

114-1 Full Curriculum of Da-Yeh University

Information			
Title	Introduction to Game Design	Serial No./ID	0316 /MDI2026
Required/Credit	Required /3	Time/Place	(Fri)234 /PX304
Language	Chinese	Grade Type	Number
Lecturer /Full- or Part-time	JHENG-WEI,YANG /Part-time	Graduate Class	Non-graduating Class
School System /Dept /Class, Grade	Bachelor /Bachelor Program for Multimedia Digital Content /Class 1, Grade 2		
Office Hour / Place	n.a.		
Lecturer	n.a.		

Introduction

本課程主要在協助學生了解數位遊戲設計流程與技巧，並引導學生設計製作數位遊戲，以奠定其數位遊戲設計基礎。其具體課程目標是讓學生了解Unity 3D數位遊戲的製作流程及技巧，與培養實際撰寫遊戲程式設計的能力。

Outline

- 1.Unity 3D遊戲引擎介紹
- 2.3D數位遊戲企劃製作
- 3.Unity 3D遊戲場景建置
- 4.Unity 3D遊戲程式設計
- 5.Unity 3D數位遊戲設計實作

Prerequisite

基礎程式設計，遊戲設計導論

The Relationship Between Courses and Departmental Core Competencies and Basic Skills

-  Acquire professional knowledge of multimedia digital content design
-  Acquire the technologies, skills and the capability of using modern tools for practicing multimedia digital content design
-  Acquire the capability of integrating multimedia digital content knowledge and technologies
 - Acquire the capability of finding out, analyzing and solving complex interdisciplinary multimedia design problems
 - Acquire the capability of managing project, communicating each other, respecting different viewpoints and cooperating within the team
-  Acquire the capability of lifetime learning.
 - Acquire the capability of collecting, interpreting and analyzing global multimedia industry trends, and

participating in multimedia practical design.

Acquire professional working ethics and society responsibility



Acquire the humanities and arts accomplishment, and the capability of creative thinking and innovative design.



Teaching Plan

Core Capability	Weight(%) 【A】	Ability index(Performance Indicators)	Teaching Methods	Assessment and Weight	Core Competency Learning Outcomes 【B】	Final Exam Grades 【C=B*A 】
Acquire professional knowledge of multimedia digital content design	30	Cultivate the capability of realizing multimedia digital content theory。Cultivate the capability of being familiar with multimedia digital content knowledge。Cultivate the capability of being possessed of multimedia digital content professional knowledge, including animation, comic, game design, and so on。Cultivate the capability of being possessed of multimedia digital content design quality and accomplishment, including cultural creativity, art, esthetics, and so on。	Lecturing Practical Operation (Experiment, Machine Operation	Final Exam: 100%	Total: 100	30
Acquire the technologies, skills and the capability of using modern tools for practicing multimedia digital content design	30	Cultivate the capability of being possessed of and applying multimedia digital content professional design technologies and skills。Cultivate the capability of using modern multimedia software and hardware tools。Cultivate the capability of implementing multimedia digital content system。	Lecturing Practical Operation (Experiment, Machine Operation	Homework Assignment: 100%	Total: 100	30

Acquire the capability of integrating multimedia digital content knowledge and technologies	10	Cultivate the capability of integrating theoretical knowledge and practical technology. Cultivate the capability of integrating visual communication, information technology and content management knowledge.	Lecturing Practical Operation (Experiment, Machine Operation	Course Participation: 100%	Total: 100	10
Acquire the humanities and arts accomplishment, and the capability of creative thinking and innovative design 。	15	Cultivate the capability of innovative design。 Cultivate the capability of creative thinking。 Cultivate the humanities and arts accomplishment 。	Lecturing Practical Operation (Experiment, Machine Operation	Product Manufacturing: 100%	Total: 100	15
Acquire the capability of lifetime learning 。	5	Cultivate the capability of lifetime learning by different ways。	Lecturing Practical Operation (Experiment, Machine Operation	Product Manufacturing: 100%	Total: 100	5
Acquire the capability of collecting, interpreting and analyzing global multimedia industry trends, and participating in multimedia practical design。	10	Cultivate working proficiency in career of multimedia digital content。 Cultivate the capability of great foresight and international view。 Cultivate the capability of understanding the effects of multimedia design to industries, societies, and worldwide。 Cultivate the capability of solving industry actual problem。 Cultivate the capability of realizing the global industrial issues of multimedia digital content。	Lecturing Practical Operation (Experiment, Machine Operation	Product Manufacturing: 100%	Total: 100	10

Grade Auditing

Homework Assignment: 30%

Final Exam: 30%

Product Manufacturing: 30%

Course Participation: 10%

Book Type (Respect intellectual property rights. Please use official textbooks and do not illegally photocopy others' works.)

Book Type	Book name	Author
Reference Books	Unity 3D遊戲設計實戰（第三版）	邱勇標

Lesson Plan

Weeks	Content	Teaching Methods
1	課程大綱說明與評分標準講解 & Intellectual Property Protection (use legitimate textbooks only) & Traffic safety Propaganda & Gender equality education promotion	Lecturing
2	Unity基本教學	Lecturing、 Practical Operation (Experiment, Machine Operation
3	Unity UGUI教學(Canvas & Image & Button & Toggle & 作業安排)	Lecturing、 Practical Operation (Experiment, Machine Operation
4	Unity UGUI教學(預製物 & Layout & 簡易輸出 & Input Field & Video Player動態桌布)	Lecturing、 Practical Operation (Experiment, Machine Operation
5	Unity UGUI教學(Slider & Audio Source & Event Trigger)	Lecturing、 Practical Operation (Experiment, Machine Operation
6	Unity UGUI教學(作業繳交)	Practical Operation (Experiment, Machine Operation
7	Unity3D + Fungus 應用教學(作業安排)	Lecturing、 Practical Operation (Experiment, Machine Operation
8	Unity3D + Fungus 應用教學	Lecturing、 Practical Operation (Experiment, Machine Operation
9	Unity3D + Fungus 應用教學	Lecturing、 Practical Operation (Experiment, Machine Operation
10	Unity3D + Fungus 應用教學(作業繳交)	Lecturing、 Practical Operation (Experiment, Machine Operation

11	Unity3D小遊戲製作(作業安排)	Practical Operation (Experiment, Machine Operation)
12	Unity3D小遊戲製作	Lecturing、 Practical Operation (Experiment, Machine Operation)
13	Unity3D小遊戲製作	Lecturing、 Practical Operation (Experiment, Machine Operation)
14	Unity3D小遊戲製作	Lecturing、 Practical Operation (Experiment, Machine Operation)
15	Unity3D小遊戲製作	Lecturing、 Practical Operation (Experiment, Machine Operation)
16	Unity3D小遊戲製作(作業繳交)	Practical Operation (Experiment, Machine Operation)
17	專案分享 & Flexible Teaching/Learning	Flexible Teaching - Communication and Interaction
18	專案分享 & Flexible Teaching/Learning	Flexible Teaching - Communication and Interaction