

KEY PROGRAMME INFORMATION							
Originating institution(s) Bournemouth University	Faculty responsible for the programme Faculty of Media and Communication						
Final award(s), title(s) and credits MSc Computer Animation and Visual Effects (180 credits)	dits / 90 ECTS credits Level 7)						
Intermediate award(s), title(s) and credits PG Diploma Computer Animation and Visual Effects 1. PG Cert Computer Animation and Visual Effects 60 credits							
UCAS Programme Code(s) (where applicable and if known) HECoS (Higher Education Classification of Subjects) Code and balanced or major/minor load.							
External reference points The revised UK Quality Code for Higher Education publis Expectations and practices for standards and for qua Advice and Guidance published in November 2018 QAA Subject Benchmark Statements							
 - QAA Art & Design UG Benchmarks, 2016 - QAA Computing UG Benchmarks, 2016 Creative Skillset - National Occupational Standards for Animation 2013 - The Core Skills of VFX Handbook 							
Professional, Statutory and Regulatory Body (PSR None	B) links						

Places of delivery
Rournemouth University

Bournemouth University

Mode(s) of delivery	Language of delivery
Full Time	English

Typical duration

12 months (3 Semesters)

(0 0000)	
Date of first intake September 2021	Expected start dates September
Maximum student numbers 25	Placements Masters Project (in S3) with optional placement with duration up to 3 month. It is the student's responsibility for arranging the placement, and it will need to be discussed with and approved by the course / unit leader
Partner(s) N/A	Partnership model N/A

Date of this Programme Specification

May 2023

Version number

V1.1-0924

Approval, review or modification reference numbers

E192003

EC 2021 15, approved 05/03/2021 EC 2122 65, approved 11/07/2022 FMC 2223 20, approved 21/06/2023, previously version 1.0 -0923

Author

Jon Macey

PROGRAMME STRUCTURE

Programme Award and Ti	itle: MSc	Compute	r Animat	tion and	Visual E	Effects						
Stage 1 /Level 7 Unit Name Core/ No. of Assessment Element Expected Unit HECoS Code												
Unit Name	Core/ Option	No. of Credits	Assess Weighti		ement	Expected Contact	Unit Version	(plus balanced				
			Exam Cw		Cwk 2	hours per unit	No.	or major/ minor load)				
Animation Software Engineering	Core	20	0	100	0	72	1.0	100363				
(CGI Techniques is a co- requisite for this unit)												
CGI Tools	Core	20	0	50	50	48	1.1	100363				
CGI Techniques	Core	20	0	100	0	48	1.0	100363				
(Animation Software Engineering; CGI Tools are co-requisites for this unit)												
Simulation and Rendering	Core	20	0	50	50	48	1.0	100363				
Pipeline and Technical Direction	Core	20	0	100	0	48	1.0	100363				
(Animation Software Engineering and CGI Techniques are co-requisites for this unit)												
Group Project	Core	20	0	10	90	40	1.0	100363				
(CGI Tools and Animation Software Engineering are pre-												

Progression requirements: Students are required to successfully complete 120 level 7 Credits to proceed to the MSc Project unit

Exit qualification:

requisites for this unit)

PG Cert Computer Animation and Visual Effects requires 60 credits

PG Diploma Computer Animaiton and Visual Effects requires 120 credits

Stage 2/Level 7										
Unit Name		No. of Credits	Assess Weighti	ment Ele	ement	Expected Contact	Unit Version	HECoS Code (plus balanced		
			Exam 1	Cwk 1	Cwk 2	hours per unit	No.	or major/ minor load)		
MSc CAVE master project (Successful completion of 120 Level 7 credits of MSc Computer Animation and Visual Effects is a pre-requisite for students undertaking this unit)	Core	60	0	100		20	1.0	100363		

AIMS OF THE DOCUMENT

The aims of this document are to:

- define the structure of the programme;
- specify the programme award titles;
- identify programme and level learning outcomes;
- articulate the regulations governing the awards defined within the document.

AIMS OF THE PROGRAMME

The aim of the Msc Computer Animation and Visual Effects Pathway is to enable students to become competent in the technical aspects of computer animation and produce graduates with the range and depth of technical skills necessary to become future Technical Directors within the computer animation and computer games sectors.

The programme compliments the other Masters courses within the NCCA and MA and MSc students are encouraged to collaborate in integrated projects to promote an interdisciplinary environment, a common culture and emulate business practice.

The programme aims to develop in students:

- a knowledge and professional competence through the study and application of the theories, methods and practices of computer animation
- a creative and innovative approach to the analysis and solution of problems in computer animation productions
- an understanding of the inter-relation of aesthetic, perceptual and technical factors involved in the development of computer animation productions
- an awareness of new application areas relating to the use of computer animation productions
- an attitude of self-reliance and self-discipline in the subject area as well as a capacity to collaborate with other members of an interdisciplinary team

A further emphasis on the application of technical, mathematical and algorithmic skills is placed on the MSc programme where students are encouraged to develop tools to aid in the production of animation / games artefacts as well as transferable technical and programming skills which are applicable to other areas of the modern technical world.

ALIGNMENT WITH THE UNIVERSITY'S STRATEGIC PLAN

With it's fusion of Art, Science and technology the MSc Computer Animation and Visual Effects is ideally suited to fulfil the Strategic Investment Area of Animation, Simulation & Visualisation as outlined by the BU2025 stratagy.

The NCCA's world leading research and research staff deliver a number of units on the MSc and this feeds directly into the curriculum ensuring industry and research needs are met. A number of MSc students have continued work started on the MSc course into PhD degrees.

A core theme within the MSc CAVE is the application of Digital Technology as a transferable skill, whilst most of the teaching is focused on Animation and Visual Effects these skills and engineering techniques are transferable to other industries within the technological sector.

The MSc CAVE has always been a very inclusive programme with a strong international reputation and a very positive gender balance for a predominantly technical programme.

Graduates from the MSc CAVE are very much in demand from the animation industry due to the combination of programming skills and knowledge of DCC tools and pipelines. It is not uncommon for

MSc students to be offered jobs before the completion of the MSc project this is thanks to our close links to industry and the reputation of the MSc graduates within the industry.

LEARNING HOURS AND ASSESSMENT

Bournemouth University taught programmes are composed of units of study, which are assigned a credit value indicating the amount of learning undertaken. The minimum credit value of a unit is normally 20 credits, above which credit values normally increase at 20-point intervals. 20 credits is the equivalent of 200 study hours required of the student, including lectures, seminars, assessment and independent study. 20 University credits are equivalent to 10 European Credit Transfer System (ECTS) credits.

The assessment workload for a unit should consider the total time devoted to study, including the assessment workload (i.e. formative and summative assessment) and the taught elements and independent study workload (i.e. lectures, seminars, preparatory work, practical activities, reading, critical reflection).

Assessment per 20 credit unit should normally consist of 3,000 words or equivalent. Dissertations and Level 6 and 7 Final Projects are distinct from other assessment types. The word count for these assignments is 5,000 words per 20 credits, recognising that undertaking an in-depth piece of original research as the capstone to a degree is pedagogically sound.

STAFF DELIVERING THE PROGRAMME

Students will usually be taught by a combination of senior academic staff with others who have relevant expertise including – where appropriate according to the content of the unit – academic staff, qualified professional practitioners, demonstrators/technicians and research students.

INTENDED LEARNING OUTCOMES – AND HOW THE PROGRAMME ENABLES STUDENTS TO ACHIEVE AND DEMONSTRATE THE INTENDED LEARNING OUTCOMES

MSc Computer Animation and Visual Effects INTENDED PROGRAMME OUTCOMES

A: S	Subject knowledge and understanding	The following learning and teaching and assessment strategies and methods							
	programme provides opportunities for students to elop and demonstrate knowledge and understanding of:	enable students to achieve and to demonstrate the programme learning outcomes:							
	the languages used to discuss the moving image and art, science and technology;	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):							
A2	the fundamentals of computer graphics;	 seminars (A1 – A4); 							
А3	the techniques applicable to their own practice;	• independent research (A1-5).							
A4	Mathematics and algorithms for computer graphics;	Assessment strategies and methods							
A5	Software development and engineering techniques for technical direction and the CGI pipeline.	(referring to numbered Intended Learning Outcomes):							
		MSc Project (A1-A5).							
B: I	ntellectual skills	The following learning and teaching and assessment strategies and methods							
This	programme provides opportunities for students to:	enable students to achieve and to demonstrate the programme outcomes:							
B1	develop critical analysis of work in the field of moving image;	Learning and teaching strategies and methods:							
B2	contextualize personal practice critically, technically and historically;	 seminars (B1 – B4); directed reading (B1 – B4); 							
В3	select and evaluate the correct techniques / tools for the production of an asset / project	independent research (B4). Assessment strategies and methods:							
B4	autonomously identify and solve CGI problems by the application of software techniques and the systhesis of current research.	MSc Project (B1-B4).							
C: F	Practical skills	The following learning and teaching and							
This	programme provides opportunities for students to:	assessment strategies and methods enable students to achieve and to demonstrate the programme learning outcomes:							
C1	become expert in the use of software and tools appropriate to their discipline;	Learning and teaching strategies and methods:							
C2	demonstate a mastery of computer programming languages and application programming interfaces for	Practical assignments (C1 – C4);							
	CGI production;	Assessment strategies and methods:							
C3	identify and apply the correct techniques for CGI production and pipelines either individually or as a group;	MSc Project (C1-C4).							

C4	To communicate effectively with artists in the development and application of animation tools and techniques;	
	Fransferable skills s programme provides opportunities for students to:	The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the programme learning outcomes:
D1	plan,organise and produce a project to a given time- scale;	Learning and teaching strategies and methods:
D2	work effectively as a member of a team communicating with peers, supervisors and others;	seminars (D1- D4);directed reading (D1- D4).
D3	apply personally motivated research, independent learning and problem solving abilities required for continuing professional developm;	Assessment strategies and methods: • MSc project (D1- D4)
D4	demonstrate the application of engineering principles to solve technical problems in a chosen field;	

PG Dip INTENDED OUTCOMES

A: Subject knowledge and understanding This Level provides opportunities for students to develop and demonstrate knowledge and understanding of:	The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the programme learning outcomes:					
A1 the languages used to discuss the moving image and art, science and technology;	Learning and teaching strategies and methods:					
 A2 the fundamentals of computer graphics; A3 the techniques applicable to their own practice; A4 Mathematics and algorithms for computer graphics; A5 Software development and engineering techniques for technical direction and the CGI pipeline. 	 lectures (A1 – A5); seminars (A1 – A4); directed reading (A2, A4); use of the VLE (A1); independent research (A1-5). Assessment strategies and methods: Practical assignments (A1-A5); coursework essays (A4); 					
B: Intellectual skills This programme provides opportunities for students to:	The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the programme outcomes:					
B1 develop critical analysis of work in the field of moving image;	Learning and teaching strategies and methods: • lectures (B1 - B4);					

B3 B4	contextualize personal practice critically, technically and historically; select and evaluate the correct techniques / tools for the production of an asset / project autonomously identify and solve CGI problems by the application of software techniques and the systhesis of current research.	 seminars (B1 – B4); directed reading (B1 – B4); use of the VLE (B1 – B3); independent research (B4). Assessment strategies and methods (referring to numbered Intended Learning Outcomes): Practical Assignments (B1 – B4); The following learning and teaching and assessment strategies and methods
This	s Level provides opportunities for students to:	enable students to achieve and to demonstrate the programme learning outcomes:
C1	become expert in the use of software and tools appropriate to their discipline;	Learning and teaching strategies and methods:
C2	demonstate a mastery of computer programming languages and application programming interfaces for CGI production;	 lectures (C1 - C3); Practical assignments (C1 – C2, C4); independent research for empirical
C3	identify and apply the correct techniques for CGI production and pipelines either individually or as a group;	dissertation (C2 – C3); • group project (C4).
C4	To communicate effectively with artists in the development and application of animation tools and techniques;	Assessment strategies and methods (referring to numbered Intended Learning Outcomes): Practical assignments (C1- C4);
D: 1	ransferable skills	The following learning and teaching and
This	Level provides opportunities for students to:	assessment strategies and methods enable students to achieve and to demonstrate the programme learning outcomes:
D1	plan,organise and produce a project to a given timescale;	Learning and teaching strategies and methods:
	work effectively as a member of a team communicating with peers, supervisors and others;	 lectures (D1 – D4); seminars (D1- D4); use of the VLE (D1 – D4);
D3	apply personally motivated research, independent learning and problem solving abilities required for continuing professional developm;	directed reading (D1- D4). Assessment strategies and methods:
D4	demonstrate the application of engineering principles to solve technical problems in a chosen field;	practical assignments (D1 – D4)

ADMISSION REGULATIONS

The regulations for this programme are the University's Standard Postgraduate Admission Regulations https://intranetsp.bournemouth.ac.uk/pandptest/3a-postgraduate-admissions-regulations.pdf

with the following exceptions: Applicants whose mother tongue is not English must offer evidence of qualifications in written and spoken English. Acceptable qualifications are:

IELTS (academic) 6.5 (with a minimum of 6 in each of four categories) or direct equivalent. A portfolio of suitable programming and animation / technical materials including a final disertation will be required.

PROGRESSION ROUTES

Articulation & Internal Progression

Recognition arrangements provide formally approved entry or progression routes through which students are eligible to apply for a place on a programme leading to a BU award. Recognition does not guarantee entry onto the BU receiving programme only eligibility to apply. In some cases, additional entry criteria such as a Merit classification from the feeder programme may also apply. Please see the recognition register for a full list of approved Recognition arrangements and agreed entry criteria.

ASSESSMENT REGULATIONS

The regulations for this programme are the University's Standard Postgraduate Assessment Regulations.

https://intranetsp.bournemouth.ac.uk/pandptest/6a-standard-assessment-regulations-postgraduate.pdf

WORK BASED LEARNING (WEL) AND PLACEMENT ELEMENTS

The placement is option during the master project in the semester 3 with duration up to 3 month. It is the student's responsibility for arranging the placement, and it will need to be discussed with and approved by the course / unit leader

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Programme Skills Matrix

Uni	its	A 1	A 2	A 3	A 4	A 5	B 1	B 2	B 3	B 4	C 1	C 2	C 3	C 4	D 1	D 2	D 3	D 4
	Animation Software Engineering		*		*	*			*	*	*	*	*		*		*	*
L	CGI Tools	*		*			*	*	*			*	*	*	*		*	
E V E	CGI Techniques	*	*	*	*				*	*	*				*		*	*
	Simulation and Rendering		*	*	*		*		*	*	*			*	*		*	*
L	Pipeline and Technical Direction		*	*		*	*		*	*	*	*	*	*	*	*	*	*
7	Group Project	*				*	*		*			*	*		*	*	*	
	MSc Project and Thesis	*	*	*	*		*	*	*	*	*	*		*	*	*	*	*

A – Subject Knowledge and Understanding

This programme provides opportunities for students to develop and demonstrate knowledge and understanding of:

- the languages used to discuss the moving image and art, science and technology;
- 2. the fundamentals of computer graphics;
- 3. the techniques applicable to their own practice;
- 4. Mathematics and algorithms for computer graphics;
- Software development and engineering techniques for technical direction and the CGI pipeline

C - Subject-specific/Practical Skills

This programme provides opportunities for students to:

- become expert in the use of software and tools appropriate to their discipline;
- 2. demonstate a mastery of computer programming languages and application programming interfaces for CGI production;
- 3. identify and apply the correct techniques for CGI production and pipelines either individually or as a group:
- 4. To communicate effectively with artists in the development and application of animation tools and techniques;

B - Intellectual Skills

This programme provides opportunities for students to:

- develop critical analysis of work in the field of moving image;
- 2. contextualize personal practice critically, technically and historically;
- 3. select and evaluate the correct techniques / tools for the production of an asset / project

autonomously identify and solve CGI problems by the application of software techniques and the systhesis of current research.

D - Transferable Skills

This programme provides opportunities for students to:

- 1. plan, organise and produce a project to a given time-scale;
- 2. work effectively as a member of a team communicating with peers, supervisors and others;
- 3. apply personally motivated research, independent learning and problem solving abilities required for continuing professional developm;

demonstrate the application of engineering principles to solve technical problems in a chosen field;