

## **MSc in Geoarchaeology**

### **For students entering Part 1 in 2011/2**

Awarding Institution:	University of Reading
Teaching Institution:	University of Reading
Relevant QAA subject Benchmarking group(s):	
Faculty:	Science Faculty
Programme length:	1 years
Date of specification:	23/Aug/2011
Programme Director:	Dr Nick Branch
Programme Advisor:	
Board of Studies:	MSc Geoarchaeology
Accreditation:	

### **Summary of programme aims**

The programme aims to provide a thorough grounding in the principles and methods of earth science with reference to their application in archaeology and palaeoenvironmental studies. It develops a comprehensive understanding of the main field and laboratory techniques in geoarchaeology. The course equips students with the practical field and laboratory skills, and the critical, writing and presentational skills, for future independent work in the field of professional geoarchaeology or doctoral research. There is a particular emphasis on the application of multidisciplinary approaches to the archaeological assessment and interpretation of ancient landscapes buried within sediment sequences. The programme is designed to meet the growing needs of commercial and heritage organisations in relation to environmental assessments, management, and field projects, and to equip students with a range of key research skills that can be developed further at doctoral level. The interdisciplinary character of the course means that students from a wide range of backgrounds, including archaeology, earth science, geography, plant science, Quaternary science and soil science, can use it as a conversion course to move into the field of geoarchaeology.

### **Transferable skills**

Transferable skills include: working as part of a team through participation in field and laboratory group projects; accurate recording in the field and laboratory; data acquisition, presentation, analysis, and interpretation; report writing on field and laboratory projects; understanding environmental assessment; the ability to prepare a paper, in a format and to a standard, suitable for publication; development of skills in oral, written and graphical presentation to facilitate the communication of research to specialist and non-specialist audiences.

### **Programme content**

*Compulsory modules (160 credits)*

<i>Code</i>	<i>Module title</i>	<i>Credits</i>	<i>Level</i>
ARMRSR	Dissertation: Research Skills and Reporting	90	7
ARMQM	Quantitative Methods and Analysis in Geoarchaeology	10	7
SSMSIA	Soils in Archaeology	10	7
ARMAM	Applications of Micromorphological Analysis	10	7
ARMLM	Laboratory Methods in Geoarchaeology	10	7
ARMS6	Field Course	10	7
ARFMF	Field Methods and Experimentation in Geoarchaeology	10	7
ARMS5	Geology and Sedimentology in Archaeology	10	7

### *Optional modules*

Students select 20 credits of optional modules, in agreement with the Programme Director.

### **Part-time or modular arrangements**

The programme can be taken part-time over 2 years. The programme in each year is by agreement with the programme director.

### **Progression requirements**

To progress from the taught elements to the dissertation, students must have gained an average mark of 50 or more overall and have no overall module mark below 40 for the modules ARMS5 Geology and Sedimentology

in Archaeology, ARMLM Laboratory Methods in Geoarchaeology and SSMSIA Soils in Archaeology. This will be assessed by the Board of Studies after the examinations in April/May.

### **Assessment and classification**

Teaching is through a combination of lectures, seminars, laboratory practicals and field classes. Assessment is through a combination of exams, essays, scientific reports, field notebook and presentations. Exams are held in April/May.

The University's taught postgraduate marks classification is as follows:

### **Mark Interpretation**

70-100% Distinction

60-69% Merit

50-59% Good standard (Pass)

### **Failing categories:**

40-49% Work below threshold standard

0-39% Unsatisfactory work

### **Awarding**

For Masters Degrees

To pass the MSc students must gain an average mark of 50 or more overall including a mark of 50 or more for the dissertation and have no mark below 40 in modules ARMS5 Geology and Sedimentology in Archaeology, ARMLM Laboratory Methods in Geoarchaeology and SSMSIA Soils in Archaeology. In addition the total credit value of all modules marked below 40 must not exceed 30 credits and for all modules marked below 50 must not exceed 55 credits.

Students who gain an average mark of 70 or more overall including a mark of 60 or more for the dissertation and have no mark below 40 will be eligible for a Distinction. Those gaining an average mark of 60 or more overall including a mark of 50 or more for the dissertation and have no mark below 40 will be eligible for a Merit.

### **For PG Diplomas**

To pass the Postgraduate Diploma students must gain an average mark of 50 or more and have no mark below 40 in modules agreed at validation to be of special significance to the programme. In addition the total credit value of all modules marked below 40 must not exceed 30 credits and for all modules marked below 50 must not exceed 55 credits.

Students who gain an average mark of 70 or more and have no mark below 40 will be eligible for the award of a Distinction. Those gaining an average mark of 60 or more and have no mark below 40 will be eligible for a Merit.

### **For PG Certificates**

To pass the Postgraduate Certificate students must gain an average mark of 50 or more and have no mark below 40 in the modules ARMS5 Geology and Sedimentology in Archaeology, ARMLM Laboratory Methods in Geoarchaeology and SSMSIA Soils in Archaeology. In addition the total credit value of all modules marked below 40 must not exceed 10 credits.

### **Admission requirements**

Entrants to this programme are normally required to have obtained a first degree, normally upper-second (2:1) or above, in a subject providing an appropriate foundation for a substantial component of the programme. Suitable degree subjects include: archaeology, earth sciences, environmental sciences, physical geography, plant sciences, and oceanography. Candidates are normally interviewed by two members of staff, including the admissions tutor.

### **Admissions Tutor:**

### **Support for students and their learning**

University support for students and their learning falls into two categories. Learning support is provided by a wide array of services across the University, including: the University Library, the Student Employment, Experience and Careers Centre (SEEC), In-session English Support Programme, the Study Advice and Mathematics Support Centre teams, IT Services and the Student Access to Independent Learning (S@il) computer-based teaching and learning facilities. There are language laboratory facilities both for those students studying on a language degree and for those taking modules offered by the Institution-wide Language Programme. Student guidance and welfare support is provided by Personal Tutors, School Senior Tutors, the Students' Union, the Medical Practice and advisers in the Student Services Centre. The Student Services Centre is housed in the Carrington Building and offers advice on accommodation, careers, disability, finance, and wellbeing. Students can get key information and guidance from the team of Helpdesk Advisers, or make an appointment with a specialist adviser; Student Services also offer drop-in sessions and runs workshops and seminars on a range of topics. For more information see [www.reading.ac.uk/student](http://www.reading.ac.uk/student)

### **Career prospects**

The programme was established in response to a Survey of Science Training Needs conducted by the Council for British Archaeology. This showed that there was inadequate provision for training in geoarchaeology in Britain. The programme enables those with training in earth or environmental sciences to move into archaeology, and those with training in the scientific aspects of archaeology to develop their knowledge of earth sciences. Career opportunities are available in archaeological units, heritage organisations, environmental consultancies, local authorities, and research laboratories and organisations.

### **Opportunities for study abroad or for placements**

There is the opportunity to do the fieldwork part of the dissertation project abroad. However, students are expected to make the necessary arrangements for this with advice from staff.

### **Programme Outcomes**

#### **Knowledge and Understanding**

##### **A. Knowledge and understanding of:**

- (1) The range of earth science principles and methods employed in archaeology.
- (2) The range of field and laboratory analytical techniques employed in geoarchaeology.

##### **Teaching/learning methods and strategies**

- (1) Combination of lectures, seminars, and practical field and laboratory classes in the core modules, and associated assessment via field and laboratory reports.
- (2) As above.

*Assessment*

#### **Skills and other attributes**

##### **B. Intellectual skills - able to:**

1. Outline the objectives of a piece of geoarchaeological research, identify appropriate methodology, make and record accurate observations, and interpret and critically review the results.
2. Present a report in a good standard of written English and with a good standard of illustrations in the form of a paper suitable for publication.
3. Develop self-direction and originality in problem-solving.
4. Critically evaluate and debate the work of others.
5. Synthesise and integrate evidence from archaeological and earth science sources, including the integration of humanities and

##### **Teaching/learning methods and strategies**

- (1) Field and laboratory projects for core modules and the dissertation.
- (2) As above
- (3) As above
- (4) Seminars (including in Dissertation skills and option modules), dissertation critiques, field discussions and field notebook.
- (5) Geoarchaeology: Principles and Practice and case-studies used in core module, option and field methods teaching.

*Assessment*

science-based approaches to research problems.

**C. Practical skills - able to:**

1. Achieve a good standard of accuracy in field recording.
2. Assess archaeological sites and landscapes in the field.
3. Select and apply appropriate methods of field sampling to a range of depositional contexts
4. Select and apply laboratory techniques appropriate to the analysis of soils, sediments, rocks and artefacts.
5. Use a microscope to analyse mineralogy, soil thin sections and biological evidence.
6. Organise, conduct and write up a piece of research and present the results to a specialist audience.

**D. Transferable skills - able to:**

- (1) Work as part of a team.
- (2) Record, present and analyse data.
- (3) Communicate their results to specialist and non-specialist audiences
- (4) Prepare a paper in a format and to a standard suitable for publication.
- (5) Exercise initiative and personal responsibility.
- (6) Make decisions in complex and unpredictable situations.
- (7) Learn independently and develop new skills to a high level.
- (8) Demonstrate self-direction and originality in tackling and solving problems, and act autonomously in planning and implementing tasks at a professional or equivalent level.

**Teaching/learning methods and strategies**

- (1) Notebooks kept during the Field Course and fieldwork for the dissertation.
- (2) Fieldwork in Field Methods and Experimentation and the Field Course.
- (3) Fieldwork in Field Methods and Experimentation.
- (4) Practical classes in Applications of Micromorphological Analysis, Geoarchaeology: Principles and Practice, and Laboratory Methods, and Quantitative Methods.
- (5) As above.
- (6) Coursework projects and the dissertation.

*Assessment*

**Teaching/learning methods and strategies**

- (1) Group field and laboratory work.
- (2) Practical classes, field and laboratory reports, Dissertation skills coursework, and dissertation.
- (3) Field and laboratory reports, seminars in option modules, and dissertation.
- (4) Practical field and laboratory projects and dissertation.
- (5) The taught programme as a whole and the dissertation.
- (6) As above.
- (7) As above.
- (8) Dissertation.

*Assessment*

**Please note - This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods of each module can be found in the module description and in the programme handbook. The University reserves the right to modify this specification in unforeseen circumstances, or where the process of academic development and feedback from students, quality assurance process or external sources, such as professional bodies, requires a change to be made. In such circumstances, a revised specification will be issued.**