



Module Specification

Commercial Games Development

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Part 1: Information

Module title: Commercial Games Development

Module code: UFCE3F-45-3

Level: Level 6

For implementation from: 2023-24

UWE credit rating: 45

ECTS credit rating: 22.5

College: College of Arts, Technology and Environment

School: CATE School of Computing and Creative Technologies

Partner institutions: None

Field: Computer Science and Creative Technologies

Module type: Module

Pre-requisites: Game Engine Programming 2023-24, Gameplay Programming 2023-24

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: This module provides a platform for students to engage with a challenging, viable product brief, not only requiring development of a commercial entertainment product, but also the successful navigation of a range of social, ethical and commercial issues associated with a game development project.

To take this module students must have achieved either Game Engine Programming or Gameplay Programming as a pre-requisite to this module.

Features: Not applicable

Educational aims: This module aims to mimic the requirements of working in a typical game development environment, treating the whole cohort as a single studio on a shared project. In doing so the module aims to support students transitions into industry where they will be working with others on diverse projects with multiple inputs.

Software technology used in the games industry is increasingly complex, with competing, even conflicting requirements. Balancing sound software development practices with coherent and engaging game design, along with consumers expectations for increasing standards of presentation and performance is the goal.

Upon graduating, students will be expected to be able to respond to these trends and to be able to function effectively in a rapidly moving field. They will further be required to provide suitable solutions to development problems as they occur in a professional setting while maintaining awareness of relevant legal, social and ethical practice in line with the industry standards.

Outline syllabus: Core module content includes:

- Input and display devices
- Platform hardware and associated SDK use
- Camera control, collision detection, AI or procedurality
- Integration of graphic resources, animation, effects and shaders
- Audio processing, environmental audio, music and event driven effects
- Network protocols, multiplayer technology, gameplay and mechanics
- Monetisation, marketing, management, social media, funding and ethics
- Deployment testing, profiling and optimisation techniques
- File formats, game persistence, build engineering and source control
- Licensing, copyright, royalty rate and distribution

This list is not exhaustive and will dictated by the projects undertaken each year as

the technologies used evolve, consumers expectations change and students interests move forward.

Part 3: Teaching and learning methods

Teaching and learning methods: Taught material specific to key technical challenges and conceptual topics will be presented through lectures and bespoke group meetings, presentations and studio based seminars delivered by expert staff or industry professionals, with conceptual content towards the start and technical content throughout.

Support will be provided throughout the module through practical studio sessions, with a dedicated team of teaching staff taking on lead industry roles and overseeing development, which students are expected to communicate with throughout the project.

Typically, for a given target platform students will be required to work in groups, and will be presented with brief and concept at the start of the year, towards which they must formulate a pitch. Once green-lit they must design and implement a prototype of a game which, if successful, will be allowed to progress on through alpha towards beta and the final stages.

The whole group will be involved in the technical development of the game scenario and any associated gameplay mechanics. The whole group will also contribute to the presentations on the work at each stage of development.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Identify, demonstrate and execute industry appropriate production and development practice using selected tools and/or deployment platforms.

MO2 Design, implement and deploy polished, performant and accessible, commercially viable software, managing the transition from key development stages, making appropriate use of industry tools and practice.

MO3 Demonstrate in-depth understanding of core legal, social, and ethical issues whilst complying with relevant issues of ownership, quality and licensing for commercially viable software in professional game development practice.

MO4 Present and demonstrate the final product, addressing technical questions regarding implementation strategy, development practice or technical hurdles and be able to discuss the role and significance of key components

Hours to be allocated: 450

Contact hours:

Independent study/self-guided study = 330 hours

Face-to-face learning = 120 hours

Total = 450

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ufcfm4-30-3.html) via the following link <https://uwe.rl.talis.com/modules/ufcfm4-30-3.html>

Part 4: Assessment

Assessment strategy: Formative assessment:

Formative feedback is offered throughout the module, in studio, play-testing and regular presentation sessions. Staff are also on-hand to support individuals and groups weekly, discussing progress and providing progression feedback.

Summative assessment:

The final portfolio of deliverables includes a platform specific 'vertical slice' build, accompanied by appropriate supporting industry standard documentation. The portfolio also contains a personal development report for each team member, compiled throughout the module as well as a final co-authored post-mortem, critically evaluating process and progress within the project team.

The final presentation offers students the opportunity to highlight key technical aspects of their contribution to the finished product and to explain how they have considered legal, social, ethical and commercial issues in the run up to readying the product for market. They will also be assessed on how well they explain their development decisions and the alternative approaches that could have been taken.

Assessment tasks:**Portfolio (First Sit)**

Description: Students will work in small groups to complete a number of game jams to establish group work ethic and professional practice. Following these smaller scale portfolio tasks, groups will come together to work as a cohort on a larger scale game project pulling together their individual and co-operative skills to produce a single commercial game.

Weighting: 70 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3

Presentation (First Sit)

Description: Presentation offers students the opportunity to highlight key technical aspects of their contribution to the finished product and to explain how they have considered legal, social, ethical and commercial issues in the run up to readying the product for market.

Weighting: 30 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO4

Portfolio (Resit)

Description: Students will work in small groups to complete a number of game jams to establish group work ethic and professional practice. Following these smaller

scale portfolio tasks, groups will come together to work as a cohort on a larger scale game project pulling together their individual and co-operative skills to produce a single commercial game.

Weighting: 70 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3

Presentation (Resit)

Description: Presentation offers students the opportunity to highlight key technical aspects of their contribution to the finished product and to explain how they have considered legal, social, ethical and commercial issues in the run up to readying the product for market.

Weighting: 30 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO4

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Games Technology [Sep][FT][Frenchay][3yrs] BSc (Hons) 2021-22

Games Technology {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2020-21