

Overview

Programme Code	35605
Programme Title	Art in Science
Awarding Institution	Liverpool John Moores University
Programme Type	Masters
Language of Programme	All LJMU programmes are delivered and assessed in English
Programme Leader	Mark Roughley
Link Tutor(s)	

Awards

Award Type	Award Description	Award Learning Outcomes
Target Award	Master of Arts - MA	See Learning Outcomes Below
Alternative Exit	Postgraduate Diploma - PD	<p>Propose original, creative ideas, concepts and effective responses to communication problems that acknowledge a defined art/science audience and/or context. Be critically aware of a range of international contemporary collaborative areas in art and science practice. Evidence a coherent body of work that explores the boundaries of art and science and confidently manipulate chosen media, materials and processes in a creative and professional manner. Demonstrate, evidence and reflect upon their ability to work collaboratively with peers and external partners by exercising effective networking, communication and organisational awareness. Articulate an appropriate understanding of the conceptual frameworks and critical approaches that inform the production, publication and dissemination of contemporary art &/or design projects through the formulation of innovative, visionary and speculative commercial and/or practical outcomes. Confidently articulate, critically reflect and evaluate through a variety of written methods; research proposals, essays and written reports, related to the student's specific research interests and/or relevant specific area of art/science. Manage and critically reflect on personal and professional development. Be able to study independently at an advanced level and have developed effective methodology skills for original research.</p>
Alternative Exit	Postgraduate Certificate - PC	<p>Communicate with originality, ideas and concepts that acknowledge a defined audience and/or context. Be critically aware of a range of international contemporary collaborative areas in art and science practice, and analyse the concepts, values and debates that inform study and practice in the field. Demonstrate an application of advanced skills and processes and reflect critically on their own work. Confidently manipulate chosen media, materials and processes in a creative and professional manner. Be able to study independently at an advanced level and have developed effective methodology skills for original research. Tackle solving problems independently with creativity and originality.</p>

Alternate Award Names	
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External Benchmarks

Subject Benchmark Statement	
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Programme Offering(s)

Mode of Study, Mode of Delivery	Intake Month	Teaching Institution	Programme Length
Full-Time, Face to Face	September	LJMU Taught	1 Years

Aims and Outcomes

Educational Aims of the Programme

The MA Art in Science programme at Liverpool School of Art and Design facilitates discussions and interactions between subjects that have traditionally been studied in isolation in Higher Education. This provides opportunities for innovation and critical creativity, and encourages students to produce transdisciplinary research that may have a real world benefit to society. The programme provides exciting opportunities for artists and scientists to collaborate across the visual arts and the world of scientific inquiry, and explore the boundaries of art and science. The MA is a studio based programme with collaborative practice and discovery at its core. Students explore the relationship between art and science, including the historical and theoretical connections between art and science as cultures and practices, and understand how these ideas translate into contemporary experiences. The programme encourages students to work across other disciplines and, where appropriate, collaborate with other postgraduate students within the Liverpool School of Art and Design, as well as researchers and practitioners from research groups across LJMU. Access to a number of different research centres and cultural institutions across Liverpool also supports the learning experience. Guest lecturers working across art-science disciplines will expose students to critically engaged making and design practices, and learning from and interacting with globally renowned practitioners and researchers; students will receive a rich and diverse introduction to a range of international collaborative practices that are at the root of cutting edge art-science collaborative research. Learning takes place predominantly through the creative and critical exploration of research focused art-science projects. The programme aims: To make students aware of the practical applications of art in a science context and be guided in understanding how this translates through a sequence of self-initiated projects. To help students define their existing practice and extend its scope and ambition through the development of a series art science projects. To develop new and existing skills, and provide opportunities to apply them within art-science contexts. To provide industry relevant learning and teaching experiences through engagement and collaboration with established internal and external partners, in the fields of science and technology for example, throughout the delivery of the programme. To introduce students to current and emerging practice in relation to a diverse range of historical, theoretical and critical principles. To study themes related to public engagement, research ethics, ethics of display, bioethics/bioart, and working with humans in research. To encourage critical engagement with, and critical evaluation and synthesis of, current art-science concepts, theories and research, to understand research happening in collaborative areas in art and science. To provide a range of learning experiences that will act as critical context for intellectual and professional development within the context of art and science. To develop research skills, relevant approaches to their practice and the critical abilities to support their final project. Enable students to develop critical awareness through group evaluation and group critique. To produce graduates who can apply critical and practical skills, research techniques and understanding in their chosen careers.

Learning Outcomes

Code	Description
PLO1	Be critically aware of a range of international contemporary collaborative areas in art and science practice.
PLO2	Analyse the concepts, values and debates that inform study and practice in the field.
PLO3	Demonstrate a practical understanding of creative, conceptual and technical skills and methods relevant to the realisation of the MA project.

Code	Description
PLO4	Understand the methods involved in designing, creating and promoting art projects in the field of art-science
PLO5	Have complex discussions around issues relating to public engagement, research ethics, bioethics/bioart, ethics of display and working with humans in research.
PLO6	Study independently at an advanced level and have developed effective methodology skills for original research.
PLO7	Understand the historical contexts, conceptual frameworks and critical approaches which inform the practice of art in science.
PLO8	Evaluate critically on contemporary collaborative areas in art and science through the production of written documents.
PLO9	Present research findings in written and visual format; communicate ideas and proposals effectively
PLO10	Engage in focused discussions that demonstrate the ability verbally to articulate current ideas and concepts.
PLO11	Propose original, creative and effective responses to communication problems.
PLO12	Confidently manipulate chosen media, materials and processes in a creative and professional manner with autonomy.
PLO13	Demonstrate the ability to publish and promote work with initiative and responsibility
PLO14	Demonstrate the ability to work collaboratively with peers and external organisations in a professional and responsible manner.
PLO15	Demonstrate an in-depth knowledge of professional art practices and where possible support with placements, work experience and visits to related personal specialisation.
PLO16	Plan and organise an individual programme of study from conception through to final resolution/s.
PLO17	Awareness of issues relevant to Health and Safety in the development of art projects
PLO18	Confidently articulate and communicate through a variety of methods; research, case studies, essays and written reports.
PLO19	Tackle solving problems independently with creativity and originality.
PLO20	Develop knowledge of professional practice, networking and where appropriate collaboration
PLO21	Confidently express communication and entrepreneurial skills in real life situations.
PLO22	Exercise personal time management and strategic planning
PLO23	Manage and critically reflect on personal and professional development.

Programme Structure

Programme Structure Description

The programme is delivered in one year in full time mode. The mode starts in September with a significant period of time taken up with independent study. In full time mode students complete 2x30 credit modules in Semester 1, 2x30 credit modules in Semester 2, and 1x60 credit module between May and August. Modules taught in full-time mode: 7003MAALSAD Research & Practice 1 (30 credits - Semester 1) 7001MAAS Studio Practice - Art in Science (30 credits – Semester 1) 7005MAALSAD Transdisciplinary Practice (30 credits - Semester 2) 7002MAAS Research & Practice 2 - Art in Science (30 credits - Semester 2) 7003MAAS Major Project - Art in Science (60 credits - Summer) Full-time students must choose option modules 7001MAAS Studio Practice - Art in Science, and 7003MAAS Major Project - Art in Science. For 7004MAAS, part-time students will attend lectures/seminars/workshops with full-time students studying 7001MAAS in semester 1 of year 1 and will access additional tutorial support and the specialist resources in the school during semester 2 of year 1 to develop their project outcomes. For 7005MAAS, part-time students will share lectures/seminar/tutorial opportunities with full-time students studying 7003MAAS in the summer of the second year. The module begins in semester 1 of year 2 with continued tutorial support during semester 2 and submission of project outcomes at the end of the summer term. For students who started the programme prior to September 2020, the following modules must be studied: 7003MAALSAD Research and Practice 1 (30 credits - YR1 Semester 1) 7004MAAS Studio Practice - Art in Science (30 credits - YR1 Year Long) 7004MAALSAD Collaborative Practice (30 credits - YR1 Semester 2) 7002MAAS Research & Practice 2 - Art in Science (30 credits - YR2 Semester 2) 7005MAAS Major Project - Art in Science (60 credits - YR2 Year Long) An alternative exit award of Postgraduate Diploma in Art in Science will be offered to students who do not achieve a pass in the Major Project but have gained 120 credits within the programme. An alternative exit award of Postgraduate Certificate in Art in Science will be offered to students who do not achieve a pass in the Major Project but have gained 60 credits within the programme. The Postgraduate Diploma and Postgraduate Certificate are alternative exit awards and do not recruit directly.

Programme Structure - 180 credit points	
Level 7 - 180 credit points	
Level 7 Core - 90 credit points	CORE
[MODULE] 7002MAAS Research and Practice 2 - Art in Science Approved 2022.01 - 30 credit points	
[MODULE] 7003MAALSAD Research and Practice 1 Approved 2022.01 - 30 credit points	
[MODULE] 7005MAALSAD Transdisciplinary Practice Approved 2022.01 - 30 credit points	
Level 7 Optional - 90 credit points	OPTIONAL
[MODULE] 7001MAAS Studio Practice - Art in Science Approved 2022.01 - 30 credit points	
[MODULE] 7003MAAS Major Project - Art in Science Approved 2022.01 - 60 credit points	
[MODULE] 7004MAAS Studio Practice - Art in Science Approved 2022.01 - 30 credit points	
[MODULE] 7005MAAS Major Project - Art in Science Approved 2022.01 - 60 credit points	

Module specifications may be accessed at <https://proformas.ljmu.ac.uk/Default.aspx>

Approved variance from Academic Framework Regulations

Variance

This programme has the following variance to the Academic Framework, approved by Education Committee in April 2020: The Studio Practice module 7004MAAS will be delivered year-long for the part time mode of study.

Teaching, Learning and Assessment

Teaching is through a programme of lectures, seminars, reading groups, workshops, studio critiques and site visits. Learning is consolidated through seminars, tutorials and studio activity. Throughout the learner is encouraged to undertake independent reading and visits, to both supplement and consolidate what is being taught/learnt and to broaden their individual knowledge and understanding of the subject. Visiting lecturers and collaborations with internal and external partners will provide additional input. Students formally present research activities at key stages for formative feedback and peer review. Canvas will make teaching materials readily available. Assessment methods and requirements are specified in the module guide and module proformas. Assessment will be through presentations, proposals, practical projects, reports and supporting documents. The high level of seminar and tutorial contact allows for considerable amount of formative assessment and feedback before the summative assessment points for each module. Teaching is through self-directed development of art-science projects and a programme of themed lectures and seminars that enable students to establish a professional understanding of collaborative areas in art and science. Seminars provide the opportunity for discussion and the development of verbal skills. Studio based group critiques engage the students in critical discussion around their work in the context of their peer group. Individual tutorials provide the opportunity for in-depth discussion about developing practice and the students' motivation. All students will be assigned a personal tutor who will be responsible for their academic development and assessment. Essay, Dissertation, Presentation, Practical projects, Viva, Critical Reflection. Assessment schedules are specified in the module guides. Teaching is through set projects and a programme of technical workshops. Learning is consolidated through practical studio work, seminars, tutorials and group critiques. Interaction with professional figures and industry partners within chosen field of study. Portfolio, Practical projects, Artefacts, Presentation, Exhibition, Reflection. Assessment methods are specified in the module guides. These skills are implicit within the overall learning and teaching methods employed on the programme. Extra-curricular activities including placements, collaborative projects, and social and cultural activities will also develop these skills. Assessments throughout the programme will allow students to demonstrate transferable / key skills.

Opportunities for work related learning

The programme has been designed with collaborative practice and discovery at its core. The programme will offer a number of options for study and collaboration with internal and external partners, via set or self-initiated projects, in order to give postgraduate students the opportunity to gain work-related learning experience. These opportunities will arise during modules 7004MALSAD, 7002MAAS and 7003MAAS. Such opportunities will greatly enhance their professional development and understanding of the practical applications of art in a science context within industry. All students are encouraged to identify and evaluate their programme specific, personal and transferrable skills in an environment external to LJMU. The engagement with the collaborating partners provides work-related experience and insight into the evaluation, production and application of art in a science context, in a local and international context. <https://www.ljmu.ac.uk/eaqs/122164.htm> (Methods of Practice - Section 5 Work Related Learning and Additional Information)

Entry Requirements

Type	Description
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Alternative qualifications considered	An honours degree at 2:1 classification from a UK University (or equivalent overseas qualification) in a related visual arts degree or equivalent. Applicants from a non-standard background are welcomed. Those with non-related degree or non-standard background will be considered on an individual basis and will need to attend an interview and provide a portfolio (plus a CV for non-standard applicants). In addition, all potential candidates are required to demonstrate competence in English Language to English GCSE standard or equivalent. Applicants should be able to demonstrate a sufficient level of knowledge to embark upon the programme (including the linguistic competence) and to complete the programme within the time limits. Two references are required. Applicants must submit a portfolio of 8-12 images of any subject in any media or written work, that demonstrates their own practice and/or interest in art-science. Applicants with non-standard entry qualifications, relevant industry experience or certification are encouraged to apply. In such circumstances applicants must be able to demonstrate that they have appropriate knowledge and skills to degree standard.
Other international requirements	International qualifications considered in line with UK qualifications. Non-UK students will be required to demonstrate command of English Language at IELTS 6.5 (minimum 5.5 in each component) or equivalent qualification. Applicants who have studied and successfully passed a UK-based degree within the previous 24 months are exempt from such requirements.

Extra Entry Requirements