

# MM 3013 Advanced Computer Graphics

Section 10120 Tues – Thursday 8:00 – 9:50 Fall 2011

Dr. Linda Wright-Smith	Office: 102C CETES
Office Hours: e-mail--Checked twice daily Mon-Thurs 7:00-8:00am 12:00-12:30pm Fri 8:00 – 10:00am + By Appointment	Office Phone (580)581-5549 E-mail: lindas@cameron.edu URL: <a href="http://www.cameron.edu/%7Elindas/">http://www.cameron.edu/%7Elindas/</a>

## Statement of Teaching Philosophy

Students need to be actively involved in the learning process to develop new knowledge and critical thinking skills. Therefore, students will be engaged in types of learning activities that promote their own construction of knowledge.

**Course Description:** A study of artistic elements, principles and software techniques used to create advanced 2D/3D computer graphics for multimedia products. Prerequisites: MM 1013. Lecture 2 hours, laboratory 2 hours.

## COURSE OBJECTIVES:

The student will:

1. Read required texts 2. Create background images 3. Create layer effects 4. Create voice-overs 5. Create Image maps 6. Create animations 7. Create Rotoscoped images 8. Create 2D animations	9. Display knowledge of basic 3D graphics/animation terminology and concepts 10. Create different visual perspectives 11. Create Storyboards 12. Create Animation Scripts 13. Create Shot Visualization Chart	14. Create an animated story 15. Create a journal (memory book) that demonstrates comprehensive lab work and reflection
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## STUDENT LEARNING OBJECTIVES

- BS SLO 1: Communicate effectively in visual, oral, and written form.
- BS SLO 6: Select and use a variety of techniques and strategies to define and sequence multimedia content.
- BS SLO 7. Capture and edit digitized graphics, animation, audio, and video and import them into computer-based and/or web-based applications.

- BS SLO 8. Demonstrate familiarity with at least one basic and one advanced authoring program or one basic and one advanced web authoring tool.

### Required Texts and Materials

1. *Art & Design in Photoshop* by Steve Caplin
2. Carrera 3D PDF files -- In **W** drive Class Folder
3. Suggested Reading: *Visual Storytelling: The Art of Turning Good Ideas into Compelling Stories* by Brian Arnold & Brendan Eddy

### Software entry skill requirements:

Basic ability to use the following (or equivalent software): Adobe Photoshop, PowerPoint, Sound Editing, and digital photography (If you are weak in any area, use online tutorials to fill in the knowledge gap).

### Course Requirements:

Each student is required to complete lab assignments, projects and exams. The exams cannot be made up unless there is a compelling reason for not taking the exam on time.

Each student is required to complete all assignments within the time frame listed in the Course Calendar. No work will be accepted after due date!

### Withdrawals:

The last date to drop with an automatic withdrawal is 15 Nov. Students must complete the official administrative process to withdraw from a class. Failure to do so will result in the student receiving an "F."

### Administrative Withdrawal:

If, during the course of the semester, a student's class average falls below a passing grade due to inadequate participation, I may recommend the assignment of an "AW" prior to the last date for an automatic withdrawal. If a student has not logged on for a period so that thirty percent of the evaluative material (journal, discussions, labs, and exams) for the course has been missed and the drop/add period has expired, then I may recommend Administrative Withdrawal to the Chair of the Department.

Maximum Possible Points	Points You Earned
Design Analysis Paper 40 pts	
After Effects Animation 40 pts	
Weekly Journal 150 pts	
Montage 50 pts	
Afghanistan Poster (with artifacts) 200 pts	
Mini Exams (2) 200 pts	
1 minute animatic or digital story	

200 pts (to include final product plus: Storyboards, Scripts, Plot Points, Color Palette, Shot Visualization Chart)	
Comprehensive Final Exam 120 pts	

POINTS EARNED	GRADE
900 - 1000	A
800-899	B
700 - 799	C
600 - 699	D
Below 600	F

### Course Calendar:

Week	Reading Assignment/Web Search	Labs	Projects Due	Mini Exam
1	Critiquing Digital Images.doc Caplin: Principles of Design	Automate Task.doc Caplin: Your Choice		
2	Caplin: Typography What is Flash	Caplin:Your Choice Basic Flash		
3	Caplin: Contemporary Design What is After Effects	Create AfterEffects Project	Digital Story: Color Palette	
4	Caplin: Poster Design Character Animation	Caplin:Your Choice	Digital Story: Plot Points	
5	Carrara PDF: Overview Rotoscoping Caplin: Great Works of Art	Explore Carrara Caplin: Your Choice	Montage	
6	Carrara PDF: Lights Rotoscoping	Explore Carrara	Shot Visualization Chart	
7	Carrara PDF: Cameras Flash 3D	Flash 3D	Design Analysis	
8	Carrara PDF: Vertex Modeling Caplin: Works on Paper	Create a 3D Box Caplin:Your Choice	Poster Thumbnails	One
9	Carrara PDF: Spline Modeling Visual Effects In After Effects	Create a Gazebo	Storyboards	
10	Working with Sound Caplin: Books & Magazines	Sound Editing	Digital Story: Scripts	
11	Caplin: Packaging	Caplin:Your Choice	Animatic: Sound	
12	Caplin: Other Business		After Effects Animation	
13			Afqan Poster and	Two

			Artifacts	
14				
15			Digital Story and Artifacts	
16	COMPREHENSIVE EXAM			

**Extra Credit:**

There will be no opportunity to do extra credit. Put your efforts in getting your assigned work done on time. Your memory books must show critical reflection on the weekly topics and contain notations that help you use the software effectively.

**EXAMS & GRADE POSTINGS:**

All "Mini Exams" will be on a Thursday and you will see your grade and take part in a review the following Tuesday.

Email Account: You MUST use your Cameron email address for all official Cameron University correspondence. You can logon at <https://owa.cameron.edu/owa/auth/logon.aspx?> The password and user name is case sensitive. It must be in lower case.

It is the policy of Cameron University to accommodate students with disabilities, pursuant to federal and state law. Students with disabilities who need classroom accommodations must make their requests by contacting the Office of Student Development at (580) 581-2209, North Shepler Room 314.

Feel free to e-mail me if you have questions or issues concerning the class.

**Common Syllabi**

[http://www.cameron.edu/uploads/e6/13/e61364bd6bd45c74fdc5bc420a111969/Common\\_syllabus\\_Fall\\_2011\\_16Week.pdf](http://www.cameron.edu/uploads/e6/13/e61364bd6bd45c74fdc5bc420a111969/Common_syllabus_Fall_2011_16Week.pdf)