, create files and folders, use keyboard shortcuts, work in a cross-platform environment, and work on a network.
2.	Organize and name files correctly.
3.	Make proper backups of information on the computer.
4.	Utilize the fundamental concepts of digital images and audio.

	ENTRANCE SKILLS FOR ET 24										
		Α	В	С	D	E	F	G	Н	l	J
	1	X									
02	2		Х								
FOR	3			X							
ς -	4				X						
<u> </u>	5										
SKIL	6										
EXIT	7										
ш	8										
	9										
	10										

Form 1: Course Outline of Record

Santa Monica College

Course Outline For Entertainment Technology 25

Course Title: 3E) Modeling	Units: 3
Total Instructional H	lours: (usually 18 per unit) 54	
Hours per week (ful	I semester equivalent) in Lecture: 2	In-Class Lab: 1 Arranged: 1
Date Submitted: Date Updated:	May 1997 (November 2006) October 15, 2010	
		IGETC Area: (office use only) CSU GE Area: (office use only) 2 nd CSU GE Area: (office use only) SMC GE Area: (office use only) Transfer: CSU
Transfer (if applica	able): please underline and bold the	ne anticipated transferability of this course:
and the second of the second of	Transferable to UC	Transferable to CSU
Prerequisite(s): Skills Advisory:	ET 24 None	
a contract of the matter of		

This course provides an overview of the production process used to construct digital characters and environments. Using industry-standard tools and methods, students will learn to create production-ready 3D models. Organic and inorganic modeling with polygons, NURBS and subdivision surfaces will be covered. Students will also learn the basic principles of digital sculpting software as well as methods for optimizing models for 3D game engines.

This course uses Autodesk Maya and Pixologic ZBrush.

- II. Examples of Appropriate Text or Other Required Reading: (include all publication dates; for transferable courses at least one text should have been published within the last five years)
 - 1. 3-D Human Modeling and Animation, Third Edition; Peter Ratner; Wiley, 2009
 - 2. ZBrush Digital Sculpting Human Anatomy; Scott Spencer; Sybex, 2010

III. Course Objectives:

Upon completion of the course students will be able to:

- 1. Identify the advantages and disadvantages of each surface type used in 3D modeling.
- 2. Use photo reference to create realistic organic and inorganic models.
- Prepare polygonal surfaces for texturing using effective UV mapping techniques.
- 4. Control the complexity of detailed character and environment models by employing efficient workflows.

IIIb. Arranged Hours Objectives:

If this course has any "arranged hours" listed above, provide the specific objectives related to those arranged hours.

Upon completion of the arranged hours students will be able to:

- 1. Use the basic functions of digital sculpting software.
- Create production-ready 3D game assets.

IV. Methods of Presentation:

Lecture, discussion, demonstration, hands-on projects

IVb. Arranged Hours Instructional Activities:

If this course has any "arranged hours" listed above, provide the specific instructional activities related to those arranged hours.

Video tutorials and exercises

cent:	and the second s
Topic	
Overview of 3D surface types	
Using reference images	and the second
Polygonal modeling tools	and the second s
NURBS modeling tools	and the second
Subdivision modeling tools	
UV mapping techniques	and the second s
Organic modeling techniques	and the second
Inorganic modeling techniques	
	Overview of 3D surface types Using reference images Polygonal modeling tools NURBS modeling tools Subdivision modeling tools UV mapping techniques Organic modeling techniques

VI. Methods of Evaluation: (Specific percentages will vary with instructor; approximate values are shown.) **Evaluation Method** % of grade

J. J	
10%	Participation
50%	10 Assignments
10%	Midterm Project
30%	Final Project

VII. Sample Assignments: (please describe at least 2 sample assignments)

Assignment 2: Modeling a simple polygonal character 1.

Objective:

Create a light-weight character model using only polygonal surfaces

Procedure:

Import images to use as modeling reference

Model the legs using a polygonal cube

Use a polygonal cube to create a shoe

Create the torso from a polygonal cylinder

Create the rough head a polygonal cube

Refine the head and complete the character hierarchy

Assignment 3: Modeling a detailed polygonal head 2.

Objective:

Create a detailed character head model using polygonal modeling techniques

Procedure:

Create image planes to use as reference

Model the rough head using a polygonal cube

Refine the mouth

Refine the eye

Create the nose

Create the ear

Refine the head surface

Form 2: Course Approval and Data Sheet for: Entertainment Technology 25

Is this a New Course, <u>Updated/Revised</u> Course, or <u>Reinstated</u> Course?	Updated/Revised
If this is a NEW course, anticipated semester and year of first offering:	and the property of the state o
If this is a <u>new</u> course, please provide a rationale for the addition of the enter rationale here: table will automatically expand to accommodate the commodate the recommodate is a second contract of the course	f this course to the curriculum: nodate your complete response)
List all A.A. majors in which this course is/will be required:	
List all A.A. majors in which this course is/will be an option: • Animation	
List all Certificates of Achievement in which this course is/will be requir	<u>ed</u> :
List all Certificates of Achievement in which this course is/will be an opt Animation	ion:
List all Department Certificates in which this course is/will be required : • 3D Modeling, 3D Rendering	
List all Department Certificates in which this course is/will be an option	•
The state of the s	minimo circultura e mentre i coltro citto de lamento e mentre del trastitura del mande i constituente con monderno c
Should this course be transferable to the CSU? YES	
Should this course be transferable to the UC? NO	
If you are requesting UC transferability, please list either a comparable campuses or a comparable California Community College course whic	lower division course offered at one of the UC n is transferable to UC:
Repeatability (requires that the student's experience will be qualitative	ly different with each repetition).
How many times should this course be <u>repeatable</u> ? None	
Course Load Factor suggested by department: 1.0 <u>Rationale</u> for the above load factor suggestion: technology based and frequent revision	course that requires significant preparation
Appropriate Minimum Qualifications for faculty teaching this course Administrators in California Community Colleges adopted by The Boar Multimedia	: (Refer to: <i>Minimum Qualifications for Faculty and</i> d of Governors)

Form 3: Student / Program / Institutional Learning Outcomes

10/15/2010 Entertainment Technology 25 Course Level Student Learning Outcomes: (Must list at least 2) Students will exhibit strong academic behaviors including regular attendance, timeliness, participation in class activities, and adherence to the College Honor Code. As assessed by: in-class exercises, assignments Students will demonstrate mastery of the course content by creating production-ready 3D character and environment models. As assessed by: assignments, midterm and final projects Demonstrate how this course supports/maps to at least one program learning outcome. Please include all that apply: Create compelling and original content for a quality entertainment project using industry-specific technology tools. This course emphasizes the design of original content using industry tools. 2. Effectively analyze and apply design and production methods used by the entertainment industry. This course utilizes production methods employed by the entertainment industry. Demonstrate how this course supports/maps to at least one of the following Institutional Learning Outcomes. Please include all that apply. Through their experiences at SMC, students will acquire the self-confidence and self-discipline to pursue their intellectual curiosities with integrity in both their ILO #1 personal and professional lives. This course supports student self-discipline by assessing the timely completion of coursework and participation in class activities. obtain the knowledge and academic skills necessary to access, evaluate, and interpret ideas, images, and ILO #2 information critically in order to communicate effectively, reach conclusions, and solve problems.

S/ILO Committee Use Only

This course assesses the student's ability to effectively communicate original concepts, work with industry-

standard tools and resolve technical problems.

reviewed by: CKS 11-17-10

Form 4: Associate Degree Course Criteria and Standards, as per Title V, Section 55002

Entertainment Technology 25

Section I – Course Criteria

Items 1 through 14 below. If any criterion is not met, course credit is non-applicable toward the associate degree.

		Criterion Met	Criterion Not Met
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).	х	
2.	This course is to be taught by an instructor with a masters or higher degree, or the equivalent, in an approved discipline.	х	
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.	х	
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.		×	
11.		×	
12.		×	
13.		×	
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 entran	ce skills and consequent prerequisites for the	e course required? YES
lf yes, stat	e the recommended prerequisites: ET 2	4
	r for enrollment in a certain level of English a for success in this course?	nd/or mathematics NO
If yes, stat	e the English and/or math level necessary fo	r success:
English lev	vel recommended:	Math level recommended:

FORM 5: APPROVALS PAGE

Entertainment Technology 25

Department/Area Vote(s):

	Yes	No	Not voting	Date of vote
Enter Department or Area	7	0	0	11/8/10
Additional Department or Area (if applicable)				

Department Chair Approval:	Chris Fria	Date:	11/8/10
Additional Department Chair			
Approval: (if applicable)		Date:	

SMC Librarian:			
List of suggested mate	erials has been given to librarian?	Yes	No
Library has adequate	materials to support course?	Yes	No
Librarian Approval:	(Enter Name Here)	Date:	

Approvals:

Articulation Officer:	Date:
Instructional Dean:	Date:
Curriculum Committee:	Date:
Academic Senate:	Date:
Board of Trustees:	Date:

Form 6: Prerequisite, Corequisite, & Advisory Checklist and Worksheet (as per Matriculation Regulations)

	Entertainment Technology 25	
Prerequisite: ET 24 ; 3D Fund	amentals	****
	s, and advisories also required for this course: sheet is required for each prerequisite, corequisite, or advisory)	
(If applicable, enter Discipline ar	nd Course # here) ; (Enter Course Title here)	_
(If applicable, enter Discipline ar	nd Course # here) ; (Enter Course Title here)	

SECTION 1 - CONTENT REVIEW: Check items 1-9 below. If any criterion is not met, the prerequisite will be disallowed.

	Criterion	Met	Not Met
1.	Faculty with appropriate expertise have been involved in the determination of the prerequisite, corequisite or advisory.	x	
2.	The department in which the course is (will be) taught has considered course objectives in accordance with accreditation standards.	×	
3.	Selection of this prerequisite, corequisite or advisory is based on tests, the type and number of examinations, and grading criteria.	x	
4.	Selection of this prerequisite, corequisite or advisory is based on a detailed course syllabus and outline of record, related instructional materials and course format.	x	
5.	The body of knowledge and/or skills which are necessary for success before and/or concurrent with enrollment have been specified in writing.	×	
6.	The course materials presented in this prerequisite or corequisite have been reviewed and determined to teach knowledge or skills needed for success in the course requiring this prerequisite.	x	
7.	The body of knowledge and/or skills necessary for success in the course have been matched with the knowledge and skills developed by the prerequisite, corequisite or advisory.	x	
8.	The body of knowledge and/or skills taught in the prerequisite are not an instructional unit of the course requiring the prerequisite.	х	
9.	Written documentation that steps 1 to 8 above have been taken is readily available in departmental files.	X	

SECTION II - ADDITIONAL LEVEL OF SCRUTINY

In addition to the affirmation of content review listed in section I, an additional level of scrutiny is also required. The level of scrutiny depends on which type of prerequisite is involved. There are six types and each is listed below. Please identify which one is being used to justify the proposed prerequisite. The additional level of scrutiny corresponding to each type of prerequisite is identified below.

	Type 1: Standard Prerequisite
×	Type 2: Sequential within and across disciplines
	Type 3: Course in communication or computational skills as prerequisite for course other than another skills course
	Type 4: Program prerequisites
	Type 5: Health and Safety
~	Type 6: Recency and other measures of readiness (miscellaneous)

Prerequisite Worksheet

ENTRANCE SKILLS FOR ET 25

A)	Use the Maya interface in a proficient manner.
B)	Demonstrate an understanding of 3D concepts and terminology.
C)	Model and rig a simple character.
D)	Model, texture and light a simple 3D environment.

EXIT SKILLS FOR ET 24

1.	Use the Maya interface in a proficient manner.
2.	Demonstrate an understanding of 3D concepts and terminology.
3.	Model and rig a simple character.
4.	Model, texture and light a simple 3D environment.

				EI	NTRANCE	SKILLS	FOR ET	25			***************************************
		А	В	С	D	E	F	G	Н	I	J
	1	X									
œ	2		Х								
FOR	3			Х							
LS 24	4				X						
72	5	Ÿ									
SKIL	6										
EXIT	7										
Ш	8										***************************************
	9										
	10										

Form 1: Course Outline of Record Santa Monica College

Course Outline For Entertainment Technology 26

Course Title: 3D	Rendering				Units: 3	and the control of th
Total Instructional H	ours: (usually 18 per unit) 54	1 201 1 1004				property as a second of the se
Hours per week (full	semester equivalent) in Lecture:	2	In-Class Lab:	1	Arranged	: 1
Date Submitted: Date Updated:	January 2002 (November 2006) October 15, 2010					
Transfer (if applica	ible): please <u>underline and bold</u>	the anticipate	IGETC Ar CSU GE Ar 2 nd CSU GE Ar SMC GE Ar Transed transferability	ea: (ea: (ea: (fer: (office use only office use only office use only office use only CSU course:	<u>) </u>
A	Transferable to UC	. 1			able to CSU	
Prerequisite(s): Skills Advisory:	ET 25 None					
				and the section		and the second second second
Using industry-s Advanced shad	ption: vides an overview of the production standard tools and methods, stude ing, lighting, rendering and compo es Autodesk Maya.	nts will learn t	to create pnoto-r	ealistic	acters and env	vironments. enderings.
This course pro Using industry- Advanced shad This course use	vides an overview of the productio standard tools and methods, stude ing, lighting, rendering and compo	nts will learn to siting technique t	to create photo-rues will be cover	ealistic ed.	and styllzed r	endenings.
This course pro Using industry-s Advanced shad This course use II. Examples of A at least one tex	vides an overview of the production standard tools and methods, stude ing, lighting, rendering and composes Autodesk Maya. Appropriate Text or Other Requirements	ed Reading: in the last five	to create photo-rues will be cover (include all publes years)	ealistic ed.	and styllzed r	endenings.
This course pro Using industry-s Advanced shad This course use II. Examples of A at least one tex 1. Advance III. Course Object Upon completio 1. Build ma 2. Simulate 3. Render a	vides an overview of the production standard tools and methods, stude ing, lighting, rendering and composes Autodesk Maya. ppropriate Text or Other Required to the should have been published with the Maya Texturing and Lighting; Leading and Lighting and Lighting; Leading and Lighting a	ed Reading: in the last five e Lanier; Sybo ble to: and traditiona realistic rende	to create photo-rues will be cover (include all public years) ex, 2008 al techniques.	ealistic ed.	and styllzed r	endenings.

IVb. Arranged Hours Instructional Activities:

If this course has any "arranged hours" listed above, provide the specific instructional activities related to those arranged hours.

Video tutorials and exercises

V. Course Conf	ent:
% of course	Topic
10%	Rendering workflow overview:
	Camera settings
	Render settings
25%	Shading:
•	Using the Hypershade editor
	Creating shading networks
	Material attributes
	Creating texture maps
25%	Lighting:
	Light types and attributes
	Shadow types and attributes
	Direct and indirect lighting techniques
	Lighting effects
20%	Rendering effects:
	Depth of Field
	Motion Blur
20%	Compositing:
	Rendering layers and passes
	Batch rendering and compositing workflows

VI. Methods of	Evaluation: (Specific percentage	es will vary with instructor; approximate values are shown.)
% of grade	Evaluation Method	en e
10%	Participation	
50%	10 Assignments	
10%	Midterm and final exams	
30%	Final project	

VII. Sample Assignments: (please describe at least 2 sample assignments)

1. Assignment 2: Using Materials

Objective:

Create materials for a simple still life composition.

Procedure:

Compile reference images of the objects that you see in the still life file. Pay close attention to the way the objects in the reference images react to light. In Maya, create materials for the objects in the still life file. Use the type of material that you think is appropriate for each object. Do not adjust the lighting or assign any textures. Focus on adjusting the attributes of the materials to replicate what you see in your reference images.

Bring your scene file and all of your reference images to the next class meeting.

2. Assignment 8: Scene Lighting

Objective:

Apply the basic principles of scene lighting to an environment in Maya.

Procedure:

Copy the file "sceneLighting_environment mb" from your instructor's Teacher folder.

You will need to create two lighting scenarios with this file: a warm and inviting daytime scene and an eerie and mysterious nightime scene.

Begin by compiling reference images of the type of lighting you want to create. In Maya, create materials for the objects in the file. Use the type of material that you think is appropriate for each object. You may also alter the camera angle slightly but do not change its overall position. You may assign textures if time allows but textures that are necessary to control the lighting should be given a priority.

When complete, save both versions of the scene. Bring your scene files and your reference images to the next class meeting.

Form 3: Student / Program / Institutional Learning Outcomes

10/15/10 Entertainment Technology 26

Course Level Student Learning Outcomes: (Must list at least 2)

1. Students will exhibit strong academic behaviors including regular attendance, timeliness, participation in class activities, and adherence to the College Honor Code.

As assessed by: assignments, exams

2. Students will demonstrate mastery of the course content by creating production-quality renderings of 3D animations.

As assessed by: assignments, final project

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

1. Create compelling and original content for a quality entertainment project using industry-specific technology tools.

This course emphasizes the design of original content using industry tools.

Effectively analyze and apply design and production methods used by the entertainment industry.

This course utilizes production methods employed by the entertainment industry.

Demonstrate how this course supports/maps to <u>at least one</u> of the following Institutional Learning Outcomes. Please include all that apply. Through their experiences at SMC, students will

ILO #1 acquire the self-confidence and self-discipline to pursue their intellectual curiosities with integrity in both their personal and professional lives.

This course supports student self-discipline by assessing the timely completion of coursework and participation in class activities.

ILO #2 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.

This course assesses the student's ability to effectively communicate original concepts, work with industry-standard tools and resolve technical problems.

ILO #4 take responsibility for their own impact on the earth by living a sustainable and ethical life style.

(Provide explanation here, if applicable)

S/ILO Committee Use Only

reviewed by: CKS 11-17-10

Form 1: Course Outline of Record Santa Monica College

Course Outline For Entertainment Technology 25C

Course Title:	3D Character Rigging	Units: 3	as plants or at 11
Total Instruction	al Hours: (usually 18 per unit) 54		
Hours per week	(full semester equivalent) in Lecture:	2 In-Class Lab: 1 Arranged: 1	
Date Submitted Date Updated:	: November 10, 2010 (dated: O	october 10, 2010)	
		IGETC Area: (office use only)	
		CSU GE Area: (office use only) 2 nd CSU GE Area: (office use only) SMC GE Area: (office use only)	
Transfer (if ann	liashle), places underline and hold	Transfer: CSU	
rransier (ii app	Transferable to UC	the anticipated transferability of this course: Transferable to CSU	
	Transferable to OC	Transiciant to ood	
Prerequisite(s):			
Skills Advisory	:	The second secon	

I. Catalog Description:

This course covers the technical aspects of creating effective animation controls for 3D characters. Using industry-standard tools and methods, students will develop infuitive and efficient character rigs. The use of deformers, constraints, expressions, scripts, utility nodes and kinematic controls will be covered. Students will also be introduced to advanced topics such as cloth, hair, fur and muscle systems.

This course uses Autodesk Maya.

- II. Examples of Appropriate Text or Other Required Reading: (include all publication dates; for transferable courses at least one text should have been published within the last five years)
 - 1. Body Language: Advanced 3D Character Rigging; Eric Allen; Sybex, 2008
 - 2. Stop Staring: Facial Modeling and Animation Done Right; Jason Osipa; Sybex, 2010
 - 3. (add references as needed by pressing TAB; note: could include the contents of a "customized reader")

III. Course Objectives:

Upon completion of the course students will be able to:

- 1. Demonstrate an understanding of human anatomy in relation to skeletons and kinematics.
- Apply constraints, expressions and utility nodes to control various aspects of a control rig.
- 3. Use efficient and effective skin weighting techniques to correct deformations.
- Use professional workflows to create production-quality body and facial control rigs for a variety of characters.

IIIb. Arranged Hours Objectives:

If this course has any "arranged hours" listed above, provide the specific objectives related to those arranged hours.

Upon completion of the arranged hours students will be able to:

Apply the basic principles of MEL and Python scripting.

IV. Methods of Presentation:

Lecture, discussion, demonstration, hands-on projects

IVb. Arranged Hours Instructional Activities:

If this course has any "arranged hours" listed above, provide the specific instructional activities related to those arranged hours.

1. Video tutorials and exercises

V. Course Content:

v. course com	CILL
% of course	Topic
20%	Skeletons and kinematics
10%	Constraints
10%	Expressions and utility nodes
10%	Deformers
10%	Character hierarchies and selection sets
10%	Skinning
20%	Facial rigging
10%	Dynamic simulations and muscle systems

VI. Methods of Evaluation: (Specific percentages will vary with instructor; approximate values are shown.) % of grade Evaluation Method

10%	Participation
10%	Quizzes
50%	10 Assignment
30%	Final Project

VII. Sample Assignments: (please describe at least 2 sample assignments)

1. Assignment 1: Create a simple biped rig

Objective:

Create a skeleton and IK system for a simple biped character.

Procedure:

Build the joint chains for the character's skeleton

Edit and mirror the joint chains to complete the skeleton

Add IK handles to the leg and arm joint chains

2. Assignment 5: Create a facial control rig

Objective:

Construct a facial animation system using a series of deformers.

Procedure:

Isolate and modify the head geometry

Add cluster deformers to the eyelids and eyebrows

Build a control rig for the mouth
Create the facial blend shape targets
Create the facial blend shape deformers
Complete the facial controls
Bind the head to the rig

Form 2: Course Approval and Data Sheet for: Entertainment Technology 25C

Is this a New Course, Updated/Revised Course, or Reinstated Course?	New
If this is a NEW course, anticipated semester and year of first offering:	Fall 2011

If this is a new course, please provide a rationale for the addition of this course to the curriculum:

This course material currently makes up half of the content for ET 25, but the subject matter is too complex to be presented in that format. Having a separate course which focuses on 3D character rigging is the only way to effectively address advanced concepts that are a required part of industry workflows.

List all A.A. majors in which this course is/will be required:

•

List all A.A. majors in which this course is/will be an option:

Animation

List all Certificates of Achievement in which this course is/will be required:

•

List all Certificates of Achievement in which this course is/will be an option:

Animation

List all Department Certificates in which this course is/will be **required**:

• 3D Modeling

List all Department Certificates in which this course is/will be an option:

•

Should this course be transferable to the CSU?	YES
Should this course be transferable to the UC?	NO

If you are requesting UC transferability, please list either a comparable lower division course offered at one of the UC campuses or a comparable California Community College course which is transferable to UC:

- UC Campus:
- UC Course Number:
- UC Course Title:

Οľ

- California Community College:
- Course Number:
- · Course Title:

Repeatability (requires that the student's experience will be qualitatively different with each repetition).

• How many times should this course be repeatable? NONE

Course Load Factor suggested by department: 1.0

Rationale for the above load factor suggestion: extremely technical computer-based course that requires significant preparation and frequent revision

Appropriate Minimum Qualifications for faculty teaching this course: (Refer to: <u>Minimum Qualifications for Faculty and Administrators in California Community Colleges</u> adopted by The Board of Governors)

Multimedia

Form 3: Student / Program / Institutional Learning Outcomes

standard tools and resolve technical problems.

FOIIII	5. Student / Frogram / mantational Learning Outcomes
10/15/10	
Entertai	nment Technology 25C
Course	Level Student Learning Outcomes: (Must list <u>at least 2</u>)
	dents will exhibit strong academic behaviors including regular attendance, timeliness, participation in class vities, and adherence to the College Honor Code.
As	assessed by: quizzes, assignments
2. Stu	dents will demonstrate mastery of the course content by creating production-ready control rigs for 3D characters.
As	assessed by: assignments, final project
all that a	
1. Cre	eate compelling and original content for a quality entertainment project using industry-specific technology tools.
Thi	s course emphasizes the design of original content using industry tools.
2. Effe	ectively analyze and apply design and production methods used by the entertainment industry.
	s course utilizes production methods employed by the entertainment industry.
Demon Outcon	strate how this course supports/maps to <u>at least one</u> of the following Institutional Learning nes. Please include all that apply. Through their experiences at SMC, students will
ILO #1	acquire the self-confidence and self-discipline to pursue their intellectual curiosities with integrity in both their personal and professional lives.
	This course supports student self-discipline by assessing the timely completion of coursework and participation in class activities.
ILO #2	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.
	This course assesses the student's ability to effectively communicate original concepts, work with industry-

S/ILO Committee Use Only reviewed by: CKS 11-17-10

Form 4: Associate Degree Course Criteria and Standards, as per Title V, Section 55002

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Entertainment Technology 25C	
Entertainment recimology 230	# programming and additionally and program and additional to the control of the c

Section I – Course Criteria

Items 1 through 14 below. If any criterion is not met, course credit is non-applicable toward the associate degree.

		Criterion Met	Criterion Not Met
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).	×	
2.	This course is to be taught by an instructor with a masters or higher degree, or the equivalent, in an approved discipline.	×	
3.	The course outline of record specifies the unit value, scope, student objectives and content in terms of a specific body of knowledge.	×	
4.	The course outline of record specifies requested reading and writing assignments, and other assignments to be done outside of class (homework).	×	
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).	×	
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.	×	
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.	×	
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.	×	
11.	Subject matter is treated with a scope and intensity which requires students to study independently outside of class time.	×	
12.	Learning skills and a vocabulary deemed appropriate for a college course are required. Educational materials used are judged to be college level.	х	
13.	Repeated enrollments are not allowed, except as permitted by provisions of Division 2, Title V, Sections 55761-55763 and 58161.	х	
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

5. Are entrance skills and consequent prerequisites for the course required?		YES		
If yes, state the recommended prerequisites: ET 25				
6. Is eligibility for enrollment in a certain level of English and/or mathematics necessary for success in this course?				
If yes, state the English and/or math level necessary for success:				
English level recommen-	English level recommended: Math level		Math level reco	ommended:

FORM 5: APPROVALS PAGE

Entertainment Technology 25C

Department/Area Vote(s):

	Yes	No	Not voting	Date of vote
Enter Department or Area	7	0	0	11/8/10
Additional Department or Area (if applicable)				
Please list any other Departments, Areas, or Cha	irpersons co	onsulted i	egarding this	course:

Department Chair Approval:	Chris Fria	Date:	11/8/10
Additional Department Chair			
Approval: (if applicable)		Date:	

SMC Librarian:		,	_
List of suggested materials has been given to librarian?		Yes	No
Library has adequate materials to support course?		Yes	No
Librarian Approval:	(Enter Name Here)	Date:	

Approvals:

Articulation Officer:	Date:
Instructional Dean:	Date:
Curriculum Committee:	Date:
Academic Senate:	Date:
Board of Trustees:	Date:

Form 6: Prerequisite, Corequisite, & Advisory Checklist and Worksheet (as per Matriculation Regulations)

	Entertainment Technology 25C	e de la composition della comp
Prerequisite: ET 25; 3D Mode	eling	
Other prerequisites, corequisites	s, and advisories also required for this course: sheet is required for each prerequisite, corequisite, or advisory)	
	nd Course # here) ; (Enter Course Title here)	
	nd Course # here) ; (Enter Course Title here)	

SECTION 1 - CONTENT REVIEW: Check items 1-9 below. If any criterion is not met, the prerequisite will be disallowed

	Criterion	Met	Not Met
1.	Faculty with appropriate expertise have been involved in the determination of the prerequisite, corequisite or advisory.	Х	
2.	The department in which the course is (will be) taught has considered course objectives in accordance with accreditation standards.	X	
3.	Selection of this prerequisite, corequisite or advisory is based on tests, the type and number of examinations, and grading criteria.	x	
4.	Selection of this prerequisite, corequisite or advisory is based on a detailed course syllabus and outline of record, related instructional materials and course format.	X	
5.	The body of knowledge and/or skills which are necessary for success before and/or concurrent with enrollment have been specified in writing.	х	
6.	The course materials presented in this prerequisite or corequisite have been reviewed and determined to teach knowledge or skills needed for success in the course requiring this prerequisite.	x	
7.	The body of knowledge and/or skills necessary for success in the course have been matched with the knowledge and skills developed by the prerequisite, corequisite or advisory.	x	
8.	The body of knowledge and/or skills taught in the prerequisite are not an instructional unit of the course requiring the prerequisite.	x	
9.	Written documentation that steps 1 to 8 above have been taken is readily available in departmental files.	Х	

SECTION II - ADDITIONAL LEVEL OF SCRUTINY

In addition to the affirmation of content review listed in section I, an additional level of scrutiny is also required. The level of scrutiny depends on which type of prerequisite is involved. There are six types and each is listed below. Please identify which one is being used to justify the proposed prerequisite. The additional level of scrutiny corresponding to each type of prerequisite is identified below.

	Type 1: Standard Prerequisite
Х	Type 2: Sequential within and across disciplines
	Type 3: Course in communication or computational skills as prerequisite for course other than another skills course
,	Type 4: Program prerequisites
	Type 5: Health and Safety
	Type 6: Recency and other measures of readiness (miscellaneous)

Prerequisite Worksheet

ENTRANCE SKILLS FOR ET 25C

A)	Identify the advantages and disadvantages of each surface type used in 3D modeling.
B)	Use photo reference to create realistic organic and inorganic models.
C)	Prepare polygonal surfaces for texturing using effective UV mapping techniques.
D)	Control the complexity of detailed character and environment models by employing efficient workflows.

EXIT SKILLS FOR ET 25

1.	Identify the advantages and disadvantages of each surface type used in 3D modeling.
2.	Use photo reference to create realistic organic and inorganic models.
3.	Prepare polygonal surfaces for texturing using effective UV mapping techniques.
4.	Control the complexity of detailed character and environment models by employing efficient workflows.

				EN	TRANCE	SKILLS	FOR ET 2	.5C			
		Α	В	С	D	E	F	G	Н	I	J
	1	X									
œ	2		X							The state of the s	
FOR	3			X							
LS 25	4				Х						
12 12	5										
SKIL	6										
EXIT	7										
ш	8										
	9	,									
	10										

Form 1: Course Outline of Record Santa Monica College

Course Outline For Philosophy 20 / Environmental Studies 20 Units: 3 Course Title: **Environmental Ethics** Total Instructional Hours: (usually 18 per unit) Hours per week (full semester equivalent) in Lecture: 3 In-Class Lab: Arranged: November 9, 2010 **Date Submitted:** IGETC Area: 3B (pending) C2 CSU GE Area: 2nd CSU GE Area: D7 SMC GE Area: 111 SMC GE Area: V Transfer: UC (pending), CSU Prerequisite(s): none Eligibility for English 1 Skills Advisory:

I. Catalog Description:

This course introduces the field of environmental ethics with an emphasis on global environmental problems and global citizenship. The conceptual foundations of environmental attitudes and values are examined through an historical survey of philosophies of nature and human/nature relations. Ethical theories are presented and used to analyze contemporary environmental problems, e.g. mistreatment of animals, pollution, climate change, species extinction, natural resource depletion, environmental racism etc. The ethical assumptions underlying various national and international responses to environmental problems will be analyzed and evaluated.

II. Exan	nples of Appropriate Text or Other Required Reading: (include all publication dates; for transferable courses ast one text should have been published within the last five years)
1.	Environmental Ethics: The Big Questions, David R. Keller, Wiley-Blackwell, 2010.
2.	Environmental Ethics: Readings in Theory and Application, Louis Pojman, fifth edition, Thomson-Wadsworth, 2008.
3.	Environmental Ethics: An Introduction to Environmental Philosophy, Joseph R. Des Jardins, fourth edition, Wadsworth, 2005.
4.	Environmental Ethics: Divergence & Convergence, Susan Armstrong & Richard Botzler, third edition, McGraw-Hill, 2004.
5.	Ecological Ethics: An Introduction, Patrick Curry, Polity, 2006.
6.	Global Environmental Ethics, Louis Pojman, McGraw-Hill, 1999.
7.	Unsustainable: A Primer for Global Environmental and Social Justice, Patrick Hossay, Zed Books, 2006.
8.	Just Ecological Integrity: The Ethics of Maintaining Planetary Life, Peter Miller and Laura Westra, Roman & Littlefield, 2002.
9.	Earth and Other Ethics: The Case for Moral Pluralism, Christopher D. Stone, Harper & Row, 1987.
10.	The Incomplete Eco-Philosopher: Essays from the Edges of Environmental Ethics, Anthony Weston, State University of New York, 2009.

III. Cou	rse Objectives:
Upor	completion of the course students will be able to:
1.	Identify and explain basic philosophical concepts essential to ecological literacy, e.g. "ethics", "environmentalism", "nature", "ecology", "wilderness", "sustainability", "global commons", "moral community", "global citizenship", "environmental justice".
2.	Understand the rise of modern environmentalism in terms of the history of Western philosophy.
3.	Compare, contrast and evaluate a range of philosophies of nature and human/nature relations.
4.	Critically analyze the intrinsic/instrumental value distinction as it applies to "nature".
5.	Examine the meaning of individual and collective responsibility for our impact on the earth, in the present and the future.
6.	Identify and analyze a range of ethical theories, e.g. utilitarian, virtue ethics, deontology, pragmatism.
7.	Apply various ethical theories to a range of environmental problems, e.g. climate change, pollution, species loss.
8.	Analyze and critically evaluate the philosophical assumptions underlying various national and international responses to environmental problems.
9.	Construct ethical justifications for particular solutions to environmental problems.

IV. Methods of Presentation:

A combination of lecture, discussion, film, guest speakers, collaborative learning, and/or service-learning/experimental learning is employed.

V. Course Con	tent:
% of course	Topic
5%	Introduction to environmental ethics: basic concepts; sustainability; ecological integrity; global citizenship.
5%	Global environmental problems & dilemmas, e.g. the tragedy of the commons.
5%	The philosophical roots of environmentalism: philosophies of "nature" and human/nature relationships; intrinsic/extrinsic value; anthropocentricism/biocentricism/ecocentricism.
10%	Traditional ethical theories: deontology, utilitarianism, virtue ethics, pragmatism, etc.
15%	The scope of moral considerability and rights: people, land, ecosystems, plants, animals, and future generations.
40%	Case-studies: mistreatment of animals, pollution, climate change, species extinction, natural resource depletion, environmental racism, etc.
10%	Ethical dimensions of national and international policy efforts to resolve selected environmental problems, e.g. Kyoto Protocol, United Nations sustainable development initiatives, and The Earth Charter.
10%	Ecological Democracy, Environmental Justice, Ecological Feminism & Global Citizenship

VI. Methods of	Evaluation: (Specific percentages will vary with instructor; approximate values are shown.)
% of grade	Evaluation Method
20%	Group Projects/Presentations/Experiential Learning Activities
20%	Midterm Exam
30%	Writing Assignments/Essays
30%	Final Exam/Final Project

	ple Assignments: (please describe at least 2 sample assignments)
1.	Should ecosystems have rights? Write an argument for or against the extension of rights to ecosystems based on two or more ethical theories presented in the course.
2.	Write an explanatory essay that answers this question: "How can an ethic of global citizenship, such as that presented in <i>The Earth Charter</i> , resolve the central issue raised by Garrett Hardin's tragedy of the commons?".

Form 2: Course Approval and Data Sheet for: Philosophy 20 / Environmental Studies 20

	To assist contract the contract of the formal property of the contract of the
Is this a New Course, Updated/Revised Course, or Reinstated Course?	New
If this is a NEW course, anticipated semester and year of first offering:	Fall 2011

If this is a new course, please provide a rationale for the addition of this course to the curriculum:

This course will add an option for students seeking to fulfill the requirements for the Environmental Studies AA degrees, Liberal Arts AA degrees, and Certificates of Achievement in Environmental Studies, Environmental Science, and Liberal Arts.

List all A.A. majors in which this course is/will be an option:

- · Environmental Studies
- Environmental Science
- Liberal Arts Arts and Humanities
- Liberal Arts Social and Behavior Science

List all Certificates of Achievement in which this course is/will be an option:

- Environmental Studies
- Environmental Science
- Liberal Arts Arts and Humanities
- Liberal Arts Social and Behavior Science

Should this course be transferable to the CSU?	YES	
Should this course be transferable to the UC?	YES	

If you are requesting UC transferability, please list either a comparable lower division course offered at one of the UC campuses or a comparable California Community College course which is transferable to UC:

- UC Campus:
- UC Course Number:
- UC Course Title:

or

- · California Community College: Butte College
- Course Number: PHIL 5
- · Course Title: Environmental Ethics

Repeatability (requires that the student's experience will be qualitatively different with each repetition).

• How many times should this course be repeatable? 0

Course Load Factor suggested by department: 1

Rationale for the above load factor suggestion: Standard Lecture Course

Appropriate Minimum Qualifications for faculty teaching this course: (Refer to: <u>Minimum Qualifications for Faculty and Administrators in California Community Colleges</u> adopted by The Board of Governors)

Philosophy

Form 3: Student / Program / Institutional Learning Outcomes

November 9, 2010	in the first leading to a grown for a constraint of the first leading of
Philosophy 20 / Environmental Studies 20	

Course Level Student Learning Outcomes: (Must list at least 2)

(Provide explanation here)

- Exhibit strong academic behaviors including regular attendance, timeliness, participation in class activities, and adherence to the College Honor Code.
 As assessed by: record of class participation, attention to deadlines, and adherence to the College Honor Code.
 Demonstrate through oral and written work knowledge of the conceptual foundations of environmental attitudes and values through an examination of Western philosophies of nature and human/nature relations.
 As assessed by: Exams, essays and/or class presentations.
- Be proficient in the research, analytical, and communication skills necessary to present, orally and in writing, compelling and original arguments that advance reasonable conclusions as to the most ethical global solutions to selected environmental problems
 As assessed by: Written and oral argumentation.

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

- (Enter a Program Learning Outcome here)
 (Provide explanation here)

 2. (Enter a Program Learning Outcome here)
- Demonstrate how this course supports/maps to <u>at least one</u> of the following Institutional Learning Outcomes. Please include all that apply. Through their experiences at SMC, students will

ILO #4 take responsibility for their own impact on the earth by living a sustainable and ethical life style.

One of the objectives of the course is to, "Examine the meaning of individual and collective responsibility for our impact on the earth, in the present and the future." The process of analyzing selected environmental problems will provide students with the opportunity to reflect on the impact of their life styles, and to reflect on and deliberate about the ethics they believe should guide a sustainable way of life.

S/ILO Committee Use Only reviewed by: CKS 11/9/2010

Form 4: Associate Degree Course Criteria and Standards, as per Title V, Section 55002

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Philosophy	20 /	Environm	antal Str	ıdies 20				
FILLUSUPIN	ZU!	FIIAH AHA	Cilitai Ott		completed a 1 cm	 	a consistent of the	

Section I - Course Criteria

Items 1 through 14 below. If any criterion is not met, course credit is non-applicable toward the associate degree.

		Criterion Met	Criterion Not Met
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).	х	
2.	This course is to be taught by an instructor with a masters or higher degree, or the equivalent, in an approved discipline	Х	
3.	The course outline of record specifies the unit value, scope, student objectives and content in terms of a specific body of knowledge.	Х	
4.	The course outline of record specifies requested reading and writing assignments, and other assignments to be done outside of class (homework).	Х	
5.	The course outline of record specifies instructional methodology and methods of evaluation for determining whether the stated student objectives have been met.	Х	
6.	This course will be taught in accordance with a set of instructional objectives common to all students enrolled in the course (all sections).	Х	
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.	х	
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.	Х	
10.		Х	
11.	Subject matter is treated with a scope and intensity which requires students to study independently outside of class time.	Х	
12.	Learning skills and a vocabulary deemed appropriate for a college course are required. Educational materials used are judged to be college level.	х	
13.	Repeated enrollments are not allowed, except as permitted by provisions of Division 2, Title V, Sections 55761-55763 and 58161.	х	
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.	×	

Section II – Recommendations for Prerequisites

15.	Are entrance skills and consequent prerequisites for the course	e required?	NO	30- Jahr 16- 17- 18- 18- 18- 18- 18- 18- 18- 18- 18- 18	
	If yes, state the recommended prerequisites:				
16.	Is eligibility for enrollment in a certain level of English and/or mecessary for success in this course?	nathematics	NO		
	If yes, state the English and/or math level necessary for succe	ss:		CONTROL OF THE PROPERTY OF THE	imrani
mary law parter property	English level recommended:	Math level r	ecommended:		

FORM 5: APPROVALS PAGE

Philosophy 20 / Environmental Studies 20

Department/Area Vote(s):

11/14/2010
11/17/2010
) 46 ed regarding th
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		[
Department Chair Approval:	Christine Schultz	Date:	11/16/2010
Additional Department Chair		.	
Approval: (if applicable)		Date:	<u> </u>

SMC Librarian:		,		F	
List of suggested materials has been given to librarian?		Yes		No	X
Library has adequate materials to support course?		Yes	X	No	
Librarian Approval: Carol Womack		Date:	11/11/2	010	

Approvals:

Articulation Officer:	Date:
Instructional Dean:	Date:
Curriculum Committee:	Date:
Academic Senate:	Date:
Board of Trustees:	Date:

FORM 8: APPLICATION FOR APPROVAL—COURSE TO FULFILL GLOBAL CITIZENSHIP A.A. DEGREE REQUIREMENT

Philosophy 20 / Environmental Studies 20

Step 1: Under w	ich category does the course belong? (select only one)
	Course content focuses primarily on at least one of the following four areas: (Check all that app
	Conceptual foundations of our environmental attitudes, values and challenges from a variety of cultural perspectives
Ecological	Scientific understanding of Earth's natural systems and cycles, emphasizing humanity's role as the planet's ecologically dominant species and how that affects the continuing viability of habitats for life on Earth.
Ecological Literacy	Analysis of human activity and its impact on Earth's natural environments, both local and global, and the shorter-and longer-term implications for the planet's livability and sustainability.
	Analysis of environmental problems and solutions as they apply to the understanding an practical application of technologies aimed at curbing the adverse impact of human activity on the natural environment and/or improving the sustainable use of natural resources.
SLO: Demonstra	ry to which you are applying. Please identify that SLO here: through oral and written work knowledge of the conceptual foundations of environmental attitud an an examination of Western philosophies of nature and human/nature relations.
and values throu	an examination of Western philosophies of flature and flathatis action of the flat in the flathatis and flathatis and flathatis actions.
It is expe	putline of Record ted that the particular focus of the category to which you are applying be integrated throughout content, objectives, etc. As such, the course outline of record must have been updated within the cademic years to be considered by the committee.
<u> </u>	
requiren	te a rationale as to why this course should fulfill of the SMC Global Citizenship A.A. degree nt for the particular category under which you have applied. Explain how this course fulfills the cked above.
Narrative:	
knowledge and s The course intro	ics constitutes an important foundation for ecological literacy insofar as it provides the ethical ill necessary to prepare citizens to assess and solve environmental problems, locally and global ices students to the traditional ethical theories (utilitarian, deontological, virtue ethics) as well as ironmental theories (social ecology, ecofeminism, ecocentricism, biocentrism, deep ecology, acy) as frameworks to use in thinking through solutions to environmental problems such as air a

knowledge and skill necessary to prepare citizens to assess and solve environmental problems, locally and globally The course introduces students to the traditional ethical theories (utilitarian, deontological, virtue ethics) as well as contemporary environmental theories (social ecology, ecofeminism, ecocentricism, biocentrism, deep ecology, ecological democracy) as frameworks to use in thinking through solutions to environmental problems such as air ar water pollution, natural resource exploitation, habitat loss, and global climate change. Among the conceptual foundations of our environmental attitudes, values and challenges, considered in the course, are: "human", "nature" "wilderness", "sustainable development", "global commons", "moral community", "global citizenship", "environmental justice", and "stewardship". In addition, the course offers opportunities for reflection on a range of contemporary ethical values (autonomy, liberty, equality, justice) in relation to a range of solutions to environmental problems, e.g does a commitment to equality entail moral consideration for animals?	the traditional ethical theories (utilitarian, deontological, virtue ethics) as well as es (social ecology, ecofeminism, ecocentricism, biocentrism, deep ecology, ks to use in thinking through solutions to environmental problems such as air and ploitation, habitat loss, and global climate change. Among the conceptual titudes, values and challenges, considered in the course, are: "human", "nature", nent", "global commons", "moral community", "global citizenship", "environmental on, the course offers opportunities for reflection on a range of contemporary quality, justice) in relation to a range of solutions to environmental problems, e.g.
--	---

5: Departmental or Area Vote on Fulfillment of Glo	pai Citizensi	nh		
	Yes	No	Abstain	Not voting
Department or Area Vote	11	0		11

Form 1: Course Outline of Record Santa Monica College

Course Outline For Recycling and Resource Management 1

Course Title: In	troduction to Recycling and Resource	Manageme	ent	Units: 3
manager take several and it is not recognized the extra or	fours: (usually 18 per unit) 54		A CONTRACTOR OF THE CONTRACTOR	and the construction of the second of the se
and make as commenced and commenced and	Il semester equivalent) in Lecture: 3	The second secon	In-Class Lab:	Arranged:
Date Submitted: Date Updated:	November 10, 2010			
			CSU GE Area: n	//a //a //s CSU
Prerequisite(s): Skills Advisory:	None None			

Catalog Description:

This course introduces general terminology and principles regarding waste, recycling, resource management and Zero Waste. The history of waste and resource management in California, including residential, commercial and institutional reuse, recycling, and composting programs, is addressed. An overview of national, state, and local legislation and regulations related to waste and resource management and recycling is provided. The course covers waste diversion practices such as reduce, reuse, recycle, and also introduces principles in recovery, remanufacturing and repurchasing.

- Examples of Appropriate Text or Other Required Reading: (include all publication dates; for transferable courses at least one text should have been published within the last five years)
 - Robin Murray, Zero Waste, February, 2002, Published by Greenpeace Publications, 2002, 211 pp. ISBN 1 1. 903907 01 2
 - Jared Diamond, Collapse: How Societies Choose to Fail or Succeed, Published by Viking Penguin, 2005, 575 pp. ISBN-10: 0143036556, ISBN-13: 978-0143036555
 - Richard Gertman and Susan Kinsella, Single Stream Recycling Best Practices Manual and Guide, 2007. http://www.conservatree.com/learn/SolidWaste/bestpractices.shtml

III. Course Objectives:

Upon completion of the course students will be able to:

- Describe and explain recycling and resource management principles, such as Zero Waste. 1.
- Explain how recycling and resource management can be a key part of community and business sustainability 2. plans and help contribute to reducing greenhouse gases which affect global climate change
- Identify occupations in the industry and skill sets needed to gain employment 3.
- Analyze the role of markets and local policies in driving successful waste diversion and resource recovery 4. techniques such as recycling, reusing, and composting.
- Examine historical trends in waste and resource management and identify areas for improvement 5.

IV. Methods of Presentation:

Lectures, PowerPoint Presentations, Films, Guest Lecturers and field observations of local recycling, recovery and resource management industries

Topic Introduction to Recycling, Resource Management, and Rethinking Waste Rethinking Wastes How Recycling Works: as nature, as human construct, as legislation Collecting and Processing Resources (Not Wastes) Resources as Feedstocks for Manufacturing How Landfills Realily Work Integrated waste management or resource management system? Eliminating Wastes Public Involvement in Recycling & Buying Recycled Public Understanding of Goals Principles of Zero Waste Definition of Zero Waste Climate Change Resource management paradigms Community Case Studies Business Case Studies Business Case Studies History (and Culture) of Waste and Recycling Recycling Legislation Zero Waste Upstream: Producer responsibility and eliminating toxicity Service Opportunities Analyses Sources, Types and Values of Materials: 12 market categories Special Discards (Ewaste, HHW, Regulated materials) Zero Waste Infrastructure Composting The Science of Composting Major Composting Methods Organics Material Collection Compost Uses and Markets Construction & Demolition (C&D) Recycling Barriers to C&D Recycling Policies, Ordinances, Programs Disaster Debris C&D Markets Strategles for Highest and Best Use Markets Creating Demand Professional Development and Field Work Jobs and Careers Tours: Reuse retail store, Material Recovery Facility, Composting, Landfill	Course Conf	
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Professional Development and Field Work		Strategies for Highest and Best Use Markets
150/ John and Careers		Creating Demand
15% Jobs and Careers Tours: Reuse retail store, Material Recovery Facility, Composting, Landfill		Professional Development and Field Work
Tours: Reuse retail store, waterial Recovery Facility, Compositing, Landon	15%	Jobs and Careers Notorial Recovery Escility Composting Landfill
		Tours: Reuse retail store, Material Recovery Facility, Compositing, Landing

VI. Methods of % of grade	Evaluation: (Specific percentages will vary with instructor; approximate values are shown.) Evaluation Method
15%	Quizzes
30%	Written Analysis (approximately 3)
30%	Oral presentations – group and/or individual
25%	Examinations (2)

VII. Sample Assignments: (please describe at least 2 sample assignments)

- 1. Prepare a paper that identifies and analyzes market incentives and tools for businesses to achieve Zero Waste.
- Prepare a presentation on how individuals, businesses, institutions, and communities are successfully diverting waste from landfill and achieving goals for Zero Waste.

Course Undated/Revised Course or Rein	-4-4-4 Carrena - 1	Now
Course, <u>Opdated/Nevised</u> Course, or <u>river</u>	stated Course?	New
EW course, anticipated semester and year	r of first offering:	Fall 2011
urce Management field. The funds will be ity community colleges — Irvine Valley Co provide job placement services	peen awarded to SN used as a collabor llege and Golden V	MC to help train people in the Recycling and rative project in partnership with two Orange Vest College — to develop training curriculum
naiors in which this course is/will be requi t	red:	
cycling and Resource Management (for	rthcoming)	
najors in which this course is/will be an <u>op</u> a		and the second of the second o
ecycling and Resource Management Le	vel 1 (12-units; for	rthcoming)
icates of Achievement in which this course	e is/will be an <u>optio</u>	<u>n</u> :
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rtment Certificates in which this course is/	will be required :	
a	Trans. Was per land of longs and about the second states.	per control of the co
rtment Certificates in which this course is/	will be an option :	
a		
		and the second s
course be transferable to the CSU?	Yes	and the second s
course be transferable to the UC?	No	and the second s
	partment of Labor grant of \$5 million has burce Management field. The funds will be ty community colleges — Irvine Valley Coprovide job placement services. Induction to Recycling and Resource Management of Labor grant. Inajors in which this course is/will be required and Resource Management (for majors in which this course is/will be an open and the services of Achievement in which this course recycling and Resource Management Legicates of Achievement in which this course recycling and Resource Management Legicates of Achievement in which this course recycling and Resource Management Legicates of Achievement in which this course is a retired to the Criticates in which this course is a retired to the Criticates in which this course is a course be transferable to the CSU?	partment of Labor grant of \$5 million has been awarded to SI urce Management field. The funds will be used as a collaboraty community colleges — Irvine Valley College and Golden Vorovide job placement services. Iduction to Recycling and Resource Management is one of fourtment of Labor grant. Inajors in which this course is/will be required: cycling and Resource Management (forthcoming) Inajors in which this course is/will be an option: Inajors in which this course is/will be an option: Inajors in which this course is/will be required: cycling and Resource Management Level 1 (12-units; for exycling and Resource Management Level 2 (18-units; for exycling and Resource Management Level 3 (19-units; for exycling and Resource Management Level 4 (19-units; for exycling and Resource Management Level 5 (18-units; for exycling and Resource Management Level 6 (18-units; for exycling and Resource Management Level 8 (18-units; for exycling and Resource Management Level 9 (18-units; for exycling and Resource Management Level 1 (19-units; for exycling and Resource Management Level 2 (18-units; for exycling and Resource Management Level 2 (18-units; for exycling and Resource Management Level 3 (19-units; for exycling and Resource Management Level 3 (19-units; for exycling and Resource Management Level 3 (19-units; for exycling and Resource Management Level 4 (19-units; for exycling and Resource Management Level 1 (19-units; for exycling and Resource Management Level 1 (19-units; for exycling and Resource Management Level 1 (1

Form 3: Student / Program / Institutional Learning Outcomes

November 10, 2010 Recycling and Resource Management 1

Course Level Student Learning Outcomes: (Must list at least 2)

Upon completion of this course, the student will be able to:

- Explain the recycling system and the tools employed to eliminate waste and use resources efficiently. As assessed by: Quizzes, Exams, Papers
- 2. Identify local markets for recovered products and materials to be used as resources for local manufacturing As assessed by: oral presentations and papers
- Identify specific regulations that influence recycling and resource management in California. 3. As assessed by: oral presentations and papers

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

- Earth Science students will acquire and develop knowledge and skills that will equip them to be informed, engaged, and productive global citizens, capable of leading humanity toward a more sustainable and adaptable future.
 - This course will provide a solid understanding of recycling and resource management. Students will identify how Zero Waste principles can be a key part of community and business sustainability plans and help contribute to reducing greenhouse gases which affect global climate change.
- Students will use key concepts and methodologies presented in Earth Science classes to recognize, describe, evaluate and analyze various aspects of human behavior
 - A key component of this class will be introducing students to recycling and resource recovery by identifying historical and current disposal practices, including the concept of recycling as a human construct in a wasteful society. Additionally, best practices for preventing waste through design and resource management systems will be presented.

Demonstrate how this course supports/maps to at least one of the following Institutional Learning Outcomes. Please include all that apply. Through their experiences at SMC, students will

- acquire the self-confidence and self-discipline to pursue their intellectual curiosities with integrity in both their personal and professional lives.
 - Students will be required to participate in group discussions based on readings and lectures. Working alone, or in a group, in preparation for an oral presentation provides the opportunities for students to become more selfconfident, more organized and develop self-discipline.
- ILO #2 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. Students will be assigned reading from texts that expand and enhance lecture topics:
 - a. Collapse, to clarify how civilizations prospered or collapsed depending on how they managed their resources.
 - b. Zero Waste, to clarify the importance of new policies, programs and facilities needed to move towards Zero Waste.
 - c. EPA's Decision Makers Guide to Waste Management to provide overview of municipal policy and program options.
 - d. Single Stream Recycling Best Practices Manual and Guide to provide understanding of how local

governments are key to better designed and integrated systems.

Critical thinking skills will be developed as students make connections between theoretical frameworks and practical implications of resource management and recovery.

ILO#3 respect the inter-relatedness of the global human environment, engage with diverse peoples, and acknowledge the significance of their daily actions relative to broader issues and events.

A key component of this class will be introducing students to the basic principles of recycling and resource management, which includes rethinking waste by identifying historical, current and emerging disposal practices. Additionally, best practices for preventing waste through design and resource management systems will be presented. Waste management is a global issue which includes issues concerning Environmental Justice.

ILO #4 take responsibility for their own impact on the earth by living a sustainable and ethical life style.

This course will provide an understanding of recycling, resource recovery and waste disposal. Students will utilize principles of resource management to examine the role of the individual as part of a global society; recognizing the connection between individual behaviors and global environmental problems.

S/ILO Committee Use Only

reviewed by: CKS 11/11/10

Form 4: Associate Degree Course Criteria and Standards, as per Title V, Section 55002

Recycling and Resource Management 1

Section I - Course Criteria

Section II – Recommendations for Prerequisites

English level recommended:

Items 1 through 14 below. If any criterion is not met, course credit is non-applicable toward the associate degree.

ems 1 through 14 below. If any chieffort is not met, estated steam of the specific		
	Criterion	
	Met	Not Met
This course is a collegiate course meeting the needs of students eligible for admission. It will be offered	X	
as described in the course outline of record (attached). This course is to be taught by an instructor with a masters or higher degree, or the equivalent, in an	X	
. The course outline of record specifies the unit value, scope, student objectives and content in terms of a	Х	
specific body of knowledge.	Х	
		ļ
to be done outside of class (homework). The course outline of record specifies instructional methodology and methods of evaluation for	X	
determining whether the stated student objectives have been met. This course will be taught in accordance with a set of instructional objectives common to all students	X	
	X	
7. This course will provide for the measurement of student performance in terms of the stated decision objectives. A formal grade based upon uniform standards of student evaluation will be issued for the	^	
	T X	
3. This formal grade will be based on student ability to demonstrate prolice by in the subject matter by		
The number of units of credit assigned to the course is based upon the number of course is	X	
and/or activity hours as specified in the course outline. 10. A minimum of three hours of work per week (including class time) is required for each unit of credit,	Х	
	+	
11. Subject matter is treated with a scope and intensity which requires students to study incorporation,		
outside of class time. 12. Learning skills and a vocabulary deemed appropriate for a college course are required. Educational	X	
	 	
13. Repeated enrollments are not allowed, except as permitted by provisions of provisi	X	
55761-55763 and 58161. 14. Student ability to (1) think critically and (2) understand and apply concepts at a college level is required in	X	
order to participate in the course.		
folial to participate in the coarso.		

15. Are entrance skills and consequent prerequisites for the course required? If yes, state the recommended prerequisites: 16. Is eligibility for enrollment in a certain level of English and/or mathematics No necessary for success in this course? If yes, state the English and/or math level necessary for success: Math level recommended:

FORM 5: APPROVALS PAGE

Recycling and Resource Management 1

Department/Area Vote(s):

Department/Area Vote(s):	Yes	No	Not voting	Date of vote
Earth Science	11	0	0	Nov 5, 2010
Additional Department or Area (if applicable)				
Please list any other Departments, Areas, or Chai Interdisciplinary Studies Program—Environ	rpersons co nmental Stu	nsulted r dies	egarding this	course:

Denortment Chair Approval:	Vicki Drake	Date:	Nov 5, 2010
Department Chair Approval: Additional Department Chair		D -4	
Approval: (if applicable)		Date:	

SMC Librarian:				<u></u>
List of suggested mate	rials has been given to librarian?	Yes	x	No
Library has adequate i	materials to support course?	Yes	х	No
Librarian Approval:	Carol Womack	Date	11/17/2010	

Approvals:

Articulation Officer:	Date:
Instructional Dean:	Date:
Curriculum Committee:	Date:
Academic Senate:	Date:
Board of Trustees:	Date:

FORM 8:

APPLICATION FOR APPROVAL—COURSE TO FULFILL GLOBAL CITIZENSHIP A.A. DEGREE REQUIREMENT

Recycling and Resource Management 1

Sten 1: Under whi	ch category does the course belong? (select only one)				
Step 1. Ollar.	Course content focuses primarily on at least one of the following four areas. (Check an triat apply)				
	Conceptual foundations of our environmental attitudes, values and challenges from a variety of cultural perspectives				
	Scientific understanding of Earth's natural systems and cycles, emphasizing humanity's role as the planet's ecologically dominant species and how that affects the continuing viability of habitats for life on Earth.				
X Ecological Literacy	Analysis of human activity and its impact on Earth's natural environments, both local and global, and the shorter-and longer-term implications for the planet's livability and sustainability.				
	Analysis of environmental problems and solutions as they apply to the understanding and practical application of technologies aimed at curbing the adverse impact of human activity on the natural environment and/or improving the sustainable use of natural resources.				
It is also a	earning Outcome ted that at least one student learning outcome (SLO) of this course reflects the particular focus of ry to which you are applying. Please identify that SLO here:				
	recycling system and the tools employed to eliminate waste and use resources efficiently.				
1 1 " " " " " " " " " " " " " " " " " "	d by: Quizzes, Exams, Papers				
1	cific regulations that influence recycling and resource management in California.				
As assesse	d by: Quizzes, Exams, Papers				
requirem	erite a rationale as to why this course should fulfill of the SMC Global Citizenship A.A. degree ent for the particular category under which you have applied. Explain how this course fulfills the ecked above.				
Narrative:					
Recycling and F economic, politic prepare our stud	desource Management 1 is an integral part of ecological literacy insofar as it provides an large and social perspective on waste production and diversion on a local and global scale. It will ents for global citizenship by providing them the terminology, conceptual frameworks, and skills be problems associated with our current unsustainable material flows. Students will examine a mesolving discourses including the role of technology, government, culture, and economics.				
 Analysis of human activity and its impact on Earth's natural environments, both local and global, and the shorter- and longer-term implications for the planet's livability and sustainability. 					
This course examines the process of waste diversion and resource management including basic scientific principles associated with recycling, composing, materials flows, organics, and life cycle analysis. It examines human's role in waste prevention, diversion, and management. It also introduces the concept of ecological footprints and carbon footprints and explains the connection between waste management and climate change.					

Additionally, this course helps students make connections between local actions and global environmental impact. It examines human's role in creating waste and mismanaging resources and identifies the various waste diversion programs that are helping residents, businesses, and governments move towards Zero Waste. It analyzes the processes of waste management from an anthropocentric perspective and explores how Zero Waste is an integral part of sustainable communities and planet vitality.

Analysis of environmental problems and solutions as they apply to the understanding and practical application of technologies aimed at curbing the adverse impact of human activity on the natural environment and/or improving the sustainable use of natural resources.

This course provides an introductory study on the negative environmental impacts of waste production and resource management. It provides an overview of solutions including technology such as food digesters that transform waste into energy, compostable flatware, and cradle-to-cradle design. Also covered are important legislative mechanisms for encouraging sustainable alternatives to historical practices that are unsustainable and detrimental to the health of humans and the planet.

Step 5: Departmental or Area Vote on Fulfillment of Global	Citizensh	qir		
Step 5: Departmental or Area vote on 1 unimitoric or order	Yes	. No	Abstain	Not voting
Earth Science Vote	11	0	0	0

Form 1: Course Outline of Record Santa Monica College

Course Outline For **Recycling and Resource Management 2**

Course Title:	Culture and Zero Waste		Units: 3
Total Instructions	al Hours: (usually 18 per unit) 54	the same of the sa	the set product of the set of the
Hours per week	(full semester equivalent) in Lecture: 3	In-Class Lab:	Arranged:
Date Submitted Date Updated:	: November 6, 2010		
		IGETC Area: CSU GE Area: SMC GE Area: Transfer:	n/a n/a n/a CSU
Prerequisite(s) Skills Advisory			

Catalog Description:

This course will provide an overview of our "throw-away" culture and the motivations behind consumerism and related waste disposal practices. Key issues of the course include carbon footprint, plastics in our environment, consumer laws and cultural mindsets. The course will identify key government agencies and policies and how to collaborate and obtain funding for outreach. Environmental educational skills, programs, and methods will be reviewed. Case studies of successful youth campaigns will be explored and the basics of establishing strong youth educational programs examined.

- II. Examples of Appropriate Text or Other Required Reading: (include all publication dates; for transferable courses at least one text should have been published within the last five years)
 - Fostering Sustainable Behavior: An Introduction to Community-Based Social Marketing (Education for Sustainability Series); Author: Doug McKenzie-Mohr, William Smith Publisher: New Society Publishers (June 29, 1999); ISBN-10: 0865714061; ISBN-13: 978-0865714069
 - Chapter 2 & 6 from Green Marketing: Opportunity for Innovation; Author: Jacquelyn A. Ottman 2. Publisher: BookSurge Publishing (May 14, 2004); ISBN-10: 1594570787; ISBN-13: 978-1594570780

III. Course Objectives:

Upon completion of the course students will be able to:

- Identify the essentials of effective public outreach strategies, including social media tools, used to sell the concepts of "Reduce, Reuse and Recycle" behaviors to the public.
- Explore a variety of techniques for reaching and engaging target audiences, shaping behavior, and measuring 2. the effectiveness of various marketing tools.
- Identify the job skills necessary for successful careers in Recycling and Resource Management, including sales, marketing, materials recovery, disposal, public servant, coordination, and educational programs.
- Explain the history of consumerism and the current cultural shift toward Zero Waste principles.
- Recognize the major stakeholders influencing legislation concerning recycling and resource management.

Lectures, videos, PowerPoints and field trips to local industries

V. Course Cont % of course 35%	tent:
25%	Consumerism Disposable Society Footprints: Eco, Carbon, Plastic
15%	Public Policies and Outreach Programs Government Agencies Zero Waste, Air Quality and Water Quality (NPDES – urban runoff,/storm drains, CARB) Train the Trainer Creating effective RFPs for Public Outreach
10%	Youth Education Curriculum Existing Programs Community Service and Service-based learning Youth Developed Campaigns: Case Studies Zero Waste Schools: Case Studies
10%	Recycling and Resource Management Professional Job Skills Career Planning Education Planning Public Speaking Job skills: Diverse Communities, Professional writing, Public Speaking, technology skills Soft skills: Time Management, communication skills, interpersonal skills

VI. Methods of Evaluation: (Specific percentages will vary with instructor; approximate values are shown.) % of grade Evaluation Method

15% Quizzes
30% Written analysis (2)
30% Oral presentations: individual and/or group
25% Examinations (2)

VII. Sample Assignments: (please describe at least 2 sample assignments)

- 1. Prepare a paper that analyzes the components of a recent or current, real-world public outreach campaign and obtain samples of the campaign materials. This could include a brochure, a flyer, a recycling guide, a photo of a bus shelter ad, a transcript of a TV or radio PSA, a website, etc. Be sure your samples include at least one tangible/non-digital item.
- Develop and deliver a presentation based on an analysis of "real-life" social marketing examples in relation to the principles addressed in the course.

Form 2: Course Approval and Data Sheet for: Recycling and Resource Management 2

Engineering and the contraction of the contraction	Andrews and a contract of the same	encome a supplier of the companies who was a second of the second of	
Is this a New Course, Updated/Revised Course, or Reinstated Course?	New	the same of the sa	a a super-space to the state of
If this is a NEW course, anticipated semester and year of first offering:	Fall 2011		
ii tills is a latta course, anticipated controller sale year		and companies on the same arms a few to same	

If this is a new course, please provide a rationale for the addition of this course to the curriculum:

A Department of Labor grant of \$5 million has been awarded to SMC to help train people in the Recycling and Resource Management field. The funds will be used as a collaborative project in partnership with two Orange County community colleges — Irvine Valley College and Golden West College — to develop training curriculum and provide job placement services.

Culture and Zero Waste is one of four core courses being developed under this Department of Labor grant.

List all A.A. majors in which this course is/will be required:

Recycling and Resource Management (forthcoming)

List all A.A. majors in which this course is/will be an option:

• n/a

List all Certificates of Achievement in which this course is/will be required:

- Recycling and Resource Management Level 1 (12-units; forthcoming)
- Recycling and Resource Management Level 2 (18-units; forthcoming)

List all Certificates of Achievement in which this course is/will be an option:

n/a

List all Department Certificates in which this course is/will be required:

n/a

List all Department Certificates in which this course is/will be an option:

n/a

Should this course be transferable to the CSU?

Should this course be transferable to the UC?

NO

Repeatability (requires that the student's experience will be qualitatively different with each repetition).

How many times should this course be repeatable?

Course Load Factor suggested by department: 1.0

Rationale for the above load factor suggestion: Standard Lecture Course

Appropriate Minimum Qualifications for faculty teaching this course: (Refer to: Minimum Qualifications for Faculty and Administrators in California Community Colleges adopted by The Board of Governors)

- Ecology or
- Environmental Technologies or
- The equivalent

Form 3: Student / Program / Institutional Learning Outcomes

November 10, 2010
Recycling and Resource Management 2

Course Level Student Learning Outcomes: (Must list at least 2)

Upon completion of this course, the student will be able to:

1. Develop an effective outreach campaign strategy utilizing Social Media and Community-Based Marketing tools.

As assessed by: Papers, and individual/group presentations

2. Identify key components of an effective Request for Proposal (RFP) for public outreach and Community-Based Social Marketing services.

As assessed by: Examinations, papers and individual/group presentations

3. Identify key components of successful Zero Waste curriculum and educational tools.

As assessed by: Examinations, papers and individual/group presentations

4. Recognize how consumerism and a disposable society are components of a cultural shift towards Zero Waste As assessed by: Examinations and papers

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

 Earth Science students will acquire and develop knowledge and skills that will equip them to be informed, engaged, and productive global citizens, capable of leading humanity toward a more sustainable and adaptable future.

This course will provide an overview of our "throw-away" culture and the motivations behind consumerism. Key issues of the course include carbon footprint, plastics in our environment, consumer laws and cultural mindsets.

 Students will use key concepts and methodologies presented in Earth Science classes to recognize, describe, evaluate and analyze various aspects of human behavior.

This course will identify key government agencies and policies and how to collaborate and obtain funding for outreach. Environmental educational skills, programs, and methods will be reviewed. Successful youth campaigns case-studies will be explored and basics of establishing strong youth programs taught.

Demonstrate how this course supports/maps to <u>at least one</u> of the following Institutional Learning Outcomes. Please include all that apply. Through their experiences at SMC, students will

- ILO #1 acquire the self-confidence and self-discipline to pursue their intellectual curiosities with integrity in both their personal and professional lives.
 - Students will be required to participate in group discussions based on readings and lectures. Working alone, or in a group, in preparation for an oral presentation provides the opportunities for students to become more self-confident, more organized and develop self-discipline.
- 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.

Students will be required to prepare a paper that analyzes the components of a recent or current, real-world public outreach campaign and obtain samples of the campaign materials. (This could include a brochure, a flyer,

a recycling guide, a photo of a bus shelter ad, a transcript of a TV or radio PSA, a website, etc). Students will be required to research the context for the campaign, finding out as much as possible re: the sponsoring agency, what their overall mission is, specifically what the target behavior for this particular campaign is, who they are targeting, how long the campaign has been going on, whether they have quantifiable goals for the campaign, how they plan to measure the results of the campaign, etc.

ILO#3 respect the inter-relatedness of the global human environment, engage with diverse peoples, and acknowledge the significance of their daily actions relative to broader issues and events.

Students will participate in group discussions. Each group will share their "real-life" social marketing samples brought into class and analyze them using the principles learned in class. The team will choose one campaign and present their analysis to the rest of the class. Additionally, topics in consumerism will be presented, describing how the United States and other countries have moved into 'disposable' societies and what steps are necessary to rethink waste generation and diversion. Concepts of Environmental Justice will be discussed.

ILO #4 take responsibility for their own impact on the earth by living a sustainable and ethical life style.

Through the identifying of key components of successful waste diversion and resource recovery campaigns, curriculum and educational tools, students will be learning to not only take responsibility for their own impact, but will also develop the tools necessary to help others live sustainable and ethical life styles through waste reduction.

S/ILO Committee Use Only

reviewed by: CKS 11/11/10

Form 4: Associate Degree Course Criteria and Standards, as per Title V, Section 55002

Recycling and Resource Management 2

Section I - Course Criteria

Items 1 through 14 below. If any criterion is not met, course credit is non-applicable toward the associate degree.

		Criterion Met	Criterion Not Met
1.	This course is a collegiate course meeting the needs of students eligible for admission. It will be offered	Х	
	as described in the course outline of record (attached).		
2.	This course is to be taught by an instructor with a masters or higher degree, or the equivalent, in an	Х	
3.	The course outline of record specifies the unit value, scope, student objectives and content in terms of a	Х	
4.	specific body of knowledge. The course outline of record specifies requested reading and writing assignments, and other assignments	Х	
5.	to be done outside of class (homework). The course outline of record specifies instructional methodology and methods of evaluation for	Х	
6.	determining whether the stated student objectives have been met. This course will be taught in accordance with a set of instructional objectives common to all students	Х	
7.	enrolled in the course (all sections). 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.	×	
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.	Х	
9.	The number of units of credit assigned to the course is based upon the number of lecture, laboratory,	X	
10.	and/or activity hours as specified in the course outline. 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.	Х	
11.	Subject matter is treated with a scope and intensity which requires students to study independently outside of class time.	X	
1	Learning skills and a vocabulary deemed appropriate for a college course are required. Educational	X	
13.	Repeated enrollments are not allowed, except as permitted by provisions of Division 2, Title V, Sections	X	
14.	55761-55763 and 58161. 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

		my t	and the second s
15.	Are entrance skills and consequent prerequisites for the course required?	No	
pake and a	If yes, state the recommended prerequisites:		Market of the Control
16.	Is eligibility for enrollment in a certain level of English and/or mathematics necessary for success in this course?	No	The second se
	If yes, state the English and/or math level necessary for success:		
	English level recommended: Math level re	ecommended:	

FORM 5: APPROVALS PAGE

Recycling and Resource Management 2

Department/Area Vote(s):

Departmentarieu voto(3).	Yes	No	Not voting	Date of vote
Earth Science	11	0	0	11/5/2010
Additional Department or Area (if applicable)				
Please list any other Departments, Areas, or Chai Interdisciplinary Studies Program—Environ 			egarding this o	course:

Department Chair Approval:	Vicki Drake	Date:	11/5/2010
Additional Department Chair			
Approval: (if applicable)		Date:_	

SMC Librarian:				r
List of suggested mate	erials has been given to librarian?	Yes	x	No
Library has adequate	materials to support course?	Yes	X	No
Librarian Approval:	Carol Womack	Date:	11/17/2010	

Approvals:

Articulation Officer:	Date:
Instructional Dean:	Date:
Curriculum Committee:	Date:
Academic Senate:	Date:
Board of Trustees:	Date:

Form 1: Course Outline of Record Santa Monica College

Course Outline For Recycling and Resource Management 3

Course Title:	Resource Management and Zero Wa	aste for Communities	}	Units: 3
Total Instruction	al Hours: (usually 18 per unit) 54	The state of the s		The state of the s
and the second state of the second se	(full semester equivalent) in Lecture:	3 In-C	lass Lab:	Arranged:
Date Submitted	d: November 10, 2010			
		C	SU GE Area: r MC GE Area: r	n/a n/a n/a CSU
Prerequisite(s) Skills Advisory I. Catalog De	y: None			
This course will community, who sample sustain Zero Waste good Proposals) and and financial rerules and incentions.	I identify how resource management at at type of planning and facilities are ne ability and zero waste plans and will dials. Students will also learn about tools contracts, understanding enforcement cords, Extended Producer Responsibilitives, and local markets and uses for contracts.	seded, and now to in- scuss different appro- s for local governmen at options, design of lity and Local Productions discarded resources.	paches communint, best practices resource recover	ities have taken to developing for RFPs (Request for ry parks, performance reporting y policies and programs, bans,
at least one 1. Solid Earti 2. Zero http: 3. Gary	of Appropriate Text or Other Require text should have been published with Waste Management in the World's Chacan Ltd, 2010, 228 pp. ISBN: 9781 Waste International Alliance, Global Followww.zwia.org/standards.html Y Liss & Associates, Zero Waste Strate Waste Strate Waste Strates Waste Strates Waste Strates Waste Strates Waste Strates Waste Strates	ities: Water and San 849711708 HS N Principles for Zero W egic Plan, City of Oak actory.aspx?did=212	itation in the World lumber: HS/105/ laste Communitie kland, 2006,	rld's Cities, Published by 10E/ \

III. Course Objectives:

Upon completion of the course students will be able to:

http://www.ci.austin.tx.us/sws/downloads/zerowaste_plan.pdf

- Review sample Zero Waste community plans and discuss different approaches communities have taken to developing Zero Waste goals.
- Identify what type of planning and facilities are needed for Zero Waste Communities and how to finance the 2. systems.
- Identify best practices for RFPs (Request for Proposals) and contracts for developing local markets and uses. 3.
- Identify Extended Producer Responsibility and Local Producer Responsibility policies and programs including bans, rules and incentives.

IV. Methods of Presentation:

Lectures, PowerPoint presentations, guest lecturers, videos, online discussions, and field trips to local Zero Waste communities and industries

/. Course Conte	nt:
% of course	Topic
25%	Zero Waste Community Plans, Programs, and Policies
20%	Implementing Local Programs (Commercial, Residential, Governmental, etc.)
10%	Enforcement (jurisdictions, prosecution, environmental health and safety issues)
15%	Designing Systems and Facilities to Support Maximum Resource Recovery
10%	Financing Programs and Systems (alternatives and grants)
20%	Extended Producer Responsibility and Waste Prevention

% of grade	Evaluation Method
15%	Quizzes
30%	Written analysis (2)
30%	Oral presentations: individual and/or group
25%	Examinations (2)

VII. Sample Assignments: (please describe at least 2 sample assignments)

2.

Develop and deliver a presentation to the class based on your experiences with recycling and resource management at home, business and/or community. Additionally, choose a community and develop a Zero 1. Waste Plan based on the principles learned in class.

waste man based on the principles learned in class.

Write a paper that analyzes how climate change is a driver for communities to adopt Zero Waste goals and plans.

Form 2: Course Approval and Data Sheet for: Recycling and Resource Management 3 Is this a New Course, Updated/Revised Course, or Reinstated Course? If this is a NEW course, anticipated semester and year of first offering: Fall 2011 If this is a new course, please provide a rationale for the addition of this course to the curriculum: A Department of Labor grant of \$5 million has been awarded to SMC to help train people in the Recycling and Resource Management field. The funds will be used as a collaborative project in partnership with two Orange County community colleges — Irvine Valley College and Golden West College — to develop training curriculum and provide job placement services. Resource Management and Zero Waste in Communities is one of four core courses being developed under this Department of Labor grant. List all A.A. majors in which this course is/will be required: Recycling and Resource Management (forthcoming) List all A.A. majors in which this course is/will be an option: n/a List all Certificates of Achievement in which this course is/will be required: Recycling and Resource Management Level 1 (12-units; forthcoming) Recycling and Resource Management Level 2 (18-units; forthcoming) List all Certificates of Achievement in which this course is/will be an option: n/a List all Department Certificates in which this course is/will be required: List all Department Certificates in which this course is/will be an option: n/a Should this course be transferable to the CSU? YES Should this course be transferable to the UC?

Repeatability (requires that the student's experience will be qualitatively different with each repetition).

How many times should this course be repeatable? 0

Course Load Factor suggested by department: 1.0

Rationale for the above load factor suggestion: Standard Lecture Course

Appropriate Minimum Qualifications for faculty teaching this course: (Refer to: Minimum Qualifications for Faculty and Administrators in California Community Colleges adopted by The Board of Governors)

- Ecology or
- Environmental Technologies or
- The equivalent

Form 3: Student / Program / Institutional Learning Outcomes

November 10, 2010 Recycling and Resource Management 3

Course Level Student Learning Outcomes: (Must list at least 2)

Upon completion of this course, the student will be able to:

Explain how and why communities are adopting waste diversion goals and develop community plans to eliminate waste and use resources efficiently.

As assessed by: Group presentations, written papers

Compare policies, programs and facilities needed for communities to improve waste diversion and resource recovery.

As assessed by: quizzes, exams and written papers

Analyze the role of markets and local policies in driving successful waste diversion and resource recovery techniques such as recycling, reusing, and composting.

As assessed by: Group presentations, written papers Identify Local Producer Responsibility policies and programs and advocate for Extended Producer Responsibility policies and programs. As assessed by: Presentations (group and individual) and written papers

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

Earth Science students will acquire and develop knowledge and skills that will equip them to be informed, engaged, and productive global citizens, capable of leading humanity toward a more sustainable and adaptable future.

This course examines resource management and recovery in communities and provides students with the tools to design and develop community plans to eliminate waste and use resources efficiently.

Students will use key concepts and methodologies presented in Earth Science classes to recognize, describe, evaluate and analyze various aspects of human behavior. Students will discuss how residents, business owners, and government officials are adopting Zero Waste goals and are implementing Zero Waste plans.

Additionally, students will identify Local Producer Responsibility policies and programs, and advocate for Extended Producer Responsibility policies.

Demonstrate how this course supports/maps to at least one of the following Institutional Learning Outcomes. Please include all that apply. Through their experiences at SMC, students will

ILO #1 acquire the self-confidence and self-discipline to pursue their intellectual curiosities with integrity in both their personal and professional lives.

Students will be required to participate in group discussions based on readings and lectures. Working alone, or in a group, in preparation for an oral presentation provides the opportunities for students to become more selfconfident, more organized and develop self-discipline.

ILO #2 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. This course will define the problems of waste management and examine the wide variety of problem-solving approaches. Through critical thinking, students will identify key components of policies and programs aimed at reducing waste and implementing recycling and resource management in communities across the United States.

- respect the inter-relatedness of the global human environment, engage with diverse peoples, and acknowledge the significance of their daily actions relative to broader issues and events.

 In class, students will break into groups. Each group will share their experience with recycling and resource recovery at home and discuss how waste diversion practices differ in various cultures. This course will allow students to identify and recognize the common approaches, goals and outcomes that communities throughout the world are pursuing through resource management and recovery.
- take responsibility for their own impact on the earth by living a sustainable and ethical life style.

 Waste diversion programs are an essential part of creating sustainable communities and achieving Zero Waste. In this class, students will examine the role of the individual as part of a community. By evaluating effective waste reduction policies, programs, and strategies, students will learn how to reduce their own impact on the Earth and lead a sustainable and ethical lifestyle.

S/ILO Committee Use Only

reviewed by: CKS 11/11/10

Form 4: Associate Degree Course Criteria and Standards, as per Title V, Section 55002

Recycling and Resource Management 3

Section I - Course Criteria

Items 1 through 14 below. If any criterion is not met, course credit is non-applicable toward the associate degree.

	·	Criterion Met	Criterion Not Met
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).	Х	
2.	This course is to be taught by an instructor with a masters or higher degree, or the equivalent, in an	Х	
3.	approved discipline. The course outline of record specifies the unit value, scope, student objectives and content in terms of a	Х	
4.	specific body of knowledge. The course outline of record specifies requested reading and writing assignments, and other assignments	, X	
5.	to be done outside of class (homework). The course outline of record specifies instructional methodology and methods of evaluation for determining whether the stated student objectives have been met.	Х	
6.	This course will be taught in accordance with a set of instructional objectives common to all students	Х	
7.	enrolled in the course (all sections). 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	х	
8.	permanent record of each student. 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.	Х	
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.	Х	
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.	Х	
11.	Subject matter is treated with a scope and intensity which requires students to study independently outside of class time.	х	
1	Learning skills and a vocabulary deemed appropriate for a college course are required. Educational	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.	×	

Section II – Recommendations for Prerequisites

15.	Are entrance skills and consequent prerequisites for the course requi	red?	No
	If yes, state the recommended prerequisites:	tale problems	The state of the s
16.	Is eligibility for enrollment in a certain level of English and/or mathem necessary for success in this course?	atics	No
	If yes, state the English and/or math level necessary for success:		
	English level recommended:	Math level red	commended:

FORM 5: APPROVALS PAGE

Recycling and Resource Management 3

Department/Area Vote(s):

Department/Area Vote(s).	Yes	No	Not voting	Date of vote
Earth Science	11	0	0	Nov 5, 2010
Additional Department or Area (if applicable)				
Please list any other Departments, Areas, or Chai Interdisciplinary Studies Program—Enviror	rpersons co nmental Stud	nsulted r dies	egarding this	course:

Depai	rtment Chair Approval:	Vicki Drake	Date:	Nov 5, 2010
Additi	onal Department Chair		Date:	
Appro	oval: (if applicable)			1

SMC Librarian:				p
List of suggested mate	erials has been given to librarian?	Yes	x	No
Library has adequate	materials to support course?	Yes	x	No
Librarian Approval:	Carol Womack	Date:	: 11/17/2010	

Approvals:

Articulation Officer:	Date:
Instructional Dean:	Date:
Curriculum Committee:	Date:
Academic Senate:	Date:
Board of Trustees:	Date:

Form 1: Course Outline of Record Santa Monica College

Course Outline For Recycling and Resource Management 4

	Recycling and	Nesour	ce Management		
Course Title:	Resource Management and Zero V	Vaste in Bu	usiness		Units: 3
Total Instructional	Hours: (usually 18 per unit) 54				
Hours per week (f	ull semester equivalent) in Lecture:	3	In-Class Lab:		Arranged:
Date Submitted: Date Updated:	11/10/10		and the second s		
			IGETC Area: CSU GE Area: SMC GE Area: Transfer:	n/a n/a n/a CSU	
Prerequisite(s): Skills Advisory:	None None		A Committee of the Comm		

I. Catalog Description:

This course will provide hands-on applications and tools for businesses to design, implement and oversee waste reduction and resource management programs. It will review a variety of best practices for successful waste diversion and recovery in businesses, detailing how businesses can implement those practices to achieve Zero Waste. Examination of case studies will be used to demonstrate how different companies have implemented successful waste diversion and sustainability programs, including triple bottom line business practices. This course will also provide students with an understanding of how to plan and implement commercial food and organics programs.

- II. Examples of Appropriate Text or Other Required Reading: (include all publication dates; for transferable courses at least one text should have been published within the last five years)
 - Kenneth Geiser, Materials Matter: Toward a Sustainable Materials Policy, MIT Press, 2001, 473 pp. ISBN 0-1 262-07216-5 (hc.:alk.paper) - ISBN 0-262-57148-X (pbk.:alk.paper)
 - William McDonough and Michael Braungart, Cradle to Cradle: Remaking the Way We Make Things, 2002, 2. North Point Press, 208pp. ISBN-10: 0865475873, ISBN-13: 978-0865475878
 - Paul Hawken, Amory Lovins, and L. Hunter Lovins, Natural Capitalism: Creating the Next Industrial Revolution, 3. Back Bay Books, 2008, 416 pp. ISBN-10: 0316353000, ISBN-13: 978-0316353007

III. Course Objectives:

Upon completion of the course students will be able to:

- Plan, implement and oversee waste reduction programs aimed at achieving Zero Waste in businesses 1.
- Identify best practices for waste diversion and resource recovery in businesses 2.
- Understand important local, state, and federal regulations relating to sustainability and waste diversion, 3. including international ISO 14001 environmental standards
- Explain the process and provide hands-on experience with conducting on-site assessments and waste audits 4.

IV. Methods of Presentation:

Lectures, PowerPoint Presentations, videos, guest lecturers and field observations of industries

Course Conte% of course	Tonic
30%	Designing waste diversion and resource recovery programs for businesses, including performing waste audits and setting zero waste goals
15%	Producer Responsibility (marketing, redesigning packaging, product stewardship, life cycle analysis)
20%	Internal Business Drivers for Success (leadership, training, green procurement)
10%	Market and Economics (composting business, reuse business, recycling economics, triple bottom line)
25%	Implementing a commercial food and organics recycling program

VI. Methods of Evaluation: (Specific percentages will vary with instructor; approximate values are shown.) % of grade Evaluation Method

2 11 Time 1	
15%	Quizzes
30%	Written analysis (2)
30%	Oral presentations: individual and/or group
25%	Examinations (2)

VII. Sample Assignments: (please describe at least 2 sample assignments)

- 1. Prepare a paper that reviews a real business and then develops a Zero Waste plan identifying leadership's role, training strategies, goals, measurements, vendor relations, benchmarking, waste audits and corporate policies.
- 2. Conduct a mock business assessment and waste audit which includes an evaluation of on-site logistics and issues. The assessment will identify opportunities to design waste out and provide for vendors to take back products. Your assessment should provide an estimate of the recoverable reusables, organics and recyclables, as well as a cost and service proposal using appropriate assumptions about service pricing.

Form 2: Course Approval and Data Sheet for: Recycling and Resource Management 4

Is this a New Course, Updated/Revised Course, or Reinstated Course?

New

If this is a NEW course, anticipated semester and year of first offering:

Fall 2011

If this is a new course, please provide a rationale for the addition of this course to the curriculum:

A Department of Labor grant of \$5 million has been awarded to SMC to help train people in the Recycling and Resource Management field. The funds will be used as a collaborative project in partnership with two Orange County community colleges — Irvine Valley College and Golden West College — to develop training curriculum and provide job placement services.

Resource Management and Zero Waste in Business is one of four core courses being developed under this Department of Labor grant.

List all A.A. majors in which this course is/will be required:

Recycling and Resource Management (forthcoming)

List all A.A. majors in which this course is/will be an option:

n/a

List all Certificates of Achievement in which this course is/will be required:

- Recycling and Resource Management Level 1 (12-units; forthcoming)
- Recycling and Resource Management Level 2 (18-units; forthcoming)

List all Certificates of Achievement in which this course is/will be an option:

n/a

List all Department Certificates in which this course is/will be required:

• n/a

List all Department Certificates in which this course is/will be an option:

n/a

Should this course be transferable to the CSU?

YES

Should this course be transferable to the UC?

NO

Repeatability (requires that the student's experience will be qualitatively different with each repetition).

How many times should this course be repeatable? 0

Course Load Factor suggested by department: 1.0

Rationale for the above load factor suggestion: Standard Lecture Course

Appropriate Minimum Qualifications for faculty teaching this course: (Refer to: Minimum Qualifications for Faculty and Administrators in California Community Colleges adopted by The Board of Governors)

- Ecology or
- Environmental Technologies or
- The equivalent

Form 3: Student / Program / Institutional Learning Outcomes

November 10, 2010 Recycling and Resource Management 4

Course Level Student Learning Outcomes: (Must list at least 2)

- Compare and analyze waste diversion programs utilized by different businesses. 1.
 - As assessed by: written papers, presentations (group and individual)
- Conduct an on-site waste audit, including observations of employee's behavior to determine how to overcome 2. barriers in achieving Zero Waste for businesses.
 - As assessed by: oral and written interviews
- Identify tools for businesses to design, implement and oversee waste reduction and resource management 3. programs.
 - As assessed by: written papers, presentations, examinations
- Define sustainability in terms of business principles and best practices in recycling and resource management. 4. As assessed by: written papers, presentations, examinations

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

- Earth Science students will acquire and develop knowledge and skills that will equip them to be informed, engaged, 1. and productive global citizens, capable of leading humanity toward a more sustainable and adaptable future.
 - This course examines Zero Waste businesses and provides students the tools for businesses to design, implement, and oversee waste reduction and resource management programs, which are an essential part of a sustainable
- Students will use key concepts and methodologies presented in Earth Science classes to recognize, describe, 2. evaluate and analyze various aspects of human behavior
 - This course studies sustainable practices and resource management principles, providing details on implementation of those principles for businesses to work towards Zero Waste. Critical examination of case-studies allows students to assess how companies have resolved issues that arise in implementing successful waste diversion and resource recovery programs.

Demonstrate how this course supports/maps to at least one of the following Institutional Learning Outcomes. Please include all that apply. Through their experiences at SMC, students will

- acquire the self-confidence and self-discipline to pursue their intellectual curiosities with integrity in both their ILO #1 personal and professional lives.
 - Students will be required to participate in group discussions based on readings and lectures. Working alone, or in a group, in preparation for an oral presentation provides the opportunities for students to become more selfconfident, more organized and develop self-discipline.
- obtain the knowledge and academic skills necessary to access, evaluate, and interpret ideas, images, and ILO #2 information critically in order to communicate effectively, reach conclusions, and solve problems.
 - This course studies sustainable practices and resource management principles, providing details on implementation of those principles for businesses to work towards Zero Waste. Critical examination of casestudies allows students to assess how companies have resolved issues that arise in implementing successful waste diversion and resource recovery programs.
- respect the inter-relatedness of the global human environment, engage with diverse peoples, and acknowledge ILO#3 the significance of their daily actions relative to broader issues and events.

Students will gain knowledge of sustainable business principles and best practices in resource management, which are being applied globally to avoid pollution and waste and improve Environmental Justice.

ILO #4 take responsibility for their own impact on the earth by living a sustainable and ethical life style.

Students will produce a paper that reviews a real business to develop a Zero Waste plan identifying leadership roles, training strategies, goals, measurements, vender relations, benchmarking, waste audits and corporate policies. By recognizing the various strategies that aid businesses in their pursuit of Zero Waste, students will learn how to reduce their own impact on the Earth and lead a sustainable and ethical lifestyle. These principles can also be employed in the students' daily life, as well as at special events and venues, schools, colleges and other institutions.

S/ILO Committee Use Only

reviewed by: CKS 11/11/10

Form 4: Associate Degree Course Criteria and Standards, as per Title V, Section 55002

Recycling and Resource Management 4

Section I - Course Criteria

Items 1 through 14 below. If any criterion is not met, course credit is non-applicable toward the associate degree.

the poods of students aligible for admission. It will be		Not Met
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	
This course is to be taught by an instructor with a masters or higher degree, or the equivalent, in an	Х	
The course outline of record specifies the unit value, scope, student objectives and content in terms	Х	
The course outline of record specifies requested reading and writing assignments, and other	Х	
The course outline of record specifies instructional methodology and methods of evaluation for	Х	
This course will be taught in accordance with a set of instructional objectives continued to all students	Х	
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	х	
the based on student shility to demonstrate proficiency in the subject finaller by	Х	
The number of units of credit assigned to the course is based upon the number of lecture, laboratory,	Х	
A minimum of three hours of work per week (including class time) is required to each drift of credit,	X	
Subject matter is treated with a scope and intensity which requires students to study independently	X	
Learning skills and a vocabulary deemed appropriate for a college course are required. Educational	X	
Repeated enrollments are not allowed, except as permitted by provisions of Division 2, Title V,	X	
Student ability to (1) think critically and (2) understand and apply concepts at a college level is	X	
	approved discipline. The course outline of record specifies the unit value, scope, student objectives and content in terms of a specific body of knowledge. The course outline of record specifies requested reading and writing assignments, and other assignments to be done outside of class (homework). The course outline of record specifies instructional methodology and methods of evaluation for determining whether the stated student objectives have been met. This course will be taught in accordance with a set of instructional objectives common to all students enrolled in the course (all sections). 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. 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. 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. 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. Subject matter is treated with a scope and intensity which requires students to study independently outside of class time. Learning skills and a vocabulary deemed appropriate for a college course are required. Educational materials used are judged to be college level. Repeated enrollments are not allowed, except as permitted by provisions of Division 2, Title V,	approved discipline. The course outline of record specifies the unit value, scope, student objectives and content in terms of a specific body of knowledge. The course outline of record specifies requested reading and writing assignments, and other assignments to be done outside of class (homework). The course outline of record specifies instructional methodology and methods of evaluation for determining whether the stated student objectives have been met. This course will be taught in accordance with a set of instructional objectives common to all students enrolled in the course (all sections). 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. 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. 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. 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. Subject matter is treated with a scope and intensity which requires students to study independently outside of class time. Learning skills and a vocabulary deemed appropriate for a college course are required. Educational materials used are judged to be college level. Repeated enrollments are not allowed, except as permitted by provisions of Division 2, Title V, Sections 55761-55763 and 58161. Student ability to (1) think critically and (2) understand and apply concepts at a college level is

Section II – Recommendations for Prerequisites

000	Alon in 17000 illinoistation illinoistatio		
	Are entrance skills and consequent prerequisites for the course require lf yes, state the recommended prerequisites:	ed? No	
16.	Is eligibility for enrollment in a certain level of English and/or mathematicessary for success in this course?	atics No	
	If yes, state the English and/or math level necessary for success:		
	English level recommended:	Math level recommended:	·

FORM 5: APPROVALS PAGE

Recycling and Resource Management 4

Department/Area Vote(s):

Department/Area Vote(s):	Yes	No	Not voting	Date of vote
Earth Science	11	0	0	Nov 5, 2010
Additional Department or Area (if applicable)				
Please list any other Departments, Areas, or Chair Interdisciplinary Studies Program—Environ	persons con	sulted re	garding this o	course:

	•		
Department Chair Approval:	Vicki Drake	Date:	Nov 5, 2010
Department Ontal Apploton		•	1
Additional Department Chair Approval:		Date:	
(if applicable)			1

SMC Librarian:		٠		
List of suggested materials has been given to librarian?		Yes	х	No
Library has adequate r	Yes	X	No	
Librarian Approval:	Carol Womack	Date:	11/17/2010	

Approvals:

Articulation Officer:	Date:
Instructional Dean:	Date:
Curriculum Committee:	Date:
Academic Senate:	Date:
Board of Trustees:	Date:

OVERVIEW OF ANIMATION CURRICULUM CHANGES

Over the past few years, we have seen an increasing demand from industry employers for entry-level candidates to specialize within an area of production. We have also noticed an alarmingly low rate of completion among students pursuing the Animation certificate of achievement. To address these issues, the Entertainment Technology program is proposing several changes to courses and certificates.

We have developed several new department certificates in areas of specialization within the entertainment industry. Students who are interested in professional development to refine their existing skills will be able to complete one or more of these department certificates within a relatively short period of time.

These new department certificates will also be integrated into the Animation certificate of achievement in a way that will allow students to choose an area of specialization within the required curriculum. To ensure that students are able to complete the certificate of achievement within a two-year time frame, we are proposing to reduce the required units from 58 to 49 or 50, depending on which final project course a student chooses.

It is our hope that these changes will allow our students to achieve lasting success whether their objective is to find immediate employment or to transfer to a four-year institution.

The following is a summary of the course-level revisions we are proposing:

- ET 13 Non-substantial content updates and title change
- ET 18 Substantial course update and title change; unit increase; advisories added
- ET 19A Substantial course update and title change; unit increase; advisories added
- ET 19B Substantial course update and title change; unit increase
- ET 23 Substantial course update; unit increase
- ET 24 SLOs update; prerequisites removed, advisory added; distance education conversion
- ET 25 Minor course content update and title change; unit reduction
- ET 25C New course
- ET 26 Minor course content and SLO update; unit reduction
- . ET 64 Minor course content and SLO update
 - ET 72 Substantial course content update and title change

NEW DEPARTMENT CERTIFICATES

2D ANIMATION (16 Units)

- ET 19A, Beginning 2D Animation (3)
- ET 19B, Advanced 2D Animation (3)
- ET 34, Web Animation 1 (3)
- ET 75, Digital Production for 2D Animation (3)
- ET 30, Animation Project (4)

3D ANIMATION (16 Units)

- ET 19A, Beginning 2D Animation (3)
- ET 19B, Advanced 2D Animation (3)
- ET 24B, 3D Character Animation 1 (3)
- ET 24C, 3D Character Animation 2 (3)
- ET 30, Animation Project (4)

3D MODELING (16 Units)

- ET 25, 3D Modeling (3)
- ET 25B, 3D Character Creation (3)
- ET 25C, 3D Character Rigging (3)
- ET 26, 3D Rendering (3)
- ET 30, Animation Project (4)

3D RENDERING (16 Units)

- ET 25, 3D Modeling (3)
- ET 26, 3D Rendering (3)
- ET 32, Digital Compositing (3)
- ET 38, Digital Imaging for Design 2 (3)
- ET 30, Animation Project (4)

REVISED ANIMATION CERTIFICATE OF ACHIEVEMENT (49-50 UNITS)

SEMESTER 3 SEMESTER 1 ET 20, Visual Development (3) ET 2, Storytelling (3) ET 40, Digital Audio Fundamentals (3) ET 18*, Digital Storyboarding (3) ET 24*, 3D Fundamentals (4) ET 91, Perspective Drawing (2) And: ET 17, Advanced 3D Level Design (3) ET 94, Color Theory (2) ET 44, Game Design/Play Mechanics (3) **INTERSESSION 1** ET 19B*, Advanced 2D Animation (3) ET 75, Digital Production for 2D Animation (3) ET 61, History of Animation (3) ET 19B*, Advanced 2D Animation (3) **SEMESTER 2** ET 24C, 3D Character Animation (3) ET 31A, Digital Video Fundamentals (3) ET 25B, 3D Character Creation (3) ET 37, Digital Imaging for Design (3) ET 25C*, 3D Character Rigging (3) And: ET 26*, 3D Rendering (3) ET 15, Beginning 3D Level Design (3) ET 38, Digital Imaging for Design 2 (3) ET 42, Principles of Game Development (3) ET 63, Digital Tracking and Integration (3) ET 19A*, Beginning 2D Animation (3) ET 65, Digital Effects 2 (3) ET 34, Web Animation 1 (3) **INTERSESSION 3** ET 19A*, Beginning 2D Animation (3) ET 24B, 3D Character Animation 1 (3) ET 72*, Career Development (2) ET 25*, 3D Modeling (3) **SEMESTER 4** or ET 25*, 3D Modeling (3) ET 30, Animation Project (4) ET 32, Digital Compositing (3) ET 49, Game Development Project (4) ET 32, Digital Compositing (3) ET 64, Digital Effects 1 (3) ET 80, Digital Effects Project (3)

INTERSESSION 2

ET 3, Project Management (3)

^{*}Requires course revision

NEW DEPARTMENT CERTIFICATE

2D ANIMATION (16 Units)

ET 19A, Beginning 2D Animation (3)

ET 19B, Advanced 2D Animation (3):

ET 34, Web Animation 1 (3)

ET 75, Digital Production for 2D Animation (3)

ET 30, Animation Project (4)

NEW DEPARTMENT CERTIFICATE

3D ANIMATION (16 Units)

ET 19A, Beginning 2D Animation (3) ET 19B, Advanced 2D Animation (3)

ET 24B, 3D Character Animation 1 (3) ET 24C, 3D Character Animation 2 (3)

ET 30, Animation Project (4)

NEW DEPARTMENT CERTIFICATE

3D MODELING (16 Units)

ET 25, 3D Modeling (3) ET 25B, 3D Character Creation (3) ET 25C, 3D Character Rigging (3) ET 26, 3D Rendering (3) ET 30, Animation Project (4)

NEW DEPARTMENT CERTIFICATE

3D RENDERING (16 Units)

ET 25, 3D Modeling (3)

ET 26, 3D Rendering (3)

ET 32, Digital Compositing (3)

ET 38, Digital Imaging for Design 2 (3)

ET 30, Animation Project (4)

Application Date



California Community Colleges

APPLICATION FOR APPROVAL—NEW CREDIT PROGRAM

Associate of Science in Mathematics	<u>Georgia Lorenz</u>
PROPOSED PROGRAM TITLE	CONTACT PERSON
Santa Monica College	Dean of Instruction
COLLEGE	TITLE
Santa Monica College Community College District	<u>310-434-4277</u>
DISTRICT	PHONE NUMBER
Fall 2011	lorenz georgia@smc.edu
PROJECTED PROGRAM START DATE	E-MAIL ADDRESS
GOAL(S) OF PROGRAM (CHECK ALL THAT APPLY):	
☐ CAREER TECHNICAL EDUCATION (CTE)	OTHER
TYPE OF PROGRAM (CHECK ALL THAT APPLY):	_
A.A. DEGREE X A.S. DEGREE CERTIFICATE OF ACHIEVE	MENT: O 18+ semester (or 27+ quarter) units O 12-18 semester (or 18-27 quarter) units

PLANNING SUMMARY

Recommended T.O.P. Code		Estimated FTE Faculty Workload	0
Units for Degree Major or Area of Emphasis	21 units	Number of New Faculty Positions	0
Total Units for Degree	60 units	Est. Cost, New Equipment	\$0
Required Units-Certificate	21 Units	Cost of New/Remodeled Facility	\$0
Projected Annual Completers	20	Est. Cost, Library Acquisitions	\$0
Projected Net Annual Labor Demand (CTE)		When will this program undergo review as part of college's Program Evaluation Plan?	Month/Semester February Year 2016

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 Program Goals and Objectives
- 2. Catalog Description
- 3. Program Requirements
- 4. Background and Rationale

Criteria B. Need

- 5. Enrollment and Completer Projections
- 6. Place of Program in Curriculum/Similar Programs
- 7. Similar Programs at Other Colleges in Service Area
- 8. Labor Market Information & Analysis (CTE only)
- 9. Employer Survey (CTE only)
- 10. Explanation of Employer Relationship (CTE only)
- 11. List of Members of Advisory Committee (CTE

only)

12. Recommendations of Advisory Committee (CTE only)

Attachment: Labor / Job Market Data (CTE only)

Attachment: Employer Survey (CTE only)
Attachment: Minutes of Key Meetings

Criteria C. Curriculum Standards

13. Display of Proposed Sequence

14. Transfer Applicability (if applicable)

Attachment: Outlines of Record for Required Courses Attachment: Transfer Documentation (if applicable)

Criteria D. Adequate Resources

- 15. Library and/or Learning Resources Plan
- 16. Facilities and Equipment Plan

17. Financial Support Plan

18. Faculty Qualifications and Availability

Criteria E. Compliance

- 19. Based on model curriculum (if applicable)
- 20. Licensing or Accreditation Standards
- 21. Student Selection and Fees

SUBMIT ORIGINAL AND ONE COPY OF THIS FORM AND ALL ATTACHMENTS

Criteria A. Appropriateness to Mission

1) Statement of Goals and Objectives:

Part of Santa Monica College's mission is to provide high quality associate degrees. Our proposal is for the Mathematics Department to offer an associate degree for the first time in its eighty-one year history. This associate degree would fulfill the lower division mathematics course requirements for students wanting to transfer and complete either a Bachelor of Arts or Bachelor of Science degree in mathematics, physics, engineering, or computer science for both the University of California and California State University systems. A successful candidate would have certified competencies in Differential Calculus and Integration and Infinite Series, Calculus of Several Variables, and Linear Algebra.

The specific knowledge base obtained by the student would be in the following topics:

- a) Limits, continuity, and derivatives and integrals of algebraic and trigonometric functions, with mathematical and physical applications.
- b) Derivatives and integrals of transcendental functions with mathematical and physical applications, indeterminate forms and improper integrals, infinite sequences and series, and curves, including conic sections, described by parametric equations and polar coordinates.
- c) Vectors and analytic geometry in two and three dimensions, vector functions with applications, partial derivatives, extrema, Lagrange multipliers, multiple integrals with applications, vector fields, Green's Theorem, Divergence Theorem, and Stokes' Theorem.
- d) Matrices and linear transformations; abstract vector spaces and subspaces; linear independence and bases; determinants; systems of linear equations; eigenvalues and eigenvectors.

With this background, the student will not only have the prerequisite mathematical knowledge to successfully complete any university upper division math, science, or engineering course but will also have the skill set necessary to be an instructional assistant, tutor, or supplemental instruction leader at any college or university. The degree itself will also make the student more attractive to university admission committees, as well as give him/her an advantage over other undergraduate students applying for internships.

2) Catalog Description

Upon successful completion of Santa Monica College's A. S. in Mathematics, the student will have demonstrated an understanding of Calculus of one and several variables, Linear Algebra as well as other applied math courses and courses from other disciplines that utilize mathematics in their content. This course work will satisfy the lower division mathematics requirements at many institutions at both the University of California and the California State University systems. This degree is intended for students who are interested in the theory of mathematics and are planning on transferring to a four year university and majoring in Mathematics, Physics, Engineering, or Computer Science.

3) New Program Requirements (60 Units)

A.S. in Mathematics for Transfer (21 units required)

Math 7: Calculus 1 (5 units) Math 8: Calculus 2 (5 units)

Math 11: Multivariable Calculus (5 units)

Math 13: Linear Algebra (3 units)

Choose at least one course (3 units minimum):

Math 10: Discrete Structures (3 units) (strongly recommended)

Math 15: Ordinary Differential Equations (3 units) (strongly recommended)

CS 10 : Discrete Structures (3 units)

Physics 8: General Physics with Calculus (4 units)

Physics 21: Mechanics with Lab (5 units)

The Associate of Science Degree in Mathematics requires the 21 units described above as the major. In addition, the student must complete general education requirements and additional electives to total 60 units.

Effective Spring 2010, to complete the A.S. degree students can choose to complete the local GE requirements or the IGETC or CSUGE patterns. Students intending to transfer are advised to follow the IGETC or CSUGE pattern.

4) Discussion of background and rationale

As we become a more technology-based society, mathematics has taken center stage in education. The need for math, science, and engineering majors has grown exponentially; yet the supply is lagging far behind. One reason for this is a severe shortage of students who have a solid mathematical background. Students feeling insecure about their lower division mathematics will most likely not pursue a baccalaureate degree in math, science, or engineering. Here at Santa Monica College, we have assembled a premier mathematics department and staff with a reputation for teaching students in a challenging but supportive environment. Not only will students completing our proposed A.S. degree in mathematics be able to compete at any university to which they transfer, but the first-class education obtained here at our college will enable them to become leaders in their fields. Such a rigorous background in any discipline deserves the honor that degree recognition bestows.

Criteria B. Need

5) Enrollment and Completer Projections

Number of course sections offered during the 2009 – 2010 school year (Fall 2009, Winter 2010, Spring 2010, Summer 2010):

- o Math 7: Calculus 1 (5 units) 32 sections offered with 45 students per section
- o Math 8: Calculus 2 (5 units) 19 sections offered with 45 students per section
- o Math 11: Multivariable Calculus (5 units) 9 sections offered with 45 students per section
- o Math 13: Linear Algebra (3 units) 4 sections offered with 45 students per section

Using the above numbers we expect that we will have twenty program completers the first year, around twenty-five in the second year, and may increase to as many as 35-40 in five years.

6) Place of Program in Curriculum/Similar Programs:

A similar program that is offered at Santa Monica College is our General Science Degree. However, the proposed Associate of Science degree is aimed more specifically at those students who will be majoring in Mathematics, Engineering, and Computer Science. Because these courses are shared with other programs it insures that the courses necessary to complete the degrees will consistently be offered. These courses also fulfill the transfer needs of a large and diverse pool of students outside of the targeted group. The only enrollment change that we

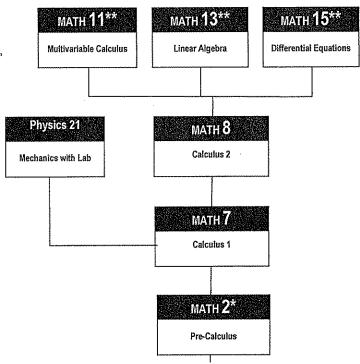
foresee is a larger demand in our higher level mathematics courses. We anticipate with the new degree available our enrollment in Linear Algebra and Ordinary Differential Equations should increase.

7) Some other Community Colleges that offer an Associate in Mathematics – The following community colleges all offer an A.S, A.A or both in Mathematics: Los Angeles Community College, El Camino College, Fullerton College, Foothill College, Diablo Canyon College, Santa Barbara College, Santa Ana College, Cerritos College, San Diego City College. However, since the need for math and science is increasing our new offering of this degree should in no way negatively impact the programs of the surrounding colleges.

Criteria C. Curriculum Standards

13) Display of Proposed Sequence **These courses may be taken in any

order after completion of Math 8; however, students are advised to complete Math 11 and Math 15 before enrolling in Math 13.



*Sequence to Math 2

Students preparing for Math 2 need both Math 20 and Math 32. The courses may be taken in any order or concurrently. Alternatively a student may complete Math 26 and Math 32 in any order or concurrently.

14) Transfer Applicability

The Santa Monica College Associate of Science Degree in Mathematics fulfills the common core of lower division math requirements for math, science, and engineering majors wanting to transfer to any California State University or University of California campus.

Attached: course outlines of record Attached: Transfer Documentation