

COURSE DISCIPLINE :ARTCOURSE NUMBER :246COURSE TITLE (FULL) :3-D Digital Character Design IICOURSE TITLE (SHORT) :3-D Digital Character Design IIACADEMIC SENATE DISCIPLINE: Art

CATALOG DESCRIPTION

ART 246 provides students with advanced instruction in digital character design using ZBrush, building on skills acquired in ART 245. At the end of the course, students will sculpt and texture a highly realistic digital character. The course is project-based and runs as a traditional art studio course, with the instructor guiding students through the stages of character creation.

CATALOG NOTES

Note: Current industry standard digital animation software (ZBrush) will be used.

Total Lecture Units: 2.00

Total Studio Units: 1.00

Total Course Units: 3.00

Total Lecture Hours:36.00

Total Studio Hours: 36.00

Total Laboratory Hours To Be Arranged: 0.00

Total Contact Hours: 72.00

Total Out-of-Class Hours: 90.00

Prerequisite: ART 245 or equivalent.



ENTRY STANDARDS

	Subject	Number	Title	Description	Include
1	ART	245	3-D Digital Character Design I	Import a polygonal mesh from another three- dimensional (3-D) program into digital	Yes
			5	sculpture software;	
2	ART	245	3-D Digital Character Design I	operate the digital sculpture software user interface;	Yes
3	ART	245	3-D Digital Character Design I	use 3-D editing tools to add sculptural and textural detail to polygonal mesh;	Yes
4	ART	245	3-D Digital Character Design I	create a displacement map;	Yes
5	ART	245	3-D Digital Character Design I	apply a displacement map to a low- resolution polygonal character.	Yes

EXIT STANDARDS

- 1 Create a photo-real character using digital sculpture software;
- 2 use the digital sculpture software toolset;
- 3 manage integration of ZBrush content into Maya.

STUDENT LEARNING OUTCOMES

- 1 Create a cinema-ready or game-ready 3-d character from imagination using digital character design tools.
- 2 Use advanced sculpture and painting tools in a 3-D character design software application

COURSE CONTENT WITH INSTRUCTIONAL HOURS

	Description	Lecture	Studio	Total Hours
1	 Project Strategy Topological analysis of character Massing Edge loops Motion Macroscopy before microscopy Masking 	4	4	8



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	Sculpture of Character			
	Torso			
	 Masking other body parts Chest Shoulders Back Abdomen Arms 			
	Unmasking arms and masking others			
2	ShoulderUpper and lower armWrist and hand	8	8	16
	Lower body			
	Unmasking lower body and masking others			
	 Midsection Upper and lower leg Foot Head 			
	Unmasking head and masking others			
	 Head and neck Face Ears 			
	Integration of Digital Sculpture Content into Maya			
3	 UV mapping Exporting content Displacement maps Textures UV maps Re-evaluating and Exporting Topology Padrawing topology in Zhruph 	4	4	8
	 Low-resolution topology Topology in terms of character set-up 			
4	Projects Emphasizing Technical and Aesthetic Development	20	20	40

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OUT OF CLASS ASSIGNMENTS

1 Projects

METHODS OF EVALUATION

- 1 Peer and instructor review
- 2 Final projects
- 3 Final examination

METHODS OF INSTRUCTION

V Lecture
Laboratory
✓ Studio
V Discussion
🗹 Multimedia
Tutorial
Independent Study
Collaboratory Learning
Demonstration
Field Activities (Trips)

- Guest Speakers
- Presentations

TEXTBOOKS

Title	Туре	Publisher	Edition	Medium	Author	IBSN	Date
Handouts							