

## Programme Specification

Postgraduate Programmes

<b>Awarding Body/Institution</b>	University of London
<b>Teaching Institution</b>	Goldsmiths, University of London
<b>Name of Final Award and Programme Title</b>	MA Computer Games: Art and Design
<b>Name of Interim Award(s)</b>	Postgraduate Certificate in Computer Games: Art and Design, Postgraduate Diploma in Computer Games: Art and Design
<b>Duration of Study/Period of Registration</b>	1 year FT or 2 years PT
<b>UCAS Code(s)</b>	N/A
<b>QAA Benchmark Group</b>	Computing
<b>FHEQ Level of Award</b>	Level 7
<b>Programme Accredited by</b>	N/A
<b>Date Programme Specification last updated/approved</b>	December 2016
<b>Primary Department/Institute</b>	Computing

<b>Departments which will also be involved in teaching part of the programme</b>
--

Not Applicable
----------------

### Programme overview

This ground-breaking MA teaches the knowledge and skills in demand by the computer games and entertainment industries, with an emphasis on game design, art and animation. Students can work with industrial partners, learn the fundamentals of computer programming, and gain understanding of business models and entrepreneurship.

The computer games and interactive entertainment business is a fast-growing multi-billion dollar worldwide business, with games platforms from handhelds and mobiles including iPhones, iPads and Android phones, through consoles such as the Playstation 4, Xbox One and Nintendo Wii U, to PCs and massively-multiplayer online games involving tens of thousands of people.

This MA will produce graduates who are well-positioned to have a career in this exciting worldwide industry, meeting the strong demand for graduate computer games designers and artists in the UK and abroad.

Potential employers include EA, Ubisoft, Sony SCEE, Creative Assembly, Microsoft, Cinesite, Framestore, and many others. The influence of computer games is spreading to other digital industries, with gamification and games-based learning, social machines and interactive visualisation of scientific and financial data all exploiting techniques from computer games, and all fields where graduates from this MA could make their mark.

#### What you will study

The programme is delivered by a mix of professionals from the games and effects industries and from the research world. The skills you will learn will have a focus on Games Design, Art and Animation in addition to gaining the fundamentals of computer programming, entrepreneurship / business and Practice. We work closely with industry leaders to shape the course content and to offer industry placements at studios including Creative Assembly Sega, Reflections Ubisoft and Sony (SCEE), Supermassive, Splash Damage, Climax Studios, Hadrian York, Ideaworks and Rebellion.

## Programme entry requirements

A BA or BSc Degree at 2.2 level or above. The BSc or BA can be from a wide range of subjects including Art and Design. Outstanding practitioners or individuals with strong commercial experience may be considered.

Non-native English students should normally have a minimum IELTS score of 6.5 or equivalent.

## Aims of the programme

This programme aims to produce graduates who are autonomous, creative and reflective games art and design practitioners, and who also have strong technical skills and basic hands-on understanding of programming and tools to underpin those creative skills and energies.

- Knowledge of computing technologies across a range of specialist topics in computer games art and design, both in terms of the latest research advances and industry standards.
- The ability to design and implement small and large-scale games, by using existing specialised software solutions or by working with the MSc Games and Entertainment programming students implementing their own games.
- Strong transferable skills, in particular the ability to work independently and in groups and to reflectively evaluate their own work.

## What you will be expected to achieve

Students who successfully complete the Postgraduate Certificate Computer Games Art and Design or Postgraduate Diploma Computer Games Art and Design will demonstrate:

Knowledge and Understanding		Taught by the following modules
<b>A1</b>	Proficiency to operate as a games designer and practitioner in the Computer Games and Serious Games industries, with associated programming, technical and pipeline management tools.	Game Design and Games Analytics. Introduction to Programming. Introduction to Modelling and Animation.
<b>A2</b>	Competency in Art and Animation to work in 3D or 2D on assets and data sets, both small and large-scale projects, with associated programming, technical and pipeline management tools to underpin their creative skills.	Introduction to Modelling and Animation. Advanced Modelling and Animation. Introduction to Programming.
<b>A3</b>	The ability to operate as a manager and project planner in the Computer Games and Special effects industries.	Games Business and Practice. Advanced Modelling and Animation.
<b>A4</b>	The ability to make objective business decisions based on commercial criteria in commercial situations working in a corporate or mid-range companies.	Games Business and Practice.
<b>A5</b>	Knowledge and skills to form an early stage start-up company, working with commercial clients and / or investors.	Games Business and Practice.
<b>A6</b>	A broad cultural understanding of commercial art in games and broader underlying cultural heritage and new directions and trends including hardware and user interfaces.	History of Computer Games, Art and Animation Physical Computing.
<b>A7</b>	Sufficient management skills to manage and steer a small creative team and with core skills to then develop into a Senior Producer and eventually a Creative Director.	Games Business and Practice. Advanced Modelling and Animation.

<b>Cognitive and Thinking Skills</b>		<b>Taught by the following modules</b>
<b>B1</b>	Application of advanced skills and research-led specialist knowledge in the design of software and data analyses; academic writing and presentation skills.	This will be taught throughout the programme
<b>B2</b>	The ability to critically analyse computer games in commercial, artistic and creative contexts.	History of Computer Games, Art and Animation
<b>B3</b>	Application of advanced skills and research-led specialist knowledge in the design of software and data analyses; academic writing and presentation skills.	This will be taught throughout the programme

<b>Subject Specific Skills and Professional Behaviours and Attitudes</b>		<b>Taught by the following modules</b>
<b>C1</b>	The ability to research and apply state of the art technologies independently and in cooperation in the context of concrete problems related to scalable game design problems (online and single player).	This will be taught throughout the programme
<b>C2</b>	The ability to design and program advanced computer software and products including novel hardware devices, including the Arduino platform.	Introduction to programming. Physical Computing. Game Design and Games Analytics.

<b>Transferable Skills</b>		<b>Taught by the following modules</b>
<b>D1</b>	The ability to communicate effectively, both in writing and in presentations to an audience	Games Business and Practice History of Computer Games, Art and Animation
<b>D2</b>	The capacity to be highly creative Games Designers and Artists with an ability to think innovatively and to be able to reflect on and evaluate their work.	This will be taught throughout the programme
<b>D3</b>	The ability to work effectively in groups.	Games Business and Practice. Advanced Modelling and Animation.
<b>D4</b>	Advanced activity planning, and exercise personal responsibility in their work.	Games Business and Practice. Advanced Modelling and Animation.

In addition to the learning outcomes above, students who successfully complete the MA Computer games Art and Design will be able to:

<b>Knowledge and Understanding</b>		<b>Taught by the following modules</b>
<b>A1</b>	Apply a deep understanding of cutting edge technologies in the creation of a substantial Games Project or Research Topic or on-site placement at a Computer Games company.	Advanced Modelling and Animation. Games Design and Analytics. Final Project or by Industry Placement.

<b>Cognitive and Thinking Skills</b>		<b>Taught by the following modules</b>
<b>B1</b>	Evaluate and debate cultural themes and technical dimensions in the historical context of art, computer games and the wider technical environment and trends	History of Computer Games, Art and Animation. Final Project

<b>Subject Specific Skills and Professional Behaviours and Attitudes</b>		<b>Taught by the following modules</b>
<b>C1</b>	Students will execute a significant piece of original professional standard design, animation and modelling work.	Games Design and Analytics. Advanced Modelling and Animation. Final Project or by Industry Placements. Aided by review by industry externals contact and review of work during MSc and MA Games external speaker lectures series visits, when students meet professionals.

<b>Transferable Skills</b>		<b>Taught by the following modules</b>
<b>D1</b>	Have excellent critical and analytical skills, be independent and creative workers and learners.	Advanced Modelling and Animation. Games Design and Analytics. Final project

### **How you will learn**

The Department of Computing is committed to a diverse and stimulating range of learning and teaching methods that ensure the programme outcomes are addressed rigorously and effectively.

The course will be taught by a number of methods including a minimum of four one-hour weekly lectures, plus four weekly supervised two-hour lab sessions for development work, and “one to one” tutorials. In addition, MA Games students will attend a weekly external speaker programme with the MSc Games and PhD Students. Previous speakers include senior people from Creative Assembly, Swvre, Supermassive, Rebellion, Geomerics, Radiant Worlds and many more. Students have opportunity to meet the speakers over coffee after the talks and make useful contacts.

The use of the MSc and MA Games Lab in Hatcham House will be an important part of the MA Games Students learning experience where the students will work together on small and large group projects (including Games Hacks such as the Annual UKIE Games Hack and The Global Games Jam Hack which have occurred in the games lab), and from our experience in previous years, useful “peer to peer” learning also occurs. Students will be encouraged to attend wider Goldsmiths lectures including the Whitehead Lectures and the Human Interactive Conference.

### **How you will be assessed**

The Department is committed to providing diverse types of assessment. Our methods of assessment are designed to reflect research and commercial activities and to encourage independent creative thinking and working mixed with collaborative work. Students will be required to present their work in a number of different ways including game play demos with associate code / analytics data, reports and short management reports, oral presentations and software delivery.

Each module in the programme will have its own assignments, reflecting to the nature of the module. In addition to modular assignments, students will have a major final project in the summer term, which should build on what students have learnt throughout the programme. The final project is an opportunity

for students to work independently on a large project at a research level or work externally on-site at a company on a placement (which includes delivery of a Report).

In collaborative assignment work, particular care must be taken by students to describe clearly and precisely the nature of their contributions, and the contributions of their group collaborators. This must be delivered as part of students' assignment written reports and/or evaluation documentation, as required in the documentation brief.

Final projects will be assessed based on the submission of a final report and a presentation in a viva. Guidance on the structure and writing of the report will be given in the module handbook. Projects will be marked by a panel composed of two members of academic staff.

Students who are unable to submit an assessment on time due to illness or other unavoidable circumstances, must provide documentary evidence to their personal tutor in order to be allowed a late submission. Evidence must also be supplied for students to apply for consideration of mitigating circumstances in assessment.

### Marking criteria

Mark	Descriptor	Specific Marking Criteria
80-100%	Distinction (Outstanding/Exceptional)	Represents a demonstration of exceptional understanding, insight and achievement of the aspects described in the criteria for a distinction grade.
70-79%	Distinction	Demonstration of excellence in understanding based on a thorough graphs of relevant concepts, methodology and content; display of skill in applying and interpreting complex material; organization of material at a high level of competence. Students should be able to demonstrate the ability to work independently to research and implement and in some cases extend state-of-the-art technologies.
60-69%	Merit	Demonstration of a deep level of understanding based on a competent grasp of relevant concepts, methodology and content; display of skill in applying interpreting complex material; organization of material at a high level of competence. Students should be able to demonstrate the ability to work independently to research and implement state-of-the-art technologies.
50-59%	Pass	Demonstration of a sound level of understanding based on a competent grasp of relevant concepts, methodology and content; display of skill in organizing, discussing and applying complex material. Students should be able to implement state-of-the-art technologies under guidance.
30-49%	Fail	Represents an overall failure to achieve the appropriate learning outcomes. A mark at this level is given to work which may have some positive features, but is not at Masters standard: for example by lacking structure, having a poor-quality line of argument, or does not demonstrate sufficient application
10-29%	Bad fail	Represents a significant overall failure to achieve the appropriate learning outcomes at Masters standard.
1-9%	Very bad fail	A submission that does not attempt to address the module's specified learning outcomes. It will be considered a non-valid attempt and the module must be re-sat.

0%	Non submission or plagiarised	Work was not submitted or it was plagiarised.
----	-------------------------------	---

## How the programme is structured

This MA programme addresses the pressing need for a high quality postgraduate degree serving the computer games and entertainment industries. This programme gives students professional-level games design, art and animation skills, as well as exposure to the fundamentals of computer programming, development tools, pipelines and entrepreneurship / business skills. The programme uses and extends our close relationship with the games and entertainment industries.

In addition, the programme encourages the development of the students' personal creativity in designing and building their own games as part of lab work and assignments, enabling them to build a strong personal portfolio.

The computer games and interactive entertainment business is a fast-growing multi-billion dollar worldwide business, with varying games platforms from handhelds and mobiles including iPhones, iPads and Android phones, through consoles such as the Playstation 4, Xbox One, to PCs and massively-multiplayer online games involving tens of thousands of people. In addition since 2014 we are seeing a renewal of growth activity around virtual reality and games with Oculus Rift and SONY Project Morpheus and also the novel use of robotics in games and the creative industries.

This MA will produce graduates who are well positioned to have a career in this exciting worldwide industry, meeting the strong demand for graduate computer games designers and artists in the UK and abroad.

Potential employers include EA, Ubisoft, Sony SCEE, Zynga, Boss Alien, Mind Candy, Creative Assembly, Microsoft, Cinesite, Framstore and many others.

The influence of computer games is spreading to other digital industries (including advertising), with gamification and games- based learning, location-based games, social machines and interactive visualisation of scientific and financial data all exploiting techniques from computer games, and all are fields where graduates from this MA could make their mark. Additionally, the Intelligent Games and Games Intelligence Doctoral Training Centre offers a chance for suitable students to perform independent research in this area, broadening and deepening their knowledge and skills.

### Academic Year of Study 1 Full-Time

Module Title	Module Code	Credits	Level	Module Status	Term
Introduction to Modelling and Animation	IS74021A	15	7	Core	1
Games and Interactive Entertainment Business and Practice	IS71025A	15	7	Core	1
Introduction to Programming for Games and Interactive Graphics	IS71030A	15	7	Core	1
Game Design and Games Analytics	IS74022A	15	7	Core	1
Advanced Modelling and Animation	IS74023B	30	7	Core	2
Physical Computing	IS71013B	15	7	Core	2
History of Computer Games, Art and Animation	IS74024A	15	7	Core	2
Games and Entertainment Industries: Final Project	IS74019A	60	7	Core	3

(Individual or Shared Final Project with MSc Computer Games and Entertainment Students (with individual Reporting and assessment) or Industry Placement (under the existing MSc Games industry Placement Scheme))					
---	--	--	--	--	--

#### Academic Year of Study 1 Part-Time

Module Title	Module Code	Credits	Level	Module Status	Term
Introduction to Programming for Games and Interactive Graphics	IS71030A	15	7	Core	1
Introduction to Modelling and Animation	IS74021A	15	7	Core	1
Advanced Modelling and Animation	IS74023B	30	7	Core	2
History of Computer Games, Art and Animation	IS74024A	15	7	Core	2

#### Academic Year of Study 2 Part-Time

Module Title	Module Code	Credits	Level	Module Status	Term
Games and Interactive Entertainment Business and Practice	IS71025A	15	7	Core	1
Game Design and Games Analytics	IS74022A	15	7	Core	1
Physical Computing	IS71013B	15	7	Core	2
Games and Entertainment Industries: Final Project	IS74019A	60	7	Core	3

#### Academic support

Students' learning will be supported by Departmental and College resources, as well as resources held centrally at the University of London library. In the College library there is an extensive collection of books specialising in Computing, the arts and design in particular. In addition, the Department of Computing has extensive computer lab facilities including the dedicated Post Graduate Games Lab at the top of Hatcham House with associated computing hardware and loan development devices. The Department makes extensive use of the VLE grad.gold online facility, in order to support student learning in a number of ways, including the dissemination of learning resources and to provide an electronic forum for the exchange ideas and debate.

Students are allocated a personal tutor during the period of study who offers advice, guidance or clarification of modules, options, requirements and regulations. The Personal Tutor can also offer support in cases of academic difficulty. Should further advice be necessary, the Senior Tutor and the Chair of the Board of Examiners can also be consulted. If students encounter difficulties at any time with their studies, the Programme Convenor and other module tutors can provide additional academic support whilst the Senior Tutor is available by appointment to discuss welfare-centred issues. Staff members have office hours each week to discuss any matters; outside these hours students may arrange an appointment with staff via email or telephone. The College provides counselling, student support services (e.g. English for overseas students) and a language unit to ensure maximal participation in the academic life of the College. The College also actively supports students with specific learning difficulties (e.g., dyslexia), and provisions are made to ensure that all students,

regardless of specific difficulty/disability, derive full benefit from the learning environment. In addition to specialist advice and assistance within the College, the Department ensures that module materials are suitable for all students and, where necessary, these are altered to meet the requirements of individual students.

Students will be encouraged to develop and maintain a Personal Development Plan (PDP) during the module of study. This PDP will record aspirations, plans and goals, record achievement against goals, and enable students to monitor progress in order to achieve personal aims. Personal tutors will be available to discuss the PDP with students.

Where students come with less ability in software development and related technical skills (for example coming from a BA Painting or BA Sculpture course where software teaching is less common), additional individual mentoring will be offered by MSc Programming staff, particularly in the first term, and where appropriate MA Students will be encouraged to attend technical workshops and classes within the department to supplement their learning.

Student Services are able to offer a wide range of support to students. The College has a preferred local GP practice where students are encouraged to register. The practice is close to campus and very aware of the specific needs that students have. Students who are in need of additional support, including financial advice, immigration, housing and hardship support are encouraged to contact Student Services either by phone, email or in person through the centrally located Student Centre. Confidential Counselling support is also available to all students to assist with wellbeing matters or personal issues. A full range of the support available to students is located on the Student Services website including specific support for disabled students <http://www.gold.ac.uk/student-services/>.

The Computing Department is committed to making any reasonable adjustment that allows, as far as possible, for equality of opportunity and access, and to ensuring that students are not disadvantaged because of specific learning difficulties or disability.

### **Links with employers, placement opportunities and career prospects**

The existing MSc Computer Games and Entertainment Course has had a very strong recruitment record for students finishing the course, with nearly all students achieving full-time employment within 3 months of leaving. Existing employers of previous MSc Games and Entertainment Students include SONY SCEE, Supermassive, SEGA Creative Assembly, Sports Interactive, GamesLoft, Rebellion, WeRInteractive, Frontier and GameSys. This has been greatly aided by the Summer Term placement scheme we organise where students work onsite at companies for an entire term.

The MA Computer Games: Art and Design course is expected to emulate this and our existing contacts at companies to lead to jobs for students following completion of the course. Interestingly, our existing contacts at employers (including Ubisoft, Creative Assembly and Supermassive) have been regularly asking if Goldsmiths will be providing MA Art and Design Students. Moreover, previous MSc Games and Entertainment students have used their entrepreneurial skills gained on the course to start up companies and gain development contracts and investment. Our programme opens up multiple career options including:

- Computer Games Designer for casual games development (Mobile, Tablet, PC). Level Designer for casual games development (Mobile, Tablet, PC).
- Computer Games Designer for Console Games Development (including Xbox One, Playstation4).
- Level Designer for Computer Games Designer for Console Games Development (including Xbox One, Playstation4) 2D and 3D Modeller for The Computer Games Industry.
- 2D and 3D Modeller for Film and TV Special Effects Industry. Junior Programmer in the Games Industry.
- Junior Producer in a Games Development Company, leading to senior management roles. Creative Lead at robotics development company for entertainment industry.



- Computer Games Designer for the Serious Games and Gamification Sectors. Creative Games and Interactive Technical Lead in an Advertising Agency. Creative Director Role in small or medium company.

Students might also develop their independent research questions, which could lead to postgraduate research, for example at the Intelligent Games and Game Intelligence Doctoral Training Centre.

## **The requirements of a Goldsmiths degree**

### Master's Degrees

All Master's degrees at Goldsmiths have a minimum value of 180 credits. Programmes are comprised of modules which have individual credit values. In order to be eligible for the award of a Master's degree students must have passed all modules on the programme.

### Intermediate Exit Points

Some programmes incorporate intermediate exit points of Postgraduate Certificate and Postgraduate Diploma, which may be awarded on the successful completion of modules to the value of 60 credits or 120 credits respectively. Individual programmes may specify which, if any, combination of modules are required in order to be eligible for the award of these qualifications. The awards are made without classification.

### Final Classification

There are four possible categories of final classification for Master's degrees: Distinction, Merit, Pass and Fail.

In order to be awarded an overall classification of Distinction, students should have obtained:

- a mark of at least 70% (or A grade) for the dissertation/project (or equivalent)
- AND
- EITHER a mark of 70% (or A grade) in at least half of the remaining credits.
- OR an overall weighted average mark (based on credit value) of at least 70%

In order to be awarded an overall classification of Merit, students should have obtained:

- a mark of at least 60% (or B grade) for the dissertation/project (or equivalent)
- AND
- EITHER a mark of 60% (or B grade) in at least half of the remaining credits.
- OR an overall weighted average mark (based on credit value) of at least 60%

Pass: In order to be awarded an overall classification of Pass must have passed all the modules on a programme but not have met the criteria for the award of an overall classification of Merit or Distinction

Fail: If any module on a programme has been failed on more than one occasion the programme will be failed

For further information, please refer to the Regulations for Postgraduate Taught Students, which may be found here: <http://www.gold.ac.uk/governance/studentregulations/>

## **Programme-specific rules and facts**

Final degree classifications are based on 120 credits of taught modules and the Final Project and are assessed in proportion of 100% by coursework.

The PGCert requires any 60 credits of taught modules and the PGDip requires 120 credits (all taught modules).

In order to progress to the Final Project, students must fulfil the requirements for a pass at PGDip level (pass all 120 credits of taught modules).

The awards of PGCert and PGDip are made without classification. In order to be awarded the MA all modules must be passed.

### **How teaching quality will be monitored**

Goldsmiths employs a number of methods to ensure and enhance the quality of learning and teaching on its programmes.

Programmes and modules must be formally approved against national standards and are monitored throughout the year in departmental staff / student forums and through the completion of module evaluation questionnaires. Every programme also has at least one External Examiner who produces an annual report which comments on the standards of awards and student achievement.

This output is considered with other relevant data in the process of Annual Programme Review, to which all programmes are subject, and which aims to identify both good practice and issues which require resolution.

Every six years all programmes within a department are also subject to a broader periodic review. This aims to ensure that they remain current, that the procedures to maintain the standards of the awards are working effectively and the quality of the learning opportunities and information provided to students and applicants is appropriate.

Detailed information on all of these procedures are published on the webpages of the Quality Office (<http://www.gold.ac.uk/quality/>).