

## STUDENT AND ACADEMIC SERVICES

### PROGRAMME SPECIFICATION

Part 1: Basic Data	
<b>Awarding Institution</b>	University of the West of England, Bristol
<b>Teaching Institution</b>	University of the West of England
<b>Delivery Location</b>	Frenchay Campus, University of the West of England
<b>Faculty responsible for programme</b>	Environment and Technology
<b>Department responsible for programme</b>	Computer Science and Creative Technologies
<b>Modular Scheme Title</b>	Environment and Technology
<b>Professional Statutory or Regulatory Body Links</b> <i>Name of PSRB</i> <i>Type of approval</i> <b>Dates</b>	None
<b>Highest Award Title</b>	BSc (Hons) Broadcast Audio and Music Technology
<b>Default Award Title</b>	n/a
<b>Fall-back Award Title</b>	BSc (Hons) Creative Technology Studies
<b>Interim Award Titles</b>	BSc Broadcast Audio and Music Technology Dip HE Broadcast Audio and Music Technology Cert HE Broadcast Audio and Music Technology
<b>UWE Progression Route</b>	n/a
<b>Mode(s) of Delivery</b>	Full time and Sandwich with Foundation year
<b>Codes</b>	UCAS: H6J9 <b>ISIS2: H6J9</b> H6JA (SW), H6JA13 (FT)
<b>Relevant QAA Subject Benchmark Statements</b>	Engineering and Music
<b>CAP Approval Date</b>	June 2015, 16 January 2018 v2
<b>Valid From</b>	September 2015 September 2018 v2
<b>Valid until Date</b>	2019
<b>Version</b>	2

## **Part 2: Educational Aims of the Programme**

The programme in Broadcast Audio and Music Technology has the following general aims:

- To produce graduates prepared for careers as individuals or within organisations in which technology is applied to the creation or distribution of music and sound within the creative industries.
- To provide students with an industry-focused learning experience, which will allow them to develop their musical and production skills in a professional context, and which addresses their academic, professional, social and cultural development. Academic staff will explicitly encourage and support students seeking industry placements in collaboration with the Employability and Enterprise Service

The programme in Broadcast Audio and Music Technology has the following specific aims:

- To award an honours degree in Broadcast Audio and Music Technology and produce graduates who have the ability to make a contribution to companies engaged in the use, design and production of music or audio systems, including radio, television, film, and other arts.
- To educate students in the use and application of technology in creative and performance arts – specifically audio and sound engineering.
- To enable graduates to plan, design and engineer outside broadcast events to a brief.

In addition to the general and specific aims stated above, the option modules have been selected to allow students to tailor their course to suit their specific interests and chosen career path.

### **Programme requirements for the purposes of the Higher Education Achievement Record (HEAR)**

This course enables students to develop broadcast audio practice in a broad based programme centred around professional scenarios and activities. It inculcates fundamental skills, techniques and principals at level 1, before students practice working to more open briefs at levels 2 and 3. Students at all levels are taught and mentored by professional practitioners and our industry partners. Professional practice sits at the core of this degree programme.





## Part 4: Student Learning and Student Support

encourage learners to seek out solutions using a variety of sources.

Level 3 options are designed to promote awareness of the wide range of professional and employment opportunities for all music technology graduates. The partnership with BBC R&M Operations and other individual professionals (Hugh Robjohns) and companies (Red Six Mix, Real World Post Production) will foster close links to the professional broadcast industry and help students develop their quality threshold and gain an understanding of how to deliver professional audio.

Intellectual skills are developed through tutorials and practical sessions that stimulate students' critical, analytical and problem-solving abilities. Computer programming skills are developed to support a means of exercising students' problem-solving skills in individual and group-based activities. During music studio and broadcast exercise sessions the students have the opportunity to rehearse their problem-solving and analytical skills by appraising a range of possible solutions to modern recording and broadcasting problems and determining the most appropriate technique for the creation of professional audio. Business skills are developed and embedded across a range of modules rather than being delivered through dedicated modules. This is due to the wide range of business destinations in which our graduates could find themselves. For example, business concerns in the music industry are developed in music recording modules and the business of broadcast engineering is covered in the BAT specific modules. Advice and guidance is given by current practitioners both freelance and staff.

Communication and team working skills are developed through a variety of methods and strategies including the following:

- Students maintain laboratory log books
- Students participate in electronic conferences, workshops, and groupwork sessions.
- Students participate in discussion tutorials
- Students present research topic findings in tutorials
- Students participate in individual tutorials
- Students respond to feedback both formative and summative

Self-management skills are developed through a variety of methods and strategies including the following:

- Students conduct self-managed practical work
- Students participate in practically-oriented tutorial laboratory sessions
- Students work through practical work-sheets in teams
- Students participate in electronic group-working tutorials

Students arriving on this programme tend already to be fairly fluent in IT skills. This is developed further within the context of the recording studio which makes heavy use of computing software as a core skill for the programme and in the following ways:

- Students conduct self-managed practical work
- Students participate in experimental investigation tutorials
- Students work through practical work-sheets in teams
- Students make use of online teaching materials
- Students use a range of development and audio tools, methods, and packages
- Students are encouraged to practice programming to extend their skills
- Students make sustained use of the internet
- Students submit coursework via online submission systems and receive feedback via similar routes
- Students undertake computer-based exams

Logical reasoning skills are developed through a variety of methods and strategies including the following:

- Case-Studies are used to explore design issues with students
- Students practice design and programming
- Students sketch designs of larger systems
- Students plan and execute recording sessions and deal with unexpected problems that arise during time-critical activities

Problem formulation skills are developed through a variety of methods and strategies including the following:

## Part 4: Student Learning and Student Support

- Students practice design and programming
- Students develop recording/broadcasting session plans
- Students produce stage plans for live events

Progression to independent learning is developed through a variety of methods and strategies including the following:

- Students are encouraged to practice all practical activities within the programme to extend their skills
- Students are encouraged to research relevant topics
- Students are encouraged to use the library, the internet and other online facilities to discover information and broaden knowledge
- Students are encouraged to articulate and reflect upon their own ideas and experiences
- Students negotiate the content and structure of their individual projects with tutors

Comprehension of professional literature is developed through a variety of methods and strategies including the following:

- Students are encouraged to access online material
- Material is recommended to the students in module syllabi and by tutors

Students are required to research and refer to appropriate literature in assignments and the individual project.

### Description of Distinctive Features and Support

The foundation year is common with a number of other Computer Science and Creative Technology programmes which allows the flexibility for students to transfer between programmes in this subject area as is most appropriate for their emergent subject and/or their professional interests.

**Practitioner Lead Content** much of the content and delivery of the programme specific modules will be devised in conjunction with by our partners BBC R&M Operations. And delivered by current practitioners. The content is designed to nurture craft talent tailored to the recruitment needs of the industry. The course fosters proactive, creative individuals who have a solid technical understanding of broadcast audio and can thrive within a team

**Class-based Activities** Classes use a range of activities. The particular mode of delivery of a module is determined by its Module Leader, and typically involves a combination of one or more lectures, practical sessions, group activities and group project work. Modules on the programme that require laboratory classes are commonly delivered by means of a combination of lecture and practicals or tutorials.

**Academic Support** Academic advice and support is the responsibility of the staff delivering the module in question. Staff can be contacted outside of normal timetabled hours, either by appointment or during published "surgery" hours, in order to offer advice and guidance on matters relating to the material being taught and on its assessment.

**On-line Academic Support** Extensive on-line support for this programme is provided through the University portal myUWE. This provides access to the University's e resources, which allows students to read academic journals and study-skills material. Of particular interest to students of this programme is access to Oxford Music Online, RILM, the British Sound Library, Organised Sound, Leonardo Music Journal (MIT), Tempo, twentieth-century Music, Computer Music Journal (MIT), ACM, Society of Audio Engineers Digital library, IEEE and British Standards Online databases. The portal also gives entry to UWE's Virtual Learning Environment (Blackboard) which is used by academics to make available general information about the module delivery, handbooks, lecture notes and other materials. In addition, the portal publishes individual student timetables, marks and other aspects of the operation of the programme and University life.

**Pastoral Support** Pastoral care is provided through the University-wide Student Advisers, a team of staff who provide comprehensive, full-time student support service on a drop-in basis or by

## Part 4: Student Learning and Student Support

appointment. Advisers are trained to provide advice on matters commonly of concern, including regulatory and other matters; the Adviser will, when necessary, advise the student to seek advice to from other professional services including the University's Student Services Department or from members of academic staff.

### Independent Study

Many modules require students to carry out independent study, such as research for projects and coursework assignments, and a full range of facilities are available to help students with these. The philosophy is accordingly to offer students both guided support and opportunities for independent study. Guided support, mainly in the form of timetabled sessions, takes the form of lectures, tutorials, seminars and practical laboratory sessions. Students are expected to attend all sessions on their timetable, and this is especially important because of the high content of practical work in the programme.

This route to independent learning is developed across the three levels of undergraduate study. Initially, learners are provided with specific texts and sources to provide support for lectures, tutorials, practical sessions, assignments and exams. This approach is then developed to guide students to select appropriate sources and texts for a particular task. This culminates in UFCF96-45-3 Music Technology Project where learners must first select an appropriate project task. Subsequently, they research the necessary texts and other resources required to undertake the project, and plan a significant portion of time dedicated to this project.

The development of independent study will also be assisted by the nature of the support offered in other individual modules. Typically, module leaders will provide a plan for the module indicating the activities to be carried out and the forms of learning to be undertaken during the delivery of the module, with a view to encouraging students to plan ahead and to take responsibility for managing their time and resources. This responsibility is generally weighted towards the module teaching team in the early part of the course and shift towards the student as they progress to graduation.

**Computing Facilities** The Faculty offers a specialised computing facility along side the general University provisions. There are multiple computing laboratories of 20 plus seats all running Macintosh based systems required for this program. The specialist laboratories are augmented with software resources and hardware equipment necessary for the delivery of the modules. One of the most popular areas within the Faculty is the Open Access laboratory. This area is never timetabled and gives students the opportunity to access machines at all times during opening hours. This is a mixed environment consisting of Macintosh, PCs and Unix workstations.

**Professional Contexts** The teaching staff on the programme are drawn from a range of backgrounds to support the varied activities undertaken within the programme. These included those with pure academic backgrounds, research and professional practitioners from audio-related industries. This balance enhances the student experience and employability prospects.

## Part 5: Assessment

Approved to [University Regulations and Procedures](#)

It is the Award Board's responsibility to determine whether the student's attainment at level 0 is sufficient to progress to level 1.

### Assessment Strategy

Assessment strategy to enable the learning outcomes to be achieved and demonstrated:

The knowledge and understanding outcomes are assessed in core modules through a variety of methods. Where appropriate examinations are used, principally to test knowledge of theoretical concepts. Coursework is used extensively and offers the opportunity for students to demonstrate their understanding in a number of ways including the writing up of laboratory investigations and recording projects and more general essay-type activities.

## Part 5: Assessment

Intellectual skills are assessed mainly through coursework and examination throughout the award with particular skills focused into module themes spanning the three levels of undergraduate study. The project module, UFCF96-45-3 Music Technology Project, with its assessment based on a substantial report and significant focused practical activity, further develops intellectual skills particularly relating to problem-solving strategies.

The possession of subject specific skills is demonstrated by the development of practical studio and laboratory work, coursework, presentations and examinations. The practical nature of the skills to be acquired means that some are specifically addressed by particular modules.

Communication skills are assessed mainly by examination, but also by in-class tests, essays, presentations and poster presentations. Other transferable skills are assessed through a number of similar instruments including the following:


- Individual and group projects
- Practical assignments
- Portfolio of exercises

In addition, self-management skills are assessed by both peers and tutors through Academic Personal Tutor sessions, and generally throughout the course.



## Part 6: Programme Structure

This structure diagram demonstrates the student journey from Entry through to Graduation for a typical **full time student**, including: level and credit requirements; interim award requirements; module diet, including compulsory and optional modules

ENTRY		Compulsory modules	Optional Modules	Interim awards
	Year 1 (Level 0)	<p><b>UFCFQN-30-0</b> Computational Thinking and Practice</p> <p><b>UFCFPN-30-0</b> Information Practitioner Foundations</p> <p><b>UFCFRN-30-0</b> Creative Technology Studies</p> <p><b>UFCFTN-30-0</b> Web Foundations</p>	None	<p>None</p> <p>120 credits at Level 0</p> <p>Successful completion of all level 0 modules required to permit progression to level 1.</p>
	Year 2 (level 1)	<p><b>Compulsory Modules</b></p> <p><b>UFCFF4-30-1</b> Introductory Audio Programming</p> <p><b>UFCFH4-30-1</b> Audio Technology</p> <p><b>UFCFC4-30-1</b> Audio Engineering</p> <p><b>UFCFGF-30-1</b> Broadcast Technologies</p>	<p><b>Optional Modules</b></p> <p>None</p>	<p><b>Interim Awards</b></p> <p>Cert HE Broadcast Audio and Music Technology</p> <p>Credit Requirements: 240 credits</p> <p>At least 100 credits at level 1 or above.</p> <p>120 credits at level 0</p> <p>Other requirements: 240 credits must include UFCFGF-30-1 for the Broadcast Audio and Music Technology title</p>
	Year 3 (Level 2)	<p><b>Compulsory Modules</b></p> <p><b>UFCFE4-30-2</b> Audio Process Design and Implementation</p> <p><b>UFCFA4-30-2</b> Applied Audio Systems</p> <p><b>UFCFG4-30-2</b> Audio Recording</p> <p><b>UFCFHF-30-2</b> Outside Broadcast</p>	<p><b>Optional Modules</b></p> <p>None</p>	<p><b>Interim Awards</b></p> <p>Dip HE Broadcast Audio and Music Technology</p> <p>Credit requirements: 360 credits</p> <p>At least 100 credits at level 2 or above.</p> <p>At least 120 credits at level 1 or above.</p> <p>120 credits at level 0.</p> <p>Other requirements: 360 credits must include Either UFCFGF-30-1 or UFCFHF-30-2 for the Broadcast Audio and Music Technology title otherwise Fallback award title will apply</p>

Year Out: Students on the Sandwich route complete a placement year. For students on placement, there is an opportunity to complete a professional experience or international experience module and be awarded 15 level 3 credits. These modules are shown in the option list for year 3 but are actually completed during the year out.

	<b>Compulsory Modules</b>	<b>Optional Modules</b>	<b>Interim Awards</b>
Year 4 (Level 3)	UFCF96-45-3 Music Technology Project	UFCFN5-15-3 Instrument Recording Investigation	BSc Broadcast Audio and Music Technology
	UFCFJF-15-3 Broadcast Practice	UFCFE6-15-3 Professional Experience OR	Credit requirements: 420 credits At least 60 credits at level 3 or above.
	UFCFD4-15-3 Audio Post Production	UFCFWJ-15-3 International Experience OR	At least 100 credits at level 2 or above. At least 140 credits at level 1 or above.
		UFCFVJ-15-3 Professional Development	120 credits at level 0.
		UFCFA6-15-3 Audio For Games	Other requirements: 420 credits must include at least 45 credits from UFCFGF-30-1, UFCFHF-30-2 or UFCFJF-15-3 for the Broadcast Audio and Music Technology title otherwise Fallback award title will apply
		UFCF94-15-3 Software Development for Audio	Highest award
		UFCFE5-15-3 Game Audio Programming	BSc(Hons) Broadcast Audio and Music Technology
		UFCFV5-15-3 Live Sound	Credit requirements: 480 credits At least 100 credits at level 3 or above.
		UFCFL6-15-3 Sonic Art	At least 100 credits at level 2 or above. At least 140 credits at level 1 or above.
		UFCFTJ-15-3 Architectural Acoustics	120 credits at level 0.

## GRADUATION

### Part 7: Entry Requirements

The University's Standard Entry Requirements apply with the following additions:

- (a) evidence of achievement in Mathematics at GCSE Grade C or equivalent
- (b) an A level or equivalent in a scientific or technological subject.

Tariff points as appropriate for the year of entry - up to date requirements are available through the [courses database](#).

## Part 8: Reference Points and Benchmarks

### ***QAA subject benchmark statements***

The Broadcast Audio and Music Technology programme falls within the cognate area of the QAA Engineering benchmark. The Engineering Benchmark Statement contains statements of the standards expected of graduates at threshold levels. Graduates of this programme will be able to meet the required standards to meet the benchmark. In addition, some elements of both the Computing and the Music benchmark statements have been influential such as Programming fundamentals (Appendix B Computing) and Music technology and acoustics (Sections 3.14 and 3.15 Music).

### ***University strategies and policies***

The development of this programme reflects well institutional policies and is fully consistent with the University's commitment to 'make a positive difference to our students, business and society'. The programme has been developed with reference to Faculty and University policies on teaching, learning and assessment including a strong emphasis on formative work, skills development, innovative approaches to teaching and learning, and live project briefs where possible.

This programme supports the mission of the University's 2020 Strategy in the following ways, in particular:

- The programme has been developed to provide a practice-oriented learning experience through relevant and real-world scenarios.
- The programme will employ dedicated specialist facilities for broadcast audio both on and off campus in addition to sharing the existing high quality audio technology facilities within the faculty.
- The application and development of digital technologies are embedded in the programme both through practice and other learning experiences.
- Real-world opportunities are promoted on a small scale through individual, isolated learning experiences through to group projects, and placement settings for sandwich students. The programme employs peer-assisted-learning as a key feature for year 1 and 2 students.
- Full-time, part-time and associate lecturing staff are drawn from a range of areas related to broadcast technologies providing professional contexts, up-to-date skills and networking opportunities.
- The programme has developed, and will continue to develop, regional and national partners to support the economic growth and sustainability of the broadcast audio sector.

**FOR OFFICE USE ONLY**

First CAP Approval Date	June 2015			
Revision Approval Date		Version	1	
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Next Periodic Curriculum Review due date				
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