Glasgow School of Art Course Specification
Course Title: Audio Visual Technology

Please note that this course specification is correct on the date of publication but may be subject to amendment prior to the start of the 2023-24 Academic Year.

Course Code:	HECOS Code:	Academic Session:
USMIAVT302		2023-24

1. Course Title:
Audio Visual Technology

2. Date of Approval:	3. Lead School:	4. Other Schools:
PACAAG April 2022	School of Innovation and Technology	N/A

5. Credits:	6. SCQF Level:	7. Course Leader:
20	9	Ronan Breslin

8. Associated Programmes:
BDes Sound for Moving Image

9. When Taught:
Semester 1

10. Course Aims:
This course provides students with a strong foundation of intermediate and advanced knowledge and technical understanding of audio-visual (AV) systems and concepts. The course aims to: • Consolidate and expand upon students' technical knowledge of audio systems • Introduce and consolidate complex technical concepts underpinning digital film and video and interactive workflows • Equip students with the specialised knowledge and practical abilities to produce audio-visual-materials to industry defined technical standards

11. Intended Learning Outcomes of Course:
By the end of this course students will be able to: • Describe and plan the implementation of professional audio-visual systems using formal design tools such as schematic diagrams • Demonstrate a fundamental understanding of basic analog and digital systems as applied to the design and evaluation of audio-visual systems

- Use informed problem-solving skills to analyse and remedy defects within audio-visual systems and material
- Interpret and apply professional technical standards within audio-visual production
- Present technical information in a structured and accessible manner

12. Indicative Content:

Much of the course will be lecture and workshop based. Students will engage with a range of key texts, papers and AV methodologies that will provide them with a fully integrated technical framework for studio-based learning. Students will also undertake practice-based projects that require the application of technical knowledge and problem-solving skills.
- Function of the ear and human auditory perception (head related transfer function, interaural time differences etc)
- Technical critical listening
- Introduction to acoustics
- Audio-Visual system diagrams and schematics
- Introduction to audio electronics
- Technical standards and measurements (eg. Loudness)
- Fault-finding
- Digital audio-visual systems

13. Description of Summative Assessment Methods:

Assessment Method	Description of Assessment Method	Weight %	Submission week (assignments)
Practical Project	A practical audio-visual projects requiring application of technical standards, interpretation of system diagrams and use of basic audio electronics	80	Sem 1 Week 13
Class Test	Class test to evaluate knowledge of key theoretical concepts	20	Sem 1 Week 13

13.1 Please describe the Summative Assessment arrangements:

Assessment 1 will require small groups of students to conceive, design and test audio-visual systems to fulfil a particular design brief. Work will be assessed through a combination of student presentations, a written report and tutor evaluations of finished coursework.

Assessment 2 will be a 60-minute class test assessing students' knowledge and understanding of acoustics, and audio-visual electronics, systems and technical workflows. This class test consists of a 20 question multiple-choice questionnaire to assess students' knowledge, understanding and problem-solving skills in audio-visual technology. The test is carried out in open book conditions so that students can refer to lecture slides if necessary.

14. Description of Formative Assessment Methods:

Engagement with formative assessment is a mandatory requirement.
Verbal feedback is given at design and practical tutorials. Verbal and written feedbacks are given at regular project and portfolio reviews, and through peer review.
Practice class tests are delivered using quizzes/forms on Canvas.

14.1 Please describe the Formative Assessment arrangements:

Formative assessment will be through practice class tests, delivered via Canvas and group tutorials in Semester 1 Week 12

15. Learning and Teaching Methods:	
Formal Contact Hours	**Notional Learning Hours**
36	200
15.1 Description of Teaching and Learning Methods:	
Timetable: Weekly lecture and practical session	

16. Pre-requisites:

17. Can this course be taken by Exchange/Study Abroad students?	Yes
18. Are all the students on the course taught wholly by distance learning?	No
19. Does this course represent a work placement or a year of study abroad?	No
20. Is this course collaborative with any other institutions?	No
20.1 If yes, then please enter the names of the other teaching institutions:	
N/A	

21. Additional Relevant Information:

22. Indicative Bibliography:
Ballou, Glen. (Ed.), 2015. *Handbook for Sound Engineers (Audio Engineering Society Presents)*. Focal Press.

Ballou, Glen. (Ed.), 2015. *Handbook for Sound Engineers (Audio Engineering Society Presents)*. Focal Press.

Brixen, Eddy, 2010. *Audio Metering: Measurements*, Standards & Practice. Focal Press.

Huber, David, 2013. *Modern Recording Techniques*. Focal Press.

Pizzi, Skip, 2014. *A Broadcast Engineering Tutorial for Non-Engineers*. Focal Press.

Rumsey, Frances & McCormick, Tim, 2014. *Sound & Recording: Applications & Theory*. Routledge.

Self, Douglas, 2009. *Audio Engineering Explained*. Focal Press.