

Module Details	
Module Title	Digital Preparation, Rotoscoping and Matte Painting
Module Code	GAV5015-B
Academic Year	2021/2
Credits	20
School	Department of Media Design and Technology
FHEQ Level	FHEQ Level 5

Contact Hours	
Type	Hours
Lectures	12
Laboratories	24
Directed Study	164
Directed Study	- Photographic capture methods and lighting, - Rotoscoping, - Digital preparation, - Digital Painting, - On Set data collection, - Multi-pass rendering, - 3D matte painting, - Depth and deep compositing, - Colour grading, - Rendering
Directed Study	Delivery will be through a series of lectures and directed reading to provide the theoretical background of visual effects techniques and technologies (LO 1.1, 1.2 1.3), and lab-based tutorials to develop practical skills (LO1.1, 1.2, 1.3, 2.1, 2.2) The remainder of the time is spent on coursework (LO3.1, 3.2). A project accompanied by a report tests all learning outcomes. Formative feedback is given through weekly tasks. The weekly tasks form a final showreel. Supplementary assessment is to repair deficiency in the original submission.

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 1

Module Aims
The module will explore the core techniques and tools of digital preparation, rotoscoping and matte painting enabling students to create seamless composites. The module will look at how to exploit and evaluate still and moving image assets in the creation of digital matte paintings, thus all students will become familiar with utilising the core requisite skills needed for digital compositing.

Outline Syllabus

- Photographic capture methods and lighting,
- Rotoscoping,
- Digital preparation,
- Digital Painting,
- On Set data collection,
- Multi-pass rendering,
- 3D matte painting,
- Depth and deep compositing,
- Colour grading,
- Rendering

Learning Outcomes

Outcome Number	Description
1.1	Apply knowledge and skills in visual effects to the management, analysis and assessment of specific complex applications, challenges and production issues.
1.2	Explain the process of creating photorealistic images from multiple sources.
1.3	Outline and evaluate the range of current post-production and visual effects techniques.
1.4	Select appropriate tools for the creation of visual effects and post-production sequences.
2.1	Create high quality photorealistic composites utilising industry-standard photographic equipment.
2.2	Use industry standard compositing software to combine still and moving image components.
3.1	Complete a brief to a deadline.
3.2	Apply knowledge of investigative and research principles to demonstrate an understanding of how to evaluate designs, processes and products.

Learning, Teaching and Assessment Strategy

Delivery will be through a series of lectures and directed reading to provide the theoretical background of visual effects techniques and technologies (LO 1.1, 1.2 1.3), and lab-based tutorials to develop practical skills (LO1.1, 1.2, 1.3, 2.1, 2.2)

The remainder of the time is spent on coursework (LO3.1, 3.2). A project accompanied by a report tests all learning outcomes.

Formative feedback is given through weekly tasks.

The weekly tasks form a final showreel.

Supplementary assessment is to repair deficiency in the original submission.

Mode of Assessment			
Type	Method	Description	Weighting
Summative	Presentation	Produce and deliver a presentation that clearly outlines the proposed approach and treatment of the brief (10 Mins)	10%
Summative	Presentation	An in-class presentation to showcase your work and discuss the production pipeline along with a video breakdown (10Mins)	20%
Summative	Coursework	A project to produce a photorealistic set of images incorporating computer generated effects	70%
Formative	Presentation	Students will present their initial ideas to module tutors for feedback and assessment. (15 mins)	N/A

Reading List
To access the reading list for this module, please visit https://bradford.rl.talis.com/index.html

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.

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