Faculty of Science and Technology
AAFS Framework

Framework/Programme Specification

BSc (Hons) Anthropology
BA (Hons) Archaeology and Anthropology
BSc (Hons) Archaeology
BSc (Hons) Archaeological, Anthropological and Forensic Sciences
BSc (Hons) Forensic Biology
BSc (Hons) Forensic Investigation
BSc (Hons) Forensic Science
MSc Archaeology
MSc Bioarchaeology
MSc Biological Anthropology
MSc Forensic Archaeology
MSc Forensic Toxicology by Research
MSc Maritime Archaeology
MSc Forensic Anthropology
MSc Osteoarchaeology

July 2019
Version number: v1.21-0919
Bournemouth University undertakes to encourage the recognition, protection and exploitation of intellectual property rights generated by participants in this programme, to the benefit, as appropriate, of students, staff, industrial/other third parties/partners and the university.
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BSc (Hons) Archaeological, Anthropological and Forensic Sciences  
BSc (Hons) Forensic Biology  
BSc (Hons) Forensic Investigation  
BSc (Hons) Forensic Science  
MSc Archaeology  
MSc Bioarchaeology  
MSc Biological Anthropology  
MSc Forensic Archaeology  
MSc Forensic Toxicology by Research  
MSc Maritime Archeology  
MSc Forensic Anthropology  
MSc Osteoarchaeology |
| UCAS Programme Code(s) (where applicable and if known) | BSc (Hons) Anthropology J21B  
BA (Hons) Archaeology and Anthropology VL46  
BSc (Hons) Archaeology F400  
BSc (Hons) Archaeological, Anthropological and Forensic Sciences (VF44)  
BSc (Hons) Forensic Biology F3B7  
BSc (Hons) Forensic Investigation F401  
BSc (Hons) Forensic Science F413 |
| HESA JACS (Joint Academic Coding System) Code(s) per programme/pathway | BSc (Hons) Anthropology L600  
BA (Hons) Archaeology and Anthropology V400, L600  
BSc (Hons) Archaeology V400  
BSc (Hons) Archaeological, Anthropological and Forensic Sciences. F400  
BSc (Hons) Forensic Biology F400, C110  
BSc (Hons) Forensic Investigation F410  
BSc (Hons) Forensic Science F410  
MSc Archaeology V400  
MSc Bioarcheology L620, V400  
MSc Biological Anthropology L620  
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MSc Forensic Toxicology by Research F400, B222  
MSc Maritime Archeology V400  
MSc Forensic Anthropology F400, L620  
MSc Osteoarchaeology L620, V400 |
| External reference points(s) | The UK Quality Code for Higher Education;  
arQAA benchmarks in  
Anthropology (2015)  
Archaeology (2014)  
Biomedical Sciences (2007)  
Biosciences (2007)  
Forensic Science (2012)  
(this includes the Master's Degree Characteristics where appropriate) |
Professional, Statutory and Regulatory Body (PSRB) links
Chartered Society of Forensic Science (http://www.csofs.org/)

The Following programmes have been reviewed by the Chartered Society of Forensic Science and:

Accreditation has been awarded to:
- BSc (Hons) Forensic Investigation
- BSc (Hons) Forensic Science
- MSc Forensic Toxicology
- MSc Forensic Anthropology
- MSc Forensic Archaeology

And Recognition has been awarded to
- BSc (Hons) Forensic Biology
- BSc (Hons) Archaeological, Anthropological and Forensic Sciences.

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**Unique reference numbers:** E1415059-E1415075
FST 1516 01/02/03, approved 19/11/2015. Previously version 1.0
HSS1415 02, approved 13.5.15 previously version 1.2
NM 1516 02, approved 04/11/2015
NM 1516 03, approved 08/12/2015
NM 1516 22, approved 31/8/16
FST1516 16/17/18/19, approved 18/5/16. Previously version 1.4-0916
BU 1617 01, approved 24/02/2016. Previously version v1.6-0916
FST 1617 08 (approved 03/02/17) and FST 1617 10 (approved 17/2/17). Previously version 1.7-0917
FST 1617 13 (approved 17/05/17). Previously version 1.8-0917.
FST 1718 01 (approved 18/09/17). Previously version 1.9-0917.
NM 1718 03, approved 17/10/17.
FST 1718 07, approved 18/12/17. Previously version 1.11-0917
FST 1718 12, approved 15/01/18. Previously version 1.12-0917
FST 1718 11, approved 17/01/18. Previously version 1.13-0918
FST 1718 13, approved 14/12/17. Previously version 1.14-0918
FST 1718 18, approved 24/01/18. Previously version 1.15-0918
FST 1718 19, approved 27/03/18. Previously version 1.16-0918
FST 1718 22, approved 13/07/18. Previously version 1.17-0918
FST 1718 24, approved 07/02/2018. Previously version 1.18-0918
FST 1819 03, approved 05/12/2018. Previously version 1.19-0919
EC 1819 07, approved 01/02/2019
EC 1819 08, approved 01/02/2019
EC 1819 12, approved 21/02/2019
BU 1819 01, approved 02/07/19
FST 1819 18, approved 23/07/19, Previously 1.20-0919
EC 1819 40, approved 14/08/19
EC 1920 02, approved 05/09/19
AIMS OF THE DOCUMENT

This document is to provide the Programme Specifications of programmes offered in the new Framework of the new Department of Archaeology, Anthropology and Forensic Sciences (AAFS).
This required a single Framework for all the UG programmes and another for all the PG Programmes in the old School of Applied Sciences to be fragmented and then re-streamed to produce the two Frameworks to be considered in Spring 2015 one for each of the new Departments (AAFS and the Department of Life and Environmental Sciences LES)

The constituent programme of the Framework are as follows

- BSc (Hons) Anthropology (new)
- BA (Hons) Archaeology and Anthropology
- BSc (Hons) Archaeology
- BSc (Hons) Archaeological, Anthropological and Forensic Sciences
- BSc (Hons) Forensic Biology (new)
- BSc (Hons) Forensic Investigation
- BSc (Hons) Forensic Science
- MSc Archaeology (formerly Arch Practice)
- MSc Bioarchaeology (new)
- MSc Biological Anthropology
- MSc Forensic Archaeology
- MSc Forensic Toxicology by Research
- MSc Maritime Archeology
- MSc Forensic Anthropology (formerly Forensic Osteology)
- MSc Osteoarchaeology

This document will identify programme and learning outcomes for all the programmes within the AAFS framework and to articulate the regulations and governing awards offered within this framework.

PROGRESSION ROUTES

There are no progression routes applicable to these programmes.

AIMS OF THE PROGRAMMES

Each programme that follows will provide information on rationale of outcomes, assessment strategies, learning and teaching methods, information on placements to be offered. Individual programme diagrams showing units offered are included.
The Programme Costing Diagrams and the Programme Skills Matrices are included as appendices.
**BSc (Hons) Anthropology**

**PROGRAMME DIAGRAM**

**BSc (Hons) Anthropology**

**Level 6**

Core units (Compulsory)
- Cultural Ecology (20)
- Independent Research Project (40)

Option units
Choose 1 of the following:
- Science of Human Remains (20)
- Anthropology of International Intervention (20)
- Seekers, Believers and Iconoclasts (20)

Choose 2 of the following:
- Animals and Society (20)
- Food, culture and travel (20)
- Primate Behavioural Ecology (20)

**Exit qualification: BSc (Hons) Anthropology**

Sandwich UG programme:
Requires 120 Level 6 credits, 120 Level 5 credits and 120 Level 4 credits and successful completion of a placement year

Standard UG programme:
Requires 120 Level 6 credits, 120 Level 5 credits and 120 Level 4 credits

**Level P**

Optional placement year

**Progression requirements**
Satisfactory completion of a minimum of 30 weeks of work in industry/business

**Level 5**

Core units (Compulsory)
- Themes in Archaeology and Anthropology (20)
- Becoming Human (20)
- Understanding Cultures (20)
- Archaeological Science (20)

Option units
Choose 2 of the following:
- Societies of Prehistoric Europe (20)
- Growing up and growing old (20)
- Rome and Barbarian Europe (20)
- Environmental and Societal Challenges (20)

**Progression requirements**
Requires 120 credits at Level 5

**Exit qualification: Dip HE Anthropology**
Requires 120 Level 5 credits and 120 Level 4 credits

**Level 4**

Core units (Compulsory)
- AAFS Study Skills (20)
- Ancient Peoples and Places (20)
- Introduction to Social Theory (20)
- Human Anatomy and Physiology (20)
- Introduction to Social Anthropology (20)
- Studying Ancient Materials (20)

**Progression requirements**
Requires 120 credits at Level 4

**Exit qualification: Cert HE Anthropology**
Requires 120 Level 4 credits

*Failure of a placement which is specified as a programme exit requirement will require a repeat placement/alternative placement.
ACADEMIC AND PROFESSIONAL CONTEXTS

This new single-honours programme in BSc (Hons) Anthropology is based on the classic three-field approach, combining biological and social anthropology (and, where appropriate, some elements of archaeology). BU is very well-positioned to deliver a competitive BSc in Anthropology as both subject areas are prominently and broadly represented by staff across the university. As well as the existing links between departments within SciTech (between Archaeology, Anthropology and Forensics, Life Sciences and Psychology) and between SciTech and HSC, the proposed programme draws from expertise housed in the schools of Media and Tourism. The proposal thus aligns with the Faculty’s mission to enhance its undergraduate portfolio, and with BU’s initiative to expand the academic footprint of the institution into the social sciences and humanities, while promoting strong interdisciplinary, cross-faculty links and collaboration in areas of international recognition and expertise. The programme is also well-placed to support a 3+1 progression model, providing an excellent foundation for further qualification at Level M in a broad range of postgraduate degrees potentially across a range of schools at BU, due to the broad nature of anthropology as an academic discipline.

A blend of established units from across several Faculties will allow BU to deliver the breadth of topics necessary to provide a challenging BSc programme in this extremely broad discipline. Combining elements of the natural and social sciences and humanities in its core focus on understanding the biocultural nature of humans and human societies and human cultural and biological diversity across the globe and through time, the programme plays to the increasing requirements of employers to seek graduates with a broad range of skills in a discipline widely respected for its long and respected academic history. The immediate societal relevance of the discipline’s focus on understanding the social interactions, behaviour and material culture that underpins human communities aligns strongly with the University’s Fusion agenda and its emphasis on academic endeavour in support of societal needs, while the breadth of the proposed programme provides students with a highly employable mix of specific and transferable skills crossing the arts, humanities and both social and natural sciences.

AIMS OF THE PROGRAMME

This undergraduate programme aims to develop in its students the knowledge, understanding, skills and abilities that will allow them to progress to further study or to employment in areas related to the human biological and cultural diversity.

The primary aim of this programme is the development of undergraduates who:

- Appreciate the range of contemporary human social, biological and cultural diversity
- Understand the ways in which humans interact with one another as individuals, groups and social institutions, and with their cultural and physical environments
- Understand and are able to apply the key theories and lines of evidence relating to the investigation of human social, biological and cultural variation and its evolution and change over time
- Appreciate the distinctive features of, and relationships between, biological and social anthropology and their strengths and limitations in relation to other related disciplines
- Can apply the acquired range of skills and knowledge to specific anthropological problems, and also communicate effectively with those working in these professions and with the wider public
- Recognise the global social contexts and politics which impact on work in social and biological anthropology and engage with other cultures, individuals and groups with sensitivity and judgment
- Have the necessary professional knowledge and management skills to develop successful careers in specialist fields of biological and social anthropology
• Have the ability to carry out independent investigations in the area of biological and/or social anthropological practice

• Have the skills and knowledge necessary for postgraduate study

• Have the qualifications to enter professional bodies/practitioner organisations at levels appropriate to their experience.

The degree also aims to provide students with a substantial range of transferable skills in communication, working with people, field and laboratory practice, computing, qualitative and quantitative data analysis, problem-solving, report-writing, critical analysis of information sources, research design and project management. These provide a basis for professional activity and development which may be applicable in other career areas.

INTENDED LEARNING OUTCOMES

The programme outcomes cover the relevant academic subjects at honours level and set out

• the expectations including, subject knowledge, understanding and skills of an honours graduate in anthropology

• the teaching, learning and assessment methods employed in their education

• the standards expected of them at the point of graduation.

“All programme learning outcomes have been written to reflect the QAA benchmark outcome statements (2007) and the Framework for Higher Education Qualifications (FHEQ).

OVERALL PROGRAMME OUTCOMES

This programme provides opportunities for students to develop and demonstrate knowledge as follows:

A. Subject knowledge and understanding - students will be expected to:

   A1. Comprehend the historical development and multidisciplinary nature of social and biological anthropology and the need to integrate knowledge from a range of subject areas in approaching issues specific to these specialisms.

   A2. Contextualise their subject-specific knowledge and understanding within the legal frameworks and professional and ethical guidelines which apply to social and biological anthropological practice.

   A3. Have a sound knowledge of the ecological, social and historical principles explaining the geographic and temporal patterning of biological and cultural diversity in the contemporary world.

   A4. Demonstrate understanding of and ability to apply the major sources of evidence, theories, concepts and principles relevant to the practice of both social and biological anthropology.

   A5. Have a detailed knowledge and understanding of evidence, theories, concepts and discourse in students’ areas of specialisation within the programme.

B. Intellectual Skills - students will be expected to:

   B1. Critically analyse published work in social and biological anthropology and be able to evaluate the merits and limitations of competing explanations of human social,
cultural and biological diversity.

B2. Gather, analyse and synthesise information relevant to social and biological anthropological issues.

B3. Engage in reasoned, critical and articulate discussions of anthropological concepts and theories drawing from a range of appropriate scholarly sources to support hypotheses and interpretations.

B4. Identify and critically evaluate routine and unfamiliar problems in social and biological anthropological contexts, apply a range of knowledge and skills to develop and implement practical research and solutions, and evaluate their outcomes.

B5. Plan, execute and report on a piece of original research that demonstrates an understanding of anthropological aims, methods and theoretical considerations.

C. Subject-specific skills - students will be expected to:

C1. Identify, select and synthesise a range of lines of evidence relevant to social and/or biological anthropological questions.

C2. Undertake field, laboratory and desk-based work, selecting and applying safely and ethically appropriate equipment and methods for social and biological anthropological research.

C3. Plan and carry out investigations into social and biological anthropological questions using an appropriate range of qualitative and/or quantitative data collection and analytical methodologies in a reflective and critical manner.

C4. Prepare reports and presentations on social/biological anthropological research to professional standard in a range of effective and appropriate formats and for a range of audiences.

C5. Critically evaluate and develop theories and hypotheses relating to social and/or biological anthropological questions, drawing from appropriate theories and approaches from a range of disciplines.

D. Transferable skills - students will be expected to:

D1. Engage in constructive discussion and work in collaboration with others, including staff and students, demonstrating sensitivity to diversity of identity, language, normative and moral positions and professional and organisational differences.

D2. Communicate their own and others’ ideas effectively by oral, written and visual means to a range of different audiences.

D3. Be familiar with and able to apply a range of problem-solving techniques including the use of qualitative and quantitative data and appropriate IT such as the Web, spread sheets, databases and word processing.

D4. Use a variety of techniques to gather and retrieve information and data and assess the reliability and relevance of the information gathered.

D5. Understand their own strengths and weaknesses in learning and study skills and identify and work towards targets for personal, career, and academic development.

D6. Be independent, reflective and critical learners and thinkers.
Level 4 Outcomes – Cert HE Anthropology

A. Subject knowledge and understanding - students will be expected to:

   A1. Be aware of the nature and scope of social and biological anthropology, the
differences and similarities between them, and their relationship with some related
subjects.

   A2. Demonstrate knowledge of the origins and historical development of the
disciplines of social and biological anthropology, its social, cultural and political
context and the legal and ethical guidelines pertaining to its practice.

   A3. Show a basic awareness of the range of human cultural, social and biological
diversity.

   A4. Show a basic awareness of the key concepts, theories and methods in
contemporary social and biological anthropology, and appreciate the role of
academic research and practice more broadly.

B. Intellectual Skills - students will be expected to:

   B1. Identify and utilise appropriate information sources.

   B2. Critically engage with and produce basic interpretations of a variety of sources.

   B3. Construct coherent arguments relating to major contemporary social and biological
anthropological themes.

   B4. Recognise and demonstrate an understanding of the fundamentals of a range
of techniques, including scientific methods, in the practice of social and
biological anthropology and when they may be applied.

C. Subject specific skills - students will be expected to:

   C1. Recognise the nature and significance of different kinds of evidence central to
social and biological anthropology.

   C2. Recognise, observe and describe different classes of primary social and biological
anthropological data and report the data appropriately.

   C4. Write appropriately structured reports and make effective oral presentations
regarding social/biological anthropological research for a range of different
audiences.

   C5. Draw from a range of different theories and approaches from across social and
biological anthropology and related disciplines to assess competing
interpretations of evidence.

D. Transferable skills - students will be expected to:

   D1. Engage in constructive discussion and work in collaboration with others, including
staff and students, demonstrating sensitivity to diversity of identity, language,
normative and moral positions and professional and organisational differences.

   D2. Communicate their own and others’ ideas effectively by oral, written and visual
means to a range of different audiences.

   D3. Be familiar with and able to apply a range of problem-solving techniques including
the use of qualitative and quantitative data and appropriate IT such as the Web,
spread sheets, databases and word processing.
D4. Use a variety of techniques to gather and retrieve information and data and assess the reliability and relevance of the information gathered.

D5. Understand their own strengths and weaknesses in learning and study skills and identify and work towards targets for personal, career, and academic development.

D6. Be independent, reflective and critical learners and thinkers.

**Level 5 Outcomes – DipHE Anthropology**

**A. Subject knowledge and understanding** - students will be expected to have:

A1. An appreciation of the differences between different classes of evidence from social and biological anthropological contexts.

A2. An understanding of the historical, cultural, and political context of social and biological anthropology, its wider relevance in the contemporary world and the legal and ethical considerations involved in anthropological practice.

A3. Be familiar with the major principles governing the geographical and temporal patterning of human biological and cultural diversity.

A4. Understanding of the application of practical methods for collecting and analysing primary data in social and/or biological anthropology, as well as the theoretical bases of and current debates over approaches to interpretation.

A5. Demonstrated knowledge and understanding of a chosen specialised area (e.g. region or theme) of social and/or biological anthropology.

**B. Intellectual Skills** - students will be expected to:

B1. Marshal and critically appraise other people's arguments

B2. Evaluate competing arguments in archaeology and social/ biological anthropology and related disciplines.

B3. Generate hypotheses and produce logical and structured arguments supported by relevant primary and secondary data.

B4. Exercise informed judgment in selecting and using appropriate methods of data gathering and qualitative and quantitative analysis and assemble coherent research/project designs

**C. Subject-specific skills** – students will be expected to

C1. Draw from a range of appropriate lines of evidence central to social and biological anthropology.

C2. Practice a variety of appropriate primary data collection techniques safely and ethically.

C3. Select and apply appropriate qualitative and quantitative techniques to process social and/or biological anthropological data, recognising the potential and limitations of such techniques.

C4. Prepare written and oral presentations to professional standards for a range of audiences.

C5. Critically assess hypotheses and interpretations of social and/or biological anthropological evidence in their historical contexts.
D. Transferable skills: Students will be expected to

D1. Engage in constructive discussion and work in collaboration and teams with others, for example through fieldwork, debate and/or laboratory or project work, demonstrating sensitivity to diversity of identity, language, normative and moral positions and professional and organisational differences.

D2. Communicate their own and others’ ideas effectively by oral, written and visual means to a range of different audiences.

D3. Be familiar with and able to apply a range of problem-solving techniques including the use of qualitative and quantitative data and appropriate IT such as the Web, spreadsheets, databases and word processing.

D4. Use a variety of techniques to gather and retrieve information and data and assess the reliability and relevance of the information gathered, with regard to the importance of safety procedures and ethical guidelines.

D5. Understand their own strengths and weaknesses in learning and study skills and identify and work towards targets for personal, career, and academic development.

D6. Be independent, reflective and critical learners and thinkers.

Level 6 outcomes - BSc (Hons) Anthropology.

A. Subject knowledge and understanding - students will be expected to:

A1. Understand the historical development and multidisciplinary nature of social and biological anthropology and the need to integrate knowledge from a range of subject areas in approaching issues specific to these specialisms.

A2. Contextualise their subject-specific knowledge and understanding within the legal frameworks and professional and ethical guidelines which apply to social and biological anthropological practice.

A3. Have a sound knowledge of the ecological, social and historical principles explaining the geographic and temporal patterning of biological and cultural diversity in the contemporary world.

A4. Demonstrate understanding of and ability to apply the major sources of evidence, theories, concepts and principles relevant to the practice of both social and biological anthropology.

A5. Have a detailed knowledge and understanding of evidence, theories, concepts and discourse in students’ areas of specialisation within the programme.

B. Intellectual Skills - students will be expected to:

B1. Critically analyse published work in social and biological anthropology and be able to evaluate the merits and limitations of competing explanations of human social, cultural and biological diversity.

B2. Gather, analyse and synthesise information relevant to social and biological anthropological issues.

B3. Engage in reasoned, critical and articulate discussions of anthropological concepts and theories drawing from a range of appropriate scholarly sources to support hypotheses and interpretations.
B4. Identify and critically evaluate routine and unfamiliar problems in social and biological anthropological contexts, apply a range of knowledge and skills to develop and implement practical research and solutions, and evaluate their outcomes.

B5. Plan, execute and report on a piece of original research that demonstrates an understanding of anthropological aims, methods and theoretical considerations.

C. **Subject-specific skills** - students will be expected to:

C1. Identify, select and synthesise a range of lines of evidence relevant to social and/or biological anthropological questions.

C2. Undertake field, laboratory and desk-based work, selecting and applying safely and ethically appropriate equipment and methods for social and biological anthropological research.

C3. Plan and carry out investigations into social and biological anthropological questions using an appropriate range of qualitative and/or quantitative data collection and analytical methodologies in a reflective and critical manner.

C4. Prepare reports and presentations on social/biological anthropological research to professional standard in a range of effective and appropriate formats and for a range of audiences.

C5. Critically evaluate and develop theories and hypotheses relating to social and/or biological anthropological questions, drawing from appropriate theories and approaches from a range of disciplines.

D. **Transferable skills** - students will be expected to:

D1. Engage in constructive discussion and work in collaboration with others, including staff and students, demonstrating sensitivity to diversity of identity, language, normative and moral positions and professional and organisational differences.

D2. Communicate their own and others’ ideas effectively by oral, written and visual means to a range of different audiences.

D3. Be familiar with and able to apply a range of problem-solving techniques including the use of qualitative and quantitative data and appropriate IT such as the Web, spread sheets, databases and word processing.

D4. Use a variety of techniques to gather and retrieve information and data and assess the reliability and relevance of the information gathered.

D5. Understand their own strengths and weaknesses in learning and study skills and identify and work towards targets for personal, career, and academic development.

D6. Be independent, reflective and critical learners and thinkers.
| Units                                           | A | A | A | A | A | B | B | B | B | B | C | C | C | C | C | C | D | D | D | D | D |
| Cultural Ecology                               | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Independent Research Project                   |   |   |   |   |   | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Science of Human Remains                       | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Anthropology of International Intervention      | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Seekers Believers and Iconoclasts              | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Animals and Society                            | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Food, Culture and Travel                       | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Primate Behavioural Ecology                    | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Themes in Archaeology and Anthropology         | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Becoming Human                                 | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Understanding Cultures                         | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Archaeological Science                         | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Environmental and Societal Challenges          | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Societies of Prehistoric Europe                | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Growing up and growing old                     | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Rome and Barbarian Europe                      | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Understanding Globalisation                    | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| AAFS Study Skills                              | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Ancient Peoples and Places                     | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Introduction to Social Theory                  | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Human Anatomy and Physiology                   | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Introduction to Social Anthropology            | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Studying Ancient Materials                     | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
### A: Subject knowledge and understanding - students will be expected to:

1. Comprehend the historical development and multidisciplinary nature of social and biological anthropology and the need to integrate knowledge from a range of subject areas in approaching issues specific to these specialisms.
2. Contextualise their subject-specific knowledge and understanding within the legal frameworks and professional and ethical guidelines which apply to social and biological anthropological practice.
3. Have a sound knowledge of the ecological, social and historical principles explaining the geographic and temporal patterning of biological and cultural diversity in the contemporary world.
4. Demonstrate understanding of and ability to apply the major sources of evidence, theories, concepts and principles relevant to the practice of both social and biological anthropology.
5. Have a detailed knowledge and understanding of evidence, theories, concepts and discourse in students' areas of specialisation within the programme.

### B: Intellectual Skills - students will be expected to:

1. Critically analyse published work in social and biological anthropology and be able to evaluate the merits and limitations of competing explanations of human social, cultural and biological diversity.
2. Gather, analyse and synthesise information relevant to social and biological anthropological issues.
3. Engage in reasoned, critical and articulate discussions of anthropological concepts and theories drawing from a range of appropriate scholarly sources to support hypotheses and interpretations.
4. Identify and critically evaluate routine and unfamiliar problems in social and biological anthropological contexts, apply a range of knowledge and skills to develop and implement practical research and solutions, and evaluate their outcomes.
5. Plan, execute and report on a piece of original research that demonstrates an understanding of anthropological aims, methods and theoretical considerations.

### C: Subject-specific skills - students will be expected to:

1. Identify, select and synthesise a range of lines of evidence relevant to social and/or biological anthropological questions.
2. Undertake field, laboratory and desk-based work, selecting and applying safely and ethically appropriate equipment and methods for social and biological anthropological research.
3. Plan and carry out investigations into social and biological anthropological questions using an appropriate range of qualitative and/or quantitative data collection and analytical methodologies in a reflective and critical manner.
4. Prepare reports and presentations on social/biological anthropological research to professional standard in a range of effective and appropriate formats and for a range of audiences.
5. Critically evaluate and develop theories and hypotheses relating to social and/or biological anthropological questions, drawing from appropriate theories and approaches from a range of disciplines.

### D: Transferable skills - students will be expected to:

1. Engage in constructive discussion and work in collaboration with others, including staff and students, demonstrating sensitivity to diversity of identity, language, normative and moral positions and professional and organisational differences.
2. Communicate their own and others' ideas effectively by oral, written and visual means to a range of different audiences.
3. Be familiar with and able to apply a range of problem-solving techniques including the use of qualitative and quantitative data and appropriate IT such as the Web, spread sheets, databases and word processing.
4. Use a variety of techniques to gather and retrieve information and data and assess the reliability and relevance of the information gathered.
5. Understand their own strengths and weaknesses in learning and study skills and identify and work towards targets for personal, career, and academic development.
6. Be independent, reflective and critical learners and thinkers.
*One short placement as an alternative to the optional minimum 30 week placement – Pass/Fail. Failure of a placement which is specified as a programme exit requirement will require a repeat placement/alternative placement.
BSc (Hons) Archaeology

The BSc (Hons) Archaeology programme provides a broad approach to archaeology with, in roughly equal measure, a three-fold emphasis on archaeological science (including the analysis of materials, deposits, human and animal remains, and environmental indicators); archaeological theory and cultural history (focusing on the prehistoric and Roman periods of Europe); and archaeological practice (including field investigation of sites, structures and deposits, project management, and archaeological resource management). It thus reflects the complementary archaeologies of the humanities, sciences, and professional practice identified in the Subject Benchmark.

AIMS OF THE PROGRAMME

This undergraduate programme aims to develop in its students the abilities to work in the archaeological profession and other organisations concerned with archaeology, the historic environment and the heritage sector.

The primary aim of this programme is the development of undergraduates who:

• Have a theoretical and practical knowledge of the scientific, technical and interpretative basis of archaeological practice
• Can apply the acquired range of skills and knowledge to specific archaeological problems, and also communicate effectively with those working in the archaeological profession and with the wider public
• Have the necessary professional knowledge and management skills to develop successful careers in specialist fields of archaeological practice
• Have the ability to carry out independent investigations in the area of archaeological practice
• Have the skills and knowledge necessary for postgraduate study
• Have qualifications to enter The Chartered Institute for Archaeologists (CIfA) at levels appropriate to their experience.

The degree will provide students with a substantial range of transferable skills in communication, working with people, field and laboratory practice, computing, data analysis, problem analysis, research design and project management. These provide a basis for professional activity and development which may be applicable in other career areas.

OVERALL PROGRAMME OUTCOMES

This programme provides opportunities for students to develop and demonstrate knowledge as follows:

Subject knowledge and understanding - students will be expected to:

A1. Understand evidence, theories, concepts and principles relevant to general archaeological practice
A2. Have a detailed knowledge and understanding of evidence, theories, concepts and discourse in students' areas of specialisation within the programme
A3. Understand the multidisciplinary nature of archaeology and the need to integrate knowledge from a range of subject areas in approaching archaeological issues
A4. Have knowledge and understanding of management techniques relevant to archaeological practice

A5. Contextualise this knowledge and understanding within legal frameworks and professional and ethical guidelines which condition archaeological practice

**Intellectual Skills** - students will be expected to:

B1. Critically evaluate issues in an archaeological context;

B2. Analyse and synthesise information relevant to an archaeological issue

B3. Apply appropriate knowledge and skills in the development and implementation of approaches to solving archaeological problems, and evaluate their outcomes

B4. Plan, execute and report on a piece of original research

B5. Integrate evidence from a range of sources to support findings and hypotheses

B6. Critically analyse published work in archaeology

**Subject-specific skills** - students will be expected to:

C1. Select and apply appropriate methods of:
   - archaeological site investigation
   - archaeological site evaluation
   - aspects of artefact or ecofact analysis

C2. Undertake field, laboratory and desk-based work

C3. Analyse results appropriately

C4. Prepare reports and presentations of professional format and standard

C5. Make effective use of the subject literature and other sources of information

C6. Make effective use of IT and software packages relevant to archaeology

**Transferable skills** - students will be expected to:

D1. Work in collaboration with others, including staff and students

D2. Demonstrate problem solving skills and the application of knowledge across discipline areas

D3. Communicate effectively by oral, written and visual means

D4. Use IT including the Web, spread sheets, databases and word processing

D5. Apply a range of basic statistical tests on experimental and fieldwork data

D6. Identify and work towards targets for personal, career, and academic development

D7. Be independent and reflective learners

**LEVEL 4 OUTCOMES – CERT HE ARCHAEOLOGY**

**A. Subject knowledge and understanding** - students will be expected to have:

A1. An introductory awareness of the nature of archaeology and the historic environment
A2. An appreciation of the role of science in archaeological analysis

A3. An introductory understanding of fieldwork in archaeological practice

A4. An awareness of some fundamental themes in contemporary archaeological thought

A5. A knowledge and understanding of the origins and development of archaeology as a discipline

A6. An awareness of the social, cultural, and political context of archaeological interpretation

A7. An awareness of the relationship between the practice of archaeology and the institutional context of that practice

Learning and Teaching Methods and Strategies

- lectures that inform by capturing interest and exciting curiosity;
- directed reading within the specialist literature (including books and periodicals);
- field-visits to appropriate monuments, structures, and collections for direct experience of material covered by the programme;
- practical exercises and demonstrations (in-door and out) and science-based experiments;
- a range of self-guided student-centred learning resources, from paper-based materials to IT-based tutorial modules, chat-rooms, message boards, web-sites and so on.

Assessment

- written and other types of assignments prepared to a defined timetable;
- examinations requiring written essays and/or multiple choice questions;
- fieldwork and/or laboratory notebooks and reports.

Intellectual Skills - students will be expected to:

B1. Read literature and other sources with understanding

B2. Recognise situations in which science may be usefully applied in archaeological investigation

B3. Recognise appropriate techniques in the practice of field archaeology

B4. Reconstruct arguments drawn from contemporary archaeological themes

B5. Define appropriate strategies in learning and communication

Learning and Teaching Methods and Strategies

- practical exercises (in-door and out) and science-based experiments;
- field-visits to appropriate monuments, structures, and collections for direct experience of material covered by the programme;
- seminars that provide the context for group work and small-group discussions;
- tutorials and supervisions for structured regular contact with tutors and supervisors.

Assessment

The assessment of intellectual skills is implicit in elements of the assessment profile listed above (B1 – B5).

Subject specific skills - students will be expected to:
C1. Observe and describe different classes of primary archaeological data, and objectively record their characteristics

C2. Use designated laboratory and fieldwork equipment to generate data

C3. Effectively use sources of archaeological information

C4. Select and apply appropriate statistical techniques to process archaeological data, recognising the potential and limitations of such techniques

C5. Discover and recognise the archaeological significance of material remains and landscapes

C6. Interpret spatial data, integrating theoretical models, traces surviving in present-day landscapes, and excavation data

Learning and Teaching Methods and Strategies

• written and other types of assignment prepared to a defined timetable
• field-visits to appropriate monuments, structures, and collections for direct experience of material covered by the programme;
• practical exercises and demonstrations (in-door and out) and science-based experiments. (C1 – C6)

Assessment

• tests through unseen and seen papers under timed conditions requiring written essays and/or multiple choice questions;
• fieldwork and/or laboratory notebooks and reports.

Transferable skills - students will be expected to:

D1. Present effective oral presentations for different kinds of audiences;

D2. Make effective and appropriate use of C&IT (for example, word processing packages; databases; and spread sheets)

D3. Prepare effective written communications for different readerships

D4. Make effective and appropriate forms of visual presentation (graphics, photographs, spread sheets)

D5. Use information retrieval skills using paper-based and electronic (including www) resources

D6. Apply a range of basic statistical tests to numerical data

D7. Collaborate effectively in a team via experience of working in a group, for example through fieldwork, laboratory and/or project work

D8. Appreciate the importance of safety procedures and responsibilities (both personal and with regard to others) in the field and the laboratory

D9. Demonstrate problem solving skills and the application of knowledge across discipline areas

D10. Be independent and reflective learners
Learning and Teaching Methods and Strategies

- lectures that inform by capturing interest and exciting curiosity;
- directed reading within the specialist literature (including books and periodicals);
- practical exercises and demonstrations (in-door and out) and science-based experiments.

Assessment

Transferable skills are assessed as elements within the assessment profile for this level noted above, additional assessments are in:
- oral presentations;
- annotated bibliographies

LEVEL 5 OUTCOMES - DIPHE ARCHAEOLOGY

Subject knowledge and understanding - students will be expected to have:

A1. An understanding of the intellectual vitality of archaeology, its theoretical basis, current debates over approaches to interpretation, and archaeology's relationship to other disciplines

A2. An understanding of scientific study of archaeological objects and materials

A3. An understanding of principles of environmental investigation in archaeology

A4. A basic knowledge of archaeological project management

A5. A knowledge of research methods applicable to archaeological contexts

A6. An understanding of the concepts and application of scientific methods used in collecting, analysing, and interpreting archaeological data

A7. From specialised investigation, deep understanding of one or more distinct classes of archaeological material

A8. An appreciation of the social, cultural, and political context of archaeological interpretation familiarity with the basic concepts which underpin the subject (such as: archaeological uses of assemblage, culture, and style; approaches to typology, taxonomy, and ancient technology; stratigraphic context; temporality; and landscape)

A9. An understanding of the causes of variation in the reliability of different classes of evidence from archaeological contexts (such as: taphonomy; cultural and non-cultural transformations; depositional processes; and recovery procedures)

A10. An appreciation of the importance of the recovery of primary data through practical experience

A11. A critical awareness of methodologies for quantifying, analysing, and interpreting primary data

A12. An understanding of the use of analogy and experiment in archaeological analysis

Learning and Teaching Methods and Strategies:

- lectures that inform by capturing interest and exciting curiosity;
- directed reading within the specialist literature (including books and periodicals);
- field-visits to appropriate monuments, structures, and collections for direct experience of material covered by the programme;
- field investigation projects including excavations and surveys of various sorts;
• ‘hands-on’ practical exercises and science-based experiments, laboratory-based demonstrations, artefact handling and identification work;
• practical exercises and demonstrations (in-door and out) in excavation and survey methodologies;
• a range of self-guided student-centred learning resources, from paper-based materials to IT-based tutorial modules, chat-rooms, message boards, web-sites and so on;
• team-based exercises;
• work place experience with an archaeological organisation or museum.

Assessment:

• essays and assignments prepared to a defined timetable;
• examination through unseen and seen papers under timed conditions requiring written essays and/or multiple choice questions;
• fieldwork and/or laboratory notebooks and reports;
• unseen tests.

(A1 – A12)

Intellectual Skills - students will be expected to:

B1. Marshal and critically appraise other people’s arguments
B2. Generate hypotheses based on data derived from excavation and fieldwork
B3. Produce logical and structured arguments supported by relevant evidence
B4. Assemble coherent research/project designs
B5. Exercise informed judgment in using appropriate methods of data gathering and analysis
B6. Draw down and apply appropriate scholarly, theoretical, and scientific principles and concepts to archaeological problems

Learning and Teaching Methods and Strategies:

Intellectual skills are acquired through the methodologies listed in 2.2.1 and in addition through:
• seminars that provide the context for group work and small-group discussions;
• tutorials and supervisions for structured regular contact with tutors and supervisors.

Assessment:

• The assessment of intellectual skills is implicit in elements of the assessment profile listed above (B1-B6).

Subject specific skills - students will be expected to:

C1. Practice core fieldwork techniques of identification, surveying, recording, excavation, and sampling
C2. Practice core laboratory techniques of recording, measurement, analysis, and interpretation of archaeological material
C3. Observe and describe different classes of primary archaeological data, and objectively record their characteristics
C4. Select and apply appropriate statistical techniques to process archaeological data, recognising the potential and limitations of such techniques
C5. Discover and recognise the archaeological significance of material remains and landscapes
C6. Interpret spatial data, integrating theoretical models, traces surviving in present-day landscapes, and excavation data

C7. Prepare reports and presentations to professional standards

Learning and Teaching Methods and Strategies:

- field investigation projects including excavations and surveys of various sorts;
- ‘hands-on’ practical exercises and science-based experiments, laboratory-based demonstrations, artefact handling and identification work;
- practical exercises and demonstrations (in-door and out) in excavation and survey methodologies;
- a range of self-guided student-centred learning resources, from paper-based; materials to IT-based tutorial modules, chat-rooms, message boards, web-sites and so on;
- team-based exercises.

Assessment:

- fieldwork and/or laboratory notebooks and reports;
- observed participation of practical team-based exercises in the field, laboratory and/or classroom;
- portfolios of work relating to practical exercises;

Transferable skills - students will be expected to:

D1. Be reflective learners and analyse their strengths and weaknesses

D2. Prepare effective written communications for different readerships

D3. Make effective and appropriate use of C&IT (for example: word processing packages; databases; and spread sheets)

D4. Make critical and effective use of information retrieval skills using paper-based and electronic (including www) resources

D5. Make effective and appropriate forms of visual presentation (graphics, photographs, spread sheets)

D6. Plan, design, and execute a programme of primary research, working independently

D7. Collaborate effectively in a team via experience of working in a group, for example through fieldwork, laboratory and/or project work

D8. Demonstrate problem-solving skills

D9. Conduct analyses of qualitative and quantitative data

D10. Appreciate the importance of safety procedures and responsibilities (both personal and with regard to others) in the field and the laboratory

D11. (As fieldwork often involves working in new environments with minimal support) appreciate and be sensitive to different cultures, and deal with unfamiliar situations

Learning and Teaching Methods and Strategies:

Transferable skills continue to be developed through the range of learning and teaching strategies outlined above, particularly in:

- field investigation projects including excavations and surveys of various sorts;
• ‘hands-on’ practical exercises and science-based experiments, laboratory-based demonstrations, artefact handling and identification work;
• practical exercises and demonstrations (in-door and out) in excavation and survey methodologies;
• a range of self-guided student-centred learning resources, from paper-based; materials to IT-based tutorial modules, chat-rooms, message boards, web-sites and so on;
• team-based exercises;
• work place experience with an archaeological organisation or museum.

Assessment:

• fieldwork and/or laboratory notebooks and reports;
• observed participation of practical team-based exercises in the field, laboratory and/or classroom;
• portfolios of work relating to practical exercises;
(D1 – D11)

Level 6 outcomes - BSc (Hons) Archaeology

Subject knowledge and understanding - students will be expected to have:

A1. An understanding of the relationship between the practice of archaeology and the institutional context of that practice
A2. A broad and comparative knowledge of the archaeology of selected geographical regions
A3. A broad and comparative knowledge of the archaeology of selected chronological periods
A4. From specialised investigation, deep understanding of one or more distinct classes of archaeological material
A5. An appreciation of the social, cultural, and political context of archaeological interpretation

Learning and Teaching Methods and Strategies:

Many of the methodologies previously listed will continue to be employed, but there will be an increased emphasis on independent and group-based learning. The student's experience will depend on the options selected. Of particular note is independent learning associated with the directed or independent research project.

Assessment:

In the core units:
• essays and assignments prepared to a defined timetable;
• examination through unseen and seen papers under timed conditions requiring written essays and/or multiple choice questions;
• production of a directed or independent research project

Intellectual Skills - students will be expected to:

B1. Marshal and critically appraise other people's arguments. Critically evaluate and review information from a range of sources
B2. Define problems, devise and evaluate possible solutions
B3. Assemble coherent research/project designs
B4. Draw down and apply appropriate scholarly, theoretical, and scientific principles and concepts to archaeological problems

B5. Critically apply knowledge and understanding to specific situations

Learning and Teaching Methods and Strategies:
Intellectual skills are acquired through the learning and teaching methods and strategies outlined above. The student’s experience will depend on the options selected. Of particular note is the independent learning associated with the research project.

Assessment:
In the core units:

• essays and assignments prepared to a defined timetable;
• examination through unseen and seen papers under timed conditions requiring written essays and/or multiple choice questions;
• production of a research project.

Subject specific skills - students will be expected to:

C1. Observe and describe different classes of primary archaeological data, and objectively record their characteristics

C2. Conduct and present a research project

C3. Relate original research findings to existing literature and archaeological context

Learning and Teaching Methods and Strategies:
Subject specific skills are acquired through the learning and teaching methods and strategies outlined above. The student’s experience will depend on the options selected. Of particular note is the learning associated with the research project.

Assessment:
In the core units:

• essays and assignments prepared to a defined timetable;
• examination through unseen and seen papers under timed conditions requiring written essays and/or multiple choice questions;
• production of a research project

Transferable skills - students will be expected to:

D1. Undertake self-management and personal organisation (e.g. time management)

D2. Work under pressure to meet deadlines

D3. Communicate effectively

D4. Plan, design, and execute a programme of primary research, working independently

D5. (As fieldwork often involves working in new environments with minimal support) appreciate and be sensitive to different cultures, and deal with unfamiliar situations

D6. Be able critically to evaluate one's own and others' opinions, from an appreciation of the practice of archaeology in its changing theoretical, methodological, professional, ethical, and social contexts

Learning and Teaching Methods and Strategies:
Transferable skills are acquired through the learning and teaching methods and strategies outlined above. The student’s experience will depend on the options selected
Assessment:
In the core units:
• essays and assignments prepared to a defined timetable;
• examination through unseen and seen papers under timed conditions requiring written essays and/or multiple choice questions;
production of a research project
### BSc Archaeology Programme Skills Matrix Template

Matrix table showing the relationship between ILOs for a programme and its constituent units

<table>
<thead>
<tr>
<th>Units</th>
<th>Programme Intended Learning Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
</tr>
<tr>
<td>The Science of Human Remains</td>
<td>X</td>
</tr>
<tr>
<td>Archaeological Management</td>
<td>X</td>
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<td>Independent Research Project</td>
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<td>Maritime Archaeology</td>
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<td>Rome and Barbarian Europe</td>
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<td>Studying Ancient Materials</td>
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### A - Subject Knowledge and Understanding

| 1. | Understand evidence, theories, concepts and principles relevant to general archaeological practice |
| 2. | Have a detailed knowledge and understanding of ancient. Behaviors, concepts and theories in student areas of specialisation in the programme |
| 3. | Understand the multidisciplinary nature of archaeology and the need to integrate knowledge from a range of subject areas in approaching archaeological issues |
| 4. | Have knowledge and understanding of management techniques relevant to archaeological practice |
| 5. | Understand the knowledge and understanding of legal frameworks and professional and ethical guidelines in the condition of archaeological practice |

### B - Intellectual Skills

| 1. | Critically evaluate issues in an archaeological context |
| 2. | Analyse and synthesise information relevant to an archaeological context |
| 3. | Apply appropriate knowledge and skills in the development and implementation of approaches to solving archaeological problems, and evaluate the outcomes |
| 4. | Plan, execute and report on a piece of original research |
| 5. | Integrate evidence from a range of sources to support theories and hypotheses |
| 6. | Critically analyse published work in archaeology |

### C - Transferable Skills

| 1. | Work in collaboration with others, including staff and students |
| 2. | Demonstrate problem-solving skills and the application of knowledge across discipline areas |
| 3. | Communicate effectively by oral, written and visual means |
| 4. | Use IT including the Web, spreadsheet databases and word-processing (general) |
| 5. | Apply a range of basic statistical tests on experimental and fieldwork data |
| 6. | Identify and work towards targets for personal, career, and academic development |

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### D - Transferable Skills

| 1. | Select and apply appropriate methods of archaeological site investigation, archaeological site evaluation, aspects of archival or verbal analysis |
| 2. | Understand how laboratory and distribution are used |
| 3. | Analyse results appropriately |
| 4. | Prepare reports and presentations of professional format and standard |
| 5. | Make effective use of IT and software packages relevant to archaeology (specialist) |
| 6. | Work in collaboration with others, including staff and students |
| 7. | Identify and work towards targets for personal, career, and academic development |

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### C - Subject-specific/Practical Skills

| 1. | Understand evidence, theories, concepts and principles relevant to general archaeological practice |
| 2. | Have a detailed knowledge and understanding of ancient. Behaviors, concepts and theories in student areas of specialisation in the programme |
| 3. | Understand the multidisciplinary nature of archaeology and the need to integrate knowledge from a range of subject areas in approaching archaeological issues |
| 4. | Have knowledge and understanding of management techniques relevant to archaeological practice |
| 5. | Understand the knowledge and understanding of legal frameworks and professional and ethical guidelines in the condition of archaeological practice |

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BA (Hons) Archaeology and Anthropology

PROGRAMME DIAGRAM
BA (Hons) Archaeology and Anthropology

Year 4/Level 6
Core units (Compulsory)
Independent Research Project (40)
Cultural Ecology (20)
Choose 1 of the following: Later Prehistoric Britain (20), Archaeological Management (20), Anthropology of International Intervention (20), Seekers Believers and Iconoclasts
Exit qualification: BA (Hons) Archaeology and Anthropology
Sandwich UG programme:
Requires 120 Level 6 credits, 120 Level 5 credits and 120 Level 4 credits and successful completion of a placement year
Standard UG programme:
Requires 120 Level 6 credits, 120 Level 5 credits and 120 Level 4 credits

Year 3/Level P
Optional placement year in industry/business
Progression requirements
Satisfactory completion of a minimum of 30 weeks of work in industry/business

Year 2/Level 5
Core units (Compulsory)
Field and Research Skills (20)
Themes in Archaeology and Anthropology (20)
Becoming Human (20)
Option units
Choose 1 of the following:
Post Excavation skills (20)
Archaeological Science (20)
Understanding Cultures (20)
Choose 2 of the following:
Growing up and Growing Old (20)
Rome & Barbarian Europe (20)
Societies of Prehistoric Europe (20)
Maritime Archaeology (20)
Progression requirements
Requires 120 credits at Level 5
Exit qualification: Dip HE Archaeology and Anthropology
Requires 120 Level 5 credits and 120 Level 4 credits

Year 1/Level 4
Core units (Compulsory)
Ancient Peoples & Places (20)
Approaches to Archaeology (20)
AAFS Study Skills (20)
Archaeological Practice (20)
Gathering Time (20)
Introduction to Social Anthropology (20)
Progression requirements
Requires 120 credits at Level 4
Exit qualification: Cert HE Archaeology and Anthropology
Requires 120 Level 4 credits
BA (Hons) Archaeology and Anthropology

The programme offers a comprehensive range of topics, including archaeological and anthropological theory, prehistory, cultural ecology, environmental archaeology, field archaeology, social anthropology and sociology, biological anthropology, primate behavioural ecology, and human evolution. The collaboration between schools means that, unusually for Archaeology and Anthropology programmes, there is equal strength of expertise across all three fields (natural sciences, social sciences, humanities), and as a result, after the thorough grounding students receive in the fundamentals of archaeology, as well as social and biological anthropology at Level C, they are able to select optional units at Level I and H from Applied Sciences and/or Health and Social Care that allow them either to specialise in one of the three fields or to pursue a programme of study which maintains a balance between two or all three fields throughout the programme. The design of the programme facilitates this through the range of available optionality, ensuring that core elements of the curriculum can be combined with bespoke optional units in a way that interrelate the three fields or to create different pathways within the programme.

AIMS OF THE PROGRAMME

This undergraduate programme aims to develop in its students the knowledge, understanding, skills and abilities that will allow them to progress to further study or to employment in areas related to the investigation and preservation of the prehistoric and historic environment and/or in human biological and social diversity and development.

The primary aim of this programme is the development of undergraduates who:

- Have a firm understanding of the practical, technical and theoretical bases of archaeological and anthropological practice and interpretation
- Appreciate the range of human social, biological and cultural diversity in contemporary, historic and prehistoric contexts
- Understand the ways in which humans interact with one another as individuals, groups and social institutions, and with their cultural and physical environments
- Understand and are able to apply the key theories and lines of evidence relating to the investigation of human social, biological and cultural variation and its evolution and change over time
- Appreciate the distinctive features of, and relationships between, biological and social anthropology and archaeology and their strengths and limitations in relation to other related disciplines
- Can apply the acquired range of skills and knowledge to specific archaeological and anthropological problems, and also communicate effectively with those working in these professions and with the wider public
- Recognise the global social contexts and politics which impact on work in archaeology and social and biological anthropology and engage with other cultures, individuals and groups with sensitivity and judgment
- Have the necessary professional knowledge and management skills to develop successful careers in specialist fields of archaeological and biological and social anthropological practice
- Have the ability to carry out independent investigations in the area of archaeological, biological and/or social anthropological practice
- Have the skills and knowledge necessary for postgraduate study
- Have the qualifications to enter professional bodies/practitioner organisations at levels appropriate to their experience.
The degree also aims to provide students with a substantial range of transferable skills in communication, working with people, field and laboratory practice, computing, data analysis, problem-solving, report-writing, critical analysis of information sources, research design and project management. These provide a basis for professional activity and development which may be applicable in other career areas.

INTENDED LEARNING OUTCOMES

The programme outcomes cover the relevant academic subjects at honours level and set out the expectations including, subject knowledge, understanding and skills of an honours graduate in sociology and social policy the teaching, learning and assessment methods employed in their education the standards expected of them at the point of graduation.

*All programme learning outcomes have been written to reflect the QAA benchmark outcome statements (2007) and the Framework for Higher Education Qualifications (FHEQ).

OVERALL PROGRAMME OUTCOMES

This programme provides opportunities for students to develop and demonstrate knowledge as follows:

A. **Subject knowledge and understanding** - students will be expected to:

A1. Demonstrate knowledge and understanding of evidence, theories, concepts and principles relevant to the practice of archaeology and social and biological anthropology

A2. Have a detailed knowledge and understanding of evidence, theories, concepts and discourse in students’ areas of specialisation within the programme

A3. Have a sound knowledge of the range of cultural diversity in the past and contemporary world and its temporal and geographical patterning

A4. Understand the historical development and multidisciplinary nature of archaeology and social and biological anthropology and the need to integrate knowledge from a range of subject areas in approaching issues specific to these specialisms

A5. Contextualise their subject-specific knowledge and understanding within the legal frameworks and professional and ethical guidelines conditioning archaeological and social and biological anthropological practice

B. **Intellectual Skills** - students will be expected to:

B1. Identify and critically evaluate routine and unfamiliar problems in archaeological and social and biological anthropological contexts and apply a range of knowledge and skills to develop and implement practical research and solutions and evaluate their outcomes

B2. Analyse and synthesise information relevant to archaeological and social and biological anthropological issues

B3. Plan, execute and report on a piece of original research

B4. Integrate evidence from a range of sources to support findings and hypotheses

B5. Critically analyse published work in archaeology and social and biological anthropology and be able to critically assess the merits and limitations of competing explanations of human diversity and behaviour

B6. Engage in reasoned, critical and articulate discussions based on a range of
appropriate scholarly sources

C. **Subject-specific skills** - students will be expected to:

C1. Identify appropriate archaeological and social and biological anthropological questions and problems for investigation

C2. Undertake field, laboratory and desk-based work, selecting and applying safely appropriate field, laboratory and analytical equipment and methods for archaeological and social and biological anthropological investigation and observing and recording results accurately

C3. Consider the ethical implications of archaeological and social and biological anthropological research in a variety of applied research settings

C4. Integrate archaeological and social/biological anthropological information and analyse and interpret results objectively using an appropriate range of qualitative and/or quantitative methodologies in a reflective and critical manner

C5. Prepare reports and presentations on archaeological and social/biological anthropological research to professional standard in a range of effective and appropriate formats

C6. Make effective use of the archaeological and social/biological anthropological literature and other sources of information

C7. Make effective use of IT and software packages relevant to archaeology and social and biological anthropology

D. **Transferable skills** - students will be expected to:

D1. Work in collaboration with others, including staff and students, and negotiate across differences such as organisational and professional boundaries and differences of identity or language

D2. Demonstrate sensitivity to the values and interest of others, taking into account different normative and moral positions

D3. Communicate effectively by oral, written and visual means

D4. Demonstrate problem solving skills and the application of knowledge across discipline areas

D5. Use IT including the Web, spread sheets, databases and word processing

D6. Use a variety of techniques to gather and retrieve information and data and assess the reliability and relevance of the information gathered.

D7. Identify and work towards targets for personal, career, and academic development

D8. Be independent and reflective learners

**Level 4 Outcomes – CertHE Archaeology and Anthropology**

A. **Subject knowledge and understanding** - students will be expected to:

A1. Be aware of the nature of archaeology and social and biological anthropology and be familiar with some fundamental themes in contemporary archaeological and social and biological anthropological thought
A2. Demonstrate an understanding of the complementary roles of fieldwork and analysis in archaeological and social and biological anthropological practice, and appreciate the role of scientific practice more broadly

A3. Have obtained a range of basic practical laboratory and fieldwork experience and skills

A4. Have obtained a range of academic skills, including academic writing, referencing and qualitative and quantitative analysis

A5. Demonstrate a knowledge and understanding of the origins and development of the disciplines of archaeology and social and biological anthropology

A6. Demonstrate awareness of the social, cultural and political context of archaeological and social and biological anthropological interpretation

B. Intellectual Skills - students will be expected to:

B1. Identify and utilise appropriate information sources.

B2. Recognise and apply appropriate learning and communication methods

B3. Read literature and other sources with understanding

B4. Recognise and demonstrate an understanding of the fundamentals of a range of techniques, including scientific methods, in the practice of archaeology and social and biological anthropology and when they may be applied

B5. Identify key differences between the interpretation and significance of qualitative and quantitative data

B6. Construct coherent arguments relating to major contemporary archaeological and social and biological anthropological themes

C. Subject specific skills - students will be expected to:

C1. Recognise, observe and describe different classes of primary archaeological and social and biological anthropological data, record accurately and objectively and report the data appropriately

C2. Use laboratory and fieldwork equipment to generate data

C3. Identify and use effectively a variety of differing types of archaeological and social and biological anthropological information and evidence

C5. Select and apply appropriate qualitative and quantitative techniques to process archaeological and social and anthropological data and recognise the potential and limitations of such techniques

C4. Write appropriately structured reports and make effective oral presentations on archaeological and social/biological anthropological research for a range of different audiences.

C6. Integrate a range of different kinds of information from across archaeology, social and biological anthropology and related disciplines to develop plausible interpretations of evidence

D. Transferable skills - students will be expected to:

D1. Collaborate effectively in a team with others, including staff and students, and negotiate across differences such as organisational and professional boundaries and differences of identity or language
D2. Appreciate the importance of safety procedures and responsibilities (both personal and with regard to others) in the field and the laboratory

D3. Demonstrate sensitivity to the values and interest of others, taking into account different normative and moral positions

D4. Communicate effectively by oral, written and visual means with different audiences

D5. Demonstrate problem solving skills and the application of knowledge across discipline areas

D6. Use a variety of techniques to gather and retrieve information and data and assess the reliability and relevance of the information gathered

D7. Use IT including the Web, spread sheets, databases and word processing

D8. Be independent and reflective learners

**Level 5 Outcomes – DipHE Archaeology and Anthropology**

**A. Subject knowledge and understanding** - students will be expected to have:

A1. An understanding of the intellectual vitality of archaeology and social/biological anthropology, the theoretical bases of the disciplines, current debates over approaches to interpretation, and the relationships among the disciplines and with other related subjects

A2. An understanding of the basic concepts and application of practical methods used in collecting, analysing using qualitative and quantitative techniques and interpreting archaeological and/or biological/social anthropological data

A3. A basic knowledge of archaeological project management

A4. Knowledge of research methods applicable to archaeological and social and biological anthropological contexts

A5. Demonstrated a detailed knowledge and understanding of a chosen specialised area (e.g. class of data, period or region) of archaeology and/or social/biological anthropology

A6. An appreciation of the social, cultural, and political context of archaeological and social and biological anthropological interpretation and its wider relevance in the contemporary world

A7. An appreciation of the causes of variation in the reliability of different classes of evidence from archaeological and social/biological anthropological contexts (such as: taphonomy; cultural and non-cultural transformations; depositional processes; recovery procedures; cultural bias)

A8. An appreciation of the importance of the recovery of primary data through practical experience

**B. Intellectual Skills** - students will be expected to:

B1. Marshal and critically appraise other people's arguments

B2. Generate hypotheses based on data derived from excavation and fieldwork

B3. Produce logical and structured arguments supported by relevant evidence
B4. Assemble coherent research/project designs
B5. Exercise informed judgment in using appropriate methods of data gathering and qualitative and quantitative analysis
B6. Draw down and apply appropriate scholarly, theoretical, and scientific principles and concepts to archaeological problems
B7. Evaluate competing arguments in archaeology and social/ biological anthropology and related disciplines.

C. Subject-specific skills – students will be expected to

C1. Recognise the nature and significance of different kinds of data and evidence central to archaeology and social/ biological anthropology
C2. Practice a variety of core fieldwork techniques including identification, surveying, recording, excavation, sampling and participant observation
C3. Use field and/or laboratory equipment safely and appropriately
C4. Practice core post-fieldwork and laboratory techniques of the accurate and objective recording, measurement, analysis and interpretation of archaeological and social/biological anthropological material
C5. Observe and describe different classes of primary archaeological data, and objectively record their characteristics
C6. Select and apply appropriate qualitative and quantitative techniques to process archaeological, and social/biological anthropological data, recognising the potential and limitations of such techniques
C7. Prepare reports and presentations to professional standards

D. Transferable skills: Students will be expected to

D1. Be reflective learners and analyse their strengths and weaknesses
D2. Prepare effective written communications for different readerships
D3. Make effective and appropriate use of C&IT (for example: word processing packages, databases and spread sheets)
D4. Make critical and effective use of information retrieval skills using paper-based and electronic (including WWW) resources
D5. Make effective and appropriate forms of visual presentation (graphics, photographs, spread sheets)
D6. Collaborate effectively in a team via experience of working in a group, for example through fieldwork, laboratory and/or project work
D7. Demonstrate problem-solving skills
D8. Conduct analyses of qualitative and quantitative data
D9. Appreciate the importance of safety procedures and responsibilities (both personal and with regard to others) in the field and the laboratory
D10. Appreciate and be sensitive to different cultures and diverse individuals
Level 6 outcomes - BA (Hons) Archaeology and Anthropology

A. Subject knowledge and understanding - students will be expected to:

A1. Demonstrate knowledge and understanding of evidence, theories, concepts and principles relevant to the practice of archaeology and social and biological anthropology

A2. Have a detailed knowledge and understanding of evidence, theories, concepts and discourse in students’ areas of specialisation within the programme

A3. Have a sound knowledge of the range of cultural diversity in the past and contemporary world and its temporal and geographical patterning

A4. Understand the historical development and multidisciplinary nature of archaeology and social and biological anthropology and the need to integrate knowledge from a range of subject areas in approaching issues specific to these specialisms

A5. Contextualise their subject-specific knowledge and understanding within the legal frameworks and professional and ethical guidelines conditioning archaeological and social and biological anthropological practice

B. Intellectual Skills - students will be expected to:

B1. Identify and critically evaluate routine and unfamiliar problems in archaeological and social and biological anthropological contexts and apply a range of knowledge and skills to develop and implement practical research and solutions and evaluate their outcomes

B2. Analyse and synthesise information relevant to archaeological and social and biological anthropological issues

B3. Plan, execute and report on a piece of original research

B4. Integrate evidence from a range of sources to support findings and hypotheses

B5. Critically analyse published work in archaeology and social and biological anthropology and be able to critically assess the merits and limitations of competing explanations of human diversity and behaviour

B6. Engage in reasoned, critical and articulate discussions based on a range of appropriate scholarly sources

C. Subject-specific skills - students will be expected to:

C1. Identify appropriate archaeological and social and biological anthropological questions and problems for investigation

C2. Undertake field, laboratory and desk-based work, selecting and applying safely appropriate field, laboratory and analytical equipment and methods for archaeological and social and biological anthropological investigation and observing and recording results accurately

C3. Consider the ethical implications of archaeological and social and biological anthropological research in a variety of applied research settings

C4. Integrate archaeological and social/biological anthropological information and analyse and interpret results objectively using an appropriate range of qualitative and/or quantitative methodologies in a reflective and critical manner

C5. Prepare reports and presentations on archaeological and social/biological anthropological research to professional standard in a range of effective and
appropriate formats

C6. Make effective use of the archaeological and social/biological anthropological literature and other sources of information

C7. Make effective use of IT and software packages relevant to archaeology and social and biological anthropology

D. Transferable skills - students will be expected to:

D1. Work in collaboration with others, including staff and students, and negotiate across differences such as organisational and professional boundaries and differences of identity or language

D2. Demonstrate sensitivity to the values and interest of others, taking into account different normative and moral positions

D3. Communicate effectively by oral, written and visual means

D4. Demonstrate problem solving skills and the application of knowledge across discipline areas

D5. Use IT including the Web, spread sheets, databases and word processing

D6. Use a variety of techniques to gather and retrieve information and data and assess the reliability and relevance of the information gathered

D7. Identify and work towards targets for personal, career, and academic development

D8. Be independent and reflective learners

LEARNING AND TEACHING STRATEGIES AND METHODS

Level 4 Learning and Teaching Methods and Strategies

Subject knowledge and understanding
- Lectures that inform by capturing interest and exciting curiosity.
- Directed reading within the specialist literature (including books and periodicals).
- Practical exercises, experiments and demonstrations (in-door and out).
- A range of self-guided student-centred learning resources, from paper-based materials to IT-based tutorial modules, chat-rooms, message boards, web-sites and so on.

Intellectual Skills
Intellectual skills are acquired through the learning and teaching methods and strategies outlined above in addition to the below specified learning contexts students are encouraged by academic staff to undertake independent reading and the University Support Services offer sessions in the use of, for example, library and study skills.

Subject specific skills
Specific subject outcomes are attained through the learning and teaching methods outlined above, including lectures, practicals, fieldwork and small-group work. Additional support in the area of library skills is provided by the Subject Librarian during the first term.

Transferable skills
Transferable skills are developed through the learning and teaching methods and strategies outlined above. Students are encouraged to undertake independent reading and to relate the concepts introduced in Level C. Regular feedback on assignments, formative online assignments and in practicals allows students to develop not only their understanding, but also their ability to communicate their ideas. IT skills are developed through components of some Level C units and through individual learning that is supported by University-wide workshops offered by Academic Services.
Level 5 Learning and Teaching Methods and Strategies

Subject Knowledge and understanding:
- lectures that inform by capturing interest and exciting curiosity
- directed reading within the specialist literature (including books and periodicals)
- field-visits to appropriate monuments, structures, and collections for direct experience of material covered by the programme
- ‘Hands-on’ practical exercises and science-based experiments, laboratory-based demonstrations, artefact handling and identification work as individuals or in groups
- practical exercises and demonstrations (in-door and out) in excavation and survey methodologies
- a range of self-guided student-centred learning resources, from paper-based materials to IT-based tutorial modules, chat-rooms, message boards, web-sites and so on
- team- and group-based exercises
- workplace experience with an archaeological organisation or museum
- group activities aimed at application of theory to practice
- observation and exploration of others’ lived experience through direct contact and/or media such as autobiography, ethnography or film

Students will be expected to review published sources to investigate a range of key concepts and case study material.

Intellectual skills:
Intellectual skills are acquired through the learning and teaching methods and strategies outlined above and in
- Seminars and discussion sessions, including student-led discussions and presentation, aimed at developing students’ knowledge and critical focus individually and in group work and small-group discussions.
- Tutorials and supervisions for structured regular contact with tutors and supervisors.

Students are expected by academic staff to undertake independent reading and the University Support Services offer sessions in the use of, for example, library and study skills.

Subject-specific skills:
Specific subject outcomes are attained through the learning and teaching methods and strategies outlined above and in
- Field investigation projects including excavations and surveys of various kinds.

Additional support in the area of library skills is provided by the Subject Librarian during the first term.

Transferable skills:
Transferable skills are developed through the learning and teaching methods and strategies outlined above and in Workplace experience with an archaeological or social or biological anthropological museum or other organisation.

Students are expected to undertake independent reading and to relate the concepts introduced in Level 5. Regular feedback on assignments and in tutorial, laboratory and practical situations allow students to develop not only their understanding, but also their ability to communicate their ideas. IT skills are developed through components of some Level 5 units and through individual learning that is supported by University-wide workshops offered by Academic Services.

Level 6 Teaching and Learning Strategies

Subject knowledge and understanding
Many of the methodologies previously listed will continue to be employed, but there will be an increased emphasis on independent and group-based learning. The student's experience will depend on the options selected, but all students will be expected to review published sources to investigate a range of key concepts and case study material. In some cases, they will be involved in collecting their own data or being given realistic data. Students will be expected
to undertake research and/or interpret data as part of the research project.

**Intellectual Skills**
Intellectual skills are acquired through the learning and teaching methods and strategies outlined above. The student's experience will depend on the options selected. Of particular note is independent learning associated with the research project. Students are expected by academic staff to undertake independent reading and the University support services offer sessions in the use of, for example, library and study skills.

**Subject specific skills**
Subject specific skills are acquired through the learning and teaching methods and strategies outlined above. The student's experience will depend on the options selected. Of particular note is independent learning associated with the research project. The project supervisor provides specific support for the student and, where appropriate, technical support is also provided.

**Transferable skills**
Transferable skills are acquired through the learning and teaching methods and strategies outlined above. The student's experience will depend on the options selected. Students are expected to undertake independent reading and to relate the concepts introduced in Level 5. Regular feedback on assignments and in tutorial, laboratory and practical situations allows students to develop not only their understanding, but also their ability to communicate their ideas. Of particular note is independent learning associated with the research project. Project meetings also provide the forum for debate, development and the exchange of ideas.

**ASSESSMENT STRATEGIES AND METHODS**

**Level 4 Assessment strategies**

**Subject knowledge and understanding**
Core knowledge is assessed through:
- field and laboratory reports (A2, A3)
- unseen examinations (A1, A4, A5, A6)
- written tests and assignments (A1, A4, A5, A6)
- assessed practical work (A2, A3)
- e-portfolios comprised of online exercises (A4).

**Intellectual Skills**
Intellectual skills are assessed through:
- field and laboratory reports (B2, B4, B5)
- unseen examinations (B2, B3, B6)
- written assignments (B1, B2, B3, B6).

**Subject specific skills**
Subject specific skills are assessed through:
- field and laboratory reports (C1, C3, C4)
- unseen examinations (C3, C6)
- fieldwork (C2)
- written assignments (C1, C3, C4, C6).

**Transferable skills**
Transferable skills are important criteria in the assessment of all student work.
- D1, D2 and D3 are assessed through team field and/or post-fieldwork work.
- D4 – D8 are assessed through the coursework and examinations elements of a number of Level C units
- D6 and D7 are additional and specifically addressed by the Investigative and Reporting Skills unit

**Level 5 Assessment Strategies**

**Subject knowledge and understanding**
Core knowledge is assessed through:
Core units:
• essays and written assignments and exercises prepared to a defined timetable (A1, A2, A4, A5, A6)
• fieldwork and/or laboratory notebooks, post-exavation archives and reports (A2, A3, A8, A9)
• unseen in-class tests (A2, A5, A7)
• oral group presentation (A1, A2, A4, A5, A6)

Option unit assessment strategies include the above, and additionally:
• examination through unseen and seen papers under timed conditions requiring written essays and/or multiple choice questions (A1, A2, A5)

**Intellectual skills**

The assessment of intellectual skills is implicit in elements of the assessment profile listed above.

**Subject-specific skills**

Subject specific skills are assessed through:
• Observed participation of practical team-based exercises in the field or classroom (C1, C4, C5, C6).
• Fieldwork and post excavation archives, notebooks and reports (C1, C2, C3, C5).
• In-class spotter tests (C1, C2, C5)
• Written tests and assignments (C1, C4, C6, C7)
• Oral group presentation (C1, C6, C7)

**Transferable skills**

Transferable skills are assessed through:
• Fieldwork and/or laboratory notebooks and reports (D1, D2, D3, D5, D9).
• Observed participation of practical team-based exercises in the field, laboratory and/or classroom (D2, D6, D7, D9, D10)
• Written tests and assignments (D2, D3, D4, D5, D8)
• Oral group presentation (D1, D2, D3, D4, D5, D6, D10)

**Level 6 Assessment Strategies**

**Subject knowledge and understanding:**
All areas of subject knowledge and understanding are assessed through essays and assignments prepared to a defined timetable, examination through unseen and seen papers under timed conditions requiring written essays and/or multiple choice questions and through presentation of a research project carried out over a prolonged period and involving primary data collection or extensive synthesis of secondary data. Optional units may additionally assess these areas through oral presentation and/or written reports.

**Intellectual Skills:**
Intellectual skills are assessed through essays and written assignments, examination and especially by the independent research project involving primary data collection or extensive synthesis of secondary data.

**Subject specific skills:**
Specific subject skills are assessed through essays, written assignments and examination. C2-C4 are additionally assessed by the independent research project involving primary data collection or extensive synthesis of secondary data.

**Transferable skills:**
The research project assesses, either directly or indirectly, all of the transferable skills (D1-D8). D1 and D2 are not formally assessed but are demonstrated by the student’s ability to meet deadlines effectively.
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<td>Gather Time</td>
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<td>Archaeological Practice</td>
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**LEVEL 6**

**LEVEL 5**

**LEVEL 4**
Subject knowledge and understanding - students will be expected to:

A1. Demonstrate knowledge and understanding of evidence, theories, concepts and principles relevant to the practice of archaeology and social and biological anthropology.
A2. Have a detailed knowledge and understanding of evidence, theories, concepts and discourse in students' areas of specialisation within the programme.
A3. Have a sound knowledge of the range of cultural diversity in the past and contemporary world and its temporal and geographical patterning.
A4. Understand the historical development and multidisciplinary nature of archaeology and social and biological anthropology and the need to integrate knowledge from a range of subject areas in approaching issues specific to these specialisms.
A5. Contextualise their subject-specific knowledge and understanding within the legal frameworks and professional and ethical guidelines conditioning archaeological and social and biological anthropological practice.

B. Intellectual Skills - students will be expected to:

B1. Identify and critically evaluate routine and unfamiliar problems in archaeological and social and biological anthropological contexts and apply a range of knowledge and skills to develop and implement practical research and solutions and evaluate their outcomes.
B2. Analyse and synthesise information relevant to archaeological and social and biological anthropological issues.
B3. Plan, execute and report on a piece of original research.
B4. Integrate evidence from a range of sources to support findings and hypotheses.
B5. Critically analyse published work in archaeology and social and biological anthropology and be able to critically assess the merits and limitations of competing explanations of human diversity and behaviour.
B6. Engage in reasoned, critical and articulate discussions based on a range of appropriate scholarly sources.

C. Subject-specific skills - students will be expected to:

C1. Identify appropriate archaeological and social and biological anthropological questions and problems for investigation.
C2. Undertake field, laboratory and desk-based work, selecting and applying safely appropriate field, laboratory and analytical equipment and methods for archaeological and social and biological anthropological investigation and observing and recording results accurately.
C3. Consider the ethical implications of archaeological and social and biological anthropological research in a variety of applied research settings.
C4. Integrate archaeological and social/biological anthropological information and analyse and interpret results objectively using an appropriate range of qualitative and/or quantitative methodologies in a reflective and critical manner.
C5. Prepare reports and presentations on archaeological and social/biological anthropological research to professional standard in a range of effective and appropriate formats.
C6. Make effective use of the archaeological and social/biological anthropological literature and other sources of information.
C7. Make effective use of IT and software packages relevant to archaeology and social and biological anthropology.

D. Transferable skills - students will be expected to:

D1. Work in collaboration with others, including staff and students, and negotiate across differences such as organisational and professional boundaries and differences of identity or language.
D2. Demonstrate sensitivity to the values and interest of others, taking into account different normative and moral positions.
D3. Communicate effectively by oral, written and visual means.
D4. Demonstrate problem-solving skills and the application of knowledge across discipline areas.
D5. Use IT including the Web, spreadsheets, databases and word processing.
D6. Use a variety of techniques to gather and retrieve information and data and assess the reliability and relevance of the information gathered.
D7. Identify and work towards targets for personal, career, and academic development.
D8. Be independent and reflective learners.
**BSc (Hons) Archaeological, Anthropological and Forensic Sciences.**

**PROGRAMME DIAGRAM**

**BSc (Hons) Archaeological, Anthropological and Forensic Sciences**

**Year 4/Level 6**

**Core units (Compulsory)**
- Advanced Forensic Science (20)
- The Science of Human Remains (20)
- Archaeological Management (20)
- Independent Research Project (40)

**Exit qualification:** BSc (Hons) Archaeological, Anthropological and Forensic Sciences

**Sandwich UG programme:** Requires 120 Level 6 credits, 120 Level 5 credits and 120 Level 4 credits and successful completion of a placement year

**Standard UG programme:** Requires 120 Level 6 credits, 120 Level 5 credits and 120 Level 4 credits *

**Choose ONE of the following options:**
- Animals and Society (20)
- Forensic Practice (20)
- Primate Behaviour Ecology (20)
- Roman Britain (20)
- Saurp to Stonehenge: Neolithic & Chalcolithic NW Europe (20)

**Year 3/Level P**

**Optional placement year in industry/business**

**Progression requirements** Satisfactory completion of a minimum of 30 weeks of work in industry/business

**Year 2/Level 5**

**Core units (Compulsory)**
- Archaeological Science (20)
- Crime Scene (20)
- Field and Research Skills (20)
- Forensic Science (20)

**Choose TWO of the following options:**
- Becoming Human (20)
- Environmental Archaeology (20)
- Introduction to Toxicology (20)

**Progression requirements** Requires 120 credits at Level 5

**Exit qualification:** Dip HE Archaeological, Anthropological and Forensic Sciences

Requires 120 Level 5 credits and 120 Level 4 credits

**Year 1/Level 4**

**Core units (Compulsory)**
- Chemistry (20)
- Introduction to Forensic Investigation (20)
- AAFS Study Skills (20)
- Archaeological Practice (20)
- Introduction to Social Anthropology (20)
- Studying Ancient Materials (20)

**Progression requirements** Requires 120 credits at Level 4

**Exit qualification:** Cert HE Archaeological, Anthropological and Forensic Sciences

Requires 120 Level 4 credits

*One short placement as an alternative to the optional minimum 30 week placement – Pass/Fail. Failure of a placement which is specified as a programme exit requirement will require a repeat placement/alternative placement.*
BSc (Hons) Archaeological, Anthropological and Forensic Sciences

Introduction

This degree has been specifically designed with the aim of preparing for an archaeological, anthropological and / or forensic science, or a more general applied sciences career path. It introduces the application of science in archaeological, anthropological and forensic contexts. The degree draws upon BU’s international reputation in both traditional and forensic archaeology and in the forensic sciences and it is currently recognised by the Chartered Society for Forensic Sciences. Students will be able to gain valuable experience through placement in the UK or abroad (a short placement of five weeks, or the option of a long placement (a minimum of 30 weeks)).

Increased professionalism, together with developments in science and technology, mean that the archaeological, anthropological and forensic fields require high quality scientists to be available to work within these disciplines. There has also been a great increase in the application of forensic archaeology within the expanding arena that is medico-legal forensic science, which now encompasses disaster victim recovery and identification in the aftermath of terrorist attacks and natural disasters.

In level 4, students will receive a good grounding in scientific literacy alongside academic and laboratory skills by studying units on chemistry, archaeological practice, introduction to forensic investigation and the skills required to collect archaeological data. These skills are transferable to anthropological and forensic investigation scenarios.

In level 5, an excavation field school is undertaken during the summer, whilst other core units include forensic and archaeological sciences and crime scene investigations. These are balanced with options covering archaeological, anthropological and forensic strands of the programme.

In level 6, the programme culminates with the core units of Advanced Forensic Science, the Science of Human Remains and Archaeological Management and the Independent Research Project (dissertation) together with an option unit from either archaeological, anthropological or forensic science strands of study in order to enhance a particular set of interests or career development pathways.

AIM OF THE PROGRAMME

This programme provides opportunities for students to develop and demonstrate knowledge, understanding and skills that will allow them to work in archaeology, anthropology and other areas of applied science, as well as contribute to forensic practice.

The primary aim of this programme is the development of graduates who:

- Have a critical understanding of the scientific, theoretical and practical basis of archaeological, anthropological and forensic practice and interpretation
- Can apply the acquired range of skills and knowledge to specific archaeological, anthropological and forensic problems, and also communicate effectively with those working in these professions and with the wider public
- Have the necessary professional knowledge and management skills to develop successful careers in the specialist fields of archaeology, anthropology and forensic science
- Have the ability to carry out independent investigations in the area of archaeology and applied science
- Have the skills and knowledge necessary for postgraduate study
- Have qualifications to join the appropriate professional body at levels appropriate to their experience.
The degree also aims to provide students with a substantial range of transferable skills in communication, working with people, field and laboratory practice, computing, data analysis, problem analysis, research design and project management. These provide a basis for professional activity and development that may be applicable in other career areas.

OVERALL PROGRAMME OUTCOMES

This programme provides opportunities for students to develop and demonstrate knowledge as follows:

Subject knowledge and understanding - students will be expected to:

A1. Understand evidence, theories, concepts and principles relevant to archaeology, anthropology and forensic science

A2. Demonstrate a detailed knowledge and understanding of evidence, theories, concepts and discourse in students’ areas of specialisation within the programme

A3. Understand the multidisciplinary nature of archaeology, anthropology and forensic science and the need to integrate knowledge from a range of subject areas in approaching issues specific to these specialisms

A4. Demonstrate knowledge and understanding of science and practice relevant to archaeology, anthropology and forensic practice

A5. Contextualise this knowledge and understanding within professional and ethical guidelines which regulate academic archaeological, anthropological and forensic practice.

Intellectual Skills - students will be expected to:

B1. Evaluate critically, apply scientific knowledge and skills in the development and implementation of practical solutions in archaeology, anthropology and forensic science

B2. Analyse and synthesise scientific information relevant to archaeological, anthropological and/or forensic issues

B3. Apply appropriate knowledge and skills in the development and implementation of approaches to solving archaeological, anthropological or forensic problems, and to evaluate their outcomes

B4. Plan, execute and report on a piece of original research

B5. Integrate evidence from a range of sources to support findings and hypotheses


Subject-specific skills - students will be expected to:

C1. Identify and use safely appropriate laboratory and field methods

C2. Observe, record accurately and report laboratory and field activity

C3. Use spatial technologies in addressing problems efficiently

C4. Prepare technical reports and presentations

C5. Present research findings in a range of effective and appropriate formats
C6. Make effective use of the relevant academic literature and other sources of information

C7. Make effective use of IT and software packages relevant to the programme.

**Transferable skills** - students will be expected to:

D1. Communicate effectively by oral, written and visual means

D2. Use IT including the Web, spread sheets and word processing

D3. Apply a range of basic statistical tests on experimental and fieldwork data

D4. Work in collaboration with others, including staff and students

D5. Demonstrate problem-solving skills and the application of knowledge across discipline areas

D6. Be independent and reflective learners

**LEVEL 4 OUTCOMES – CERT HE BSc (HONS) ARCHAEOLOGICAL, ANTHROPOLOGICAL AND FORENSIC SCIENCES**

**Subject knowledge and understanding** - students will be expected to have:

A1. An appreciation of fundamental scientific practice and themes in the applied sciences

A2. A knowledge and understanding of archaeological, anthropological and forensic practice and thinking

A3. Obtained a range of practical laboratory and fieldwork experience and skills

A4. Obtained a range of academic skills, including academic writing, referencing and statistical analysis

A5. Demonstrated a knowledge and understanding of chemistry

A6. Demonstrated a knowledge and understanding of human anthropology.

**Learning and Teaching Methods and Strategies**

Core knowledge and understanding is acquired through lectures, laboratory sessions, fieldwork, workshops and tutorials. Students will be expected to use published sources to investigate a range of key concepts in science that underpin its forensic, archaeological and anthropological application.

**Assessment**

Core knowledge is assessed through field and laboratory reports, unseen examinations and written assignments (A1-A6).

**Intellectual Skills** - students will be expected to:

B1. Analyse numerical data and identify appropriate statistical tests

B2. Recognise situations in which science may be usefully applied in applied science investigations

B3. Identify and utilise appropriate information sources

B4. Demonstrate an awareness of the scientific method

B5. Demonstrate an awareness of academic method.
Learning and Teaching Methods and Strategies
Intellectual skills are acquired through the learning and teaching methods and strategies outlined above. Students are encouraged by academic staff to undertake independent reading and the University support Services offer sessions in the use of, for example, library and study skills.

Assessment
Intellectual skills are assessed through field and laboratory reports, unseen examinations and written assignments (B1-B5).

Subject specific skills - students will be expected to:

- C1. Observe, record accurately and report laboratory activity
- C2. Use laboratory and crime scene equipment to generate data and gather forensic evidence
- C3. Recognise the importance and value of certain materials which constitute forensic evidence
- C4. Write appropriately structured reports
- C5. Discover and recognise the archaeological significance of material remains and landscapes
- C6. Interpret spatial data, integrating theoretical models, traces surviving in present-day landscapes, and excavation data

Learning and Teaching Methods and Strategies
Specific subject outcomes are attained through lectures, practical sessions, workshops, and tutorials. Additional support in the area of library skills is provided by the Subject Librarian during the first term.

Assessment
Subject specific skills are assessed through field and laboratory reports (C1- C4), unseen examinations, fieldwork (C5-C6) and written assignments (C1-C4).

Transferable skills - students will be expected to:

- D1. Communicate effectively by oral, written and visual means
- D2. Use IT including the Web, spread sheets and word-processing
- D3. Apply a range of basic statistical tests to experimental and crime scene data
- D4. Work in collaboration with others, including staff and students
- D5. Demonstrate problem-solving skills and the application of knowledge across discipline areas
- D6. Be independent and reflective learners
- D7. Prepare effective written communications for different readerships.

Learning and Teaching Methods and Strategies
Transferable skills are developed through the learning and teaching methods and strategies outlined above. Students are encouraged to undertake independent reading and to relate the concepts introduced in Level 4. Regular feedback on assignments and in tutorial, laboratory and practical situations allows students to develop not only their understanding, but also their ability to communicate their ideas. IT skills are developed through components of some Level 4 units and
through individual learning that is supported by University-wide workshops offered by Academic Services.

**Assessment**

Effective communication of ideas is an important criterion in the assessment of all student work and in some units are additionally assessed through oral presentations and tests (D1-2& 7). D3 is assessed through specialist reports, while elements of the chemistry unit allow assessment of D4. D5 is assessed through coursework and examinations elements of a number of Level 4 units. D6 is assessed via the AAFS Study Skills unit.

**LEVEL 5 OUTCOMES – DIP HE ARCHAEOLOGICAL, ANTHROPOLOGICAL AND FORENSIC SCIENCES**

**Subject knowledge and understanding** - students will be expected to have:

A1. An appreciation of the interdisciplinary and multidisciplinary nature of archaeological and anthropological sciences

A2. An understanding of the applicability and multidisciplinary nature of forensic science

A3. A knowledge and understanding of human diversity and intellectual issues relating to the study of human skeletal remains

A4. Demonstrated knowledge of the range of analytical techniques employed in forensic science and more specialist areas of scientific application (DNA, Ballistics)

A5. An appreciation of the importance of the recovery of primary data through practical experience

A6. An understanding of analogy and experiment in archaeological analysis.

**Learning and Teaching Methods and Strategies**

Knowledge and understanding is acquired through lectures, tutorials, practical sessions and group work activities. Students will be expected to review published sources to investigate a range of key concepts and case study material.

**Assessment**

Core knowledge is assessed through tests and laboratory reports, lab-based examinations, unseen examinations, seminars, critical reviews (A2) and written assignments (A1-A6).

**Intellectual Skills** - students will be expected to:

B1. Marshal and critically appraise other people’s arguments

B2. Generate and test hypotheses based on scientific data

B3. Produce logical and structured arguments supported by relevant evidence

B4. Exercise judgment in using appropriate methods of data analysis and statistical inquiry

B5. Apply appropriate scholarly, theoretical and scientific principles and concepts to archaeological, anthropological and forensic problems.

**Learning and Teaching Methods and Strategies**

Intellectual skills are acquired through the learning and teaching methods and strategies outlined above. Students are encouraged by academic staff to undertake independent reading and the University support Services offer sessions in the use of, for example, library and study skills.
Assessment
Intellectual skills are assessed through tests and laboratory reports, lab-based examinations, unseen examinations, seminars, critical reviews (B1) and written assignments. B5 is also assessed through research design.

Subject specific skills - students will be expected to:

C1. Use appropriately and safely laboratory and field equipment with a view to maintaining scientific rigour
C2. Observe and accurately record activity within the laboratory
C3. Discover and recognise the various types and value of archaeological and anthropological evidence
C4. Select and apply appropriate statistical techniques with a view to data presentation
C5. Prepare scientific reports and presentations.

Learning and Teaching Methods and Strategies
Specific subject outcomes are attained through lectures, practical sessions, workshops, visits to forensic laboratories and police stations, and tutorials. Additional support in the area of library skills is provided by the Subject Librarian.

Assessment
Subject specific skills are assessed through laboratory reports, lab-based examinations, unseen examinations, seminars, critical reviews and written assignments (C1-C5).

Transferable skills - students will be expected to:

D1. Be reflective learners by analysing their strengths and weaknesses
D2. Communicate effectively both in written and oral form
D3. Work effectively in teams
D4. Demonstrate problem-solving skills
D5. Plan and design a programme of primary research, working independently.

Learning and Teaching Methods and Strategies
Transferable skills are developed through the learning and teaching methods and strategies outlined above. Students are encouraged to undertake independent reading and to relate the concepts introduced during Level 5. Regular feedback on assignments and in tutorial, laboratory and practical situations allows students to develop not only their understanding, but also their ability to communicate their ideas. IT skills are developed through components of some Level 5 units and through individual learning that is supported by university-wide workshops offered by Academic Services.

Assessment
Effective communication of ideas is an important criterion in the assessment of all student work and some units include oral presentations in addition to written work. A variety of modes of assessment including case studies and unseen examinations are also used (D1-D5)

LEVEL 6 OUTCOMES – BSc (Hons) ARCHAEOLOGICAL, ANTHROPOLOGICAL AND FORENSIC SCIENCES

Subject knowledge and understanding - students will be expected to have:
A1. A knowledge of the issues, practicalities and techniques involved in archaeology, biological anthropology and forensic science

A2. A critical understanding of the theoretical and ethical issues involved in archaeology, biological anthropology and forensic science

A3. An in-depth knowledge of the multidisciplinary nature of forensic, biological anthropology, and archaeological science

A4. Demonstrated a knowledge of the specific field and laboratory techniques employed to locate, collect and analyse archaeological, anthropological and forensic evidence

A5. Demonstrated a detailed knowledge and understanding of archaeology, anthropology and/or forensic science in a chosen specialised area.

Learning and Teaching Methods and Strategies:
Knowledge and understanding is acquired through lectures, tutorials, practical sessions and group work activities and research project meetings. Students will be expected to review published sources to investigate a range of key concepts and case study material. In some cases, they will be involved in collecting their own data or being given realistic data. Students will be expected to undertake research and/or interpret data as part of the research project.

Assessment:
Subject knowledge and understanding is assessed through professional reports, oral presentations, laboratory assessments, group work, written assignments and unseen-examinations (A1-A4). A5 is assessed through the research project.

Intellectual Skills - students will be expected to:

B1. Critically evaluate and review information from a range of sources

B2. Apply appropriate scientific research methodologies

B3. Define problems, devise and evaluate possible solutions

B4. Apply critically, knowledge to specific situations.

Learning and Teaching Methods and Strategies:
Intellectual skills are acquired through the learning and teaching methods and strategies outlined above. Students are encouraged by academic staff to undertake independent reading and the University support services offer sessions in, for example, library and study skills.

Assessment:
The intellectual skills are assessed through professional reports, oral presentations, laboratory assessments, role-play, written assignments and unseen-examinations (B1-B4). B4 is additionally assessed through the research project.

Subject specific skills - students will be expected to:

C1. Present an independent research project with limited reliance on guidance

C2. Relate original research findings to existing literature and the archaeological or anthropological context

C3. Recognise, observe and describe different classes of scientific data in forensic, archaeological and anthropological contexts.

Learning and Teaching Methods and Strategies:
Subject specific outcomes are attained through lectures, group exercises that may include practical sessions and workshops, and the independent research project (IRP). The project supervisor provides specific support for the student and, where appropriate, technical support is also provided.

**Assessment:**
Specific subject skills are assessed through professional reports, oral presentations, laboratory assessments, written assignments and unseen-examinations (C1-C3). C2 is additionally assessed through the independent research project.

**Transferable skills -** students will be expected to:

- D1. Undertake self-management and personal organisation (e.g. time management)
- D2. Work under pressure to meet deadlines
- D3. Communicate effectively
- D4. Demonstrate problem-solving skills and the application of knowledge
- D5. Recognise and respect the views of others
- D6. Work both independently, and with others.

**Learning and Teaching Methods and Strategies:**
Transferable skills are developed through the learning and teaching methods and strategies outlined above. Students are encouraged to undertake independent reading and to relate the concepts introduced in Level 5. Regular feedback on assignments and in tutorial, laboratory and practical situations allows students to develop not only their understanding, but also their ability to communicate their ideas. Project meetings also provide the forum for debate, development and the exchange of ideas.

**Assessment:**
The research project assesses, either directly or indirectly, all of the transferable skills (D1-D6). Some elements may not be formally assessed but are demonstrated by the student’s ability to meet deadlines.

**Subject knowledge and understanding -** students will be expected to:

- A1. Understand evidence, theories, concepts and principles relevant to archaeology, anthropology and forensic science
- A2. Demonstrate a detailed knowledge and understanding of evidence, theories, concepts and discourse in students’ areas of specialisation within the programme
- A3. Understand the multidisciplinary nature of archaeology, anthropology and forensic science and the need to integrate knowledge from a range of subject areas in approaching issues specific to these specialisms
- A4. Demonstrate knowledge and understanding of science and practice relevant to archaeology, anthropology and forensic practice
- A5. Contextualise this knowledge and understanding within professional and ethical guidelines which regulate academic archaeological and forensic practice.

**Intellectual Skills -** students will be expected to:

- B1. Evaluate critically, apply scientific knowledge and skills in the development and implementation of practical solutions in archaeology, anthropology and forensic science
B2. Analyse and synthesise scientific information relevant to archaeological, anthropological and/or forensic issues

B3. Apply appropriate knowledge and skills in the development and implementation of approaches to solving archaeological, anthropological or forensic problems, and evaluate their outcomes

B4. Plan, execute and report on a piece of original research

B5. Integrate evidence from a range of sources to support findings and hypotheses


**Subject-specific skills** - students will be expected to:

- C1. Identify and use safely appropriate laboratory and field methods
- C2. Observe, record accurately and report laboratory and field activity
- C3. Use spatial technologies in addressing problems efficiently
- C4. Prepare technical reports and presentations
- C5. Present research findings in a range of effective and appropriate formats
- C6. Make effective use of the relevant academic literature and other sources of information
- C7. Make effective use of IT and software packages relevant to the programme.

**Transferable skills** - students will be expected to:

- D1. Communicate effectively by oral, written and visual means
- D2. Use IT including the Web, spread sheets and word processing
- D3. Apply a range of basic statistical tests on experimental and fieldwork data
- D4. Work in collaboration with others, including staff and students
- D5. Demonstrate problem-solving skills and the application of knowledge across discipline areas
- D6. Be independent and reflective learners.
# BSc (Hons) Archaeological and Forensic Sciences. Programme Skills Matrix Template

Matrix table showing the relationship between ILOs for a programme and its constituent units

| Units                                                   | A | A | A | A | B | B | B | B | B | B | C | C | C | C | C | C | C | D | D | D | D | D | D |
| The Science of Human Remains                            | X | X | X | X |   |   |   |   | X | X | X | X |   |   |   |   |   | X | X | X | X | X | X |   |   |
| Archaeological Management                               | X | X | X |   |   |   |   |   | X | X | X | X | X | X | X | X |   | X | X | X | X | X | X |   |   |
| Independent Research Project                            | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Advanced Forensic Science                               | X | X | X | X | X | X | X | X | X | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Animals and Society                                     |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   | X | X | X | X | X | X | X | X | X | X |
| Forensic Practice                                       |   |   | X |   |   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Sarup to Stonehenge: Neolithic & Chalcolithic Northwest Europe | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |
| Roman Britain                                           | X |   |   |   |   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Primate Behaviour Ecology                               | X | X | X | X |   |   | X |   |   |   |   |   |   |   |   | X | X | X | X | X | X | X | X | X | X |
| Archaeological Science                                  | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Crime Scene                                             | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Field & Research Skills *                                | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Environmental Archaeology                               | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X | X | X | X | X | X | X |
| Forensic Science                                        | X | X | X | X |   |   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Introduction to Toxicology                              | X | X | X | X |   |   |   |   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Becoming Human                                          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Chemistry                                               | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Introduction to Forensic Investigation                  | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| AAFS Study Skills */**                                   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Archaeological Practice                                 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Studying Ancient Materials                               | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Introduction to Social Anthropology                     | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
Subject knowledge and understanding - students will be expected to:

A1. Understand evidence, theories, concepts and principles relevant to archaeology, anthropology and forensic science
A2. Demonstrate a detailed knowledge and understanding of evidence, theories, concepts and discourse in students’ areas of specialisation within the programme
A3. Understand the multidisciplinary nature of archaeology, anthropology and forensic science and the need to integrate knowledge from a range of subject areas in approaching issues specific to these specialisms
A4. Demonstrate knowledge and understanding of science and practice relevant to archaeology, anthropology and forensic practice
A5. Contextualise this knowledge and understanding within professional and ethical guidelines which regulate academic archaeological, anthropological and forensic practice

Intellectual Skills - students will be expected to:

B1. Evaluate critically, apply scientific knowledge and skills in the development and implementation of practical solutions in archaeology, anthropology and forensic science
B2. Analyse and synthesise scientific information relevant to archaeological and/or anthropological and/or forensic issues
B3. Apply appropriate knowledge and skills in the development and implementation of approaches to solving archaeological, anthropological or forensic problems, and evaluate their outcomes
B4. Plan, execute and report on a piece of original research
B5. Integrate evidence from a range of sources to support findings and hypotheses
B6. Critically analyse published work in archaeology, anthropology and forensic science and related subjects

Subject-specific skills - students will be expected to:

C1. Identify and use safely appropriate laboratory and field methods
C2. Observe, record accurately and report laboratory and field activity
C3. Use spatial technologies in addressing problems efficiently
C4. Prepare technical reports and presentations
C5. Present research findings in a range of effective and appropriate formats
C6. Make effective use of the relevant academic literature and other sources of information
C7. Make effective use of IT and software packages relevant to the programme

Transferable skills - students will be expected to:

D1. Communicate effectively by oral, written and visual means
D2. Use IT including the Web, spread sheets and word processing
D3. Apply a range of basic statistical tests on experimental and fieldwork data
D4. Work in collaboration with others, including staff and students
D5. Demonstrate problem-solving skills and the application of knowledge across discipline areas
D6. Be independent and reflective learners
BSc (Hons) Forensic Biology

PROGRAMME DIAGRAM
BSc (Hons) Forensic Biology

Year 4/Level 6
Core units (Compulsory)
- Independent Research Project (40)
- Advanced Forensic Science (20)
- Advanced Topics in Genetics (20)

Option units
Choose 1 of the following:
- Forensic Toxicology (20)
- Environmental Forensics (20)
- Pathophysiology (20)

And 1 of the following:
- Biomolecules (20)
- Forensic Entomology (20)

Progression requirements
Requires 120 credits at Level 4
Exit qualification: Cert HE Forensic Biology
Requires 120 Level 4 credits

Year 2/Level 5
Core units (Compulsory)
- Biochemistry (20)
- Crime Scene (20)
- Forensic Law and Practice (20)
- Forensic Science (20)
- Advanced Cell Biology (20)

Option units
Choose 1 of the following:
- Evolutionary Biology (20)
- Biology for Forensic Sciences (20)
- Introduction to Toxicology (20)
- Case Studies in Forensic Science (20)

Progression requirements
Requires 120 credits at Level 5
Exit qualification: Dip HE Forensic Biology
Requires 120 Level 5 credits and 120 Level 4 credits

Year 1/Level 4
Core units (Compulsory)
- Chemistry (20)
- Introduction to Forensic Investigation (20)
- Cell Biology (20)
- Human Anatomy and Physiology (20)
- Diversity of Life (20)
- AAFS Study Skills (20)

Option units
Choose 1 of the following:
- Forensic Toxicology (20)
- Environmental Forensics (20)
- Pathophysiology (20)

Progression requirements
Requires 120 credits at Level 4
Exit qualification: Cert HE Forensic Biology
Requires 120 Level 4 credits

Optional placement year in industry/business
Progression requirements
Satisfactory completion of a minimum of 30 weeks of work in industry/business

Year 3/Level P
Optional placement year in industry/business
Progression requirements
Satisfactory completion of a minimum of 30 weeks of work in industry/business

Sandwich UG programme:
Requires 120 Level 6 credits, 120 Level 5 credits and 120 Level 4 credits
Exit qualification: BSc (Hons) Forensic Biology

Standard UG programme:
Requires 120 Level 6 credits, 120 Level 5 credits and 120 Level 4 credits
Exit qualification: BSc (Hons) Forensic Biology
BSc (Hons) Forensic Biology

The rise in the use of forensic sciences by the various court systems around the developed world marks a shift away from reliance upon witness testimony by the courts. The Forensic Sciences Service has been disbanded and its work taken up by a number of providers some directly linked to police forces others independent private companies, the number of these independent companies is increasing. Similarly, there is a need for relevantly trained staff to join the police forces as forensic examiners.

Forensic Biology is a relatively new discipline, drawing principally from traditional sciences such as chemistry and biology. This programme is aimed at students with a Biological background and a desire to establish a career in forensic science in some capacity. After gaining an understanding and knowledge in relevant law, crime scene science, and biological and chemical analytical techniques, potential students will be able to pursue a career in the highly competitive field of forensic science with a specialism in the Biological aspects, and will have a broad understanding of the principals of scientific enquiry.

AIMS OF THE PROGRAMME

This programme provides opportunities for students to develop and demonstrate knowledge and understanding, and skills that will allow them to work in areas related to forensic and crime scene science and organisations concerned with any aspect of the medico-legal arena.

This primary aim of this programme is the development of graduates whom:

- Have a critical understanding of the scientific, technical and legal basis of forensic and biological science
- Have the necessary scientific, regulatory and theoretical knowledge to develop careers in areas of forensic and crime scene science, and related organisations
- Can evaluate the role of biologically based forensic science within the legal systems of England and Wales, and within International Humanitarian Law
- Recognise the moral and ethical dimensions of their actions and the need for professional codes of conduct
- Have the capacity to give a clear and concise account of a related issues and be able to engage in debate and dialogue both with specialists and non-specialists
- Have the skills and knowledge necessary for postgraduate study

The degree also aims to provide students with a substantial range of transferable skills in science laboratory practice, computing, data analysis, report writing and project management as a basis for professional activity and development which may be applicable in other career areas.

OVERALL PROGRAMME OUTCOMES

This programme provides opportunities for students to develop and demonstrate knowledge as follows:

A. Subject knowledge and understanding - students will be expected to:

  A1. Understand relevant theories, concepts and principles relevant to forensic and human biological science
  A2. Place the scientific knowledge and understanding of forensic & biological science within the UK and International regulatory framework
  A3. Understand the multidisciplinary nature of the forensic & biological sciences and the need to apply knowledge from a range of subject areas
  A4. Analyse critically, published work in the field of biological science in a forensic context
A5. Recognise the moral and ethical dimensions of their actions and the need for professional
codes of conduct

A6. Have knowledge and understanding of the management techniques relevant to crime
scene investigations

B. Intellectual Skills - students will be expected to:

B1. Evaluate critically, apply scientific knowledge and skills in the development and
implementation of practical solutions to biological, crime scene and forensic problems;

B2. Analyse and synthesise information relevant to the programme

B3. Define problems and devise and evaluate possible solutions, and to solve both routine
and unfamiliar problems

B4. Integrate evidence from a range of sources to support findings and hypotheses

B5. Plan, execute and report on a project involving original research

C. Subject-specific skills - students will be expected to:

C1. Identify and use safely appropriate laboratory and crime scene methods

C2. Observe, record accurately and report laboratory and crime scene activity

C3. Use spatial technologies in addressing problems efficiently

C4. Prepare technical reports and presentations

C5. Present research findings in a range of effective and appropriate formats

C6. Make effective use of the relevant academic literature and other sources of information

C7. Make effective use of IT and software packages relevant to the programme

C8. Critically analyse and synthesise research data from a wide range of sources and to draw
appropriate conclusions

D- Transferable skills - students will be expected to:

D1. Communicate effectively by oral, written and visual means

D2. Use IT including the Web, spread sheets and word processing

D3. Apply a range of basic statistical tests on experimental and fieldwork data

D4. Work in collaboration with others, including staff and students

D5. Demonstrate problem-solving skills and the application of knowledge across discipline
areas

D6. Be independent and reflective learners

D7. Identify and work towards targets for personal career and academic development

LEVEL 4 OUTCOMES – Cert. HE; Introduction to Forensic Biology

Subject knowledge and understanding - students will be expected to have:
A1. Awareness of some fundamental themes in the development and practice of forensic science

A2. An appreciation of the nature and sources of UK and EU law and the regulation of forensic practice

A3. Demonstrated an understanding of the basic principles underlying chemistry, human anatomy and physiology and of molecular biology

A4. Demonstrated an awareness of the nature of forensic evidence and its collection at a crime scene

A5. An appreciation of the moral and ethical dimensions of forensic and biological science practices

A6. An understanding of crime scene management and investigative techniques

**Learning and Teaching Methods and Strategies**
Core knowledge and understanding is acquired through lectures, laboratory sessions, workshops and tutorials. Students will be expected to use on-line, e-learning and published sources to investigate a range of key concepts in forensic biology.

**Assessment**
Core knowledge is assessed through tests and laboratory reports (A2-3), crime scene reports (A4), unseen examinations and written assignments (A1-A6).

**Intellectual Skills** - students will be expected to:

B1. Analyse numerical data and identify appropriate statistical tests

B2. Identify key areas of the law as they affect issues associated with forensic and human biology

B3. Identify and utilise appropriate information sources

B4. Demonstrate an awareness of the scientific method

B5. Recognise situations in which science can be applied to forensic situations

**Learning and Teaching Methods and Strategies**
Intellectual skills are acquired through the learning and teaching methods and strategies outlined above. Students are encouraged by academic staff to undertake independent reading and the University support Services offer sessions in the use of, for example, library and study skills.

**Assessment**
Intellectual skills are assessed through preparation and analysis of laboratory reports (B1 & B4), unseen examinations and written assignments (B1-B5).

**Subject specific skills** - students will be expected to:

C1. Observe, record accurately and report laboratory and crime scene activity

C2. Use laboratory and crime scene equipment to generate scientific data and gather forensic evidence

C3. Recognise the importance and value of certain materials which constitute forensic evidence

C4. Write appropriately cited structured reports
Learning and Teaching Methods and Strategies
Specific subject outcomes are attained through lectures, practicals, workshops, and tutorials. Additional support in the area of library skills is provided by the Subject Librarian during the first term.

Assessment
Subject specific skills are assessed through tests and laboratory reports (C1 & C4), crime scene reports (C3), unseen examinations and written assignments (C1-C4).

Transferable skills - students will be expected to:

D1. Communicate effectively by oral, written and visual means;
D2. Use IT including the Web, spread sheets, word-processing and e-learning materials
D3. Apply a range of basic statistical tests to experimental and crime scene data
D4. Work in collaboration with others, including staff and students
D5. Demonstrate problem-solving skills and the application of knowledge across discipline areas
D6. Be independent and reflective learners

Learning and Teaching Methods and Strategies
Transferable skills are developed through the learning and teaching methods and strategies outlined above. Students are encouraged to undertake independent reading and to relate the concepts introduced in Level 4. Regular feedback on assignments and in tutorial, laboratory and practical situations allows students to develop not only their understanding, but also their ability to communicate their ideas. IT skills are developed through components of some Level 4 units and through individual learning that is supported by University-wide workshops offered by Academic Services.

Assessment
Effective communication of ideas is an important criterion in the assessment of all student work and in some units is additionally assessed through oral presentations (D1). D2 and D3 are assessed through specialist reports, while elements of the biology and chemistry units allow assessment of D4. D5 is assessed though coursework and examinations elements of a number of Level C units.

LEVEL 5 OUTCOMES – Dip. HE Forensic Biology

Subject knowledge and understanding - students will be expected to have:

A1. An appreciation of the interdisciplinary and multidisciplinary nature of forensic biology
A2. Demonstrated a knowledge of the criminal legal system, and human rights law, and how these regulate forensic practice and the expert witness
A3. A knowledge and understanding of human diversity and intellectual issues relating to the study of human skeletal remains
A4. Demonstrated a knowledge of the range of analytical techniques employed in forensic science and more specialist areas of scientific application i.e. genetics, toxicology and biochemistry
A5. An appreciation of the moral and ethical issues that surround data analysis in human biological and forensic sciences
A6. A knowledge of research methods relevant to forensic and crime scene science
Learning and Teaching Methods and Strategies
Knowledge and understanding is acquired through lectures, tutorials, practicals and group work activities. Students will be expected to review published sources to investigate a range of key concepts and case study material.

Assessment
Core knowledge is assessed through tests and laboratory reports, lab-based examinations, unseen examinations and written assignments (A1-A6).

Intellectual Skills - students will be expected to:

B1. Marshal and critically appraise other people’s arguments
B2. Generate and test hypotheses based on scientific data
B3. Produce logical and structured arguments supported by relevant evidence
B4. Exercise judgement in using appropriate methods of data analysis and statistical enquiry
B5. Evaluate the current regulatory framework

Learning and Teaching Methods and Strategies
Intellectual skills are acquired through the learning and teaching methods and strategies outlined above. Students are encouraged by academic staff to undertake independent reading and the University support Services offer sessions in the use of, for example, library and study skills.

Assessment
Intellectual skills are assessed through tests and laboratory reports, lab-based examinations, unseen examinations and written assignments (B1-B5).

Subject specific skills - students will be expected to:

C1. Use appropriately and safely laboratory equipment with a view to the presentation of results within the court of law
C2. Observe and accurately record activity within the laboratory
C3. Discover and recognise the various types and value of science based evidence
C4. Select and apply appropriate statistical techniques with a view to data presentation within a court of law
C5. Prepare scientific reports and presentations

Learning and Teaching Methods and Strategies
Specific subject outcomes are attained through lectures and tutorials, practicals, workshops, visiting speakers and visits to laboratories and Police facilities. Additional support in the area of library skills is provided by the Subject Librarian during the first term

Assessment
Subject Specific skills are assessed through tests and laboratory reports, lab-based examinations, unseen examinations and written assignments (C1-C5).

Transferable skills - students will be expected to:

D1. Be reflective learners by analysing their strengths and weaknesses
D2. Communicate effectively both in written and oral form
D3. Work effectively in teams
D4. Demonstrate problem-solving skills and the use of appropriate mathematical and statistical skills

Learning and Teaching Methods and Strategies
Transferable skills are developed through the learning and teaching methods and strategies outlined above. Students are encouraged to undertake independent reading and to relate the concepts introduced in the Level 5. Regular feedback on assignments and in tutorial, laboratory and practical situations allows students to develop not only their understanding, but also their ability to communicate their ideas. IT skills are developed through components of some Level 5 units and through individual learning that is supported by University-wide workshops offered by Academic Services.

Assessment
Effective communication of ideas is an important criterion in the assessment of all student work and in some units is additionally assessed through oral presentations (D1). D2 and D3 are assessed, for example, through specialist reports as well as examinations. D4 is likely to be a part of all or most of the units studied at this level.

LEVEL 6 OUTCOMES - BSc (Hons) Forensic Biology

Subject knowledge and understanding - students will be expected to have:

A1. Demonstrated a knowledge of the issues, practicalities and techniques involved in forensic science and forensic biology including in the interpretation of results

A2. Shown evidence of a critical understanding of the moral and ethical issues that surround the use of chemical and biological information in forensic science and the need for professional codes of conduct

A3. Demonstrated a knowledge of the legal and regulatory framework within forensic science and forensic biological science

A4. Shown a knowledge of the specific field and laboratory techniques employed to; locate, collect and analyse forensic evidence and modern human skeletal remains, generate complex genetic information

A5. Demonstrated detailed knowledge and understanding of forensic biological science in a chosen specialised area

Learning and Teaching Methods and Strategies
Knowledge and understanding is acquired through lectures, tutorials, practicals and group work activities and research project meetings. Students will be expected to review published sources to investigate a range of key concepts and case study material. In some cases, they will be involved in collecting their own data or being given realistic data related to forensic and/or crime scene science. Students will be expected to undertake their own research as part of the directed or independent research project.

Assessment
Subject knowledge and understanding is assessed through professional reports, oral presentations, laboratory assessments, role-play, written assignments and unseen-examinations (A1-A4). A5 is assessed through a research project.

Intellectual Skills - students will be expected to:

B1. Critically evaluate and review information from a range of sources

B2. Apply appropriate scientific research methodologies

B3. Define problems, devise and evaluate possible solutions
B4. Apply critically, knowledge to specific situations

Learning and Teaching Methods and Strategies
Intellectual skills are acquired through the learning and teaching methods and strategies outlined above. Students are encouraged by academic staff to undertake independent reading and the University support Services offer sessions in the use of, for example, library and study skills.

Assessment
The intellectual skills are assessed through professional reports, oral presentations, laboratory assessments, role-play, written assignments and unseen-examinations (B1-B4). B4 is additionally assessed through a research project.

Subject specific skills - students will be expected to:

C1. Engage in a directed or independent project including where appropriate the use of relevant statistical tests, with limited reliance on guidance

C2. Relate research findings to existing literature and the forensic context

C3. Be aware of the ethical and health and safety issues related to work within the forensic biology arena

Learning and Teaching Methods and Strategies
Subject specific outcomes are attained through lectures, group exercises that may include practicals and workshops, and the research project. The project supervisor provides specific support for the student and where appropriate, technical support is also provided.

Assessment
Specific subject skills are assessed through professional reports, oral presentations, laboratory assessments, role-play, written assignments and unseen-examinations (C1-C3). C2 is additionally assessed through a research project.

Transferable skills - students will be expected to:

D1. Undertake self-management and personal organisation (e.g. time management)

D2. Work under pressure to meet deadlines

D3. Communicate effectively both orally and in writing

D4. Demonstrate problem-solving skills and the application of knowledge

D5. Recognise and respect the views of others

D6. Work both independently, and with others

Learning and Teaching Methods and Strategies
Transferable skills are developed through the learning and teaching methods and strategies outlined above. Students are encouraged to undertake independent reading and to relate the concepts introduced in Level I. Regular feedback on assignments and in tutorial, laboratory and practical situations allows students to develop not only their understanding, but also their ability to communicate their ideas. project meetings also provide the forum for debate, development and the exchange of ideas.

Assessment
The research project assesses, either directly or indirectly, all of the transferable skills (D1-D6). Some elements may not be formally assessed but are demonstrated by the student's ability to meet deadlines.
### Matrix table showing the relationship between BLOs for a programme and its constituent units

<table>
<thead>
<tr>
<th>Units</th>
<th>Programme/Standard Learning Outcomes</th>
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<tbody>
<tr>
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<tr>
<td>Environmental Forensics</td>
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<td>Forensic Anthropology</td>
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<tr>
<td>Advanced Topics in Genetics</td>
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<tr>
<td>Independent Research Project</td>
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<tr>
<td>Advanced Forensic Science</td>
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<td>Science Communication</td>
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<td>Pathology</td>
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<td>Biostatistics</td>
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<td>Forensic Law and Practice</td>
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<td>Forensic Science</td>
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<td>Forensic Genetics and Biotechnology</td>
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<td>Advanced Forensic Science</td>
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<td>Introduction to Forensic Science</td>
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<td>Advanced Forensic Science</td>
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<td>Chemistry</td>
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<td>Introduction to Forensic Science</td>
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<td>AAPS Study Skills</td>
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<tr>
<td>Analytical Chemistry</td>
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<td>Cell Biology</td>
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<tr>
<td>Diversity of Life</td>
<td>x</td>
</tr>
</tbody>
</table>

### A - Subject-related Knowledge and Understanding
- Understand the basic principles of scientific inquiry and research methodology.
- Understand and apply the practical components of scientific investigation.
- Develop an understanding of the scientific method and its application in forensic science.
- Understand the ethical implications of scientific research and its application in forensic science.
- Understand the legal and regulatory frameworks relevant to forensic science.

### B - Intellectual Skills
- Demonstrate critical thinking and problem-solving skills.
- Demonstrate an ability to apply scientific concepts and principles to forensic investigations.
- Demonstrate an understanding of the scientific method and its application in forensic science.
- Demonstrate an ability to communicate scientific information effectively.
- Demonstrate an ability to work independently and collaboratively.

### C - Subject-specific Professional Skills
- Demonstrate an ability to apply scientific concepts and principles to forensic investigations.
- Demonstrate an understanding of the scientific method and its application in forensic science.
- Demonstrate an ability to communicate scientific information effectively.
- Demonstrate an ability to work independently and collaboratively.
- Demonstrate an ability to apply scientific concepts and principles to forensic investigations.
BSc (Hons) Forensic Investigation

PROGRAMME DIAGRAM
BSc (Hons) Forensic Investigation

Year 4/Level 6

Core units (Compulsory)
- Independent Research Project (40)
- Advanced Forensic Science (20)
- International Investigations (20)

Option units
- Choose 1 of the following:
  - The Science of Human Remains (20)
  - Forensic Toxicology (20)
  - Environmental Forensics (20)
- Choose 1 of the following:
  - Forensic Practice (20)
  - Occupational Health and Safety (20)

Exit qualification: BSc (Hons) Forensic Investigation
- Sandwich UG programme:
  - Requires 120 Level 6 credits, 120 Level 5 credits and 120 Level 4 credits
  - Successful completion of a placement year
- Standard UG programme:
  - Requires 120 Level 6 credits, 120 Level 5 credits and 120 Level 4 credits

Year 3/Level P

Optional placement year in industry/business

Progression requirements
- Satisfactory completion of a minimum of 30 weeks of work in industry/business

Year 2/Level 5

Core units (Compulsory)
- Crime Scene (20)
- Forensic Computing (20)
- Forensic Law and Practice (20)
- Forensic Science (20)
- Advanced Crime Scene (20)

Option units
- Choose 1 of the following:
  - Geographic Information Systems (20)
  - Introduction to Toxicology (20)
  - Case Studies in Forensic Science (20)

Progression requirements
- Requires 120 credits at Level 5
- Exit qualification: Dip HE Forensic Investigation
  - Requires 120 Level 5 credits and 120 Level 4 credits

Year 1/Level 4

Core units (Compulsory)
- Chemistry (20)
- Introduction to Forensic Investigation (20)
- Cell Biology (20)
- Human Anatomy and Physiology (20)
- Introduction to Forensic Psychology (20)
- AAFS Study Skills (20)

Progression requirements
- Requires 120 credits at Level 4
- Exit qualification: Cert HE Forensic Investigation
  - Requires 120 Level 4 credits
BSc (Hons) Forensic Investigation

Forensic investigation is a wide ranging subject area, drawing principally from scientific methods and practical training developed from criminal investigation. There is an anticipated increasing demand for graduates with a broad forensic investigative skills set to take part in wider types of investigations such as natural or man-made disasters where forensic skills play a pivotal part in the investigation. The course draws on the university’s history of forensic science, crime scene and genocide investigation and disaster management studies.

AIMS OF THE PROGRAMME

This program provides opportunities for students to develop and demonstrate knowledge, understanding and skills that will enable them to work in areas, where forensic thinking and practical skills are applied in settings such as crime scenes and natural / environmental disasters.

The primary aim of this programme is the development of graduates who:

- Have a critical understanding of the scientific, technical and legal basis of forensic and scene investigation
- Appreciate the importance of the role of scientists at the scene of a crime, disaster or environmental mishap
- Have the necessary scientific, regulatory and theoretical knowledge to develop careers in a forensic or investigative organisation
- Can evaluate the role of the forensic investigator within a legal context and within international law
- Recognise the moral and ethical dimensions of their actions and the need for professional codes of conduct
- Have the skills and knowledge necessary for postgraduate study
- Can develop excellent communication skills

The degree also aims to provide students with a substantial range of transferable skills in science laboratory skills, data analysis report writing, project management and computing as a basis for professional activity and development which may be applicable in other career areas.

INTENDED LEARNING OUTCOMES

Overall pathway aims

This program provides opportunities for students to develop and demonstrate knowledge as follows:

A. Subject knowledge and understanding – students will be expected to:

A1. Understand relevant theories, concepts and principals relevant to forensic, crime and environmental scene science
A1. Place the scientific knowledge and understanding of forensic investigation techniques within UK and International regulatory frameworks
A3. Understand the multidisciplinary nature of the forensic investigation and the need to apply knowledge from a range of subject areas
A4. Analyse critically published work in the areas of forensic science, scene investigation and the need to apply knowledge from a range of subject areas
A5. Recognise the moral and ethical dimensions of their actions and the need for professional codes of conduct
A6. Have knowledge and understanding of the management techniques relevant to a range of forensic and disaster investigation

B. Intellectual skills – students will be expected to:

B1. Evaluate critically, apply scientific and investigative knowledge and skills in the development and implementation of practical solutions to forensic investigation

B2. Analyse and synthesise information relevant to the programme

B3. Define problems and devise and evaluate possible solutions, and to solve both routine and unfamiliar problems

B4. Plan, execute and report on a project involving original research

B5. Integrate evidence collected from a range of sources to support findings and hypotheses

C- Subject-specific skills – students will be expected to;

C1. Identify and apply appropriate scene and laboratory methods

C2. Observe, record accurately and report laboratory and scene / fieldwork activity

C3. Use spatial technologies in addressing problems efficiently

C4. Prepare reports and presentations

C5. Make effective use of the relevant academic and scientific literature and other sources of information

C6. Present research findings in a range of effective and appropriate formats

C7. Make effective use of IT and software packages relevant to the programme

D-Transferable Skills- students will be expected to:

D1. Communicate effectively by oral, written and visual means

D2. Use IT including the WED, spread sheets and word processing

D3. Apply a range of basic statistical tests on experimental and fieldwork data

D4. Work in collaboration with others, including staff and students

D5. Demonstrate problem solving skills and the application of knowledge across discipline areas

D6. Be independent and reflective learners

LEVEL 4 OUTCOMES – Cert. HE Forensic Investigation

Subject knowledge and understanding - students will be expected to have:

A1. Awareness of some fundamental themes in the development and practice of forensic science

A2. An appreciation of the nature and sources of UK and EU law and the regulation of forensic practice
A3. Demonstrated an understanding of the basic principles underlying forensic investigation, forensic computing, chemistry and biology

A4. Demonstrated an awareness of the nature of forensic evidence and its collection from a scene under investigation

A5. An appreciation of the moral and ethical dimensions of forensic practice

A6. An understanding of crime scene management and investigative techniques

Learning and Teaching Methods and Strategies
Core knowledge and understanding is acquired through lectures, laboratory sessions, workshops and tutorials. Students will be expected to use published sources to investigate a range of key concepts in forensic and crime scene science.

Assessment
Core knowledge is assessed through tests and laboratory reports (A2-3), crime scene reports (A4), unseen examinations and written assignments (A1-A6).

Intellectual Skills - students will be expected to:

B1. Analyse numerical data and identify appropriate statistical tests

B2. Identify key areas of the law as they affect forensic issues

B3. Identify and utilise appropriate information sources

B4. Demonstrate an awareness of the scientific method

B5. Recognise situations in which science can be applied to forensic situations

Learning and Teaching Methods and Strategies
Intellectual skills are acquired through the learning and teaching methods and strategies outlined above. Students are encouraged by academic staff to undertake independent reading and the University support Services offer sessions in the use of, for example, library and study skills.

Assessment
Intellectual skills are assessed through laboratory reports (B2 & B4), unseen examinations and written assignments (B1-B5).

Subject specific skills - students will be expected to:

C1. Observe, record accurately and report laboratory and crime scene activity

C2. Use laboratory and crime scene equipment to generate data and gather forensic evidence

C3. Recognise the importance and value of certain materials which constitute forensic evidence

C4. Write appropriately structured reports

Learning and Teaching Methods and Strategies
Specific subject outcomes are attained through lectures, practicals, workshops and tutorials. Additional support in the area of library skills is provided by the Subject Librarian during the first term.

Assessment
Subject specific skills are assessed through tests and laboratory reports (C1 & C4), crime scene reports (C3), unseen examinations and written assignments (C1-C4).

Transferable skills - students will be expected to:
D1. Communicate effectively by oral, written and visual means
D2. Use IT including the Web, spread sheets and word-processing
D3. Apply a range of basic statistical tests to experimental and crime scene data
D4. Work in collaboration with others, including staff and students
D5. Demonstrate problem-solving skills and the application of knowledge across discipline areas
D6. Be independent and reflective learners

Learning and Teaching Methods and Strategies
Transferable skills are developed through the learning and teaching methods and strategies outlined above. Students are encouraged to undertake independent reading and to relate the concepts introduced in Level 4. Regular feedback on assignments and in tutorial, laboratory and practical situations allows students to develop not only their understanding, but also their ability to communicate their ideas. IT skills are developed through components of some Level 4 units and through individual learning that is supported by University-wide workshops offered by Academic Services.

Assessment
Effective communication of ideas is an important criterion in the assessment of all student work and in some units is additionally assessed through oral presentations (D1). D2 and D3 are assessed through specialist reports, while elements of the biology and chemistry units allow assessment of D4. D5 is assessed though coursework and examinations elements of a number of Level 4 units.

LEVEL I OUTCOMES – Dip. HE Forensic Investigation

Subject knowledge and understanding - students will be expected to have:
A1. An appreciation of the interdisciplinary and multidisciplinary nature of forensic science
A2. Demonstrated a knowledge of the criminal legal system, and human rights law, and how these regulate forensic practice and the expert witness
A3. A knowledge of advanced crime scene and investigation skills
A4. Demonstrated a knowledge of the range of analytical techniques employed in forensic science and more specialist areas of scientific application (e.g. forensic computing, chromatography, spectrophotometry)
A5. An appreciation of the moral and ethical issues that surround data analysis in forensic science
A6. A knowledge of research methods relevant to forensic and crime scene science

Learning and Teaching Methods and Strategies
Knowledge and understanding is acquired through lectures, tutorials, practicals and group work activities. Students will be expected to review published sources to investigate a range of key concepts and case study material.

Assessment
Core knowledge is assessed through tests and laboratory reports, lab-based examinations, unseen examinations and written assignments (A1-A6).

Intellectual Skills - students will be expected to:
B1. Marshal and critically appraise other people’s arguments
B2. Generate and test hypotheses based on scientific data
B3. Produce logical and structured arguments supported by relevant evidence
B4. Exercise judgement in using appropriate methods of data analysis and statistical enquiry
B5. Evaluate the current regulatory framework
B6. Evaluate the applications / limitations of the various investigative methods applied to a forensic context

Learning and Teaching Methods and Strategies
Intellectual skills are acquired through the learning and teaching methods and strategies outlined above. Students are encouraged by academic staff to undertake independent reading and the University support Services offer sessions in the use of, for example, library and study skills.

Assessment
Intellectual skills are assessed through tests and laboratory reports, lab-based examinations, unseen examinations and written assignments (B1-B6).

Subject specific skills - students will be expected to:

C1. Use appropriately and safely laboratory equipment with a view to the presentation of results within the court of law
C2. Observe and accurately record activity within the laboratory
C3. Discover and recognise the various types and value of forensic evidence
C4. Select and apply appropriate statistical techniques with a view to data presentation within a court of law
C5. Prepare scientific reports and presentations

Learning and Teaching Methods and Strategies
Specific subject outcomes are attained through lectures, practicals, workshops, visits to forensic laboratories and Police stations, and tutorials. Additional support in the area of library skills is provided by the Subject Librarian during the first term

Assessment
Subject Specific skills are assessed through tests and laboratory reports, lab-based examinations, unseen examinations and written assignments (C1-C5).

Transferable skills - students will be expected to:

D1. Be reflective learners by analysing their strengths and weaknesses
D2. Communicate effectively both in written and oral form
D3. Work effectively in teams
D4. Demonstrate problem-solving skills

Learning and Teaching Methods and Strategies
Transferable skills are developed through the learning and teaching methods and strategies outlined above. Students are encouraged to undertake independent reading and to relate the concepts introduced in the Level 5. Regular feedback on assignments and in tutorial, laboratory and practical situations allows students to develop not only their understanding, but also their ability to
communicate their ideas. IT skills are developed through components of some Level 5 units and through individual learning that is supported by University-wide workshops offered by Academic Services.

Assessment
Effective communication of ideas is an important criterion in the assessment of all student work and in some units is additionally assessed through oral presentations (D1). D2 and D3 are assessed, for example, through specialist reports as well as examinations.

LEVEL 6 OUTCOMES - BSc (Hons) Forensic Investigation

Subject knowledge and understanding - students will be expected to have:

A1. Demonstrated a knowledge of the issues, practicalities and techniques involved in forensic, environmental and international investigations and interpretation of results from these investigations

A2. A critical understanding of the moral and ethical issues that surround forensic science and the need for professional codes of conduct

A3. A knowledge of the legal and regulatory frameworks associated with forensic environmental and occupational sciences

A4. A knowledge of the specific field and laboratory techniques employed to locate, collect and analyse forensic evidence

A5. Demonstrated detailed knowledge and understanding of forensic, environmental and crime scene management in a chosen specialised area

Learning and Teaching Methods and Strategies
Knowledge and understanding is acquired through lectures, tutorials, practicals and group work activities and research project meetings. Students will be expected to review published sources to investigate a range of key concepts and case study material. In some cases, they will be involved in collecting their own data or being given realistic data related to forensic and/or crime scene science. Students will be expected to undertake their own research as part of the directed or independent research project.

Assessment
Subject knowledge and understanding is assessed through professional reports, oral presentations, laboratory assessments, role-play, written assignments and unseen-examinations (A1-A4). A5 is assessed through a research project.

Intellectual Skills - students will be expected to:

B1. Critically evaluate and review information from a range of sources

B2. Apply appropriate scientific research methodologies

B3. Define problems, devise and evaluate possible solutions

B4. Apply critically, knowledge to specific situations

Learning and Teaching Methods and Strategies
Intellectual skills are acquired through the learning and teaching methods and strategies outlined above. Students are encouraged by academic staff to undertake independent reading and the University support Services offer sessions in the use of, for example, library and study skills.

Assessment
The intellectual skills are assessed through professional reports, oral presentations, laboratory assessments, role-play, written assignments and unseen-examinations (B1-B4). B4 is additionally assessed through a research project.

**Subject specific skills** - students will be expected to:

- C1. Engage in a directed or independent project with limited reliance on guidance
- C2. Relate research findings to existing literature and the forensic context
- C3. Be aware of the ethical and health and safety issues related to work within the forensic arena

**Learning and Teaching Methods and Strategies**
Subject specific outcomes are attained through lectures, group exercises that may include practicals and workshops, and the research project. The project supervisor provides specific support for the student and where appropriate, technical support is also provided.

**Assessment**
Specific subject skills are assessed through professional reports, oral presentations, laboratory assessments, role-play, written assignments and unseen-examinations (C1-C3). C2 is additionally assessed through a research project.

**Transferable skills** - students will be expected to:

- D1. Undertake self-management and personal organisation (e.g. time management)
- D2. Work under pressure to meet deadlines
- D3. Communicate effectively both orally and in writing
- D4. Demonstrate problem-solving skills and the application of knowledge
- D5. Recognise and respect the views of others
- D6. Work both independently, and with others

**Learning and Teaching Methods and Strategies**
Transferable skills are developed through the learning and teaching methods and strategies outlined above. Students are encouraged to undertake independent reading and to relate the concepts introduced in Level 5. Regular feedback on assignments and in tutorial, laboratory and practical situations allows students to develop not only their understanding, but also their ability to communicate their ideas. Project meetings also provide the forum for debate, development and the exchange of ideas.

**Assessment**
The research project assesses, either directly or indirectly, all of the transferable skills (D1-D6). Some elements may not be formally assessed but are demonstrated by the student’s ability to meet deadlines.
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<tr>
<th>Units</th>
<th>Programme Intended Learning Outcomes</th>
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<tr>
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BSc (Hons) Forensic Science

PROGRAMME DIAGRAM
BSc (Hons) Forensic Science

Year 4/Level 6
Core units (Compulsory)
- Independent Research Project (40)
- Advanced Forensic Science (20)
- Forensic Toxicology (20)
Option units
- Choose 1 of the following:
  - The Science of Human Remains (20)
  - Environmental Forensics (20)
- And 1 of the following:
  - Biomolecules (20)
  - Forensic Practice (20)
Exit qualification: BSc (Hons) Forensic Science
Sandwich UG programme:
Requires 120 Level 6 credits, 120 Level 5 credits and 120 Level 4 credits and successful completion of a placement year
Standard UG programme:
Requires 120 Level 6 credits, 120 Level 5 credits and 120 Level 4 credits

Year 3/Level P
Optional placement year in industry/business
Progression requirements
Satisfactory completion of a minimum of 30 weeks of work in industry/business

Year 2/Level 5
Core units (Compulsory)
- Crime Scene (20)
- Biochemistry (20)
- Forensic Law and Practice (20)
- Introduction to Toxicology (20)
- Forensic Science (20)
Option units
- Choose 1 of the following:
  - Geographic Information Systems (20)
  - Case Studies in Forensic Science (20)
  - Advanced Crime Scene (20)
  - Advanced Cell Biology (20)
Progression requirements
Requires 120 credits at Level 5
Exit qualification: Dip HE Forensic Science
Requires 120 Level 5 credits and 120 Level 4 credits

Year 1/Level 4
Core units (Compulsory)
- Chemistry (20)
- Introduction to Forensic Investigation (20)
- Cell Biology (20)
- Human Anatomy and Physiology (20)
- Introduction to Forensic Psychology (20)
- AAFS Study Skills (20)
Progression requirements
Requires 120 credits at Level 4
Exit qualification: Cert HE Forensic Science
Requires 120 Level 4 credits

Optional placement year in industry/business
Progression requirements
Satisfactory completion of a minimum of 30 weeks of work in industry/business
BSc (Hons) Forensic Science
The rise in the use of forensic sciences by the various court systems around the developed world marks a shift away from reliance upon witness testimony by the courts. The Forensic Sciences Service has been disbanded and its work taken up by a number of providers some directly linked to police forces others independent private companies, the number of these independent companies is increasing. Similarly, there is a need for relevantly trained staff to join the police forces as forensic examiners.

Forensic science is a wide ranging discipline, drawing principally from traditional sciences such as chemistry and biology. This programme is aimed at students with a scientific background and a desire to establish a career in forensic science in some capacity. After gaining an understanding and knowledge in relevant law, crime scene science, and biological and chemical analytical techniques, potential students will be able to pursue a career in the highly competitive field of forensic science, and will have a broad understanding of the principals of scientific enquiry.

AIMS OF THE PROGRAMME
This programme provides opportunities for students to develop and demonstrate knowledge and understanding, and skills that will allow them to work in areas related to forensic and crime scene science and organisations concerned with any aspect of the medico-legal arena.

This primary aim of this programme is the development of graduates whom:

- Have a critical understanding of the scientific, technical and legal basis of forensic and crime scene science
- Have the necessary scientific, regulatory and theoretical knowledge to develop careers in areas of forensic and crime scene science, and related organisations
- Can evaluate the role of forensic science within the legal systems of England and Wales, and within International Humanitarian Law
- Recognise the moral and ethical dimensions of their actions and the need for professional codes of conduct
- Have the skills and knowledge necessary for postgraduate study

The degree also aims to provide students with a substantial range of transferable skills in science laboratory practice, computing, data analysis, report writing and project management as a basis for professional activity and development which may be applicable in other career areas.

OVERALL PROGRAMME INTENDED LEARNING OUTCOMES
This programme provides opportunities for students to develop and demonstrate knowledge as follows:

A. Subject knowledge and understanding - students will be expected to:

A1. Understand relevant theories, concepts and principles relevant to forensic and crime scene science
A2. Place the scientific knowledge and understanding of forensic science within the UK and International regulatory framework
A3. Understand the multidisciplinary nature of the forensic science and the need to apply knowledge from a range of subject areas
A4. Analyse critically, published work in the field of forensic and crime scene science
A5. Recognise the moral and ethical dimensions of their actions and the need for professional codes of conduct
A6. Have knowledge and understanding of the management techniques relevant to crime scene investigations.

B. Intellectual Skills - students will be expected to:

B1. Evaluate critically, apply scientific knowledge and skills in the development and implementation of practical solutions to crime scene and forensic problems

B2. Analyse and synthesise information relevant to the programme

B3. Define problems and devise and evaluate possible solutions, and to solve both routine and unfamiliar problems

B4. Integrate evidence from a range of sources to support findings and hypotheses

B5. Plan, execute and report on a project involving original research

C- Subject-specific skills - students will be expected to:

C1. Identify and use safely appropriate laboratory and crime scene methods

C2. Observe, record accurately and report laboratory and crime scene activity

C3. Use spatial technologies in addressing problems efficiently

C4. Prepare technical reports and presentations

C5. Present research findings in a range of effective and appropriate formats

C6. Make effective use of the relevant academic literature and other sources of information

C7. Make effective use of IT and software packages relevant to the programme

D- Transferable skills - students will be expected to:

D1. Communicate effectively by oral, written and visual means

D2. Use IT including the Web, spread sheets and word processing

D3. Apply a range of basic statistical tests on experimental and fieldwork data

D4. Work in collaboration with others, including staff and students

D5. Demonstrate problem-solving skills and the application of knowledge across discipline areas

D6. Be independent and reflective learners

LEVEL 4 OUTCOMES – Cert. HE; Introduction to Forensic Science

Subject knowledge and understanding - students will be expected to have:

A1. Awareness of some fundamental themes in the development and practice of forensic science

A2. An appreciation of the nature and sources of UK and EU law and the regulation of forensic practice
A3. Demonstrated an understanding of the basic principles underlying chemistry, human physiology and molecular biology

A4. Demonstrated an awareness of the nature of forensic evidence and its collection at a crime scene

A5. An appreciation of the moral and ethical dimensions of forensic practice

A6. An understanding of crime scene management and investigative techniques

Learning and Teaching Methods and Strategies
Core knowledge and understanding is acquired through lectures, laboratory sessions, workshops and tutorials. Students will be expected to use published sources to investigate a range of key concepts in forensic and crime scene science.

Assessment
Core knowledge is assessed through tests and laboratory reports (A2-3), crime scene reports (A4), unseen examinations and written assignments (A1-A6).

Intellectual Skills - students will be expected to:

B1. Analyse numerical data and identify appropriate statistical tests

B2. Identify key areas of the law as they affect forensic issues

B3. Identify and utilise appropriate information sources

B4. Demonstrate an awareness of the scientific method

B5. Recognise situations in which science can be applied to forensic situations

Learning and Teaching Methods and Strategies
Intellectual skills are acquired through the learning and teaching methods and strategies outlined above. Students are encouraged by academic staff to undertake independent reading and the University support Services offer sessions in the use of, for example, library and study skills.

Assessment
Intellectual skills are assessed through laboratory reports (B2 & B4), unseen examinations and written assignments (B1-B5).

Subject specific skills - students will be expected to:

C1. Observe, record accurately and report laboratory and crime scene activity

C2. Use laboratory and crime scene equipment to generate data and gather forensic evidence

C3. Recognise the importance and value of certain materials which constitute forensic evidence

C4. Write appropriately structured reports

Learning and Teaching Methods and Strategies
Specific subject outcomes are attained through lectures, practicals, workshops, and tutorials. Additional support in the area of library skills is provided by the Subject Librarian during the first term.

Assessment
Subject specific skills are assessed through tests and laboratory reports (C1 & C4), crime scene reports (C3), unseen examinations and written assignments (C1-C4).

Transferable skills - students will be expected to:
D1. Communicate effectively by oral, written and visual means
D2. Use IT including the Web, spread sheets and word-processing
D3. Apply a range of basic statistical tests to experimental and crime scene data
D4. Work in collaboration with others, including staff and students
D5. Demonstrate problem-solving skills and the application of knowledge across discipline areas
D6. Be independent and reflective learners

Learning and Teaching Methods and Strategies
Transferable skills are developed through the learning and teaching methods and strategies outlined above. Students are encouraged to undertake independent reading and to relate the concepts introduced in Level 4. Regular feedback on assignments and in tutorial, laboratory and practical situations allows students to develop not only their understanding, but also their ability to communicate their ideas. IT skills are developed through components of some Level 4 units and through individual learning that is supported by University-wide workshops offered by Academic Services.

Assessment
Effective communication of ideas is an important criterion in the assessment of all student work and in some units is additionally assessed through oral presentations (D1). D2 and D3 are assessed through specialist reports, while elements of the biology and chemistry units allow assessment of D4. D5 is assessed through coursework and examinations elements of a number of Level 4 units.

LEVEL I OUTCOMES – Dip. HE Forensic Science

Subject knowledge and understanding - students will be expected to have:

A1. An appreciation of the interdisciplinary and multidisciplinary nature of forensic science
A2. Demonstrated a knowledge of the criminal legal system, and human rights law, and how these regulate forensic practice and the expert witness
A3. A knowledge and understanding of human diversity and intellectual issues relating to the study of human skeletal remains
A4. Demonstrated a knowledge of the range of analytical techniques employed in forensic science and more specialist areas of scientific application (DNA, Ballistics)
A5. An appreciation of the moral and ethical issues that surround data analysis in forensic science
A6. A knowledge of research methods relevant to forensic and crime scene science

Learning and Teaching Methods and Strategies
Knowledge and understanding is acquired through lectures, tutorials, practicals and group work activities. Students will be expected to review published sources to investigate a range of key concepts and case study material.

Assessment
Core knowledge is assessed through tests and laboratory reports, lab-based examinations, unseen examinations and written assignments (A1-A6).

Intellectual Skills - students will be expected to:
B1. Marshal and critically appraise other people’s arguments
B2. Generate and test hypotheses based on scientific data
B3. Produce logical and structured arguments supported by relevant evidence
B4. Exercise judgement in using appropriate methods of data analysis and statistical enquiry
B5. Evaluate the current regulatory framework

Learning and Teaching Methods and Strategies
Intellectual skills are acquired through the learning and teaching methods and strategies outlined above. Students are encouraged by academic staff to undertake independent reading and the University support Services offer sessions in the use of, for example, library and study skills.

Assessment
Intellectual skills are assessed through tests and laboratory reports, lab-based examinations, unseen examinations and written assignments (B1-B5).

Subject specific skills - students will be expected to:

C1. Use appropriately and safely laboratory equipment with a view to the presentation of results within the court of law
C2. Observe and accurately record activity within the laboratory
C3. Discover and recognise the various types and value of forensic evidence
C4. Select and apply appropriate statistical techniques with a view to data presentation within a court of law
C5. Prepare scientific reports and presentations

Learning and Teaching Methods and Strategies
Specific subject outcomes are attained through lectures, practicals, workshops, visits to forensic laboratories and Police stations, and tutorials. Additional support in the area of library skills is provided by the Subject Librarian during the first term.

Assessment
Subject Specific skills are assessed through tests and laboratory reports, lab-based examinations, unseen examinations and written assignments (C1-C5).

Transferable skills - students will be expected to:

D1. Be reflective learners by analysing their strengths and weaknesses
D2. Communicate effectively both in written and oral form
D3. Work effectively in teams
D4. Demonstrate problem-solving skills

Learning and Teaching Methods and Strategies
Transferable skills are developed through the learning and teaching methods and strategies outlined above. Students are encouraged to undertake independent reading and to relate the concepts introduced in the Level 5. Regular feedback on assignments and in tutorial, laboratory and practical situations allows students to develop not only their understanding, but also their ability to communicate their ideas. IT skills are developed through components of some Level 5 units and through individual learning that is supported by University-wide workshops offered by Academic Services.
Assessment
Effective communication of ideas is an important criterion in the assessment of all student work and in some units is additionally assessed through oral presentations (D1). D2 and D3 are assessed, for example, through specialist reports as well as examinations.

LEVEL 6 OUTCOMES - BSc (Hons) Forensic Science

Subject knowledge and understanding - students will be expected to have:

A1. Demonstrated a knowledge of the issues, practicalities and techniques involved in forensic science and crime scene investigations including in the interpretation of results

A2. A critical understanding of the moral and ethical issues that surround forensic science and the need for professional codes of conduct

A3. A knowledge of the legal and regulatory framework within forensic and crime scene science

A4. A knowledge of the specific field and laboratory techniques employed to locate, collect and analyse forensic evidence and modern human skeletal remains

A5. Demonstrated detailed knowledge and understanding of forensic and crime scene science in a chosen specialised area

Learning and Teaching Methods and Strategies
Knowledge and understanding is acquired through lectures, tutorials, practicals and group work activities and research project meetings. Students will be expected to review published sources to investigate a range of key concepts and case study material. In some cases, they will be involved in collecting their own data or being given realistic data related to forensic and/or crime scene science. Students will be expected to undertake their own research as part of the directed or independent research project.

Assessment
Subject knowledge and understanding is assessed through professional reports, oral presentations, laboratory assessments, role-play, written assignments and unseen-examinations (A1-A4). A5 is assessed through a research project.

Intellectual Skills - students will be expected to:

B1. Critically evaluate and review information from a range of sources

B2. Apply appropriate scientific research methodologies

B3. Define problems, devise and evaluate possible solutions

B4. Apply critically, knowledge to specific situations

Learning and Teaching Methods and Strategies
Intellectual skills are acquired through the learning and teaching methods and strategies outlined above. Students are encouraged by academic staff to undertake independent reading and the University support Services offer sessions in the use of, for example, library and study skills.

Assessment
The intellectual skills are assessed through professional reports, oral presentations, laboratory assessments, role-play, written assignments and unseen-examinations (B1-B4). B4 is additionally assessed through a research project.

Subject specific skills - students will be expected to:
C1. Engage in a directed or independent project with limited reliance on guidance

C2. Relate research findings to existing literature and the forensic context

C3. Be aware of the ethical and health and safety issues related to work within the forensic arena

**Learning and Teaching Methods and Strategies**
Subject specific outcomes are attained through lectures, group exercises that may include practicals and workshops, and the research project. The project supervisor provides specific support for the student and where appropriate, technical support is also provided.

**Assessment**
Specific subject skills are assessed through professional reports, oral presentations, laboratory assessments, role-play, written assignments and unseen-examinations (C1-C3). C2 is additionally assessed through a research project.

**Transferable skills** - students will be expected to:

D1. Undertake self-management and personal organisation (e.g. time management)

D2. Work under pressure to meet deadlines

D3. Communicate effectively both orally and in writing

D4. Demonstrate problem-solving skills and the application of knowledge

D5. Recognise and respect the views of others

D6. Work both independently, and with others

**Learning and Teaching Methods and Strategies**
Transferable skills are developed through the learning and teaching methods and strategies outlined above. Students are encouraged to undertake independent reading and to relate the concepts introduced in Level I. Regular feedback on assignments and in tutorial, laboratory and practical situations allows students to develop not only their understanding, but also their ability to communicate their ideas. Project meetings also provide the forum for debate, development and the exchange of ideas.

**Assessment**
The research project assesses, either directly or indirectly, all of the transferable skills (D1-D6). Some elements may not be formally assessed but are demonstrated by the student’s ability to meet deadlines.
### Program Units and Intended Learning Outcomes

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<th>Units</th>
<th>ILO 1</th>
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#### ILO 1: Subject Knowledge and Understanding

- Understand relevant theories, concepts & principles relevant to forensic & crime scene science.
- Identify and use safely appropriate laboratory and crime scene methods.
- Place the scientific knowledge and understanding of forensic science within the UK and International regulatory framework.
- Be able to define problems and devise and evaluate possible solutions, and to solve both routine and unfamiliar problems.

#### ILO 2: Subject-specific/Practical Skills

- Use spatial technologies in addressing problems efficiently.
- Make effective use of IT and software packages relevant to the programme.

#### ILO 3: Intellectual Skills

- Analyse critically, published work in the field of forensic and crime scene science.
- Understand the multidisciplinary nature of forensic science and the need to apply knowledge from a range of areas.

#### ILO 4: Transferable Skills

- Work in collaboration with others, including staff and students.
- Make effective use of the relevant academic literature and other sources of information.

#### ILO 5: Transferable Skills

- Prepare technical reports and presentations.
- Present research findings in a range of effective and appropriate formats.

#### ILO 6: Transferable Skills

- Be able to evaluate critically, apply scientific knowledge and skills in the development and implementation of practical solutions to crime scene and forensic problems.
- Communicate by oral, written and visual means.

#### Program Units

- The Science of Human Remains
- Environmental Forensics
- Forensic Toxicology
- Independent Research
- Forensic Practice
- Forensic Science
- Forensic Science Lab
- Geographic Information Systems
- Forensic Science Projects
- Forensic Science Practicum

#### Level 4

- Introduction to Forensic Science
- Advanced Crime Scene
- Case Studies in Forensic Science
- Advanced Cell Biology
- Chemistry
- Introduction to Forensic Investigation
- AAFS Study Skills
- Human anatomy and physiology
- Intro to Psychology
- Cell Biology

#### Level 5

- Introduction to Technology
- Advanced Crime Scene
- Case Studies in Forensic Science
- Advanced Cell Biology
- Chemistry
- Introduction to Forensic Investigation
- AAFS Study Skills
- Human anatomy and physiology
- Intro to Psychology
- Cell Biology

#### Level 6

- Introduction to Technology
- Advanced Crime Scene
- Case Studies in Forensic Science
- Advanced Cell Biology
- Chemistry
- Introduction to Forensic Investigation
- AAFS Study Skills
- Human anatomy and physiology
- Intro to Psychology
- Cell Biology

### Program Matrix

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Post Graduate Programmes
MSc Archaeology

PROGRAMME DIAGRAM

Stage 2/Level 7

Core units (Compulsory)
- Techniques of Archaeological Recovery and Recording (20)

Option units

Exit qualification: MSc Archaeology
Requires 180 Level 7 credits

Stage 1/Level 7

Core units (Compulsory)
- Research Project (60)

Option units

Choose 2 of the following:
- Forensic Archaeology (20)
- Management of Archaeological Material (20)
- Maritime Archaeology (20)
- Principles and Methods in Human Osteology (20)
- Principles and Methods in Zooarchaeology (20)
- Marine Environment, Heritage and Spatial Planning (20)

Choose 3 of the following:
- Advanced Zooarchaeology (20)
- Archaeology of Human Remains (20)
- Human Evolution (20)
- Humans, Animals and Diet (20)
- Applied Maritime Archaeology (20)
- Applied Field Investigation (20)
- Bodies of Evidence: Skeletal Changes Before and After Death (20)

Progression requirements
- 120 Level 7 credits

Exit qualification: PG Cert Archaeology
Requires 60 Level 7 credits

Exit qualification: PG Dip Archaeology
Requires 120 Level 7 credits
MSc Archaeology

Introduction

MSc Archaeology is an ongoing programme in an area where the Department has a critical mass of staff expertise and a strong reputation for providing highly skilled undergraduates for the profession. This pathway presents an exciting opportunity for students at postgraduate level, who will have the chance to gain core skills with our skilled practitioners using our state of the art equipment base, whilst choosing from a broad range of options to build a bespoke postgraduate archaeology qualification tailored to their own particular interests.

The School is well placed to offer a versatile Archaeology MSc and the pathway will cater both for archaeology graduates wishing to gain further skills and specialization and also more general science and humanities graduates seeking a conversion course to enter the field of archaeology. It will provide them with:

- A core of theory, knowledge, tools and methods that define the professional archaeological field.
- Training for a career within the field of practical archaeology or a chance to branch out and specialise in a particular area of archaeological study, and a firm foundation for future research.
- A sound understanding of how field survey, excavation and/or post-exavcation studies can be integrated into general archaeological research and practice.

The pathway aims to enhance career opportunities for graduates from a variety of fields and for practising archaeologists seeking to expand their expertise. The core unit provides essential practical skills and experience in core pillars of field survey, excavation and recording in the field. The wide range of options allow students to gain additional knowledge/skills (including osteology, environmental materials, evolutionary studies, maritime and forensic archaeology) in more specialised areas that will give them extra marketability in the professional arena. The pathway provides an excellent foundation for those wishing to pursue careers as archaeological practitioners, researchers and academics.

AIMS OF THE PROGRAMME

The overall aim of this pathway is to provide students with a sound and detailed knowledge and critical understanding of practical skills, methods and critical approaches in archaeology with an individualised approach to the overall composition of the course. Such knowledge and understanding are set within the wider context and perspective of professional practice within archaeology, as well as offering the chance to explore evolutionary, palaeoenvironmental, osteological or maritime themes. These aims cannot be gained solely by theoretical academic studies and therefore practical experience of the methods and techniques used for recording and analysing field and laboratory remains is imperative.

The pathway also offers an optional placement opportunity.

This individualised pathway, aims to provide its graduates with advanced and applied knowledge and understanding of:

- The planning and practicalities involved in undertaking archaeological fieldwork projects in the UK.
- The range of archaeological materials and features common to terrestrial archaeology and the factors involved in their survival
- The range of excavation and survey techniques in common use in professional field archaeology
- The general principles underlying the interpretation of archaeological data
- Professional reporting and presentation skills relating to recovery and recording in field archaeology
• One or more diverse or related areas of specialist archaeological investigations e.g. environmental, maritime, forensic, zooarchaeology, biological anthropology.

INTENDED LEARNING OUTCOMES

Pathway Intended Learning Outcomes
This pathway provides opportunities for students to develop and demonstrate knowledge, understanding and skills, as follows.

Subject Knowledge and Understanding – students will be expected to:

A1. Have a critical understanding of and the ability to evaluate relevant theories, concepts and principles, relevant to field based archaeology

A2. Have knowledge of the practical skills relevant to professional archaeological practice

A3. Obtain a wide-range of practical skills, including the ability to judge appropriate use of recording, analytical and statistical methods, commonly used by specialists in post-excavation

A4. Demonstrate an understanding of project management and an appreciation of how this is applied to different stages of the archaeological process

A5. Understand the multidisciplinary nature of the pathway and the need to apply knowledge from a range of subject areas

Intellectual Skills – students will be expected to:

B1. Analyse and synthesise disparate information, relevant to archaeological data and interpretations and show the ability to communicate and apply this information

B2. Produce written specialist reports and communicate archaeological findings to both specialist and non-technical audiences

B3. Critically evaluate the potential and limitations of archaeological data

B4. Integrate evidence from a range of sources, to support findings and hypotheses

B5. Display an understanding of the planning of archaeological projects, or projects in related disciplines

B6. Plan and execute a research strategy designed to answer a question, create new knowledge or provide original insights and communicate the results of the research effectively

Subject-Specific/Practical Skills – students will be expected to:

C1. Evaluate, bring together and integrate disparate information and data relevant to field archaeology

C2. Undertake appropriately informed identification and analyses of archaeological material remains

C3. Demonstrate knowledge and critical understanding of any of the following: post-excavation studies; past environmental change; forensic archaeology; maritime archaeology; zooarchaeology, biological anthropology
C4. Show a good understanding of the fundamental principles of excavation processes, including site survey and the recovery and recording of archaeological features and remains.

C5. Develop a critical awareness of analytical techniques that enhance our understanding and interpretation of archaeological data.

C6. Understand the roles of and be able to effectively communicate, with relevant archaeological professionals.

C7. Gain an understanding of appropriate legislation, health and safety and project planning guidance, relevant to the archaeological profession.

Transferable Skills – students will be expected to:

D1. Communicate effectively by oral, written and visual means.

D2. Effectively employ IT facilities, including word-processing, spread sheet, database, presentation packages and the Web.

D3. Prepare conference/journal papers.

D4. Apply appropriate project planning and management approaches.

D5. Analyse and evaluate a range of published and unpublished data.

D6. Demonstrate problem solving skills and the application of knowledge across discipline areas.

D7. Be independent and reflective learners.

D8. Undertake independent work of an original nature.

Learning and Teaching Methods and Strategies
A range of strategies are employed to provide a varied learning experience, effectively targeted towards developing the key areas of core subject knowledge and understanding, cognitive and intellectual development, subject-specific practical skills and more general transferable skills and knowledge.

Core knowledge and understanding (A1-5) is acquired through lectures, seminars, practicals, workshops and independent learning. Students are expected to undertake independent reading and to relate the concepts introduced in different units (A1-3, A5). Practical field and post-excavation skills and knowledge (A3-4) are enhanced by independent study of collection of data. Where possible, related field trips also add to core knowledge (A6). Feedback on assignments allows students to refine and develop their understanding.

Intellectual and cognitive skills are developed through lectures and class discussion (B1-6), practical workshops and projects (B1-5), seminar work (B1-6) and individual tutorials (B6). Independent and guided study on the personal research project further enhances intellectual growth in all these areas, especially B6.

Subject specific and practical skills are promoted through technical workshops and field practical sessions (C2-4) and further developed through peer-assisted and independent learning. The execution of a journal paper may also involve elements of experiment and test practical skills. Other subject specific skills are obtained via lectures and seminars (C1-7) and if possible, related field trips (C1 and 6).

Transferable skills (D1-8) are developed through all the learning and teaching methods. Regular feedback on assignments, presentations, workshop and practicals allows students to develop not only their understanding, but also their ability to communicate their ideas (D1, D7).
Assessment Strategies
Knowledge and understanding, intellectual skills, subject-specific/practical skills and transferable skills are summatively assessed entirely through coursework. A range of assessment strategies is employed to enhance the learning experience and to most effectively evaluate the diverse range of learning outcomes.

The core knowledge and understanding (A1-6) is assessed through appropriately structured essays, short-answer practical identification and recording tests, specialist reports, oral presentations and ‘conference papers’.

Intellectual skills (B1-6) are assessed through appropriately structured essays, practical skills tests, specialist reports, oral presentations and academic papers. Outcome B6 is assessed through the execution of a research proposal, independent research project and subsequent journal paper, which allows the student to demonstrate his/her, critical thinking skills to the highest level.

Subject-specific/practical skills (C1-7) are assessed through appropriately structured essays, short answer and practical identification ‘spotter’ tests, specialist reports, oral presentations and academic papers. The journal paper will assess C1 and depending on the chosen topic, a range of other subject-specific and/or practical skills (C2-7).

Effective communication of ideas is an important criterion in the assessment of all student work. D1-8 are assessed variously through essays, written reports and papers, database design, oral presentations and a dissertation. Certain assignments are designed to develop particular transferable skills; for example, oral presentations and write-up of academic papers (D1-3, 5), use of digital data (D2) and the personal research project (D6-8).

Learning outcomes for PGCert and PGDip
By completing any 60 credits from the taught units on this pathway you will meet the following learning outcomes: A1, A2, B2, B3, C2, C3, C6, D1-D3, D7

By completing units appropriate for the taught component of this course (excluding the research project) and achieving 120 credits you will meet the following learning outcomes:
A1-A4, B2-B4, C1-C6, D1-3, D7, D8
|       | **Unit**                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|       | Forensic Archaeology                 | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
|       | Management of Archaeological Material | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
|       | Maritime Archaeology                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|       | Principles and Methods in Human Osteology |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|       | Principles and Methods in Zooarchaeology |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|       | Techniques of Archaeological Recovery and Recording |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|       | Advanced Zooarchaeology              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|       | Human Evolution                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|       | Animals, Environment and Spatial Planning |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|       | Applied Maritime Archaeology         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|       | PRP                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**Subject Knowledge and Understanding** — students will be expected to:

A1 Have a critical understanding of and the ability to evaluate relevant theories, concepts and principles, relevant to field-based archaeology.

A2 Have knowledge of the practical skills relevant to professional archaeological practice.

A3 Cite a wide range of technical skills, including the ability to judge appropriate use of recording, analytical and statistical methods, commonly used by specialists in post-excavation.

A4 Demonstrate an understanding of project management and an appreciation of how this is applied to different stages of the archaeological process.

A5 Understand the interdisciplinary nature of the pathway and the need to apply knowledge from a range of subject areas.

**Subject-Specific/Practical Skills** — students will be expected to:

C1 Evaluate, bring together and integrate disparate information and data relevant to field archaeology.

C3 Undertake appropriately informed identification and analysis of archaeological material remains.

C4 Show a good understanding of the fundamental principles of excavation processes, including site record and recording of archaeological features and remains.

C6 Develop a critical awareness of research techniques that enhance our understanding and interpretation of archaeological data.

C8 Understand the rules of and be able to effectively communicate, with relevant archaeological professionals.

C9 Gain an understanding of appropriate legislation, health and safety and project planning guidance, relevant to the archaeological profession.

**Inferential Skills** — students will be expected to:

B1 Analyse and synthesise data and information, relevant to archaeological data and interpretations and their ability to communicate and apply this information.

B2 Produce written specialist reports and communicate archaeological findings to both specialist and non-specialist audiences.

B3 Critically evaluate the potential implications of archaeological data.

B4 Integrate evidence from a range of sources, to support findings and hypotheses.

B5 Display an understanding of the planning of archaeological projects, or projects in related disciplines.

B6 Plan and execute a research strategy designed to answer a question, create new knowledge or provide original insights, and communicate the results of the research effectively.

**Transferable Skills** — students will be expected to:

D1 Communicate effectively by oral, written and visual means.

D2 Effectively use IT facilities, including word-processing, spreadsheet, database, presentation packages and the Internet.

D3 Prepare professional oral and written presentations.

D4 Apply appropriate project planning and management approaches.

D5 Analyse and evaluate a range of published and unpublished data.

D6 Demonstrate proven learning skills and application of expertise across discipline areas.

D7 Be independent and effective learners.

D8 Undertake independent work of an original nature.
MSc Bioarchaeology

PROGRAMME DIAGRAM
MSc Bioarchaeology

Stage 2/Level 7

Core units (Compulsory)
Research Project (60)

Exit qualification: MSc Bioarchaeology
Requires 180 Level 7 credits

Stage 1/Level 7

Core units (Compulsory)
Human Functional Anatomy (20)
Principles and Methods in Human Osteology (20)
Archaeology of Human Remains (20)

Option units
Choose 2 of the following:
Management of Archaeological Material (20)
Principles and Methods of Zooarchaeology (20)
Techniques of Archaeological Recovery and Recording (20)
Marine Environmental, Heritage and Spatial Planning (20)

Choose 1 of the following:
Human Evolution (20)
or
Humans, Animals and Diet (20)

Professional requirements
120 Level 7 credits
Exit qualification: PG cert Bioarchaeology
Requires 60 Level 7 credits
Exit qualification: PG Dip Bioarchaeology Requires 120 Level 7 credits
MSc Bioarchaeology

PATHWAY AIMS AND OUTCOMES

Introduction
Bioarchaeology is concerned with investigating and interpreting past societies through the appreciation of their skeletal remains in the context of prevailing socio-cultural, political, and economic circumstances, as well as belief systems. The subject sits firmly at the interface of the science and humanities aspects of anthropology, and it has strong links with a range of academic disciplines, including archaeology, archaeological science, and social anthropology. Its working methods draw on concepts from social, ecological and evolutionary theory. Being the only course with this particular orientation in the UK, a team of internationally known experts offers a programme of study that puts theoretical knowledge into hands-on experiential learning in one of the best-equipped specialist laboratory settings in the country.

Intensive training in human functional anatomy and skeletal examination of all common forms of human remains encountered in archaeological settings prepares for the in-depth study of major aspects of the human life course, from demography to diet, disease, activity, mobility, genetics and mortuary behaviour. The aspects of taphonomy and degradation of human remains as elements of critical appraisal of the source material will also be covered.

The programme provides a dedicated progression of learning from mastery of advanced anatomical and diagnostic skills to the specialist understanding of contextualised human skeletal analysis, complemented by options of archaeozoology, field archaeology, palaeo-environmental studies, and post-excavation experience. It offers an unparalleled opportunity to engage in a broad programme of study that will equip students with the knowledge and skills for further qualification or work in anthropology, archaeology, cultural studies and human sciences.

AIMS OF THE PROGRAMME
This programme provides opportunities for students to develop and demonstrate knowledge, understanding and skills that will allow them to progress to apply a holistic view to the interpretation of past human populations.

The primary aim of this programme is the development of graduates who:

- Have a critical understanding of the scientific and theoretical basis of bioarchaeology
- Have a broad grounding in the evidence and theories relating to human osteology
- Appreciate the relationships between bioarchaeology and other related disciplines including archaeology, archaeozoology, palaeo-environmental research, and biological anthropology
- Have the necessary scientific, regulatory and theoretical knowledge to develop careers in areas of bioarchaeology and related disciplines
- Understand the potential and limitations of using human remains as primary evidence for reconstructing past societies and events
- Have the skills and knowledge necessary for further postgraduate study.

The degree also aims to provide students with a substantial range of transferable skills in data analysis, report writing, designing and executing a research project, and critical analysis of published research.

The pathway will provide in-depth treatment of the following principle elements of bioarchaeology:

- Ethics, relevant legislation, codes and professional practice in handling human remains and samples
• An introduction to analytical procedures relevant to bioarchaeology, including molecular approaches
• Methods of recovery, excavation, packaging and care of human remains and conservation of other materials
• Analysis of human remains - including soft and hard tissue anatomy, skeletal anatomy of foetal, neonatal, infant, juvenile and adult remains, human-non human identification, individualisation (i.e. ancestry, sex, age, stature), disease and trauma, taphonomy and decay processes
• Contextualised analysis of human remains

PATHWAY INTENDED LEARNING OUTCOMES

Subject Knowledge and Understanding - This pathway provides opportunities for students to develop and demonstrate knowledge and understanding as follows:

A1. Have a critical understanding of theories, concepts and principles relevant to bioarchaeology
A2. Place their knowledge within international standards for bioarchaeology
A3. Understand the multidisciplinary nature of the subject and the need to apply knowledge from a range of subject areas in assessing problems and formulating solutions
A4. Recognise the ethical dimensions of their actions and the need for professional codes of conduct
A5. Have knowledge and understanding of the techniques relevant to the analysis and solution of problems in bioarchaeology
A6. Analyse critically published work in the field of bioarchaeology and related disciplines.

Intellectual Skills - This pathway provides opportunities for students to develop and demonstrate intellectual skills as follows:

B1. Evaluate critically and apply scientific knowledge and skills in bioarchaeology
B2. Analyse and synthesise information relevant to bioarchaeology
B3. Use specialised technical and academic skills in bioarchaeology
B4. Define problems and devise and evaluate possible solutions to both routine and unfamiliar problems
B5. Integrate evidence from a range of sources to support findings and hypotheses
B6. Plan, execute and report on a project involving original research.

Subject Specific Skills – successful students will be able to:

C1. Demonstrate a working strategy for collecting and interpreting data in bioarchaeology
C2. Demonstrate an in-depth and critical understanding of the range of techniques in bioarchaeology
C3. Present research findings in a range of effective and appropriate formats. Prepare technical reports, presentations databases

C4. Make effective use of the relevant academic literature and other sources of information.

Transferable Skills - This pathway provides opportunities for students to develop and demonstrate transferable skills as follows:

D1. Communicate effectively by oral, written and visual means to both professional and non-professional audiences

D2. Make effective use of IT, including the Web and word-processing

D3. Collect and analyse a range of data

D4. Work in collaboration with others, including staff and students

D5. Demonstrate problem-solving skills and the application of knowledge across the boundaries of different disciplines

D6. Identify and work towards targets for personal, career and academic development

D7. Be independent and reflective learners

LEARNING AND TEACHING METHODS AND STRATEGIES

Subject Knowledge and Understanding
Core knowledge and understanding is acquired through lectures, demonstrations, seminars, workshops, formative work, practical sessions and independent learning. Students are guided to key topical issues and the learning experience is enhanced by recent research and professional practice (A1-6, B1-6, C1-4, D1-7). Students are expected to undertake independent reading and data collection and to relate the concepts introduced in different units (A1-6, B1-6, C1-4, D1-7). Feedback on assignments and tests allows students to refine and develop their understanding (D6-7).

Intellectual Skills
Intellectual skills are developed through the learning and teaching methods and strategies outlined above (A1-6, B1-6, C1-4, D1-7).

Subject Specific Skills
Subject-specific skills are developed through the learning and teaching methods and strategies outlined above (C1-4).

Transferable Skills
Regular feedback on assignments and presentations allows students to develop not only their understanding, but also their ability to communicate their ideas. Working collectively during practical sessions contributes towards developing abilities in collaboration, liaison and team work (D1-7).

ASSESSMENT STRATEGIES

Subject Knowledge and Understanding
The core knowledge and understanding is assessed through appropriately structured coursework, professional reports, practical tests, and essays, regularly involving case-study material during the taught units (A1-6).
**Intellectual Skills**
The intellectual skills are assessed through assignments often involving the analysis of bioarchaeology data (outcomes B1-B5). Outcomes B1-6 are also assessed through the research project.

**Subject Specific Skills**
Outcomes C1-C4 are assessed through coursework and the research project.

**Transferable Skills**
D1-D7 are important components of all M-Level assessment and are therefore embedded throughout the framework. Effective communication of ideas is an important criterion in the assessment of all student work. Outcomes D1-6 are assessed through coursework, personal presentations and the research project.

**Learning outcomes for PGCert and PGDip**

By completing any 60 credits from the taught units on this pathway you will meet the following learning outcomes:
A1, A3, A6, B1, B2, B5, C1, C3, C4, D1, D2, D7

By completing units appropriate for the taught component of this course (excluding the research project) and achieving 120 credits you will meet the following learning outcomes:
A1-A6, B1-B3, B5, C1-C4, D1, D2, D5, D7
### MSc Bioarchaeology Programme Skills Matrix Template

Matrix table showing the relationship between ILOs for a programme and its constituent units

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<td><strong>A1</strong></td>
<td>have a critical understanding of theories, concepts and principles relevant to bioarchaeology</td>
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<td><strong>A2</strong></td>
<td>place their knowledge within international standards for bioarchaeology</td>
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<td><strong>A3</strong></td>
<td>understand the multidisciplinary nature of the subject and the need to apply knowledge from a range of subject areas in assessing problems and formulating solutions</td>
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<td><strong>A4</strong></td>
<td>recognise the ethical dimensions of their actions and the need for professional codes of conduct</td>
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<td><strong>A5</strong></td>
<td>have knowledge and understanding of the techniques relevant to the analysis and solution of problems in bioarchaeology</td>
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<td><strong>A6</strong></td>
<td>analyse critically published work in the field of bioarchaeology and related disciplines</td>
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<td><strong>B1</strong></td>
<td>evaluate critically and apply scientific knowledge and skills in bioarchaeology</td>
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<td><strong>B2</strong></td>
<td>analyse and synthesise information relevant to bioarchaeology</td>
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<td><strong>B3</strong></td>
<td>use specialised technical and academic skills in bioarchaeology</td>
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<td><strong>B4</strong></td>
<td>define problems and devise and evaluate possible solutions to both routine and unfamiliar problems</td>
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<td><strong>B5</strong></td>
<td>integrate evidence from a range of sources to support findings and hypotheses</td>
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<td><strong>B6</strong></td>
<td>plan, execute and report on a project involving original research</td>
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<td><strong>Subject Knowledge and Understanding</strong></td>
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<td><strong>Subject Specific Skills</strong></td>
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<td><strong>C1</strong></td>
<td>demonstrate a working strategy for collecting and interpreting data in bioarchaeology</td>
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<td><strong>C2</strong></td>
<td>demonstrate an in-depth and critical understanding of the range of techniques in bioarchaeology</td>
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<td><strong>C3</strong></td>
<td>present research findings in a range of effective and appropriate formats. Prepare technical reports, presentations databases</td>
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<td><strong>C4</strong></td>
<td>make effective use of the relevant academic literature and other sources of information</td>
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<td><strong>D1</strong></td>
<td>communicate effectively by oral, written and visual means to both professional and non-professional audiences</td>
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<td><strong>D2</strong></td>
<td>make effective use of IT, including the Web and word-processing</td>
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<td><strong>D3</strong></td>
<td>collect and analyse a range of data</td>
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<td><strong>D4</strong></td>
<td>work in collaboration with others, including staff and students</td>
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<td><strong>D5</strong></td>
<td>demonstrate problem-solving skills and the application of knowledge across the boundaries of different disciplines</td>
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<td><strong>D6</strong></td>
<td>identify and work towards targets for personal, career and academic development</td>
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<td><strong>D7</strong></td>
<td>be independent and reflective learners</td>
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MSc Biological Anthropology

PROGRAMME DIAGRAM

MSc Biological Anthropology

Stage 2/Level 7

Core units (Compulsory)
- Research Project (30)

Exit qualification: MSc Biological Anthropology
Requires 180 Level 7 credits

Stage 1/Level 7

Core units (Compulsory)
- Human Functional Anatomy (20)
- Principles & Methods in Zooarchaeology (20)
- Primate Behaviour and Ecology (20)
- Human Evolution (20)

Option units
Choose 1 of the following:
- Techniques of Archaeological Recovery and Recording (20)
- Principles and Methods in Human Osteology (20)
- Choose 1 of the following:
  - Archaeology of Human Remains (20)
  - Bodies of Evidence: Skeletal Changes Before and After Death (20)
  - Humans, Animals and Diet (20)

Progression requirements
120 Level 7 credits

Exit qualification: PG Cert Biological Anthropology
Requires 60 Level 7 credits

Exit qualification: PG Dip Biological Anthropology
Requires 120 Level 7 credits
MSc Biological Anthropology

PATHWAY CONTEXT AIMS AND OUTCOMES

Introduction
Biological Anthropology is the study of evolution and variation in human populations and of the interactions between human biology, culture and environment. The subject has roots in and links with a range of academic disciplines, including archaeology and social anthropology. This programme provides theoretical and practical training and considers methods and theories in biological anthropology from a broad range of perspectives, including human origins and evolution and human bioarchaeology. It draws on the School's international reputation for anthropology, archaeology and biology.

Whilst a number of UK universities offer some teaching in biological anthropology, it is commonly embedded within other degree programmes, usually archaeology. This programme is particularly distinctive in that it offers an opportunity to students to focus their studies specifically on Biological Anthropology. The programme includes comparative anthropology and detailed human osteology (at a level suitable for a forensic anthropologist).

The degree also covers sources of physical variation within human populations and the origins of such variations. Additional consideration is given to the wider settings within which the human species has developed and so the programme includes elements of archaeological science and palaeo-environmental study. Consequently, the degree is extremely wide ranging, covering periods stretching from the beginnings of human development, up to the present day. As such, the course offers an unparalleled opportunity to engage in a study programme that will leave students well equipped to continue a career in the study of human evolution, modern human variation, or the analysis of archaeological (or forensic) human skeletal remains.

AIMS OF THE PROGRAMME
This programme provides opportunities for students to develop and demonstrate knowledge, understanding and skills that will allow them to progress to employment or further study in areas related to human evolution, human bio-archaeology and forensic anthropology.

The primary aim of this programme is the development of graduates who:

• Have a critical understanding of the scientific and theoretical basis of biological anthropology
• Have a broad grounding in the evidence and theories relating to human origins and evolution
• Appreciate the relationships between biological anthropology and other related disciplines including archaeology, palaeo-environmental research and forensic science
• Have the necessary scientific, regulatory and theoretical knowledge to develop careers in areas of biological anthropology and related disciplines
• Understand the prospects and limitations of using human remains as primary evidence for reconstructing past societies and events
• Have the skills and knowledge necessary for further postgraduate study.

The degree also aims to provide students with a substantial range of transferable skills in data analysis, report writing, designing and executing a research project and proposal and critical analysis of published research.

The pathway will provide in-depth treatment of the following principle elements of biological anthropology:

• Ethics, relevant legislation, codes and professional practice in handling human remains and samples
• An introduction to analytical procedures relevant to biological anthropology
• Methods of recovery, excavation, packaging and care of human remains and conservation of other materials
• Analysis of human remains - including taphonomy and decay processes, soft and hard tissue anatomy, skeletal anatomy of foetal, neonatal, infant, juvenile and adult remains, human-non human identification, individualisation (i.e. ancestry, sex, age, stature), disease and trauma
• Human evolution and primate behavioural ecology
• Molecular approaches in biological anthropology

PROGRAMME INTENDED LEARNING OUTCOMES

Subject Knowledge and Understanding - This pathway provides opportunities for students to develop and demonstrate knowledge and understanding as follows:

A1. Have a critical understanding of theories, concepts and principles relevant to biological anthropology
A2. Place their knowledge within international standards for biological anthropology
A3. Understand the multidisciplinary nature of the subject and the need to apply knowledge from a range of subject areas in assessing problems and formulating solutions
A4. Recognise the ethical dimensions of their actions and the need for professional codes of conduct
A5. Have knowledge and understanding of the techniques relevant to the analysis and solution of problems in biological anthropology
A6. Analyse critically published work in the field of biological anthropology

Intellectual Skills - This pathway provides opportunities for students to develop and demonstrate intellectual skills as follows:

B1. Evaluate critically and apply scientific knowledge and skills in biological anthropology
B2. Analyse and synthesise information relevant to biological anthropology
B3. Use specialised technical and academic skills in biological anthropology
B4. Define problems and devise and evaluate possible solutions to both routine and unfamiliar problems
B5. Integrate evidence from a range of sources to support findings and hypotheses
B6. Plan, execute and report on a project involving original research

Subject Specific Skills – successful students will be able to:

C1. Demonstrate a working strategy for collecting and interpreting data in biological anthropology
C2. Demonstrate an in-depth and critical understanding of the range of techniques in biological anthropology
C3. Present research findings in a range of effective and appropriate formats. Prepare technical reports, presentations databases

C4. Make effective use of the relevant academic literature and other sources of information

**Transferable Skills** - This pathway provides opportunities for students to develop and demonstrate transferable skills as follows:

D1. Communicate effectively by oral, written and visual means to both professional and non-professional audiences

D2. Make effective use of IT, including the Web and word-processing

D3. Collect and analyse a range of data

D4. Work in collaboration with others, including staff and students

D5. Demonstrate problem-solving skills and the application of knowledge across the boundaries of different disciplines

D6. Identify and work towards targets for personal, career and academic development

D7. Be independent and reflective learners

**LEARNING AND TEACHING METHODS AND STRATEGIES**

**Subject Knowledge and Understanding**
Core knowledge and understanding is acquired through lectures, demonstrations, seminars, workshops, formative tests, practical sessions and independent learning. Students are guided to key topical issues and the learning experience is enhanced by recent research and professional practice (A1-6, B1-6, C1-4, D1-7). Students are expected to undertake independent reading and data collection and to relate the concepts introduced in different units (A1-6, B1-6, C1-4, D1-7). Feedback on assignments and tests allows students to refine and develop their understanding (D6-7).

**Intellectual Skills**
Intellectual skills are developed through the learning and teaching methods and strategies outlined above (A1-6, B1-6, C1-4, D1-7).

**Subject Specific Skills**
Subject-specific skills are developed through the learning and teaching methods and strategies outlined above (C1-4).

**Transferable Skills**
Regular feedback on assignments and presentations allows students to develop not only their understanding, but also their ability to communicate their ideas. Working collectively during practical sessions contributes towards developing abilities in collaboration, liaison and team work (D1-7).

**ASSESSMENT STRATEGIES**

**Subject Knowledge and Understanding**
The core knowledge and understanding is assessed through appropriately structured coursework reports, spotter tests and essays regularly involving case-study material during the taught units (A1-6).

**Intellectual Skills**
The intellectual skills are assessed through assignments often involving the analysis of biological anthropological data (outcomes B1-B5). Outcomes B1-6 are also assessed through the research project.
Subject Specific Skills
Outcomes C1-C4 are assessed through coursework and the research project.

Transferable Skills
D1-D7 are important components of all M-Level assessment and are therefore embedded throughout the framework. Effective communication of ideas is an important criterion in the assessment of all student work. Outcomes D1-6 are assessed through coursework, personal presentations and the research project.

Learning outcomes for PGCert and PGDip

By completing any 60 credits from the taught units on this pathway you will meet the following learning outcomes:
A1, A3, A6, B1, B2, B5, C1, C3, C4, D1, D2, D7

By completing units appropriate for the taught component of this course (excluding the research project) and achieving 120 credits you will meet the following learning outcomes:
A1-A6, B1-B3, B5, C1-C4, D1, D2, D5, D7
### Programme Intended Learning Outcomes

#### Subject Knowledge and Understanding
- **A1:** Have a critical understanding of the theories, concepts and principles relevant to biological anthropology.
- **A2:** Place their knowledge within international standards for biological anthropology.
- **A3:** Understand the multidisciplinary nature of the subject and the need to apply knowledge from a range of subject areas in assessing problems and formulating solutions.
- **A4:** Recognise the ethical dimensions of their actions and the need for professional codes of conduct.
- **A5:** Have knowledge and understanding of the techniques relevant to the analysis and solution of problems in biological anthropology.
- **A6:** Analyse critically published work in the field of biological anthropology.

#### Intellectual Skills
- **B1:** Evaluate critically and apply scientific knowledge and skills in biological anthropology.
- **B2:** Analyse and synthesise information relevant to biological anthropology.
- **B3:** Use specialised technical and academic skills in biological anthropology.
- **B4:** Define problems and devise and evaluate possible solutions to both routine and unfamiliar problems.
- **B5:** Integrate evidence from a range of sources to support findings and hypotheses.
- **B6:** Plan, execute and report on a project involving original research.

#### Subject Specific Skills
- **C1:** Demonstrate a working strategy for collecting and interpreting data in biological anthropology.
- **C2:** Demonstrate an in-depth and critical understanding of the range of techniques in biological anthropology.
- **C3:** Present research findings in a range of effective and appropriate formats. Prepare technical reports, presentations, databases.
- **C4:** Make effective use of the relevant academic literature and other sources of information.

#### Transferable Skills
- **D1:** Communicate effectively by oral, written and visual means to both professional and non-professional audiences.
- **D2:** Make effective use of IT, including the Web and word processing.
- **D3:** Collect and analyse a range of data.
- **D4:** Work in collaboration with others, including staff and students.
- **D5:** Demonstrate problem-solving skills and the application of knowledge across the boundaries of different disciplines.
- **D6:** Identify and work towards targets for personal, career and academic development.
- **D7:** Be independent and reflective learners.
MSc Forensic Archaeology

PROGRAMME DIAGRAM

Stage 2/Level 7

Core units (Compulsory)
- Forensic Archaeology (20)
- Science of Human Remains (20)
- Techniques of Archaeological Recovery and Recording (20)
- Advanced Forensic Archaeology (20)
- Professional Practice in Forensic Science (20)
- Crime Scene Management and Forensic Science (20)

Exit qualification: MSc Forensic Archaeology
Requires 180 Level 7 credits

Stage 1/Level 7

Core units (Compulsory)
- Research Project (60)

Progression requirements 120 Level 7 credits

Exit qualification: PG Cert Forensic Archaeology
Requires 60 Level 7 credits

Exit qualification: PG Dip Forensic Archaeology
Requires 120 Level 7 credits
MSc Forensic Archaeology

PATHWAY CONTEXT, AIMS AND OUTCOMES

Introduction
Forensic Archaeology encompasses the application of archaeological principles and methods, within
the constraints and framework of the criminal justice system. It was developed in the UK in the 1990s
and the MSc Forensic Archaeology was established at Bournemouth University in 1996. Since this
time, forensic archaeologists have found an additional role in the international investigation of mass
graves for criminal tribunals and humanitarian agencies, crime scene recovery, and recording at mass
disasters.

The basis of this pathway is derived from the experience of archaeologists who practice forensic
archaeology, both nationally and internationally and addresses the needs identified by the Police
authorities, the Scene of Crime Service, UN and identification agencies and the criminal justice
system. The teaching is research led and the staff on this pathway are at the forefront of forensic
archaeological practice, theory and development, which feeds directly into the teaching and learning.

AIMS OF THE PROGRAMME
The MSc Forensic Archaeology is committed to the education and training of skilled and adaptable
individuals, who will be able to enhance scene of crime investigations in both the domestic and
international setting, by applying appropriate archaeological principles and methods. This will be
achieved by providing them with:

• A multidisciplinary framework for enhancing the effectiveness of crime scene investigations

• Practical, theoretical and vocational skills to increase their effectiveness within the interface of
archaeology, police, crime scene and international investigations

• A detailed knowledge base to integrate practical, ethical, legal and specialist themes

• Advanced knowledge to effectively apply archaeological methods at a domestic and
international crime scene

• Contact with practitioners in the field of forensic archaeology and related
forensic sciences.

The pathway will provide treatment of the following principal elements of forensic archaeology:

• The development and role of forensic archaeology in the UK, USA, in international and disaster
investigations

• The criminal justice system in England and Wales and international human rights law, including
the organisation and structure of the police forces within England and Wales

• An introduction to UN agencies and the investigation of mass murder, crimes against humanity
and genocide

• An introduction to scene of crime investigation, including organisation and hierarchy,
management, procedures and basic legal constraints and the role of the archaeologist at the
crime scene

• Ethics, legislation, codes of practice and professional practice in forensic archaeology

• An introduction to the relevant forensic sciences, basic principles and methods as they affect
scene of crime activities
• Methods in forensic archaeology, with particular attention to search, location, surface evidence recovery, excavation strategies and techniques, recording methods and interpretation of scenes, including single clandestine graves, mass graves, major incidents and mass disasters

• Procedures including site assessment and evaluation, geophysical techniques and report writing

• An introduction to recovery and identification of human remains, including taphonomic processes, muscular and skeletal anatomy and assessment of basic biological information, distinction of animal and human remains

• Recovery, care and conservation of other materials, including the potential of artefact analysis for scene of crime investigation, forensic science and the implications of the legal framework in respect of the conservation of materials

• Courtroom and expert witness skills, focusing on practical case work, reporting skills and courtroom procedures.

PROGRAMME INTENDED LEARNING OUTCOMES

This M level pathway provides opportunities for students to develop and demonstrate knowledge and understanding, and skills as follows:

Subject Knowledge and Understanding - Students will be expected to:

A1. Have a critical understanding of theories, concepts and principles relevant to forensic archaeology and the law
A2. Evaluate the role of forensic archaeology within the legal system of England and Wales and international humanitarian law
A3. Recognise the moral and ethical dimensions of their actions, relevant legislation and the need for professional codes of conduct
A4. Have a comprehensive understanding of the multidisciplinary nature of the field and the need to apply knowledge from a range of subject areas within forensic science
A5. Understand their role in national or international crime scenes and within a court of law
A6. Have advanced knowledge and understanding of the role of the coroner, forensic anthropologists, forensic specialists, the police, key international organisations and crime scene personnel.

Intellectual Skills - Students will be expected to:

B1. Analyse and synthesise disparate information relevant to forensic archaeology and show the ability to communicate and apply this information at a crime scene
B2. Display the ability to work constructively and co-operatively within a multidisciplinary team
B3. Apply and adapt archaeological principles and methods to specific criminal investigations to solve routine and unfamiliar problems
B4. Synthesise and evaluate evidence from a range of sources to support findings and hypotheses
B5. Produce a written specialist report and communicate scientific findings to a non-specialist audience in a court of law

B6. Display a comprehensive understanding of the planning of projects and their resource implications and management tools necessary for a successful outcome.

Subject Specific Skills - Successful students will be able to:

C1. Integrate disparate information relevant to forensic archaeology

C2. Show a critical understanding of the national and international legal and ethical frameworks in which they will practice

C3. Recognise the different constraints of relevant frameworks and reconcile these

C4. Show a critical understanding of the roles of and effectively communicate with, relevant forensic professionals

C5. Have an effective role at a crime scene and within a courtroom

C6. Demonstrate self-direction and originality when adapting archaeological principles and methods to specific criminal investigations

C7. Evaluate, analyse and present information to a specialist and/or non-technical audience

Transferable Skills

D1. Communicate effectively by oral, written and visual means

D2. Use effectively IT, including the Web, and word-processing

D3. Solve statistical problems using appropriate techniques

D4. Analyse a range of experimental, published and fieldwork data

D5. Work in collaboration with others, including key practitioners, staff and students and be able to facilitate and manage group processes, negotiation and participation

D6. Undertake independent work of an original nature

D7. Demonstrate problem solving skills and the application of knowledge across discipline areas

D8. Be independent and reflective learners

D9. Identify and work towards targets for personal career and academic development

LEARNING AND TEACHING METHODS AND STRATEGIES

A range of strategies are employed to provide a varied learning experience effectively targeted towards developing the key areas of core subject knowledge and understanding, cognitive and intellectual development, subject-specific practical skills and more general transferable skills and knowledge

Core knowledge and understanding (A1-6) is acquired through lectures, seminars, practicals, workshops, relevant fieldwork and independent learning. Students are expected to undertake independent reading and to relate the concepts introduced in different units. Feedback on assignments allows students to refine and develop their understanding.
Cognitive skills (B1-6) are developed via lectures, seminars, practicals, workshops, fieldwork and independent learning. Practical fieldwork exercises particularly develop teamwork and problem solving skills (B2-3). Students are expected to undertake independent reading and to relate the concepts introduced in different units.

Practical skills are promoted through the crime scene workshop and expert witness role-play (C4-5, C7), archaeological methods training, fieldwork, practicals and anthropological laboratory based sessions (C1-7). The execution of a journal paper may also involve elements of experiment and test practical skills.

Transferable skills (D1-9) are developed through learning and teaching methods. Regular feedback on assignments, fieldwork and in workshop situations allows students to develop not only their understanding (D8), but also their ability to communicate their ideas.

**ASSESSMENT STRATEGIES**

Knowledge and understanding, intellectual skills, subject-specific/practical skills and transferable skills are summatively assessed entirely through coursework. Assessment strategies are designed to enhance the learning experience and to most effectively evaluate the diverse range of learning outcomes. Feedback is provided during and after assessment participation so that students can improve and progress within and between units.

The core knowledge and understanding (A1-6) is assessed through structured essays, seminars, individual reports, oral presentations, fieldwork performance and forensic case and role-play exercises.

Intellectual skills are assessed through structured essays (B4), individual reports (B3-5), and oral presentations and role-play (B1-5). Outcome B6 is assessed through the execution of a research proposal and journal paper, which allows students to demonstrate their thinking skills to the highest level.

Assessment of subject specific skills (C1-7) is carried out through individual and group performance in forensic case and role-play exercises in lab and field (C4-5, C7), written assignments, individual field reports, presentations and the journal paper (C1-7).

Effective communication of ideas is an important criterion in the assessment of all student work. D1-9 are assessed through written reports, essays, role-play, and a journal paper.

**Learning outcomes for PGCert and PGDip**

By completing any 60 credits from the taught units on this pathway you will meet the following learning outcomes:
A3, A4, B1, B5, C1, C2, D1, D2, D8

By completing units appropriate for the taught component of this course (excluding the research project) and achieving 120 credits you will meet the following learning outcomes:
A1-A5, B1-B3, B5, C1-C5, D1, D2, D7, D8
## MSc Forensic Archaeology Programme Skills Matrix Template

Matrix table showing the relationship between ILOs for a programme and its constituent units

<table>
<thead>
<tr>
<th>Units</th>
<th>Programme Intended Learning Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Research Project</td>
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<tr>
<td>Forensic Archaeology</td>
<td>X</td>
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<tr>
<td>Science of Human Remains</td>
<td>X</td>
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<tr>
<td>Techniques of Archaeological Recovery and</td>
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<tr>
<td>Recording</td>
<td>X</td>
</tr>
<tr>
<td>Advanced Forensic Archaeology</td>
<td>X</td>
</tr>
<tr>
<td>Professional Practice in Forensic Science</td>
<td>X</td>
</tr>
<tr>
<td>Crime Scene Management and Forensic Science</td>
<td>X</td>
</tr>
</tbody>
</table>
### Subject Knowledge and Understanding - Students will be expected to:

| A1 | have a critical understanding of theories, concepts and principles relevant to forensic archaeology and the law |
| A2 | evaluate the role of forensic archaeology within the legal systems of England and Wales and international humanitarian law |
| A3 | recognise the moral and ethical dimensions of their actions, relevant legislation and the need for professional codes of conduct |
| A4 | have a comprehensive understanding of the multidisciplinary nature of the field and the need to apply knowledge from a range of subject areas within forensic science |
| A5 | understand their role in national or international crime scenes and within a court of law |
| A6 | have advanced knowledge and understanding of the role of the coroner, forensic anthropologists, forensic specialists, the police, key international organisations and crime scene personnel |

### Intellectual Skills - Students will be expected to:

| B1 | analyse and synthesise disparate information relevant to forensic archaeology and show the ability to communicate and apply this information at a crime scene |
| B2 | display the ability to work constructively and co-operatively within a multidisciplinary team |
| B3 | apply and adapt archaeological principles and methods to specific criminal investigations to solve routine and unfamiliar problems |
| B4 | synthesise and evaluate evidence from a range of sources to support findings and hypotheses |
| B5 | produce a written specialist report and communicate scientific findings to a non-specialist audience in a court of law |
| B6 | display a comprehensive understanding of the planning of projects and their resource implications and management tools necessary for a successful outcome |

### Subject Specific Skills - Successful students will be able to:

| C1 | integrate disparate information relevant to forensic archaeology |
| C2 | show a critical understanding of the national and international legal and ethical frameworks in which they will practice |
| C3 | recognise the different constraints of relevant frameworks and reconcile these |
| C4 | show a critical understanding of the roles of and effectively communicate with, relevant forensic professionals |
| C5 | have an effective role at a crime scene and within a courtroom |
| C6 | demonstrate self-direction and originality when adapting archaeological principles and methods to specific criminal investigations |
| C7 | evaluate, analyse and present information to a specialist and/or non-technical audience |

### Transferable Skills

| D1 | communicate effectively by oral, written and visual means |
| D2 | use effectively IT, including the Web, and word-processing |
| D3 | solve statistical problems using appropriate techniques |
| D4 | analyse a range of experimental, published and fieldwork data |
| D5 | work in collaboration with others, including key practitioners, staff and students and be able to facilitate and manage group processes, negotiation and participation |
| D6 | undertake independent work of an original nature |
| D7 | demonstrate problem solving skills and the application of knowledge across discipline areas |
| D8 | be independent and reflective learners |
| D9 | identify and work towards targets for personal career and academic development |
MSc Forensic Anthropology

PROGRAMME DIAGRAM
MSc Forensic Anthropology

Stage 2/Level 7

Core units (Compulsory)
Research Project (60)

Exit qualification: MSc Forensic Anthropology
Requires 180 Level 7 credits

Stage 1/Level 7

Core units (Compulsory)
Human Functional Anatomy (20)
Principles and Methods in Human Osteology (20)
Bodies of Evidence: Skeletal Changes Before and After Death (20)
Crime Scene Management and Forensic Science (20)
Professional Practice in Forensic Science (20)

Option units
Choose 1 of the following:
- Forensic Archaeology (20)
- Techniques of Archaeological Recovery and Recording (20)

Progression requirements
120 Level 7 credits

Exit qualification: PG Cert Forensic Anthropology
Requires 60 Level 7 credits

Exit qualification: PG Dip Forensic Anthropology
Requires 120 Level 7 credits
MSC FORENSIC ANTHROPOLOGY

PATHWAY CONTEXT, AIMS AND OUTCOMES

Introduction
Forensic Anthropology is a division of biological anthropology that is concerned with the analysis of human skeletal remains from forensic contexts. The application of biological anthropology to the forensic arena is increasingly recognised, as providing an important suite of expertise and skills. During recent years international investigations of disasters, human rights violations and genocide have brought a growing demand for skilled practitioners, who can contribute towards the identification of unknown victims and the determination of the cause of their deaths. Such skills have also been increasingly utilised to identify and investigate human remains recovered from forensic contexts relating to domestic criminal activity, particularly in North America, but with a steady growth in recognition globally.

The pathway was developed in response to the fact that, prior to 2000, there was no adequate course of this type delivered within the UK and few elsewhere. Forensic osteology is much more than the simple transference of biological anthropology to the forensic arena. It demands an understanding of legal issues and constraints, management and process of the investigative system and the professional skills enabling evidence to be presented to the Courts. It also requires an understanding of the post mortem fate of human remains, the location and recovery of skeletonised remains and the adaptation and application of biological anthropology to the context of individuals, rather than sample populations.

As the methods and theories applied in forensic anthropology are situated within the wider field of biological anthropology (the study of human beings within the framework of evolution, explicitly emphasising the interaction between biology and culture, and including the study of skeletal remains from archaeological contexts), it seems logical to ensure that students have the skills to examine material from both forensic and archaeological contexts. This serves to further increase the employment prospects and versatility of prospective graduates, whilst study based upon archaeological populations also has relevance in the context of the developing world, where many diseases of the past and pre-industrial conditions are still extant within living communities.

Overall, the proposed course will furnish students with a range of highly specialised skills. In addition, students will gain a wide range of transferable skills including report writing, expert witness training and experience of writing research funding proposals. Teaching is research led throughout the course. Staff on this pathway are at the forefront of forensic practice, theory and development related to human skeletal remains and their knowledge and experience feed directly into the teaching and learning for this pathway.

AIMS OF THE PROGRAMME

The MSc Forensic anthropology pathway is committed to the education and training of a cadre of skilled and adaptable individuals, who will be able to examine material from both forensic and archaeological contexts. This will be achieved by providing the following:

- A multidisciplinary framework for building on prior learning regarding the analysis and interpretation of human remains recovered from archaeological and forensic contexts
- Practical, theoretical and vocational skills relating to the application of archaeological and osteological expertise in the context of criminal and international investigations
- A sound understanding of the scientific, technical, ethical, legal and regulatory basis of the practice of human osteology in forensic contexts and its application to specific problems and situations at all scales from local to global
- The necessary scientific, methodological and legal knowledge base to develop successful careers in specialist fields and integrate specialist themes
• The ability and confidence to communicate effectively both with others working in the field of forensic anthropology, the judiciary and with the wider public

• Contact with practitioners in the field of biological and forensic anthropology and related forensic sciences.

The pathway will provide in-depth treatment of the following principal elements of forensic and biological anthropology:

• The development and role of forensic anthropology / osteology in the UK, USA and in disaster and International investigations

• The criminal justice system in England and Wales and human rights law, including the organisation and structure of the police forces within England and Wales

• An introduction to UN agencies and the investigation of mass murder, crimes against humanity and genocide

• An introduction to scene of crime investigation, including organisation and hierarchy, basic legal constraints and the role of the archaeologist and anthropologist at the crime scene

• Ethics, relevant legislation, codes and practice and professional practice in forensic anthropology

• An introduction to the relevant forensic sciences, basic principles and methods as they affect scene of crime activities

• An introduction to analytical procedures relevant to forensic and biological anthropology

• Methods of recovery, excavation, packaging and care of human remains and conservation of other materials

• Analysis of human remains, including taphonomy and decay processes, soft and hard tissue anatomy, skeletal anatomy of adult and sub-adult remains, differentiation of human from non-human bone, biological profiling and individualisation, skeletal pathology and trauma and approaches to the study of population data

• Courtroom and expert witness skills. Focusing on practical expert witness case work and reporting skills, courtroom procedures and skills essential to the effective expert witness both in and out of the witness box.

PATHWAY INTENDED LEARNING OUTCOMES

This Masters level pathway provides opportunities for students to develop and demonstrate knowledge and understanding and skills as follows:

A. Subject Knowledge and Understanding - students will be expected to:

A1. Have a critical understanding of relevant theories, concepts and principles relevant to forensic and biological anthropology

A2. Recognise the moral and ethical dimensions of their actions, relevant legislation and the need for professional codes of conduct

A3. Apply their knowledge of forensic osteology within the legal system of England and Wales and International Humanitarian law

A4. Understand their role in a national and international crime scene and within a court of law
A5. Have in-depth knowledge and understanding of the role of the coroner, forensic pathologist, scene of crime officers, the police, key international organisations and personnel and crime scene management

A6. Critically evaluate and apply scientific knowledge and skills in the development and implementation of practical solutions to forensic problems in specific settings and at various scales

B. Intellectual Skills - students will be expected to:

B1. Identify complete and fragmentary human skeletal material

B2. Display the ability to effectively and efficiently analyse human remains recovered from archaeological and forensic contexts

B3. Integrate and evaluate evidence from a range of sources to support findings and hypotheses

B4. Analyse and synthesise disparate information relevant to forensic anthropology and show the ability to communicate and apply this information at a crime scene

B5. Display the ability to work constructively and co-operatively, within a multidisciplinary team

B6. Produce written specialist reports and in the case of forensic osteological examination, communicate scientific findings to a non-specialist audience in a court of law

B7. Display an in-depth understanding of the planning of projects and their resource implications and management tools necessary for a successful outcome

C. Subject Specific Skills – successful students will be able to:

C1. Comprehensively understand the anatomical structure and physiological function of the skeletal system and its interactions with other body systems

C2. Demonstrate an in-depth and critical understanding of the range of techniques for identifying and assessing human skeletal remains

C3. Bring together and integrate disparate information relevant to forensic and biological anthropology

C4. Understand national and international legal and ethical frameworks in which they will practice

C5. Recognise the different constraints of relevant frameworks and reconcile these

C6. Understand the roles of and effectively communicate with, relevant archaeological and forensic professionals

C7. Have an effective role at an archaeological excavation, or a crime scene and within a courtroom

C8. Analyse, synthesise and present information to a specialists and/or non-technical audience

D. Transferable Skills – students will be expected to:
D1. Communicate effectively by oral, written and visual means
D2. Effectively employ IT facilities, including word-processing, PowerPoint and the Web
D3. Solve statistical problems using appropriate techniques
D4. Analyse and synthesise a range of experimental, published and fieldwork data
D5. Work in collaboration with others, including key practitioners, staff and students, and be able to facilitate and manage group processes, negotiation and participation
D6. Undertake independent work of an original nature addressed to forensic and biological anthropology
D7. Demonstrate problem solving skills and the application of knowledge across discipline areas
D8. Be independent and reflective learners
D9. Identify and work towards targets for personal career and academic development

LEARNING AND TEACHING METHODS AND STRATEGIES

A range of strategies are employed to provide a varied learning experience effectively targeted towards developing the key areas of core subject knowledge and understanding, cognitive and intellectual development, subject-specific practical skills and more general transferable skills and knowledge.

Core knowledge and understanding (A1-6) is acquired through lectures, practical workshops, role-play exercises, class discussions, independent learning and if possible, related field trips. Students are expected to attend post-mortems and trials at the local Crown Court. Furthermore, they are required to undertake independent reading and to relate the concepts introduced in different units. Feedback on assignments allows students to refine and develop their understanding.

Cognitive skills are developed via lectures (B1-7), practical workshops (B1-2), oral presentations and role-play exercises (B3-6), class discussion and independent learning (B1-7). Students are expected to undertake independent reading and to relate the concepts introduced in different units.

Practical skills are promoted through laboratory based practical sessions and anthropological methods training (C1-3, C6), and the mock crime scene workshop (C3-8). The execution of a journal paper may also involve elements of experiment and test practical skills (C1-8).

Transferable skills (D1-9) are developed through learning and teaching methods. Regular feedback on assignments, practical laboratory based workshops and oral presentations, allow students to develop not only their understanding (D8), but also their ability to communicate their ideas.

ASSESSMENT STRATEGIES

Knowledge and understanding, intellectual skills, subject-specific/practical skills and transferable skills are summative assessed entirely through coursework. A range of assessment strategies is employed to enhance the learning experience and to most effectively evaluate the diverse range of learning outcomes. Feedback is provided during and after assessment participation, so that students can improve and progress within and between units.

The core knowledge and understanding (A1-6) is assessed through appropriately structured essays, short answer tests, multiple choice tests, practical spotter tests, individual reports, oral presentations and forensic case and role-play exercises in lab and field.

Intellectual skills are assessed through appropriately structured essays (B2 - B5), short answer tests, multiple choice tests (B1- B3), practical spotter tests (B1 - B3), individual reports (B2, B3, B6), oral
presentations and role-play (B5 - B6). Outcome B7 is also assessed through the execution of a research proposal and journal paper, which allows the student to demonstrate his/her, thinking skills to the highest level.

Anatomical structure and physiological function (C1) is assessed by short answer and multiple choice tests. Techniques employed for human skeletal analysis (C2) is assessed by short answer, multiple choice and spotter tests. Assessment of subject specific skills (C2-8) is carried out through individual and group performances in assignments, oral presentations, forensic case and role-play exercises in lab and field, individual specialist reports and the journal paper.

Effective communication of ideas is an important criterion in the assessment of all student work. D1-9 are assessed through essays, written reports, oral presentations, forensic case and role-play exercises in lab and field and a journal paper.

**Learning outcomes for PGCert and PGDip**

By completing any 60 credits from the taught units on this pathway you will meet the following learning outcomes:
A1, A6, B2, B3, C2, C3, C5, C8, D1, D2, D8

By completing units appropriate for the taught component of this course (excluding the research project) and achieving 120 credits you will meet the following learning outcomes:
A1, A2, A4-A6, B1-B3, B6, C1-C5, C8, D1, D2, D7, D8
## MSc Forensic Anthropology Programme Skills Matrix Template

Matrix table showing the relationship between ILOs for a programme and its constituent units

<table>
<thead>
<tr>
<th>Units</th>
<th>Programme Intended Learning Outcomes</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Forensic Archaeology</td>
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<tr>
<td>Human Functional Anatomy</td>
<td></td>
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<tr>
<td>Principles and Methods in Human Osteology</td>
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<tr>
<td>Techniques of Archaeological Recovery and Recording</td>
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<td>Crime Scene Management and Forensic Science</td>
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<tr>
<td>Professional Practice in Forensic Science</td>
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<tr>
<td>PRP</td>
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</table>

### Programme Intended Learning Outcomes

#### A - Subject Knowledge and Understanding

1. Have a critical understanding of Forensic Concepts and Principles relevant to Forensic & Biological anthropology
2. Identify & work towards targets for personal career and academic development
3. Demonstrate an in-depth & critical understanding of the range of techniques for identifying and assessing human skeletal remains
4. Understand the role of Coroner, Forensic Pathologist, Scene of Crime Officers, Police, Key International organisations etc.
5. Critically evaluate and apply scientific knowledge & logic in the development & implementation of practical solutions to forensic problems …

#### B - Intellectual Skills

1. Communicate effectively by oral, written and visual means
2. Identify complete & fragmentary human skeletal material
3. Display the ability to effectively & efficiently analyse human remains recovered from archaeological and forensic contexts
4. Integrate and evaluate evidence from a range of sources to support findings and hypotheses
5. Analyse and synthesise disparate information relevant to forensic anthropology & show the ability to communicate and apply this information at a crime scene
6. Display the ability to work constructively and co-operatively, within a multidisciplinary team
7. Produce written specialist reports & communicate scientific findings to non-specialist audience in a court of law
8. Display in-depth understanding of the planning of projects & their resource implications & management tools, measures, for a successful outcome

#### C - Subject-specific/Practical Skills

1. Comprehensively understand the anatomical structure & physiological function of the skeletal system & its interactions with other body systems
2. Display an in-depth understanding of the planning of projects & their resource implications & management tools, measures, for a successful outcome
3. Bring together disparate information relevant to forensic & biological anthropology
4. Understand the role of Coroner, Forensic Pathologist, Scene of Crime Officers, Police, Key International organisations etc.
5. Bring together disparate information relevant to forensic & biological anthropology
6. Have an effective role at an archaeological excavation, or crime scene and in the courtroom
7. Have an effective role at an archaeological excavation, or crime scene and in the courtroom
8. Be independent & reflective learners

#### D - Transferable Skills

1. Identify complete & fragmentary human skeletal material
2. Display the ability to effectively & efficiently analyse human remains recovered from archaeological and forensic contexts
3. Integrate and evaluate evidence from a range of sources to support findings and hypotheses
4. Analyse and synthesise disparate information relevant to forensic anthropology & show the ability to communicate and apply this information at a crime scene
5. Display the ability to work constructively and co-operatively, within a multidisciplinary team
6. Produce written specialist reports & communicate scientific findings to non-specialist audience in a court of law
7. Display in-depth understanding of the planning of projects & their resource implications & management tools, measures, for a successful outcome
8. Be independent & reflective learners
MSc Forensic Toxicology by Research

**Stage 2/Level 7**

**Core units (Compulsory)**
- Extended Research Project (120)

**Exit qualification:** MSc Forensic Toxicology by Research
- Requires 180 Level 7 credits

**Stage 1/Level 7**

**Core units (Compulsory)**
- Forensic Toxicology (20)
- Laboratory and Research Skills (23)
- Professional practice in Forensic Science (20)

**Option units**
- None

**Progression requirements**
- 60 Level 7 credits

**Exit qualification:** PG Cert Forensic Toxicology by Research
- Requires 60 Level 7 credits
MSc Forensic Toxicology by Research

PATHWAY CONTEXT, AIMS AND OUTCOMES

Introduction
Toxicology, the study of drugs and poisons, is an expanding area of study that offers graduates a wide range of career options. Forensic toxicology is the application of the science and study of drugs and poisons, to questions that arise in judicial proceedings and involves a wide range of case scenarios including drugs/alcohol and driving, drug facilitated sexual assault, workplace drug testing, criminal toxicology and deliberate/malicious poisoning.

Forensic toxicology involves the study of the isolation and analysis of drugs and poisons from a wide variety of matrixes, including human tissues and the effects that these may have on the individual. The course will aim to provide students with a detailed knowledge concerning the selection and collection of case materials, as well as the analytical techniques used in forensic toxicology laboratories for the isolation and identification of drugs and poisons.

Students will study the signs and symptoms associated with the use of common drugs and poisons, basic pharmacology, mechanisms of drug/poison action, drug metabolism and drug elimination from the body. In addition to the more traditional areas of forensic toxicology, the course will introduce students to aspects of environmental forensic science where toxicology may be involved.

An important part of the training of the forensic expert is associated with the presentation of evidence in court and students will undertake training in the preparation and presentation of evidence. The course is delivered by experienced forensic toxicologists and forensic practitioners, with an emphasis on professional capabilities. Wherever possible, the study will be case lead. Our objective is to provide excellent, theoretically informed, science-based learning, as well as research skills.

AIMS OF THE PROGRAMME

The widespread growth in the availability of drugs has lead to an expansion in the number of individuals using drugs and drug related crime and this has lead to an expansion in the amount of forensic drug testing and toxicological analysis, undertaken on an international basis. Forensic toxicology in its widest sense encompasses a wide scope, including the analysis of human tissues for the presence of drugs and poisons to assist with the investigation of fatalities, driving under the influence of drugs, sexual assaults and violent crime, as well as the analysis related to environmental and food samples for adulterants and contaminants. Forensic toxicology is undertaken by many organisations including police laboratories, hospitals and a growing number of commercial laboratories. The pathway is intended to provide graduates with a detailed knowledge and understanding of the fundamentals of forensic toxicology, the type and scope of work undertaken and a range of research and analytical skills.

PROGRAMME INTENDED LEARNING OUTCOMES

This pathway provides opportunities for students to develop and demonstrate knowledge and understanding, and skills, as follows.

A Subject Knowledge and Understanding – students will be expected to:

A1. Have an understanding of the fundamental principles of toxicology and types of cases undertaken by the forensic toxicologist

A2. Knowledge of the toxicology, pharmacology and toxicological analysis of drugs and poisons, commonly encountered in routine forensic toxicology work

A3. Familiarisation with the fundamental concepts of forensic science, chain of custody, specimen collection, packaging, report writing and the presentation of evidence in court
A4. An understanding of the roles of key organisations involved in the regulation and servicing of forensic science relevant UK legislation relevant to forensic science

A5. Familiarisation with quality systems relevant to forensic science and forensic toxicology and the role of the expert witness, including report / statement writing and the presentation of evidence

A6. Research and laboratory skills

**B Intellectual Skills** – students will be expected to:

B1. Analyse approaches used in forensic toxicology casework, illustrated and supported by casework examples and exercises

B2. Critically evaluate the potentials and limitations of analytical results, obtained from a wide range of matrixes encountered in forensic toxicology

B3. Know how to apply and adapt analytical principles and methods to specific criminal investigations, to solve routine and unfamiliar problems

B4. Produce a written specialist report and communicate scientific findings, to a non-specialist audience e.g. in a court of law

B5. Demonstrate an understanding of fundamental scientific analytical techniques and appreciate how they can be applied to toxicological analyses.

B6. Plan and complete a research strategy designed to answer a question, create new knowledge, or provide original insights and communicate the results of research effectively

**C Subject-Specific/Practical Skills** – students will be expected to:

C1. Understand basic principles of toxicology

C2. Gain detailed knowledge concerning the pharmacology, pharmacodynamics and toxicology of drugs of abuse and other drugs of forensic significance and also common inorganic poisons

C3. Develop an understanding of analytical approaches and instrumentation used in forensic toxicology and develop competence in basic analytical laboratory procedures

C4. Develop knowledge and understanding in the potential relevance of pharmacogenomics / toxicogenomics to forensic toxicology

C5. Develop awareness of the growing field of environmental toxicology

C6. Develop awareness and knowledge of reagents having potential for use as chemical and biological threats

**D Transferable Skills** – students will be expected to:

D1. Communicate effectively by oral, written and visual means

D2. Effectively employ IT facilities, including word-processing, spread sheet, database, presentation packages and the Web

D3. Prepare conference papers
D4. Analyse and evaluate a range of published and unpublished data
D5. Undertake independent work of an original nature
D6. Be independent and reflective learners

LEARNING AND TEACHING METHODS AND STRATEGIES

A range of teaching and learning strategies will be employed to provide a varied learning experience. Lectures, practical workshops and laboratory-based sessions, seminar presentations and discussions, individual tutorials and peer assisted learning, will be effectively targeted towards developing the key areas of core subject knowledge and understanding (A1-6), cognitive and intellectual development (B1-6), subject specific practical skills (C1-6) and more general transferable skills and knowledge (D1-6).

During the program, the student will experience a variety of the following:

- formal lectures to introduce new subject material and guide students into project and learning tasks
- seminars / discussion, which will allow students to experience student-centred learning in group discussion and written research skills. These sessions will also allow students to develop confidence in communication and presentation skills and foster interpersonal relationships, as well as encouraging self-criticism and feedback skills
- personal reading assignments
- laboratory exercises to gain practice and familiarity with basic laboratory skills
- a double weighted personal research project.

ASSESSMENT STRATEGIES

Knowledge and understanding, intellectual skills, subject-specific/practical skills and transferable skills, are summatively assessed entirely through coursework. A range of assessment strategies is employed to enhance the learning experience and to most effectively evaluate the diverse range of learning outcomes. Assessment will be undertaken by written coursework, tests, the submission of a report based on the personal research project and a viva voce examination.

The core knowledge and understanding (A1-6) is assessed through appropriately structured essays (A1, A3 - 5), short-answer tests (A2), specialist reports (A3, A5-6), oral presentations (A1-6) and ‘conference papers’ (A6). Intellectual skills (B1-6) are assessed through appropriately structured essays and oral presentations. A research proposal, journal paper and viva voce will be used by the student to demonstrate his/her critical thinking skills, to the highest level (B1-6). Subject-specific/practical skills are assessed through appropriately structured essays (C1-5) and oral presentations (C1-6). The journal paper will assess C1 and depending on the chosen topic, a range of other subject-specific and/or practical skills (C2-6). Effective communication of ideas is an important criterion in the assessment of all student work. D1-6 are assessed variously through essays, written reports and papers, database design, oral presentations and a journal paper. Certain assignments are designed to develop particular transferable skills: for example, oral presentations and write-up of ‘conference papers’ (D1-3) and the personal research project (D4-6).
Interim award of PG Cert in Forensic Toxicology by Research

This award is only for those students registered on the full programme, but unable to meet the learning outcomes of the extended research project. Students will have met the following learning outcomes to be awarded this interim award

ILOs A1, A3, A4, B1, B5, C1, C2, C4, C5, D1, D2, D6
A Subject Knowledge and Understanding – students will be expected to:

A1. Have an understanding of the fundamental principles of toxicology and types of cases undertaken by the forensic toxicologist
A2. Knowledge of the toxicology, pharmacology and toxicological analysis of drugs and poisons, commonly encountered in routine forensic toxicology work
A3. Familiarisation with the fundamental concepts of forensic science, chain of custody, specimen collection, packaging, report writing and the presentation of evidence in court
A4. An understanding of the roles of key organisations involved in the regulation and servicing of forensic science relevant UK legislation relevant to forensic science
A5. Familiarisation with quality systems relevant to forensic science and forensic toxicology and the role of the expert witness, including report / statement writing and the presentation of evidence
A6. Research and laboratory skills

B Intellectual Skills – students will be expected to:

B1. Analyse approaches used in forensic toxicology casework, illustrated and supported by casework examples and exercises
B2. Critically evaluate the potentials and limitations of analytical results, obtained from a wide range of matrices encountered in forensic toxicology
B3. Know how to apply and adapt analytical principles and methods to specific criminal investigations, to solve routine and unfamiliar problems
B4. Produce a written specialist report and communicate scientific findings, to a non-specialist audience e.g. in a court of law
B5. Demonstrate an understanding of fundamental scientific analytical techniques and appreciate how they can be applied to toxicological analyses.
B6. Plan and complete a research strategy designed to answer a question, create new knowledge, or provide original insights and communicate the results of research effectively

C Subject-Specific/Practical Skills – students will be expected to:

C1. Understand basic principles of toxicology
C2. Gain detailed knowledge concerning the pharmacology, pharmacodynamics and toxicology of drugs of abuse and other drugs of forensic significance and also common inorganic poisons
C3. Develop an understanding of analytical approaches and instrumentation used in forensic toxicology and develop competence in basic analytical laboratory procedures
C4. Develop knowledge and understanding in the potential relevance of pharmacogenomics / toxicogenomics to forensic toxicology
C5. Develop awareness of the growing field of environmental toxicology
C6. Develop awareness and knowledge of reagents having potential for use as chemical and biological threats

D Transferable Skills – students will be expected to:

D1. Communicate effectively by oral, written and visual means
D2. Effectively employ IT facilities, including word-processing, spreadsheet, database, presentation packages and the Web
D3. Prepare conference papers
D4. Analyse and evaluate a range of published and unpublished data
D5. Undertake independent work of an original nature
D6. Be independent and reflective learners
MSc Maritime Archaeology

PROGRAMME DIAGRAM
MSc Maritime Archaeology

Stage 2/Level 7

Core units (Compulsory)
Research Project (60)

Option units

Exit qualification: MSc Maritime Archaeology
Requires 180 Level 7 credits

Stage 1/Level 7

Core units (Compulsory)
Management of Archaeological Material (20)
Maritime Archaeology (20)
Applied Field Investigation (20)
Ancient Ships (20)

Option units
Choose 1 of the following:
Techniques of Archaeological Recovery and Recording (20)
Marine Environment, Heritage and Spatial Planning (20)

Choose 1 of the following:
Underwater Cultural Heritage: In Situ Degradation and Preservation (20)
Applied Maritime Archaeology (20)

Progression requirements
120 Level 7 credits

Exit qualification: PG Cert Maritime Archaeology
Requires 60 Level 7 credits

Exit qualification: PG Dip Maritime Archaeology
Requires 120 Level 7 credits
MSc Maritime Archaeology

This pathway provides opportunities for students to develop and demonstrate knowledge understanding, and skills, as follows.

A Subject Knowledge and Understanding – students will be expected to:

A1. Content and relevance to coastal and marine archaeology of degree studies
A2. Specific competence with respect to site types found in inland, coastal and marine waters and gain working knowledge of current frameworks for the management of coastal and marine archaeology.
A3. Assess the relationship between maritime archaeology and the marine environment
A4. Experience of surveying, excavating, recording and interpreting waterlogged remains, with specific expertise in the investigation of timber structures and/or watercraft
A5. Familiarity with the principal sources of both terrestrial and marine archaeological data, with their constraints, and with their interpretation

B. Intellectual Skills – students will be expected to:

B1. Analyse and synthesise disparate information relevant to maritime archaeology and its environment and show the ability to communicate and apply this information
B2. Critically evaluate the potential and limitations of maritime archaeological sources and environmental sources and analysis
B3. Integrate and evaluate evidence from a range of sources to support findings and hypotheses
B4. Display an understanding of the planning of maritime archaeological projects and how academic research integrates into these
B5. Produce written specialist reports and communicate maritime archaeological findings to both specialist and non-technical audiences
B6. Plan and execute a research strategy designed to answer a question, create new knowledge or provide original insights, and communicate the results of the research effectively

C. Subject Specific/ Practical Skills – students will be expected to:

C1. Evaluate, bring together and integrate disparate information relevant to maritime archaeology
C2. Comprehensively understand the wide range of maritime archaeological sites
C3. Undertake appropriately informed analyses of maritime sites, their degradation and preservation to a high standard
C4. Gain a critical understanding of the marine environment and its relevance to maritime archaeology and the fundamental principles of site-formation of maritime sites
C5. Develop a critical awareness of field and analytical techniques that can be applied to the understanding of maritime archaeological sites
C6. Understand the roles of, and be able to effectively communicate with, relevant archaeological professionals
C7. Planning archaeological field projects (research and project designs, health and safety analysis, budget considerations)

D TRANSFERABLE SKILLS – students be expected to:

D1. Communicate effectively by oral, written and visual means
D2. Effectively employ IT facilities, including word-processing, spread-sheet, database, presentation packages and the Web, preparation of conference presentations/papers
D3. Plan investigative projects and judge risk appropriately
D4. Analyse and evaluate a range of published and unpublished data
D5. Undertake independent work of an original nature and be independent learners
D6. To produce of project design
D7. To produce of archaeological field report.

Learning and Teaching Methods and Strategies

A range of strategies are employed to provide a varied learning experience effectively targeted towards developing the key areas of core subject knowledge and understanding, cognitive and intellectual development, subject-specific practical skills and more general transferable skills and knowledge.

Core knowledge and understanding (A1-A9) are acquired through lectures, seminars, practical sessions, workshops, and independent learning. Students are expected to undertake independent reading and to relate the concepts introduced in different units. Where possible, related field trips also add to core knowledge (A4, A6). Feedback on assignments allows students to refine and develop their understanding.

Intellectual skills are developed through lectures and class discussion as well as participation to conferences (B1-B6), practical workshops and projects (B1-B6), seminar work (B1-B4), and individual tutorials (B6). Independent and guided study on the personal research project further enhances intellectual growth in all these areas, especially B6.

Subject specific and practical skills are promoted access to high quality field experiences on suitable maritime archaeological sites taught via archaeological field school and laboratory-based sessions (C1-8), and further developed through peer-assisted and independent learning. The execution of a dissertation may also involve elements of experiment and test practical skills. Other subject specific skills are obtained via lectures, seminars and participation to conferences (C1, C4-C10), if possible, related field trips (C8).

Transferable skills (D1-D7) are developed through all the learning and teaching methods. Regular feedback on assignments, presentations, workshop and practicals allows students to develop not only their understanding, but also their ability to communicate their ideas (D1, D7).

Assessment Strategies

Knowledge and understanding, intellectual skills, subject-specific/practical skills and transferable skills are assessed entirely through coursework. A range of assessment strategies are employed to enhance the learning experience and to most effectively evaluate the diverse range of learning outcomes.

Core knowledge and understanding (A1-A6) are assessed through appropriately structured essays, oral exams, specialist reports, oral presentations and ‘conference papers’.

Intellectual skills are assessed through appropriately structured essays and specialist reports (B1-B6), oral presentations (B1-B3) and/or ‘conference papers’ and peer reviewed style articles (B1-B3, B5-
B6). Outcome B6 is also assessed through the execution of a research proposal and dissertation, which allows the student to demonstrate his/her critical thinking skills to the highest level. Subject-specific/practical skills are assessed through appropriately structured essays (C1, C4, C6-C7), specialist reports (C1-C3), oral presentations (C1, C4-C7) 'conference papers’ (C1, C6-C7) and the maritime archaeological field school (C7). The dissertation will assess C1 and, depending on the chosen topic, a range of other subject-specific and/or practical skills (C2-C7). C8 will not be formally assessed.

Effective communication of ideas is an important criterion in the assessment of all student work. D1-D7 is assessed through essays, written reports and papers, oral presentations and a dissertation. Certain assignments are designed to develop particular transferable skills. For example, oral presentation and write-up of ‘conference papers’ (D1-D3), and the research project (D6-D9).
A Subject Knowledge and Understanding – students will be expected to:

A1. Content and relevance to coastal and marine archaeology of degree studies
A2. Specific competence with respect to site types found in inland, coastal and marine waters and gain working knowledge of current frameworks for the management of coastal and marine archaeology
A3. Assess the relationship between maritime archaeology and the marine environment
A4. Experience of surveying, excavating, recording and interpreting waterlogged remains, with specific expertise in the investigation of timber structures and/or watercraft
A5. Familiarity with the principal sources of both terrestrial and marine archaeological data, with their constraints, and with their interpretation

B. Intellectual Skills – students will be expected to:

B1. Analyse and synthesise disparate information relevant to maritime archaeology and its environment and show the ability to communicate and apply this information
B2. Critically evaluate the potential and limitations of maritime archaeological sources and environmental sources and analysis
B3. Integrate and evaluate evidence from a range of sources to support findings and hypotheses
B4. Display an understanding of the planning of maritime archaeological projects and how academic research integrates into these
B5. Produce written specialist reports and communicate maritime archaeological findings to both specialist and non-technical audiences
B6. Plan and execute a research strategy designed to answer a question, create new knowledge or provide original insights, and communicate the results of the research effectively

C. Subject Specific/Practical Skills – students will be expected to:

C1. Evaluate, bring together and integrate disparate information relevant to maritime archaeology
C2. Comprehensively understand the wide range of maritime archaeological sites
C3. Undertake appropriately informed analyses of maritime sites, their degradation and preservation to a high standard
C4. Gain a critical understanding of the marine environment and its relevance to maritime archaeology and the fundamental principles of site formation of maritime sites
C5. Develop a critical awareness of field and analytical techniques that can be applied to the understanding of maritime archaeological sites
C6. Understand the role of, and be able to effectively communicate with, relevant archaeological professionals
C7. Planning archaeological/field projects (research and project designs, health and safety analysis, budget considerations)

D TRANSFERABLE SKILLS – students be expected to:

D1. Communicate effectively by oral, written and visual means
D2. Effectively employ IT facilities, including word-processing, spreadsheets, databases, presentation packages and the Web, preparation of conference presentations/papers
D3. Plan investigative projects and judge risk appropriately
D4. Analyse and evaluate a range of published and unpublished data
D5. Undertake independent work of an original nature and be independent learners
D6. To produce of project design
D7. To produce of archaeological field report
Programme Diagram
MSc Osteoarchaeology

Stage 2/Level 7

Core units (Compulsory)
Research Project (60)

Exit qualification: MSc Osteoarchaeology
Requires 180 Level 7 credits

Stage 1/Level 7

Core units (Compulsory)
Principles and Methods in Human Osteology (20)
Principles and Methods in Zooarchaeology (20)
Advance Zooarchaeology (20)
Humans Animals and Diet (20)

Option units
Choose 1 of the following:
Human Functional Anatomy (20)
Techniques of Archaeological Recovery and Recording (20)

Choose 1 of the following:
Archaeology of Human Remains (20)
Bodies of Evidence: Skeletal Changes Before and After Death (20)

Progression requirements
120 Level 7 credits

Exit qualification: PG Cert Osteoarchaeology
Requires 60 Level 7 credits

Exit qualification: PG Dip Osteoarchaeology
Requires 120 Level 7 credits
MSc Osteoarchaeology

ACADEMIC AND PROFESSIONAL CONTEXTS

Introduction
MSc Osteoarchaeology was originally established in 1998. It formed one of a suite of Master’s courses within the School (now Department), which were designed to provide students with detailed specialist knowledge within the areas of environmental and geographical sciences, archaeology and heritage conservation. This course has gained an excellent reputation nationally and internationally. Historically it has shared close links with MSc Forensic and Biological Anthropology. The revised version of this Masters sees the coalescence of MSc Zooarchaeology and MSc Human Osteoarchaeology, to provide a single integrated programme.

The Department of Archaeology, Anthropology and Forensic Sciences, includes academics of international renown, who have active research interests in archaeology, osteoarchaeology, zooarchaeology, biological anthropology and forensic sciences. These staffing resources are supported by excellent dedicated teaching collections within the Department of Archaeology, Anthropology and Forensic Sciences, along with a wide range of other scientific equipment and IT hardware. The Department therefore continues to be well placed to offer the MSc in Osteoarchaeology. The pathway will cater for archaeology or life science graduates wishing to specialise in this field. It will provide them with:

- a core of theory, knowledge, tools and methods that define the integrated osteoarchaeological field
- training for future research and a career within the field of osteoarchaeology
- a sound understanding of how studies of human and animal remains can be integrated into general archaeological research and practice.

Animal bones and human remains are amongst the most common finds on archaeological excavations of all periods. They can provide abundant information about past human populations, their behaviour and beliefs, diet, economy and the natural world. The archaeological profession has an established and increasing need for staff with osteoarchaeological training, to assist in interpretation of archaeological sites and understanding the human experience in the past, particularly their relationship with animals. The pathway aims to enhance career opportunities for graduates from a variety of fields and for practising archaeologists seeking to expand their expertise. The sub-disciplines of human and animal osteoarchaeology have much in common at a core level. By covering both human and animal remains, this course affords students a breadth of knowledge, while leaving them well placed to specialise further through their choice of unit options and research project. The pathway provides an excellent foundation for those wishing to pursue careers as specialist osteoarchaeological practitioners, researchers and academics within the archaeological profession.

AIMS OF THE PROGRAMME

The overall aim of this pathway is to provide students with a sound and detailed knowledge and critical understanding of osteoarchaeological principles and methods, for all theoretical and practical activities related to human and animal skeletal remains, from archaeological contexts. Such knowledge and understanding are set within the wider context and perspective of archaeological studies, as well as exploring evolutionary and palaeoenvironmental themes. These aims cannot be gained solely by theoretical academic studies and practical experience of the methods and techniques used for recording and analysing osteological remains is imperative.

This vocationally-orientated pathway aims to provide its graduates with advanced and applied knowledge and understanding of:

- Human skeletal anatomy and bone science
- Identification of major species of animals found on European archaeological sites
- Methods of analysis and recording of human and animal skeletal assemblages
• Methods of age and sex assessment
• The application of biometrical analyses in the study of human and animal bones
• Taphonomic processes and their effects on human and animal skeletal remains
• Disease processes in past human populations
• Major themes in the history of animal exploitation for food
• The role of animal remains in palaeoenvironmental studies
• The use of appropriate databases and statistical methods for effective analysis of human and animal bone assemblages
• An understanding of scientific analytical techniques and how they may be applied to osteoarchaeological material.

PATHWAY INTENDED LEARNING OUTCOMES

This pathway provides opportunities for students to develop and demonstrate knowledge and understanding, and skills, as follows.

A. Subject Knowledge and Understanding – students will be expected to:

A1. Have a critical understanding of and the ability to, evaluate relevant theories, concepts and principles relevant to human osteoarchaeology

A2. Have a critical understanding of and the ability to, evaluate relevant theories, concepts and principles relevant to zooarchaeology

A3. Have comprehensive knowledge of the gross skeletal anatomy of adult and juvenile humans

A4. Obtain a wide-range of practical skills, including the ability to judge appropriate use of recording, analytical and statistical methods commonly used by osteoarchaeological specialists

A5. Demonstrate an understanding of scientific analytical techniques and appreciate how they can be applied to osteoarchaeological analyses

A6. Understand the multidisciplinary nature of the pathway and the need to apply knowledge from a range of subject areas.

B. Intellectual Skills – students will be expected to:

B1. Analyse and synthesise disparate information relevant to osteoarchaeology and show the ability to communicate and apply this information

B2. Produce written specialist reports and communicate osteoarchaeological findings to both specialist and non-technical audiences

B3. Critically evaluate the potential and limitations of osteoarchaeological analysis

B4. Integrate evidence from a range of sources to support findings and hypotheses

B5. Display an understanding of the planning of archaeological projects, or projects in related disciplines and how osteoarchaeological research integrates into these
B6. Plan and execute a research strategy designed to answer a question, create new knowledge or provide original insights and communicate the results of the research effectively

C. Subject-Specific/Practical Skills – students will be expected to:

C1. Evaluate, bring together and integrate disparate information relevant to osteoarchaeology

C2. Undertake appropriately informed identification and analyses of complete and fragmentary human and faunal skeletal remains, to a high standard

C3. Demonstrate knowledge and critical understanding of any of the following: the presentation and causes of a range of skeletal pathologies; past environmental change; hominid evolution

C4. Show a good understanding of the fundamental principles of site-formation and taphonomic processes, including the recovery of osseous materials

C5. Demonstrate a detailed knowledge of the history of exploitation of animals and their contribution to human diet

C6. Develop a critical awareness of analytical techniques that can be applied to the understanding of past human diets, past environmental change and/or hominid evolution

C7. Understand the roles of and be able to, effectively communicate with relevant archaeological professionals

D Transferable Skills – students be expected to:

D1. Communicate effectively by oral, written and visual means

D2. Effectively employ IT facilities, including word-processing, spreadsheet, Database, presentation packages and the Web

D3. Prepare conference papers

D4. Design and make effective use of relational databases

D5. Apply appropriate statistical techniques

D6. Analyse and evaluate a range of published and unpublished data

D7. Undertake independent work of an original nature

D8. Be independent and reflective learners

D9. Demonstrate problem solving skills and the application of knowledge across discipline areas

LEARNING AND TEACHING METHODS AND STRATEGIES

A range of strategies are employed to provide a varied learning experience, effectively targeted towards developing the key areas of core subject knowledge and understanding, cognitive and intellectual development, subject-specific practical skills and more general transferable skills and knowledge.
Core knowledge and understanding (A1-6) is acquired through lectures, seminars, practicals, workshops and independent learning. Students are expected to undertake independent reading and to relate the concepts introduced in different units (A1-2, A5-6). Practical identification skills and anatomical knowledge (A3-4) are enhanced by independent study of skeletal material. Where possible, related field trips also add to core knowledge (A6). Feedback on assignments allows students to refine and develop their understanding.

Intellectual and cognitive skills are developed through lectures and class discussion (B1-6), practical workshops and projects (B1-5), seminar work (B1, B3-5) and individual tutorials (B6). Independent and guided study on the personal research project further enhances intellectual growth in all these areas, especially B6.

Subject specific and practical skills are promoted through zooarchaeological workshops and anthropological laboratory practical sessions (C2-5) and further developed through peer-assisted and independent learning. The execution of a journal paper may also involve elements of experiment and test practical skills. Other subject specific skills are obtained via lectures and seminars (C1, C4-7) and if possible, related field trips (C7).

Transferable skills (D1-9) are developed through all the learning and teaching methods. Regular feedback on assignments, presentations, workshop and practicals allows students to develop not only their understanding, but also their ability to communicate their ideas (D1, D8).

**ASSESSMENT STRATEGIES**

Knowledge and understanding, intellectual skills, subject-specific/practical skills and transferable skills, are summatively assessed entirely through coursework. A range of assessment strategies is employed to enhance the learning experience and to most effectively evaluate the diverse range of learning outcomes.

The core knowledge and understanding (A1-6) is assessed through appropriately structured essays, short-answer practical identification and recording tests, specialist reports, oral presentations and ‘conference papers’.

Intellectual skills are assessed through appropriately structured essays (B1, B3-4), practical identification tests (B3-4), specialist reports (B1-5), oral presentations (B1-4) and ‘conference papers’ (B1-4). Outcome B6 is assessed through the execution of a research proposal and a journal paper, which allows the student to demonstrate his/her, critical thinking skills to the highest level.

Subject-specific/practical skills are assessed through appropriately structured essays (C1, C4, C6-7), short answer and practical identification ‘spotter’ tests (C2-5), specialist reports (C1-6 and 8), oral presentations (C1-2, C4, C6-7) and ‘conference papers’ (C1, C6-7). The journal paper will assess C1 and depending on the chosen topic, a range of other subject-specific and/or practical skills (C2-7).

Effective communication of ideas is an important criterion in the assessment of all student work. D1-9 are assessed variously through essays, written reports and papers, database design, oral presentations and a journal paper. Certain assignments are designed to develop particular transferable skills. For example, oral presentations and write-up of ‘conference papers’ (D1-3), data extraction from a zooarchaeological database and preparation of a zooarchaeological recording scheme (D2, D4) and the personal research project (D6-7).
ASSESSMENT REGULATIONS

The regulations for this framework are the University’s Standard Postgraduate Regulations.

Learning outcomes for PGCert and PGDip

By completing any 60 credits from the taught units on this pathway you will meet the following learning outcomes:
A1, A6, B1, B2, C3, C6, D1, D2, D8

By completing units appropriate for the taught component of this course (excluding the research project) and achieving 120 credits you will meet the following learning outcomes:
A1-A4, A6, B1, B2, B5, C2, C3, C5, C6, D1, D2, D8
<table>
<thead>
<tr>
<th>Human Functional Anatomy</th>
<th>Principles and Methods in Human Osteology</th>
<th>Principles and Methods in Zooarchaeology</th>
<th>Techniques of Archaeological Recovery and Recording</th>
<th>Postgraduate Certificate in Human Osteology</th>
<th>Bachelor's Degree in Human Osteology</th>
<th>Bachelor's Degree in Zooarchaeology</th>
<th>Master's Degree in Human Osteology</th>
<th>Master's Degree in Zooarchaeology</th>
<th>PhD in Human Osteology</th>
<th>PhD in Zooarchaeology</th>
<th>MSc in Human Osteology</th>
<th>MSc in Zooarchaeology</th>
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<td><strong>Programme Intended Learning Outcomes</strong></td>
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<td>A1</td>
<td>have a critical understanding of and the ability to evaluate relevant theories, concepts and principles relevant to human osteoarchaeology</td>
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<td>have a critical understanding of and the ability to evaluate relevant theories, concepts and principles relevant to zooarchaeology</td>
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<td>A3</td>
<td>have comprehensive knowledge of the gross skeletal anatomy of adult and juvenile humans</td>
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<td>A4</td>
<td>obtain a wide range of practical skills, including the ability to judge appropriate use of recording, analytical and statistical methods commonly used by osteoarchaeological specialists</td>
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<td>A5</td>
<td>demonstrate an understanding of scientific analytical techniques and appreciate how they can be applied to osteoarchaeological analyses</td>
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<td>A6</td>
<td>understand the multidisciplinary nature of the pathway and how to apply knowledge from a range of subject areas</td>
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<td>B1</td>
<td>analyse and synthesise disparate information relevant to osteoarchaeology and show the ability to communicate and apply this information</td>
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<td>B2</td>
<td>produce written specialist reports and communicate osteoarchaeological findings to both specialist and non-specialist audiences</td>
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<td>critically evaluate the potential and limitations of osteoarchaeological analysis</td>
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<td>B5</td>
<td>display an understanding of the planning of archaeological projects, or projects in related disciplines and how osteoarchaeological research integrates into these projects</td>
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<td>C1</td>
<td>evaluate, bring together and integrate disparate information relevant to osteoarchaeology</td>
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<td>C2</td>
<td>undertake appropriately informed identification and analyses of complete and fragmentary human and faunal skeletal remains, to a high standard</td>
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<td>C3</td>
<td>demonstrate knowledge and critical understanding of any of the following: palaeopathological and taphonomic processes, osteoarchaeological interpretation and recovery, palaeoenvironmental change, fossil hominid evolution</td>
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<td>C4</td>
<td>develop a critical awareness of analytical techniques that can be applied in the understanding of past human diets, past environmental change and/or hominid evolution</td>
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<td><strong>Transferable Skills</strong></td>
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<tr>
<td></td>
<td>- students will be expected to:</td>
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<tr>
<td></td>
<td>D1</td>
<td>communicate effectively by oral, written and visual means</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>D2</td>
<td>effectively apply IT facilities, including word processing, spreadsheets, Database, presentation packages and the Web</td>
<td></td>
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<td></td>
<td>D3</td>
<td>prepare conference papers</td>
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<tr>
<td></td>
<td>D4</td>
<td>design and make effective use of relational databases</td>
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<tr>
<td></td>
<td>D5</td>
<td>apply appropriate statistical techniques</td>
<td></td>
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<tr>
<td></td>
<td>D6</td>
<td>analyse and evaluate a range of published and unpublished data</td>
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<tr>
<td></td>
<td>D7</td>
<td>undertake independent work of an original nature</td>
<td></td>
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<tr>
<td></td>
<td>D8</td>
<td>be independent and reflective learners</td>
<td></td>
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</tr>
</tbody>
</table>
| | D9 | demonstrate problem solving skills and the application of knowledge across discipline areas.
WORK-BASED LEARNING (WBL) / PLACEMENTS ELEMENTS (Undergraduate)

Work-based learning requirements are met through professional practice placements please see Placement Handbook – note this is the existing placement handbook for the Applied Sciences framework

Bournemouth University programmes offer an optional minimum 30 week placement which forms the third year of a four-year sandwich degree, and this option is provided in the proposed programme and the entire framework. In addition to this, many undergraduate degree programmes require students to undertake a short placement of a minimum of 25 working days which will normally run during the summer between years 1 and 2 and is ratified as part of Level 5 of the programme. Students on Archaeology or Archaeology and Forensic Science Programmes who do not enrol on a 4-year degree will complete a short placement between the second and final years of their study. There is opportunity for voluntary Placement for programmes that do not require a short placement, there is no credit awarded for this activity but recognition is made in the student profile for use in references etc.

<table>
<thead>
<tr>
<th>Programme</th>
<th>A) Short Placement</th>
<th>B) Minimum 30 Week Placement</th>
<th>If (B) chosen what is required A&amp;B</th>
<th>If B not Chosen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology</td>
<td>N/A</td>
<td>✓</td>
<td>Just B</td>
<td></td>
</tr>
<tr>
<td>Archaeology</td>
<td>✓</td>
<td></td>
<td>A or B</td>
<td></td>
</tr>
<tr>
<td>Archaeology and Anthropology</td>
<td>✓</td>
<td></td>
<td>Just B voluntary placement possible</td>
<td></td>
</tr>
<tr>
<td>Archaeological, Anthropological and Forensic Sciences</td>
<td>✓</td>
<td></td>
<td>A or B</td>
<td>Just A</td>
</tr>
<tr>
<td>Forensic Science</td>
<td>N/A</td>
<td>✓</td>
<td>Just B voluntary placement possible</td>
<td></td>
</tr>
<tr>
<td>Forensic Investigation</td>
<td>N/A</td>
<td>✓</td>
<td>Just B voluntary placement possible</td>
<td></td>
</tr>
<tr>
<td>Forensic Biology</td>
<td>N/A</td>
<td>✓</td>
<td>Just B voluntary placement possible</td>
<td></td>
</tr>
</tbody>
</table>

Placements involve the completion of activities/projects and are assessed via a portfolio of evidence, including logs/diaries and reflective essays, collated over the placement period and assessed as either pass or fail depending on whether the portfolio is complete. This evidence will include a satisfactory host report. Placements are not credit-weighted and are normally unpaid, although some employers may offer expenses. In the past, a number of students have secured placements through the STEP project, which guarantees payment for an eight-week placement.

Placements can be undertaken in any part of the UK or abroad (any additional cost borne by the student) and are approved by the Department on the basis of the registration details provided by the student. Students are expected to be proactive at every stage of researching and obtaining appropriate placement offers. Their efforts are supported throughout by the Placement and Programmes Co-ordinator, who provides guidance and brings opportunities to the attention of students. Throughout Level 4 and Level 5 students are counselled on work experience opportunities and personal development activities are provided to enable students to produce a CV, complete application forms, compile and maintain a portfolio and develop interview and presentation skills.

The framework team already have a wide range of external links to potential placement organisations and a searchable database of placement hosts is available to students via myBU. A wide range of hosts is available to reflect the diverse interests of the students studying on different programmes.

The placement aims to provide students with:

- A wider experience within practice plus a detailed knowledge of an area of discipline within which the student may wish to work once graduated
- An understanding of the inter-relationship of practitioner and management skills in the context of the host organisation
- An opportunity to apply the knowledge and skills, gained from studies, in the work environment
- An experience of work roles, practices and procedures, working relationships and interpersonal communications, employment, working hours and practical constraints, within the working environment
- An opportunity to develop personal and career plans in the light of the experiences derived from the placement.

The placement thus provides students with the experience of how an organisation operates, as well as an opportunity to enhance their personal development and future employability. The placements play an important role within the degree structure, complementing the academic programme and allow students to begin to put theory and competencies into practice as well as develop new skills. The placements especially articulate with the skills unit at Level 4, along with Field and Laboratory
work and field trips and similar units at Level 4 and 5, and may also articulate with the Research Project at Level 6.

There is no requirement for placements in level 7.
ADMISSION REGULATIONS

The regulations for this framework/programme are the University’s Standard Undergraduate and Postgraduate Regulations with the following exceptions: Applicants whose mother tongue is not English must offer evidence of qualifications in written and spoken English. Acceptable qualifications are:
IELTS (academic) 6.5 (with a minimum of 5.5 in each of four categories) or direct equivalent.

The University’s Standard Admission Regulations are available on the Staff Intranet and can be found at https://intranetsp.bournemouth.ac.uk/Documents/arpptop.aspx

ASSESSMENT REGULATIONS

The regulations for this Framework are the University’s Standard Undergraduate and Postgraduate Regulations.

The University’s Standard Assessment Regulations are available on the Staff Intranet and a link should is included. https://intranetsp.bournemouth.ac.uk/Documents/arpptop.aspx
# PROGRAMME PROFILES

## BSC (HONS) ANTHROPOLOGY - PROGRAMME STRUCTURE

### Year 1/Level 4

Students are required to complete all 6 credit bearing core units

<table>
<thead>
<tr>
<th>Unit Name</th>
<th>Core/Option</th>
<th>No of credits</th>
<th>Assessment Element Weightings</th>
<th>Expected contact hours per unit</th>
<th>Unit version no.</th>
<th>HECoS Subject Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Exam 1</td>
<td>Cwk 1</td>
<td>Cwk 2</td>
<td></td>
</tr>
<tr>
<td>AAFS Study Skills</td>
<td>Core</td>
<td>20</td>
<td>60</td>
<td>40</td>
<td>40</td>
<td>v1.12</td>
</tr>
<tr>
<td>Ancient Peoples and Places</td>
<td>Core</td>
<td>20</td>
<td>50</td>
<td>50</td>
<td>40</td>
<td>v1.12</td>
</tr>
<tr>
<td>Introduction to Social Theory</td>
<td>Core/FHSS</td>
<td>100</td>
<td>30</td>
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<td>v3.0</td>
</tr>
<tr>
<td>Human Anatomy and Physiology</td>
<td>Core/FHSS</td>
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<td>50</td>
<td>50</td>
<td>40</td>
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</tr>
<tr>
<td>Introduction to Social Anthropology</td>
<td>Core/FHSS</td>
<td>20</td>
<td>50</td>
<td>50</td>
<td>30</td>
<td>v3.0</td>
</tr>
<tr>
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<td>Core</td>
<td>20</td>
<td>50</td>
<td>50</td>
<td>40</td>
<td>v1.12</td>
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</table>

**Progression requirements:** Requires 120 credits at Level 4.

**Exit qualification:** Cert HE Anthropology (requires 120 credits at Level 4).

### Year 2/Level 5

Students are required to complete 4 credit bearing core units and 2 credit bearing option units

<table>
<thead>
<tr>
<th>Unit Name</th>
<th>Core/Option</th>
<th>No of credits</th>
<th>Assessment Element Weightings</th>
<th>Expected contact hours per unit</th>
<th>Unit version no.</th>
<th>HECoS Subject Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Exam 1</td>
<td>Cwk 1</td>
<td>Cwk 2</td>
<td></td>
</tr>
<tr>
<td>Archaeological Science</td>
<td>Core</td>
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<td>50</td>
<td>50</td>
<td>40</td>
<td>v1.12</td>
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<tr>
<td>Becoming Human</td>
<td>Core</td>
<td>20</td>
<td>50</td>
<td>50</td>
<td>40</td>
<td>v1.12</td>
</tr>
<tr>
<td>Themes in Archaeology and Anthropology</td>
<td>Core</td>
<td>20</td>
<td>50</td>
<td>50</td>
<td>40</td>
<td>v1.12</td>
</tr>
<tr>
<td>Understanding Cultures</td>
<td>Option FHSS</td>
<td>20</td>
<td>100</td>
<td></td>
<td></td>
<td>v2.0</td>
</tr>
<tr>
<td>Rome and Barbarian Europe</td>
<td>Option</td>
<td>20</td>
<td>50</td>
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<td>v1.12</td>
</tr>
<tr>
<td>Societies of Prehistoric Europe</td>
<td>Option</td>
<td>20</td>
<td>50</td>
<td>50</td>
<td>40</td>
<td>v1.12</td>
</tr>
<tr>
<td>Growing Up and Growing Old</td>
<td>Option FHSS</td>
<td>20</td>
<td>50</td>
<td>50</td>
<td>30</td>
<td>v2.1</td>
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<tr>
<td>Environmental and Societal Challenges</td>
<td>Option LES</td>
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</table>

**Progression requirements:** Requires 120 credits at Level 5.

**Exit qualification:** Dip HE Anthropology (requires 120 credits at Level 5).
### Programme Award and Title: BSc (Hons) Anthropology

#### Year 3/Level 6

Students are required to complete 2 credit bearing core units (one double-weighted) and 3 credit bearing option units.

<table>
<thead>
<tr>
<th>Unit Name</th>
<th>Core/Option</th>
<th>No of credits</th>
<th>Assessment Element Weightings</th>
<th>Expected contact hours per unit</th>
<th>Unit version no.</th>
<th>HECoS Subject Code</th>
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<tr>
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<td>The Science of Human Remains</td>
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<td>Cultural Ecology</td>
<td>Core</td>
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<td>Anthropology of International Intervention</td>
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<tr>
<td>Seekers, Believers and Iconoclasts</td>
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**Progression requirements:** Requires 120 credits at Level 6.

**Exit qualification:** BSc (Hons) Anthropology (requires 120 credits at Level 6).
### Programme Award and Title: BA (Hons) Archaeology & Anthropology

#### Year 1/Level 4
Students are required to complete all 6 credit bearing core units

<table>
<thead>
<tr>
<th>Unit Name</th>
<th>Core/ Option</th>
<th>No of credits</th>
<th>Assessment Element Weightings</th>
<th>Expected contact hours per unit</th>
<th>Unit version no.</th>
<th>HECoS Subject Code</th>
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<td>Gathering Time</td>
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**Progression requirements:** Requires 120 credits at Level 4.

**Exit qualification:** Cert HE Archaeology & Anthropology (requires 120 credits at Level 4).

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### Programme Award and Title: BSc (Hons) Archaeology & Anthropology

#### Year 2/Level 5
Students are required to complete 4 credit bearing core units and 2 credit bearing option units

<table>
<thead>
<tr>
<th>Unit Name</th>
<th>Core/ Option</th>
<th>No of credits</th>
<th>Assessment Element Weightings</th>
<th>Expected contact hours per unit</th>
<th>Unit version no.</th>
<th>HECoS Subject Code</th>
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<td>Themes in Archaeology &amp; Anthropology</td>
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<tr>
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<tr>
<td>Growing Up and Growing Old</td>
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</table>

**Progression requirements:** Requires 120 credits at Level 5.

**Exit qualification:** Dip HE Archaeology & Anthropology (requires 120 credits at Level 5).
### Programme Award and Title: BSc (Hons) Archaeology & Anthropology

#### Year 3/Level 6
Students are required to complete 2 credit bearing core units (one double-weighted) and 3 credit bearing option units.

<table>
<thead>
<tr>
<th>Unit Name</th>
<th>Core/ Option</th>
<th>No of credits</th>
<th>Assessment Element Weightings</th>
<th>Expected contact hours per unit</th>
<th>Unit version no.</th>
<th>HECoS Subject Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Independent Research Project (AAFS)</td>
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<td>Exam 1 100 Cwk 1 Cwk 2</td>
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<td>100962</td>
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<tr>
<td>Cultural Ecology</td>
<td>Core LES</td>
<td>20</td>
<td>50 50 36</td>
<td>v1.1</td>
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</tr>
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<tr>
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<td>100299 / 101437</td>
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<tr>
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<td>Anthropology of International Intervention</td>
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<tr>
<td>Seekers, Believers and Iconoclasts</td>
<td>Option FHSS</td>
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</tbody>
</table>

**Progression requirements:** Requires 120 credits at Level 6.

**Exit qualification:** BA (Hons) Archaeology & Anthropology (requires 120 credits at Level 6).
### Programme Award and Title: BSc (Hons) Archaeology

#### Year 1/Level 4

Students are required to complete all 6 credit bearing core units

<table>
<thead>
<tr>
<th>Unit Name</th>
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<th>Unit version no.</th>
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**Progression requirements:** Requires 120 credits at Level 4.

**Exit qualification:** Cert HE Archaeology (requires 120 credits at Level 4).

#### Year 2/Level 5

Students are required to complete 4 credit bearing core units and 2 credit bearing option units

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**Progression requirements:** Requires 120 credits at Level 5.

**Exit qualification:** Dip HE Archaeology (requires 120 credits at Level 5).
**Programme Award and Title:** BSc (Hons) Archaeology

**Year 3/Level 6**
Students are required to complete 2 credit bearing core units (one double-weighted) and 3 credit bearing option units

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**Progression requirements:** Requires 120 credits at Level 6.
**Exit qualification:** BSc (Hons) Archaeology (requires 120 credits at Level 6).
# BSC (HONS) ARCHAEOLOGICAL AND FORENSIC SCIENCES
## PROGRAMME STRUCTURE

### Programme Award and Title:
BSc (Hons) Archaeological, Anthropological and Forensic Sciences

### Year 1, Level 4
Students are required to complete all 6 credit bearing core units

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<tr>
<th>Unit Name</th>
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**Progression requirements:** Requires 120 credits at Level 4.

**Exit qualification:** Cert HE Archaeological, Anthropological and Forensic Sciences

### Year 2, Level 5
Students are required to complete all 6 credit bearing core units

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<th>Expected contact hours per unit</th>
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**Progression requirements:** Requires 120 credits at Level 5.

**Exit qualification:** Dip HE Archaeological, Anthropological and Forensic Sciences
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**Progression requirements:** Requires 120 credits at Level 6.

**Exit qualification:** BSc (Hons) Archaeological, Anthropological and Forensic Sciences
# BSC FORENSIC BIOLOGY – PROGRAMME STRUCTURE

## Programme Award and Title:
BSc Forensic Biology

### Year 1/Level 4
Students are required to complete all 6 credit bearing core units

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**Progression requirements:** Requires 120 credits at Level 4.

**Exit qualification:** Cert HE Forensic Biology (requires 120 credits at Level 4).

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## Programme Award and Title:
BSc Forensic Biology

### Year 1/Level 5
Students are required to complete all 6 credit bearing core units

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**Progression requirements:** Requires 120 credits at Level 5.

**Exit qualification:** Dip HE Forensic Biology (requires 120 credits at Level 5).
**Programme Award and Title:** BSc Forensic Biology

**Year 1/Level 6**

Students are required to complete all 6 credit bearing core units

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**Progression requirements:** Requires 120 credits at Level 6.

**Exit qualification:** BSc (hons) Forensic Biology (requires 120 credits at Level 6).
# Programme Structure

**Programme Award and Title:** BSc Forensic Investigation

## Year 1/Level 4

Students are required to complete all 6 credit bearing core units.

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**Progression requirements:** Requires 120 credits at Level 4.  
**Exit qualification:** Cert HE Forensic Investigation (requires 120 credits at Level 4).

## Year 1/Level 5

Students are required to complete all 6 credit bearing core units.

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**Progression requirements:** Requires 120 credits at Level 5.  
**Exit qualification:** Dip HE Forensic Investigation (requires 120 credits at Level 5).
**Programme Award and Title:** BSc Forensic Investigation

**Year 1/Level 6**
Students are required to complete all 6 credit bearing core units

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**Progression requirements:** Requires 120 credits at Level 6.
**Exit qualification:** BSc (hons) Forensic Investigation (requires 120 credits at Level 6).
### Programme Award and Title: BSc Forensic Science

#### Year 1/Level 4
Students are required to complete all 6 credit bearing core units

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**Progression requirements:** Requires 120 credits at Level 4.

**Exit qualification:** Cert HE Forensic Science (requires 120 credits at Level 4).

### Programme Award and Title: BSc Forensic Science

#### Year 2/Level 5
Students are required to complete 5 credit bearing core units and 1 credit bearing option unit.

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**Progression requirements:** Requires 120 credits at Level 5.

**Exit qualification:** Dip HE Forensic Science (requires 120 credits at Level 5).
**Programme Award and Title:** BSc Forensic Science

**Year 3/Level 6**
Students are required to complete all 3 credit bearing core units (one being double weighted – 40 credits) and 2 credit bearing option units.

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**Exit qualification:** BSc (Hons) Forensic Science (requires 120 credits at Level 6).
# Post Graduate Programme Profile

**Originating Institution(s):**
Faculty of Science & Technology, Department of Archaeology, Anthropology & Forensic Science

**Place(s) of Delivery:** BU

**Framework Title (in full):** Archaeology, Anthropology & Forensic Science Framework

**Programme Award and Title:** MSc Archaeology

**Interim Award and Titles & required credits:** PGCert Archaeology (60 level 7 credits), PGDip Archaeology (120 level 7 credits)

**Mode(s) of study:** FT, PT

**Expected Length of study:** FT=1 year PT=2 years

**BU Credit Structure & ECTS:** Level 7 180 credits (90 ECTS credits)

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**Effective from:** Yr. 1 09 2015

**Date approved:** June 2015

**Programme Specification version number:** 1.1: v1

**Programme Specification version:** 11: v1

**Name of Professional, Statutory or Regulatory Body (if appropriate):** N/A

**Contact in faculty:** John Gale

**Diploma Supplement Statement regarding PRSB accreditation:**

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### Programme Details

**Framework Title (in full):** Archaeology, Anthropology & Forensic Science Framework

**Programme Award and Title:** MSc Bioarchaeology

**Interim Award and Titles & required credits:**
- PGCert Bioarchaeology (60 level 7 credits)
- PGDip Bioarchaeology (120 level 7 credits)

**Mode(s) of study:**
- FT, PT

**Expected Length of study:**
- FT=1 year PT= 2 year

**BU Credit Structure & ECTS:**
- Level 7 180 credits 990 ECTS credits

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- Yr. 2 09 16
- Yr. 3 09 17
- Yr. 4 09 18

**Date approved:**
- June 2015

**Programme Specification version no.:** v1
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Effective from * Yr. 1 09 15

Yr. 2 09 16 Name of Professional, Statutory or Regulatory Body (if appropriate) *: N/A

Yr. 3 09 17

Yr. 4 09 18

Programme Specification version no. *: v1

Programme Specification version no. *: v1

Diploma Supplement Statement regarding PRSB accreditation *:

1. Mode(s) of study:
   - FT, PT
   - Expected Length of study:
     - FT=1 year PT= 2year
   - BU Credit Structure & ECTS:
     - Level 7 180 credits 990 ECTS credits

2. Framework Title (in full):
   - Archaeology, Anthropology & Forensic Science Framework

3. Programme Award and Title:
   - MSc Biological Anthropology

4. Interim Award and Titles & required credits:
   - PGCert Biological Anthropology (60 level 7 credits), PGDip Biological Anthropology (120 level 7 credits)

5. Unit identification

6. Assessment Regs

7. Cost Centre(s)
**Framework Title (in full):**
Applied Sciences Postgraduate Framework

**Programme Award and Title:**
MSc Forensic Toxicology by Research

Interim Award and Titles & required credits:
PGCert Forensic Toxicology by Research (60 level 7 credits)

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Effective from ^6:
Progr Year / Month / Year: 2015

Yr. 1 09 15

Yr. 2 09 16

Yr. 3 09 17

Yr. 4 09 18

Contact in faculty: David Osselton

Date approved ^8:
June 2015

Programme Specification version no. ^11: v1

Diploma Supplement Statement regarding PRSB accreditation ^10:
Accreditation has been awarded by the Chartered Society of Forensic Science
**Applied Sciences Postgraduate Framework**

**Programme Award and Title:**
**MSc Maritime Archaeology**

**Interim Award and Titles & required credits:**
PGCert Maritime Archaeology (60 level 7 credits),
PGDip Maritime Archaeology (120 level 7 credits)

**Mode(s) of study:**
FT, PT

**Expected Length of study:**
FT=1 year PT=2 year

**BU Credit Structure & ECTS:**
Level 7 180 credits (90 ECTS credits)

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**Effective from:**
Yr. 1 09 15
Yr. 2 09 16
Yr. 3 09 17
Yr. 4 09 18

**Date approved:**
June 2015

**Programme Specification version no.:** v1

**Diploma Supplement Statement regarding PRSB accreditation:**
N/A
Framework Title (in full):  
Applied Sciences Postgraduate Framework

Place(s) of Delivery: BU

Mode(s) of study: FT, PT

Expected Length of study: FT=1 year PT= 2 year

Programme HESA JACS code:F400, L620

Interim Award and Titles & required credits:  
PGCert Forensic Anthropology (60 level 7 credits),  
PGDip Forensic Anthropology (120 level 7 credits)

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Effective from: Yr. 1: 09 15

Name of Professional, Statutory or Regulatory Body (if appropriate): Accreditation has been awarded by the Chartered Society of Forensic Science

Programme Specification version no.: V1

Contact in Faculty: Martin Smith

Date approved: June 2015

Diploma Supplement Statement regarding PRSB accreditation:  
Accreditation has been awarded by the Chartered Society of Forensic Science
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Effective from ³
Prog Year / Month / Year: 09 09 09 09

Contact in Faculty: Ellen Hambleton

Date approved ⁴: June 2015

Programme Specification version no. ⁵: v1

Diploma Supplement Statement regarding PRSB accreditation ⁶: N/A
**Framework Title (in full):**
**Applied Sciences Postgraduate Framework**

**Programme Award and Title:**
**MSc Forensic Archaeology**

**Interim Award and Titles & required credits:**
- PGCert Forensic Archaeology (60 level 7 credits),
- PGDip Forensic Archaeology (120 level 7 credits)

**Mode(s) of study:**
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**BU Credit Structure & ECTS:**
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*Effective from:* 9

**Contact in Faculty Paul Cheatham**

**Date approved:** June 2015

**Programme Specification version no.:** v1

**Diploma Supplement Statement regarding PRSB accreditation:**
Accreditation has been awarded by the Chartered Society of Forensic Science