PRINCIPLES OF 2D ANIMATION

INSTRUCTOR: Chelsea Cantrell	CLASS LOCATION: NRG 0120
SEMESTER/YEAR: FALL 2018	CLASS MEETING TIME(S): T, P 7; TR, P 7 - 8
Office location/Hours: TBD	Contact phone: (352) 294-2000
Credit Hours: 3.0	COURSE NUMBER: DIG3313C
CONTACT EMAIL: Canvas	COURSE COMMUNICATION: UF E-LEARNING

COURSE DESCRIPTION

This course is designed to instill an understanding of animation principles and produce quality 2D Digital animations implementing these principles and exploring various techniques. During the course of the semester the students will be assigned 12 weekly projects and two group-based projects focused on principles that utilize key aspects of the required software. For the final project each student will create an animated film, 15-30 seconds in length, through which they will learn the production process of animation including writing a treatment, storyboarding, timing through animatics and final rendered animations.

PREREQUISITE KNOWLEDGE AND SKILLS

DAS major or instructor permission

PURPOSE OF COURSE

To introduce students to the animation as an art form; implementing a firm understanding of timing, animation principles and the scope of techniques animation can cover. The students will learn industry standard practices in applied creativity.

COURSE GOALS AND/OR OBJECTIVES:

By the end of this course, students will be able to:

- 1. Identify and apply the 12 Animation Principles
- 2. Have an understanding of timing and motion through key-frames, holds and in-betweens
- 3. Relate knowledge of various animation history and techniques
- 4. Describe characteristics of well-designed and executed animation
- 5. Demonstrate skills in the use of industry standard tools.

COURSE SCHEDULE:

The final exam time scheduled for this course will be announced in advance of each semester by the University of Florida Registrar's Office at http://www.registrar.ufl.edu/soc/

Week	Topic	Assignments/Quizzes
1	Course Objectives	Read: The Animator's
	History of Animation	Survival Kit pgs 11-34
	Persistence of Vision	

	 Early Animation Devices Principles of Animation Key-frames In-betweens Cycles Morphing 1 	Assign 1: (2) Digital Flipbooks (Morphing, Action/Event) Upload an Image of your Choice for the Morphing
	PS: Overview, Animation Timeline	Group Project
2	Review: morphing Principles of Animation Timing and Spacing Charts Squash and Stretch Morphing2 PS: Brushes, Demonstration of using a timing sheet for the bouncing ball AE: Overview of Interface, Composition Settings, Creating Layers, Shapes	Read: The Animator's Survival Kit pgs 35-69, 256-272 Assign 2: (2) Bouncing Balls (Ping-Pong, bowling, beach ball, etc- no personality- 5 seconds) Group Assign 1: Morphing (Due wk4) DUE: Proj 1: (2) Digital
2	Pavious Pauseing Palls (Online)	Flipbooks (Morphing, Event Cycle) Image for Morph Project
3	Review: Bouncing Balls (Online) Principles of Animation Slow In, Slow Out Squash and Stretch Timing Anticipation Visual Rhythm Transitions AE: Basic Animation- Key-framing (position/scale/rotation/opacity), Anchor Point, Creating Shapes, Motion Paths, using Markers, Importing Audio	Read: The Animator's Survival Kit pgs 84-101 Assign 3: Bringing Shapes to Life (shape animation with personality) DUE: Proj 2: (2) Bouncing Balls (ping-pong, bowling, beachball, etc- no personality- 5 seconds)
4	Review: Bringing Shapes to Life (Online) Walk Cycle Walk and Run Overlapping Action Attitude Rotoscope Technique Cycles, Locomotion	Read: The Animator's Survival Kit pgs 102- 163 Assign 4: Walk Cycle

	PS: Review of Brushes, Breakdown of Character Design for Puppet	Group Assign 2: Rotoscope reference footage (Due wk8) DUE:
		Proj 3: Bringing
		Shapes to Life Group Proj 1: Morphing
5	Review: Walk Cycle (online)	Read: The Animator's
	Screen: Morphing Assignment	Survival Kit pgs 164-216
	Character Sketch Exercise	Assign 5: Puppet
	What Makes a Character? Principles of Animation	Character Design
	• Staging	DUE:
	Solid Drawing Anneal	Proj 4: Walk Cycle
	Appeal Character Design-Puppet	
	Reference	
	PersonalityVisual Contrast	
	Replacement Parts	
	PS: Creating a Character Ready For Animation	
	AE: Introduction to 3D Space, Camera (demo of animated character on a simple BG)	
6	Review of Character Designs (online)	Read: The Animator's Survival Kit pgs 217-255
	Concepts of DesignComposition of a scene	Assign 6: Character
	Color Design	Encountering and
	Value	Obstacle (note: create
	FG, MG, BG elements Shot Composition Principles	simple BG, use at least 2 shots)
	AE: Setting up a Simple 3D Environment, Precomping (character),	DUE:
	Animating the Camera, Cutting Between Cameras	Proj 5 : Puppet Character Design
7	Review: Character Encountering Obstacle (online)	Read: The Animator's Survival Kit pgs 297-326
	Replacement Animation	
	Lip Sync Ston Motion	Assign 7: Lip Sync Animation (to audio clip
	Stop Motion	of your choice- articulate
	AE: Demonstration of Replacement Lip Sync Animation, Working with	body language)
	Sound, Using Audio Cues	DUE:

		Assign 6: Character
		Assign 6: Character Encountering Obstacle
	Review: Lip Sync Animation (online)	Read: The Animator's
8	Review. Lip Sync Animation (online)	Survival Kit pgs 273-296
	Poetry, Music and Animation	Survivar Kit pgs 273-290
	Creating a mood	Assign 8: Animation that
	Visual Abstraction	Expresses Mood/Emotion
	Overview of Text	(movement, color,
	• Overview of Text	texture)
	AE: Toyt Tools Animation Process Overview Pland mades Macking	texture
	AE: Text Tools + Animation, Presets Overview, Blend modes, Masking and Track Mattes Intro	
	and mack wattes into	DUE:
		Assign 7:Lip Sync
		Animation
		Group Proj 2: Rotoscope
		Group 110, 2. Notoscope
9	Review: Animation Expressing Mood/Emotion (online)	Read: The Animator's
		Survival Kit pgs 327-339
	Writing a Treatment	. 5
	Story vs Theme	Assign 9: Write a
	Visual Techniques for Theme/Story	Treatment for the Final
	Creating a mood	Project w/ Style
	Color, Texture, Composition	frames/Character Sketch
	, , , ,	
	AE: Color Correction, Lights	DUE:
	AUDACITY: Introduction to sound software	Proj 8: Animation that
		Expresses Mood/Emotion
10	Review: Treatment (in-class presentation?)	Read: The Animator's
		Survival Kit pgs 70-83
	Storyboarding	
	Shot Composition	Assign 10: Storyboards
	Directing the Audience	
	Transitions	DUE:
		Proj 9: Treatment w/ Style
	PS: Demonstration of storyboard setup in Photoshop	frames/Character Sketch
	AUDACITY: Sound instruction cont.	
11	Work on Storyboards Review: Storyboards (In-class presentation?)	Assign 11: Animatic
11	neview. Storyboards (in class presentation:)	Augusti Amiliatio
	Creating an Animatic	DUE:
		Proj 10: Storyboards
	AE: Show how to import storyboards and edit an animatic (sequencing	
	and trimming layers)	
12	NO CLASS: Tues, Nov 11	Assign 12: Animatic with
		Sound and Progress on
	Review: Animatic	Final Project
		Design/Animation
	Sound for Animation	
	Recording SoundFX	DUE:

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	AUDACITY: Sound Importing, Import Animatic, Sound Editing	Proj 11: Animatic
13	Review: Animatic w/ Sound	FINAL PROJECT
	Work on Final Project	
14	NO CLASS: Thurs, Nov 27	FINAL PROJECT
	Review: Final Project Progress	DUE: FINAL PROJECT PROGRESS
	Work on Final project	
15	Review: Final Project Progress	FINAL PROJECT
	Work on Final project	DUE: FINAL PROJECT PROGRESS

REQUIRED TEXTBOOKS AND SOFTWARE:

- 1. Richard Williams, "The Animator's Survival Kit"
- 2. Lynda.com (FREE access to UF students)
- 3. Adobe After Effects CC
- 4. Adobe Photoshop CC
- 5. Two-Monitor setup for software instruction (OLINE students only)

RECOMMENDED MATERIALS:

- 1. Eadweard Muybridge, "The Human Figure in Motion"
- 2. Intuos Pen tablet (or similar)

COURSE FEES:

Course fees are assessed for certain courses to offset the cost of materials or supply items consumed in the course of instruction. A list of <u>approved courses and fees</u> is published in the Schedule of Courses each semester. (UF-3.0374 Regulations of the University of Florida).

Material and supply and equipment use fee information is available from the academic departments or from the schedule of courses (Florida Statutes 1009.24). The total course fee for this class **is** \$12.26

The total course fee for each course is listed on the UF Schedule of Courses. (https://registrar.ufl.edu/soc/).

EVALUATION OF GRADES

Assignment	Total Points	Percentage of Grade
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Attendance and Participation – Students are expected to actively participate in class discussions, both in class as well as in class online forums outside class meetings.	20%
ASSIGNMENTS – Weekly Assignments including individual and group projects.	50%
QUIZZES – A series of quizzes will be held during the semester to reinforce learning.	10%
FINAL PROJECT — It is expected that in this final project, students employ the principles and techniques they have learned during the semester.	20%

GRADING SCALE:

Letter Grade	% Equivalency	GPA Equivalency
Α	94 – 100%	4.0
A-	90 – 93%	3.67
B+	87 – 89%	3.33
В	84 – 86%	3.00
B-	80 – 83%	2.67
C+	77 – 79%	2.33
С	74 – 76%	2.00
C-	70 – 73%	1.67
D+	67 – 69%	1.33
D	64 – 66%	1.00
D-	60 – 63%	.67
E, I, NG, S-	0 – 59%	0.00
U, WF		

More information on grades and grading policies is here: https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

COURSE POLICIES:

PARTICIPATION / ATTENDANCE

We value participation more than mere attendance. Each Instructor is responsible for communicating the specific details of what percentage of your grade (if any) will be assigned to participation, and how class participation will be measured and graded.

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx

MAKE-UP POLICY

- a. At the sole discretion of the instructor, Exams may or may not be taken late. Documented Emergencies or medical situations may be the only accepted reasons for an excused absence on the day of an exam.
- b. Any assignment turned in past the due date may lose up to 10% of the total point value of the assignment for each class day it is late.

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx

COURSE TECHNOLOGY

The University of Florida and Digital Worlds requires that students have access to and on-going use of a laptop/mobile computer for DIG courses in order to be able to function in the current learning environment. Students are required to access electronic forms of information, submit assignments and communicate with other students and faculty electronically. DW requires each student's mobile computer to meet certain minimum specs for heavy graphics use, the requirements documented below must be met.

DW Computer Requirements

http://digitalworlds.ufl.edu/programs/ba-in-digital-arts-sciences/new-student-buyers-guide/

COURSE COMMUNICATIONS

Students can communicate directly with the Instructor regarding the course material through UF e-Learning. http://elearning.ufl.edu/

COURSE TECHNOLOGY SUPPORT:

The <u>Technology Support Center</u> provides computer support for Digital Worlds students who access Visimeet, lecture recordings, student equipment, facilities and other technology-based resources. http://digitalworlds.ufl.edu/support

For computer assistance related to Visimeet, lecture recordings, student equipment, and facilities request please <u>Submit a Help Ticket</u> or email <u>support@digitalworlds.ufl.edu</u>.

For support related to account services, technical consulting, mobile device services, software services, administrative support, application support center, and learning support services, please contact the <u>UF Computer Help Desk</u> available 24 hours a day, 7 days a week at 352-392-4357 or <u>helpdesk@ufl.edu</u>.

UF POLICIES:

UNIVERSITY HONESTY POLICY

UF students are bound by The Honor Pledge that states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

CLASS DEMEANOR

Students are expected to arrive to class on time and behave in a manner that is respectful to the instructor and to fellow students. Please avoid the use of cell phones and restrict eating to outside of the classroom. Opinions held by other students should be respected in discussion, and conversations that do not contribute to the discussion should be held at minimum, if at all.

STUDENTS REQUIRING ACCOMMODATIONS

Students with disabilities requesting accommodations should first register with the <u>Disability Resource</u> <u>Center</u> (352-392-8565) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

NETIQUETTE COMMUNICATION COURTESY

All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats, more information can be found at: http://teach.ufl.edu/wp-content/uploads/2012/08/NetiquetteGuideforOnlineCourses.pdf

ONLINE COURSE EVALUATIONS

Students are expected to provide feedback on the quality of instruction in this course by completing <u>online evaluations</u>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <u>evaluation results</u>.

CAMPUS RESOURCES

HEALTH AND WELLNESS
U Matter, We Care

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If you or a friend is in distress, please contact <u>umatter@ufl.edu</u> or 352 392- 1575 so that a team member can reach out to the student.

Counseling and Wellness Center

http://www.counseling.ufl.edu/cwc/Default.aspx, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Assault Recovery Services (SARS) Student Health Care Center, 392-1161.

University Police Department, 392-1111 (or 9-1-1 for emergencies). http://www.police.ufl.edu/

ACADEMIC RESOURCES

E-learning technical support, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu. https://lss.at.ufl.edu/help.shtml.

Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling. http://www.crc.ufl.edu/

Library Support, http://cms.uflib.ufl.edu/ask. Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. http://teachingcenter.ufl.edu/

Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. http://writing.ufl.edu/writing-studio/

Student Complaints Campus:

https://www.dso.ufl.edu/documents/UF Complaints policy.pdf

On-Line Students Complaints:

http://www.distance.ufl.edu/student-complaint-process

Disclaimer: This syllabus represents the instructor's current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.