

COURSE OUTLINE: VGA303 - TEXTURING & SHADERS

Prepared: Jeremy Rayment

Approved: Bob Chapman, Chair, Health

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Course Code: Title	VGA303: TEXTURING AND SHADERS		
Program Number: Name	4008: GAME - ART		
Department:	VIDEO GAME ART		
Semesters/Terms:	21F		
Course Description:	Textures and shaders give life to art in the game. Students will learn how to create efficient textures and shaders for game assets. Students will also learn both normal and parallax mapping techniques.		
Total Credits:	4		
Hours/Week:	4		
Total Hours:	60		
Prerequisites:	VGA203		
Corequisites:	There are no co-requisites for this course.		
Vocational Learning	·		
Outcomes (VLO's) addressed in this course:	VLO 3 Identify and relate concepts from a range of industry roles, including programing, design and art to support the development of games.		
Please refer to program web page for a complete listing of program outcomes where applicable.	VLO 4 Contribute as an individual and a member of a game development team to the effective completion of a game development project.		
	VLO 5 Develop strategies for ongoing personal and professional development to enhance work performance in the games industry.		
	VLO 6 Perform all work in compliance with relevant statutes, regulations, legislation, industry standards and codes of ethics.		
	VLO 7 Use game concepts to support the ongoing iteration, creation, design and development of games.		
	VLO 8 Apply game design elements to support the ongoing iteration and creation of unique gaming environments, levels, characters, assets and props.		
	VLO 9 Support the development of evolving and iterative game design documents that align with standard industry expectations and/or company practices.		
Essential Employability Skills (EES) addressed in this course:	EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.		
	EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.		
	EES 4 Apply a systematic approach to solve problems.		
	EES 5 Use a variety of thinking skills to anticipate and solve problems.		
	EES 6 Locate, select, organize, and document information using appropriate technology and information systems.		

In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2021-2022 academic year.



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O como Familia di anci	 EES 7 Analyze, evaluate, and apply relevant information from a variety of sources. EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others. EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals. EES 10 Manage the use of time and other resources to complete projects. EES 11 Take responsibility for ones own actions, decisions, and consequences. 		
Course Evaluation:	Passing Grade: 50%, D A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.		
Course Outcomes and Learning Objectives:	Course Outcome 1	Learning Objectives for Course Outcome 1	
	Design and produce convincing 3D game textures and shaders.	* Develop an understanding of the capabilities of various platforms and create assets that maximize platform potential. * Understand and create normal maps to be used on 3D assets. * Become familiar with tools and functions found in a game engine for creating and editing textures and shaders.	
	Course Outcome 2	Learning Objectives for Course Outcome 2	
	Design and create visual appropriate 2D game a for textures and shader	assets textures.	
	Course Outcome 3	Learning Objectives for Course Outcome 3	
	Create textures and sha for a game using a 3D of engine.	, , , , ,	
	Course Outcome 4	Learning Objectives for Course Outcome 4	
	Learn how to use and a lights in a game engine enhance game textures shaders.	e to in a game engine.	
Evaluation Process and Grading System:	Evaluation Type	Evaluation Weight	
	Assignments / Projects		
Date:	August 9, 2021		
Addendum:	Please refer to the course outline addendum on the Learning Management System for further		
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