I.

CATAL	OG INFORMATION						
A.	Discipline: GAME DESIGN						
B.	Subject Code and Number: GAME M110						
C.	Course Title: Game Theory and Mechanics						
D.	Credit Course units:						
	Units: 3						
	Lecture Hours per week: 2						
	Lab Hours per week: 3						
	Variable Units : No						
E.	Student Learning Hours:						
	Lecture Hours:						
	Classroom hours: 35 - 35						
	Laboratory/Activity Hours:						
	Laboratory/Activity Hours 52.5 - 52.5						
	Total Combined Hours in a 17.5 week term: 87.5 - 87.5						
F.	Non-Credit Course hours per week						
G.	May be taken a total of: X 1 2 3 4 time(s) for credit						
H.	Is the course co-designated (same as) another course: No X Yes If YES, designate course Subject Code & Number:						
I.	Course Description:						
	Covers the "rules of play" for game design. Applies the principles of theory and mechanics, as well as contemporary design techniques within the domain of analog game design.						
J.	Entrance Skills						
	*Prerequisite: No Yes X Course(s) GAME M101						
	*Corequisite: No X Yes Course(s)						
	Limitation on Enrollment: No X Yes						
	Recommended Preparation: No Yes X Course(s) MM M10						
	Other: No X Yes						

Other Catalog Information:

K.

II. COURSE OBJECTIVES

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

		Methods of evaluation will be consistent with, but not limited by, the following types or examples.
1	identify and define the basics of game theory as applied to game design.	essays, quizzes, presentations, and critique using program rubric
2	identify and define the basics of game mechanics.	essays, quizzes, presentations, and critique using program rubric
3	employ game mechanics and theory to design, schedule, and construct completed playable analog games.	essays, quizzes, presentations, and critique using program rubric
4	assess digital games and interpret them in analog form.	essays, quizzes, presentations, and critique using program rubric
5	analyze analog and digital games and recognize how they utilized game mechanics and theory.	essays, quizzes, presentations, and critique using program rubric
6	solve common game design issues by employing the appropriate game mechanics and theory.	essays, quizzes, presentations, and critique using program rubric

III. COURSE CONTENT

Estimated %	Topic	Learning Outcomes
Lecture (must tot	al 100%)	
5.00%	Puzzle Design: - Puzzle types and characteristics - Level design in puzzles	1, 2, 3, 4, 5, 6
5.00%	Defining Game Design: - What game design is and is not - Meaningful play - Types of design - Terms in game design - Iterative design	1, 2, 3, 4, 5, 6

	- Ideation	
10.00%	Dissecting Game Design: - Game states - Game views - Players - Avatars - Mechanics - Dynamics - Theme	1, 2, 3, 4, 5, 6
5.00%	Chance and Skill: - The role of chance in games - Mechanics of chance - Balancing probability	1, 2, 3, 4, 5, 6
5.00%	Elements of "Strategic" Skill: - The role of skill in games - Types of decisions - Frequency or anticipation of decisions - Strategy and tactics - Mechanics of skill - Strategic evaluation	1, 2, 3, 4, 5, 6
5.00%	Elements of "Twitch" Skill: - Twitch decision-making - Twitch mechanics	1, 2, 3, 4, 5, 6
5.00%	Balancing Chance and Skill: - Target audience - Play Testing for luck and skill - Exchanging luck and skill - Combining luck and skill	1, 2, 3, 4, 5, 6
20.00%	Game Genres: - Casual games - Serious games - Social Games - Art games - Puzzle games - Card games, etc.	1, 2, 3, 4, 5, 6
5.00%	Narrative Games: - Writer/designers - Story arcs - Narratology and ludology - Types of stories in games - Storytelling methods - Setting and character - Story mechanics	1, 2, 3, 4, 5, 6
5.00%	Adding and Subtracting Mechanics	1, 2, 3, 4, 5, 6
5.00%	Cybernetic Systems and Feedback: - Systems adjustment - Positive and negative feedback	1, 2, 3, 4, 5, 6
5.00%	Multiplayer Mechanics: - Types of multiplayer games - Issues in multiplayer game design	1, 2, 3, 4, 5, 6
	Theory Systems: - Decision trees - Rationality	

10.00%	- Strategies - Exploits - Payoff matrixes - Saddle points - Zero and non-zero sum	1, 2, 3, 4, 5, 6
10.00%	Defining The "Magic Circle": - Games as cultural rhetoric - Games as open culture - Games as cultural resistance - Games as cultural environment	1, 2, 3, 4, 5, 6
Lab (must total 10	00%)	
50.00%	Discussion of game mechanics and theory	1, 2, 3, 4, 5, 6
20.00%	Hands-on creation of analog games	1, 2, 3, 4, 5, 6
20.00%	Exercises related to course content	1, 2, 3, 4, 5, 6
10.00%	Critiques related to projects	1, 2, 3, 4, 5, 6

IV. TYPICAL ASSIGNMENTS

A. Writing assignments

Writ	Writing assignments are required. Possible assignments may include, but are not limited to:				
1	write critiques of existing games.				
2	play games and evaluate what mechanics and theories were utilized within the game design.				
3	create a game design brief which incorporates definitions and examples from lecture and textbook.				
4	write critiques and post-mortems on games created in class.				

B. Appropriate outside assignments

Appropriate outside assignments are required. Possible assignments may include, but are not limited to:					
1	playtest games and game rules.				
2	research commercial games in regards to their game mechanics and theories.				
3	participate in optional field trips.				
4	produce at least one project towards a portfolio during the course of the semester.				

C. Critical thinking assignments

	Critical thinking assignments are required. Possible assignments may include, but are not limited to:					
1	compose gameplay critiques.					
2	compare and contrast students' work.					
3	analyze students' work in the context of game mechanics and theory.					
4	schedule and plan for game design production.					

V. METHODS OF INSTRUCTION

	Methods of instruction may include, but are not limited to:						
	X Distance Education – When any portion of class contact hours is replaced by distance education delivery mode (Complete DE Addendum, Section XV)						
	X Lecture/Discussion						
	X Laboratory/Activity						
	Other (Specify) Group work, one-on-one instruction, handouts and written tutorials providing step-by-step project guidelines.						
	Optional Field Trips						
	Required Field Trips						
VI.	METHODS OF EVALUATION Methods of evaluation may include, but are not limited to:						
	X Essay Exam X Classroom X Skill Demonstration						
	Discussion X Problem Solving X Reports/Papers/ X Participation						
	Exam Journals						
	X Objective Exams X Projects X Other (specify)						
	Detailed project guidelines and Game Design Program rubric.						
VII.	REPRESENTATIVE TEXTS AND OTHER COURSE MATERIALS						
	Fullerton, Tracy. <u>Game Design Workshop: A Playcentric Approach to Creating Innovative Games</u> . 3rd ed. A K Peters/CRC, 2014.						
	Salen, Katie, and Eric Zimmerman. Rules of Play: Game Design Fundamentals. MIT, 2003.						
	Adams, Ernest, and Joris Dormans. <u>Game Mechanics: Advanced Game Design</u> . New Riders, 2012.						
	Burgun, Keith. <u>Game Design Theory: A New Philosophy for Understanding Games</u> . A K Peters/CRC, 2012.						
	Rouse III, Richard. <u>Game Design: Theory and Practice</u> . 2nd ed. Jones & Bartlett Learning, 2004.						
	Brathwaite, Brenda, and Ian Schreiber. <u>Challenges for Game Designers</u> . Charles River Media, 2008.						
VIII.	STUDENT MATERIALS FEES						
	X No Yes						

XI.

PARALLEL COURSES IX.

College	Course Number	Course Title	Units
no comparable			
course found at a CCC, CSU or UC			

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Χ.	IVII	INII	vi u	IVI	wu	ΑL	JE I	LΑ	TIO	N.O

CCC, C	SU or UC					
MINIM	UM QUALIFICATIO	NS				
Any ba	es in Disciplines in whechelor's degree and two ence in Game Design.	_	-		d six years of	
ARTIC A.	ULATION INFORM Title V Course Clar 1. This course		taken either:			
	=	o Pass only (no le grade (P/NP possi		•		
	2. Degree statu Either X A Applicable	is: Associate Degree	Applicable; or	r 🔲 Non-as	ssociate De	gree
B.	General Edu	mmend this cours	e for inclusior	on the Ass	ociate Degr	·ee
	A2 - Natu B1 - Soc B2 - Soc C1 - Hun C2 - Hun D1 - Lan D2 - Lan Thinking E1 - Hea	ural Sciences - Bioural Sciences - Philal Sciences - Philal and Behavioral all and Behavioral anities - Fine or Inanities - Other Higuage and Ration guage and Ration alth/Physical Education Dance c/Gender Studies	ysical Science Sciences - A Sciences - O Performing Ar umanities ality - English ality - Commu	e merican His other Social ts Compositio	Behavioral on	Science
C.	California State Ur	iversity(CSU) Art	culation:			
	1. Do you reco	mmend this cours	e for transfer	credit to CS	U? Yes:	X No:
	Education lis	u recommend this \overline{X} If YES, which		clusion on t	he CSU Ge	neral
	A1	.2	B1 🗌	B2 🗌	В3	B4 🗌
	C1	2 D1 D	D2 🗌	D3 🗌	D4 🗌	D5

8. create a specification document that analyzes the audience and sets minimum hardware and software requirements.

interfaces, navigation, performance, play, artistry, and longevity in

7. test and analyze games to determine the quality of rules,

9. create basic prototypes of game ideas.

design and structure.

10. evaluate selected commercial game designs, addressing game design and theory, social content, historical significance, and artistic technique.

B. Standard Prerequisite or Corequisite required by universities.
C. Corequisite is linked to companion lecture course.
D. Prerequisite or Corequisite is authorized by legal statute or regulation. Code Section:
E. Prerequisite or Corequisite is necessary to protect the students' health and safety.
F. Computation or communication skill is needed.
G. Performance courses: Audition, portfolio, tryouts, etc. needed.

XIV. WORKPLACE PREPARATION

Required for career technical courses only. A career technical course/program is one with the primary goal to prepare students for employment immediately upon course/program completion, and/or upgrading employment skills.

Detail how the course meets the Secretary of Labors Commission on the Achievement of Necessary Skills (SCANS) areas. (For a description of the competencies and skills with a listing of what students should be able to do, go to:

http://www.ncrel.org/sdrs/areas/issues/methods/assment/as7scans.htm)

The course will address the SCANS competency areas:

- 1. Resources: the students will learn to set goals and time manage those goals to completion; learn what is required in a game design production so that they can plan to allocate resources.
- 2. Interpersonal: the students will instruct each other about those areas in which they are proficient and assess each other's skills in order to collaborate.
- 3. Information: the students will organize, interpret and communicate information acquired about game design technologies.
- 4. Systems: the students will understand the systems, and monitor and correct performance.
- 5. Technology: the students will choose visual technologies and perform proper procedures in the design production process.

The course also addresses the SCANS skills and personal qualities:

- 1. Basic Skills: the students will read and write documents, read textbooks, and listen and speak clearly.
- 2. Thinking Skills: the students will generate creative ideas, make decisions, and reason through and solve problems.
- 3. Personal Qualities: the students will be responsible, sociable, self-disciplined, honest, and will maintain integrity.

XV. DISTANCE LEARNING COURSE OUTLINE ADDENDUM

online, but examinations and an orientation will be scheduled onsite)	1.	Mode of Delivery
online, but examinations and an orientation will be scheduled onsite) X Online/Hybrid (a percentage of instruction will be held online and remaining percentage of instruction will be held onsite) Lab activities will be conducted onsite Televideo (Examinations and an orientation will be held onsite) Teleconference		X Online (course will be delivered 100% online)
remaining percentage of instruction will be held onsite) Lab activities will be conducted onsite Televideo (Examinations and an orientation will be held onsite) Teleconference		X Online with onsite examinations (100% of the instruction will occur online, but examinations and an orientation will be scheduled onsite)
Teleconference		, <u> </u>
		Televideo (Examinations and an orientation will be held onsite)
Other		Teleconference
		Other

2. Need/Justification

Improve general student access.

3. Describe how instructors teaching this course will ensure regular, effective contact with and among students.

The instructor will communicate with students through the course management system, using both synchronous tools (such as chat) and asynchronous tools (such as email and discussions).

Email is a tool primarily used for course-wide updates and individual student contact. Students and the instructor can privately contact each other with questions, concerns, etc. Discussion Forums will be used to disseminate course-wide information and facilitate ongoing collaborative course work. Students may also use the Discussion Forums to solicit help from the instructor and other students. Discussions may also be graded encouraging students to participate in the class. The Calendar and Announcement tools will be used to keep students informed of important events, deadlines, etc. Additional collaborative learning involves using software that allows students and the instructor to collaborate in real-time. These sessions may also be recorded and archived so that students who were not able to participate can also benefit from them. The instructor may talk with individual students or with student groups. Students may also collaborate with each other without the instructor.

4. Describe how instructors teaching this course will involve students in active learning.

All course materials will be available online. Students will be able to download files and view them offline. Instructor may also provide course content within the

course management system as well as provide links to supplemental publications, articles, and websites.

Quizzes may be issued (using a course-specific timeline) in which students will be tested on their knowledge of the material. Assignments may include exercises through which students explore course concepts using a textbook and/or additional research. Students can submit their assignments online and get feedback from the instructor and/or other students as determined per assignment. This can be an iterative process in that students can receive feedback and then be able to improve their submittal if necessary. Email is a tool primarily used for course-wide updates and individual student contact. Students and the instructor can privately contact each other with questions, concerns, etc. Discussion Forums will be used to disseminate course-wide information and facilitate ongoing collaborative course work. Students may also use the Discussion Forums to solicit help from the instructor and other students. Discussions may also be graded encouraging students to participate in the class. Additional collaborative learning involves using software that allows students and the instructor to collaborate in real-time. These sessions may also be recorded and archived so that students who were not able to participate can also benefit from them. The instructor may talk with individual students or with student groups. Students may also collaborate with each other without the instructor.

5. Explain how instructors teaching this course will provide multiple methods of content representation.

The instructor can provide text, presentation slides, audio/visual material, assignment examples, tutorials (which may be live or recorded), and links to supplemental publications, articles, and websites.

6. Describe how instructors teaching this course will evaluate student performance.

Student evaluation will occur via standard techniques such as exercises, projects, quizzes, and a program rubric. The online environment will allow the exercises and projects to be iterative so that students may submit their work online and receive feedback from the instructor. The instructor can then communicate critique and/or solutions to students by posting them online. Additionally, graded discussions can be used to provide additional means of assessment.

XVI. GENERAL EDUCATION COURSE OUTLINE ADDENDUM

GAME M110: Not Applicable

XVII. STUDENT MATERIALS FEE ADDENDUM

GAME M110: Not Applicable

XVIII. REPEATABILITY JUSTIFICATION TITLE 5, SECTION 55041

GAME M110: Not Applicable

XIX. CURRICULUM APPROVAL

Course Information:

Discipline: GAME DESIGN

Discipline Code and Number: GAME M110

Course Revision Category: New Course

Course Proposed By:

Originating Faculty Tim Samoff 06/18/2015

Faculty Peer: Svetlana Kasalovic 07/14/2015

Curriculum Rep: Tim Samoff 06/18/2015

Department Chair: Lydia Etman 06/30/2015

Division Dean: Lisa Putnam 08/09/2015

Approved By:

Curriculum Chair: Jerry Mansfield 09/03/2015

Executive Vice President: Lori Bennett 10/21/2015

Articulation Officer: Letrisha Mai 08/19/2015

Librarian: Mary LaBarge 08/19/2015

Implementation Term and Year: Fall 2016

Approval Dates:

Approved by Moorpark College Curriculum Committee: 09/01/2015

Approved by Board of Trustees (if applicable): 10/13/2015

Approved by State (if applicable): 11/17/2015