Programme Title: BSc (Eng) Multimedia & Arts Technology with Industrial Experience

Programme Specification

Awarding Body/Institution: Queen Mary, University of London
Teaching Institution: Queen Mary, University of London
Name of Final Award and Programme Title: Bachelor of Science (Engineering) Multimedia & Arts Technology with Industrial Experience
Name of Interim Award(s): Bachelor of Science (Engineering)
Duration of Study / Period of Registration: Four Years
QM Programme Code / UCAS Code(s): I151
QAA Benchmark Group: Engineering
FHEQ Level of Award: Level 6
Programme Accredited by: N/A
Date Programme Specification Approved: 
Responsible School / Institute: School of Electronic Engineering & Computer Science

Schools which will also be involved in teaching part of the programme
- School of Geography
- School of Languages, Linguistics & Film

Institution(s) other than Queen Mary that will provide some teaching for the programme
- N/A

Programme Outline

The proposed programme develops the proposed BSc (Eng) programme Multimedia & Arts Technology by adding an Industrial Experience year, following the model successfully established in Computer Science. This will give students the opportunity to utilise in a practical, workplace based context the skills and theoretical knowledge already acquired through the programme of study. This will have a direct positive impact on student employability and career development.

Aims of the Programme

This programme covers fundamental aspects of the digital economy, creative multimedia production, computer-driven
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animation, multimedia scripting, interactive multimedia design, 3D graphics, web-based advertisement production, and management and planning of media assets. Graduates from this programme will effectively combine technical and creative skills. The programme aims to emphasise computer systems, digital installations and software with a special focus on new media creation; to provide a core knowledge of media production, multimedia system design; to focus on the increasingly important area of 3D graphics and computer-driven animation; to emphasise scripting and production aspects of media creation; to equip the students with the practical skills needed to modify and test a piece of software and hardware; to enable the students to develop the written and oral communication skills needed to present information, both in written and multimedia form, effectively.

An industrial placement during the programme supports student learning about the application of Multimedia Technology in an organisational context. The aims of the placement year are to:

• Ground the taught components of the programme in practical experience at a scale not possible within the College
• Improve career preparation, giving students a better understanding of future career options, improving their career prospects.

What Will You Be Expected to Achieve?

The programme provides opportunities for students to develop and demonstrate knowledge and understanding, skills and other attributes in the following areas. The programme outcomes are referenced to the relevant QAA benchmark statement(s) (see above) and the Framework for Higher Education Qualifications in England, Wales and Northern Ireland (2008), and relate to the typical student. Additionally, the SEEC Credit Level Descriptors for Further and Higher Education 2003 and Queen Mary Statement of Graduate Attributes have been used as a guiding framework for curriculum design.

Academic Content:

| A1 | Audio/Video data capture and processing, and an understanding of how these systems can be used creatively for audiovisual and computer-based content production |
| A2 | Principles of operation, limitations, potential and effective use of electronic media and their associated tools and technologies |
| A3 | Design, project and people management principles and techniques |

Disciplinary Skills - able to:

| B1 | Analyse information and experiences, formulate independent judgements, and articulate reasoned arguments through reflection, review and evaluation |
| B2 | Source, navigate, select, retrieve, evaluate, manipulate and manage information from a variety of sources |
| B3 | Formulate reasoned responses to the critical judgements of others |

Attributes:

| C1 | Work independently on a practical or research-based project under supervision |
| C2 | Work effectively as part of a team, identifying tasks and roles, and managing time, resources and progress appropriately |
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C3 Apply technical knowledge, understanding and skills in new situations

How Will You Learn?

The teaching, learning and assessment strategies will be tailored to the learning outcomes of the different modules. These will include lectures, practical and library-based research, presentations, group work and knowledge transfer activities. Lectures are used to introduce principles and methods and also to illustrate how they can be applied in practice. Practical and library-based research allows students to develop skills in review, investigative methods and critical analysis. Presentations and group work enhance students' team-working and communication skills. Knowledge transfer activities increase students' awareness of the broader context of their discipline and supports them in translating their knowledge, understanding and skills to that broader context.

How Will You Be Assessed?

Taught modules will be assessed through a combination of examinations (EXM), coursework (CWK), portfolio and performance (PRA), as appropriate for the content and focus of each individual module. Project modules (DIS) will be examined on the basis of a final written report, a formal oral presentation, and a demonstration of the software / hardware / installation developed by the student.

How is the Programme Structured?

The BSc(Eng) Multimedia and Arts Technology with Industrial Experience will be a single programme with three pathways as electives: creative production pathway, society and geopolitics pathway and advanced programming pathway. The programme includes a number of modules that bridge the gap between creative arts and technology to cater to the current industrial demand. The BSc(Eng) Multimedia and Arts Technology with Industrial Experience will contain compulsory and elective modules as specified below.

Six new modules are proposed:
Arts Application Programming  (level 4)
Bridging Arts and Technology (level 4)
Introduction to Audio (level 4)
Creating Interactive Objects (level 5)
Sound Design (level 5)
Creative Group Project (level 5)

The programme structure is as follows, all modules being worth 15 credits except where otherwise indicated:

SEMESTER 1: ECS405U Arts Application Programming (new); ECS406U Bridging Arts and Technology (new); ECS404U Computer Systems and Networks; ECS402U Professional Applications;

SEMESTER 2: ECS419U Information Systems Analysis; ECS417U Fundamentals of Web Technology; ECS415U Introduction to Audio (new); ECS416U Introduction to Multimedia;

SEMESTER 3: ECSz Creating Interactive Objects (new); ECSw Creative Group Project (new); ECSb Sound Design (new); plus one of ELE161 Programming Fundamentals; FLM104 Scriptwriting: Creativity and Technique; GEG5110 Society, Culture and Space (30 credits)

SEMESTER 4: DCS224 Graphical User Interfaces; ELE403 Internet Protocols; DCS237 Business Information Systems; plus one of
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ECS414U Object-Oriented Programming; FLM016 Production Skills; GEG5110 Society, Culture and Space contd (30 credits)

SEMESTER 5: ELE540 Emergent Multimedia Applications and Technology; ELE402 Enterprise Management; ELE613 BSc Project (30 credits); plus one of DCS339 C++ for Image Processing; ELE405 Sound Recording and Production Techniques; FLM204 Directing Drama; FLM305 Creative Production (30 credits); GEG6113 Urbanism, Culture and Modernity

SEMESTER 6: ELE606 Product Development; DCS318 Interaction Design; ELE613 BSc Project contd (30 credits); plus one of ELE405 3D Graphics Programming Tools; FLM205 Scriptwriting: Adaptation and Original Script; FLM305 Creative Production contd (30 credits); GEG6116 The Geopolitics of Life

The Industrial Placement year takes place in the 3rd year (between Semesters 4 & 5) and is the equivalent of 30 credits at Level 5. Students must pass the Industrial Placement year.

To progress from one developmental year to the next, a student must meet any programme and pathway requirements and take and pass modules as follows:

i. foundation year to developmental year one: take modules to the value of 120 credits and pass modules to the value of 90 credits;

ii. developmental year one to developmental year two: take modules to a value of 120 credits and pass modules (excluding modules at Level 3) to the value of 90 credits from developmental year one;

iii. developmental year two to developmental year three: take modules to the value of 120 credits and pass modules (excluding module

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### Academic Year of Study

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<th>Module Title</th>
<th>Module Code</th>
<th>Credits</th>
<th>Level</th>
<th>Module Selection Status</th>
<th>Academic Year of Study</th>
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### What Are the Entry Requirements?

The entry requirements will be 320 points A level grades ABB, with recommended Mathematics A level. Good English language proficiency corresponding to B2 level. Proof through documentation referring to IELTS score of 6.5 or 580 (written), or TOEFL score of 237.

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### How Do We Listen and Act on Your Feedback?

The Staff-Student Liaison Committee provides a formal means of communication and discussion between Schools and its students. The committee consists of student representatives from each year in the school/institute together with appropriate
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representation from staff within the school/institute. It is designed to respond to the needs of students, as well as act as a forum for discussing programme and module developments. Staff-Student Liaison Committees meet regularly throughout the year.

Each school operates a Learning and Teaching Committee, or equivalent, which advises the School/Institute Director of Taught Programmes on all matters relating to the delivery of taught programmes at school level including monitoring the application of relevant QM policies and reviewing all proposals for module and programme approval and amendment before submission to Taught Programmes Board. Student views are incorporated in this Committee’s work in a number of ways, such as through student membership, or consideration of student surveys.

All schools operate an Annual Programme Review of their taught undergraduate and postgraduate provision. The process is normally organised at a School-level basis with the Head of School, or equivalent, responsible for the completion of the school’s Annual Programme Reviews. Schools/institutes are required to produce a separate Annual Programme Review for undergraduate programmes and for postgraduate taught programmes using the relevant Undergraduate or Postgraduate Annual Programme Review pro-forma. Students’ views are considered in this process through analysis of the NSS and module evaluations.

Academic Support

Each student is allocated a personal tutor in the first year and the tutor remains with them until they have completed their programme.

Programme-specific Rules and Facts

N/A

Specific Support for Disabled Students

Queen Mary has a central Disability and Dyslexia Service (DDS) that offers support for all students with disabilities, specific learning difficulties and mental health issues. The DDS supports all Queen Mary students: full-time, part-time, undergraduate, postgraduate, UK and international at all campuses and all sites.

Students can access advice, guidance and support in the following areas:
• Finding out if you have a specific learning difficulty like dyslexia
• Applying for funding through the Disabled Students’ Allowance (DSA)
• Arranging DSA assessments of need
• Special arrangements in examinations
• Accessing loaned equipment (e.g. digital recorders)
• Specialist one-to-one “study skills” tuition
• Ensuring access to course materials in alternative formats (e.g. Braille)
• Providing educational support workers (e.g. note-takers, readers, library assistants)
• Mentoring support for students with mental health issues and conditions on the autistic spectrum.

Links With Employers, Placement Opportunities and Transferable Skills

The School of Electronic Engineering & Computer Science has a wide range of industrial contacts secured through research projects and consultancy, our Industrial Experience programme and our Industrial Board.

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The Industry Panel works to ensure that our courses are state of the art and match the changing requirements of this fast moving industry. The Panel includes representatives from a variety of Electronic Engineering & Computer Science orientated companies ranging from SMEs to major blue-chips. These include: Microsoft Research, Royal Bank of Scotland, BT Labs, Oaklodge Consultancy, Intel Research, The Usability Company, Hewlett Packard Labs and Arclight Media Technology Limited.

The career opportunities for the graduates from this programme are in the (interactive) media production, music industry, gaming, internet, communications and consumer industries. The blending of technical courses with business and arts courses will equip the graduates with the skills that are necessary to understand and to contribute to the modern arts and media sectors of the digital economy.

Programme Specification Approval

| Person completing Programme Specification | Malcolm Smith |
| Person responsible for management of programme | Professor Andrea Cavallaro |
| Date Programme Specification produced/amended by School Learning and Teaching Committee |  |
| Date Programme Specification approved by Taught Programmes Board |  |