

Overview

Programme Code	36455
Programme Title	Human Evolution and Behaviour
Awarding Institution	Liverpool John Moores University
Programme Type	Degree

Awards

Award Type	Award Description	Award Learning Outcomes
Target Award	Bachelor of Science with Honours - BSH	N/A
Alternative Exit	Certificate of Higher Education - CHE	Apply a broad knowledge base and a range of appropriate analytical techniques to the study human biological variation and evolution. Apply a broad knowledge base and a range of appropriate analytical techniques to the study human biological variation and evolution. Examine the major groups of living primates from a broad range of scientific perspectives and determine key similarities and differences between humans and other primate species. Examine the major groups of living primates from a broad range of scientific perspectives and determine key similarities and differences between humans and other primate species. Operate in a range of science contexts, and take responsibility for their contributions and outputs. Operate in a range of science contexts, and take responsibility for their contributions and outputs.
Alternative Exit	Diploma of Higher Education - DHE	Analyse and evaluate information pertaining to the human evolutionary record and its environmental context. Critically analyse biological variation and adaptation among contemporary human and non-human primates. Take responsibility for their own personal and professional learning and development. A student who successfully completes a placement year will be eligible for the Sandwich award and will, in addition to the above, be able to demonstrate the professional and personal skills necessary for effective employment within a professional environment.

Alternate Award Names	
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External Benchmarks

Subject Benchmark Statement	UG-Earth sciences, environmental sciences and environmental studies (2019)
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Programme Offering(s)

Mode of Study, Mode of Delivery	Intake Month	Teaching Institution	Programme Length Programme Length Unit
Full-Time, Face to Face	September	LJMU Taught	3 Years
Full-Time, Face to Face	September	LJMU Taught	4 Years

Aims and Outcomes

Educational Aims of the Programme	The Biological Anthropology programme aims to provide: A comprehensive course that explores our origins, evolution, and genetic and biological variation through the examination of the recent, archaeological, and palaeoanthropological records, plus an in-depth study of our primate relatives. The opportunity to specialise in particular branches of biological anthropology at and near the frontiers of research, and develop the technical capacity to advance those frontiers. The ability to develop scientific aptitudes such as critical thinking, problem solving and logical argument through the progressive development of key skills such as comparison, understanding, recognition, and statistical analysis, over the course of the programme. In addition to the above scientific and highly transferable skills, opportunities for the enhancement of employment prospects through the development of practical skills in fieldwork and laboratory settings. A high quality and varied learning experience to students from a range of backgrounds and educational experiences that encourages them to take responsibility at an appropriate level and to develop their full potential. The concept of continuous improvement, lifelong learning, and contribution to the wider community through personal development and scholarly activity. In addition to the aims for the main target award, the sandwich programme aims to provide students with an extended period of work experience at an approved partner that will complement their programme of study at LJMU. This will give the students the opportunity to develop professional skills relevant to their programme of study, as well as attitude and behaviours necessary for employment in a diverse and changing environment
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Learning Outcomes

Code	Number	Description
PLO1	1	Evaluate, utilise and present essential facts, concepts, principles and theories of biological anthropology encompassing the study of human biological variation, primatology, palaeoanthropology, archaeology, genetics, evolution, and ecology.
PLO2	2	Evaluate past human responses to environmental change.
PLO3	3	Apply knowledge and understanding to problem solving and hypothesis testing.
PLO4	4	Use appropriate resources (e.g. IT, Library) to find and organise information.
PLO5	5	Demonstrate awareness of the methodologies used in data acquisition, analysis and interpretation.
PLO6	6	Employ a range of methods for the collection, analysis and interpretation of information.
PLO7	7	Undertake fieldwork and/or laboratory investigations in a responsible, safe and ethical manner.
PLO8	8	Evaluate the significance of data using statistical techniques and draw appropriate conclusions.
PLO9	9	Communicate scientific information effectively in written, verbal, and visual forms.
PLO10	10	Use the internet, databases, spreadsheets and word processing packages.

PLO11	11	Operate as an effective member of a team.
PLO12	12	Demonstrate understanding of the physical, behavioural, ecological and genetic aspects of the major primate groups.
PLO13	13	Develop the ability to manage time and tasks appropriately.
PLO14	14	Identify and work towards targets for personal, academic, professional and career development.
PLO15	15	Demonstrate awareness of the palaeoanthropological record and of key stages of human and other primate evolution.
PLO16	16	Understand human biology, anatomy, and aspects of human life history derived from the study of skeletal remains.
PLO17	17	Evaluate the biological and physical factors commonly put forward to explain human uniqueness among primates.
PLO18	18	Understand the physical settings and contexts in which fossil, archaeological and palaeoenvironmental remains are found.
PLO19	19	Understand and critically evaluate primate conservation management practices.
PLO20	20	Understand about the evolutionary origins of human health and disease.
PLO21	21	Analyse, critically appraise, report and explain current research in the field of biological anthropology.

Course Structure

Programme Structure Description	Students will be required to complete 17 modules totalling 360 credits in three years of study. All of the modules will be delivered in the School of Biological and Environmental Sciences. The modules will be 20-credit semester-long, except the final year Dissertation module which will be 40-credit yearlong (shared with other BES programmes). Of these 17 modules, it is proposed that students complete 12 core modules, spread over three years of study, and five out of a selection of seven optional modules. One can be taken at L5 and two at L6. Module options: In Level 5, the students will choose in Semester 1 between Human Anatomy and Genetics (5314NATSCI) and World Archaeology (5311NATSCI). In Level 6, the students will choose in Semester 1 between Palaeopathology (6310NATSCI), Environmental Change (6307NATSCI) and Work Based Learning (6300NATSCI) and in Semester 2 between Environmental Modelling and GIS (6306NATSCI) and Advanced Forensic Anthropology (6312NATSCI). Study Abroad: Students will be offered the opportunity of study abroad at Level 5. Students can choose either Option A or Option B unless they undertake the Sandwich Year, in which case Option B is not available. Option A: replacement of 60 credits of Level 5 with appropriate study abroad. The programme will offer the opportunity of 60 credits of study at Level 5. Students will be enrolled on a 360 credit honours with study abroad programme. A 60 credit Level 5 study abroad module [5354NATSCI] will normally replace the semester 2 modules on the standard programme. This study abroad should cover the same learning outcomes as the modules being replaced. The modules to be studied in the host institution must be agreed in advance. The Level 5 mean for the final award mark will be calculated based upon the 120 credits at Level 5. Option B: additional study year abroad following Level 5. The programme will offer the opportunity of an additional study year abroad following Level 5. Students will be enrolled on a 480 credit honours with study abroad programme. Of those 480 credits, 120 will be taken via a Level 5 study abroad module [5353NATSCI]. The modules to be studied in the host institution must be agreed in advance. The Level 5 mean for the final award mark will be calculated based upon the 240 credits at Level 5. Sandwich Year The placement year will follow Level 5 and students will be enrolled on a 480 credit honours sandwich programme and take the module 5315NATSCI (Sandwich Year-Forensic Anthropology). The Level 5 mean for the final award mark will be calculated based upon the 240 credits at Level 5.
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Programme Structure - 360 credit points	
Level 4 - 120 credit points	
Level 4 Core - 120 credit points	CORE
[MODULE] 4206NATSCI Genetics and Evolution Approved 2022.01 - 20 credit points	
[MODULE] 4212NATSCI Primate Social Systems Approved 2022.01 - 20 credit points	
[MODULE] 4310NATSCI Introduction to Biological Anthropology Approved 2022.01 - 20 credit points	
[MODULE] 4311NATSCI Introduction to Archaeology Approved 2022.01 - 20 credit points	
[MODULE] 4314NATSCI Human Variation, Adaptation, and Ecology Approved 2022.01 - 20 credit points	
[MODULE] 4400NATSCI Climate and Human Evolution Approved 2022.01 - 20 credit points	
Level 5 - 120 credit points	
Level 5 Core - 100 credit points	CORE
[MODULE] 5224NATSCI Primate Adaptation and Behaviour Approved 2022.01 - 20 credit points	
[MODULE] 5302NATSCI GIS and Employability Approved 2022.01 - 20 credit points	
[MODULE] 5310NATSCI Human Osteology Approved 2022.01 - 20 credit points	
[MODULE] 5312NATSCI Excavation and Analytical Techniques Approved 2022.01 - 20 credit points	
[MODULE] 5316NATSCI Palaeoanthropology Approved 2022.01 - 20 credit points	

Level 5 Optional - 20 credit points	OPTIONAL
[MODULE] 5311NATSCI World Archaeology Approved 2022.01 - 20 credit points	
[MODULE] 5314NATSCI Human Anatomy and Genetics Approved 2022.01 - 20 credit points	
Optional placement - 120 credit points	OPTIONAL
Placement Year - 120 credit points	OPTIONAL
[MODULE] 5315NATSCI Sandwich Year - Forensic Anthropology Approved 2022.01 - 120 credit points	
OR Study Abroad - 120 credit points	OPTIONAL
[MODULE] 5353NATSCI Study Year Abroad - Forensic Anthropology Approved 2022.01 - 120 credit points	
Optional Study Semester - 60 credit points	OPTIONAL
[MODULE] 5354NATSCI Study Semester Abroad - Forensic Anthropology Approved 2022.01 - 60 credit points	
Level 6 - 120 credit points	
Level 6 Core - 80 credit points	CORE
[MODULE] 6201NATSCI Research Project Approved 2022.01 - 40 credit points	
[MODULE] 6221NATSCI Primate Conservation Approved 2022.01 - 20 credit points	
[MODULE] 6317NATSCI Current Topics in Biological Anthropology Approved 2022.01 - 20 credit points	
Level 6 Optional - 40 credit points	OPTIONAL
[MODULE] 6300NATSCI Work-Based Learning Approved 2022.01 - 20 credit points	
[MODULE] 6306NATSCI Environmental Modelling and GIS Approved 2022.01 - 20 credit points	
[MODULE] 6307NATSCI Environmental Change Approved 2022.01 - 20 credit points	
[MODULE] 6310NATSCI Palaeopathology Approved 2022.01 - 20 credit points	
[MODULE] 6312NATSCI Advanced Forensic Anthropology Approved 2022.01 - 20 credit points	

Teaching, Learning and Assessment

Teaching, Learning and Assessment	Teaching and Learning: The programme will be delivered through lectures, practical sessions including both PC based and laboratory based sessions, paper based practical sessions, workshops (discussion forums), group and individual project work, tutorials and field classes. The latter will include day-trips to zoos, animal sanctuaries, safari parks, museums and archaeological sites, residential field classes, and fieldwork experience in the UK and abroad. It is estimated that approximately 50% of learning activity will be non-lecture-based, providing students with an active and hands-on approach to learning about Biological Anthropology through practice. The programme will be structured so that there is a transition from the introduction of methods and topics in L4 to increasing applicability in L5 and complex problem solving in L6. Specifically throughout L5, students develop the ability to employ methods and skills strategically to test hypotheses and solve problems. Throughout L6 students will develop and demonstrate the ability to analyse (with increasingly complex data sets and hypotheses to test), synthesise, critically evaluate and apply solutions to real world practical problems relevant to environmental situations/management/conservation. Assessments: Knowledge is assessed via examination (mainly short answer questions) and some coursework. Higher levels of understanding are assessed by examination (essay/interpretative questions) and coursework elements such as field reports and seminar presentations with question & answer sessions. Cognitive skills are developed in many taught sessions, with an increasing emphasis as students progress from level 4 through level 6. Such skills are especially developed during level 6 modules, especially the research project module. The application of thinking skills in a work environment can be developed in the Work Based Learning (WBL) module. Essay/interpretative exam questions are used to assess students cognitive ability for critical thinking. Coursework elements such as field/laboratory reports and in particular the honours project/work-based learning module allows students to demonstrate the full range of their cognitive skills. Practical skills are assessed by submission of practical files, and field/laboratory reports. The research project/WBL portfolio and other level 6 reports allow students to demonstrate the full range of skills they have acquired. Key skills are assessed through coursework at all levels in all modules. Benchmark requirements for scientific writing, oral presentation, poster presentation and field reports are provided in the key skills folder distributed to all students. These form the basis for assessing student skills in coursework assignments.
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Opportunities for work related learning

Opportunities for work related learning
Work-related learning opportunities are available through the routes of employer seminars, guest lectures / workshops, employer-driven assignments and contact during fieldwork. The Work-based Learning placement (135 hrs) and the Sandwich placement (12 months) offer the opportunity for students to gain work experience with a relevant professional organisation. The School has a good record of providing relevant vocational training for students. Students are supported by the Professional Training Tutor who is responsible for advertising placements and promoting vocational training to students. Appropriate Work-based Learning or Sandwich placements (home or abroad) include working with e.g., zoos, conservation centres, archaeological excavations and units, environmental consultancies, museums, and forensic science companies.

Entry Requirements

Type	Description
NVQ	Second year entry can potentially be arranged for candidates who have a HND or HNC with merits in the key relevant units or for those who have passed the first year of a degree programme in a closely related subject elsewhere.
Other international requirements	Applicants should have acquired passes in appropriate examinations in their country of origin and provide evidence of English language ability equivalent to 6.0 IELTS.
BTECs	Applicants should be studying an appropriate Diploma and have (or expect to obtain) a pass with at least 3 merit grades at Level 3 in appropriate units.

International Baccalaureate	Applicants must have (or expect to obtain) the full award including grade 5 in one appropriate science.
A levels	Applicants should have (or expect to obtain) at least 3 A2 Levels or equivalent, at least one of which should be in an appropriate science or social science subject, including but not limited to Biology. We normally set a target of 112 UCAS Tariff points including 32 points in a relevant science at A2. Our minimum points tariff is 104 points and our maximum offer is 120 points; this will depend on subjects being studied. Our offers may be grade specific e.g. we usually expect at least 32 points in an appropriate science or social science subject.
Alternative qualifications considered	All applicants must have GCSE Maths and English with minimum grade C, or equivalent.

Programme Contacts

Programme Leader

Contact Name
Richard Jennings

Link Tutor

Contact Name
