

## Dissertation (MSc Project)

*Information taken from current Programme Handbook (2014-15)*

### Dissertation (QGGA)

**60 credits**

Code	<b>PGBI11011</b>
Course Organiser	Professor Andrew Leigh-Brown <a href="mailto:A.Leigh-Brown@ed.ac.uk">A.Leigh-Brown@ed.ac.uk</a> Tel: 0131 6505523
Course Secretary	Jennie Morris <a href="mailto:ggen@ed.ac.uk">ggen@ed.ac.uk</a> Tel: 0131 6505513
When	Semester 2 and beyond (Block 5)
Level	11

All students who are eligible to progress (see page 13) undertake a 3 month MSc Project. These are individually supervised by a senior member of the institutions associated with the programme.

The subject of the Dissertation is expected to be the same as that for the MSc Project Proposal, undertaken in Semester 2 (see p. 10). Students are encouraged to discuss their own ideas for possible project topics with supervisors during Semester 1. Projects may be based outside King's Buildings and can make use of datasets from industrial partners.

At the beginning of Semester 2 the Programme Director will consider and approves potential project topics, and allocates project topics to students who have not arranged one with a supervisor, taking account of preferences expressed by the student.

All MSc students submit a dissertation in August which will be examined by independent markers and reviewed by the Board of Examiners. Dissertations are formally examined by two independent markers according to University and College guidelines. Regulations for the preparation and submission of the thesis will be issued later in the programme.

You will also give a short oral presentation of your findings early in August.

See Section 7 of the PGT Code of Practice

<http://www.docs.sasg.ed.ac.uk/AcademicServices/Codes/CoPTaughtPGProgrammes.pdf>

### Dissertation schedule

Event	Date	Who
Investigate potential project	Semester 1	Students
Project topic allocation	January 2015	Programme Director
Project phase	June - August	Students/ Supervisors
Presentation (15-20 minutes)	Early August	Students
Submission of dissertation	End 3 <sup>rd</sup> week August	Students

Further information on arrangements for submission and processing of the dissertation will be distributed later in the Programme.

***Some Dissertation topics from previous years:***

*Investigating the genetic variation of coccidiosis infection in broiler chickens based on qPCR detection.*

*Searching for balancing selection on a Mimicry Supergene in the Batesian Mimic *Papilio polytes**

*Evolutionary dynamics of *Arabidopsis thaliana* in North America: A Natural Mutation Accumulation Line since the 19th century colonization*

*Genome wide association studies for production traits in Texel sheep*

*Understanding the role of service sire in the genetic evaluation of field fertility data*

*Analysis of hybridisation between Japanese sika (*Cervus nippon*) and native red deer (*Cervus elaphus*) using SNPs*

*Exploring genetic interactions in human complex trait variation using the polygenic score*

*Exploring the role of parent-of-origin effects in human complex trait variation*

*Across the pond: the phylodynamics and migration of HIV-1 subtype B from North America to Europe*

*Genome Wide association study on boar taint in the Pietrain breed.*

*Detecting Global Inter-Species Transmission Patterns and Phylogeographical Patterns of Hepatitis E Virus*

*Developing methods to account for the effect of herd movements in carcass traits analysis of commercial multibreed cattle population*

*Multipoint Linkage analysis: Methods to improve the power to detect, localize, and estimate the effect of genes influencing a complex disease.*

*Inferring selection in regulatory elements from sequence diversity in the mouse genome*