

22 October, 2008







1











#### **Educational reasons**

4.6 All honours degree students are expected to have some personal experience of the approach, practice and evaluation of scientific research (eg within a project or research-based assignments). This is likely to be in the student's final year, and may draw on the experience gathered during the course as a whole. Such work is likely to include collection and analysis of information (eg from fieldwork, laboratory work, or questionnaires, as well as from the literature), interpretation of the information within the context of current knowledge, suggestions for further work, reference to safety and ethical considerations where relevant and a presentation or report on the findings.



**Biosciences Benchmark Statement (QAA, 2002)** 







#### **Educational reasons**

### 3.5 Intellectual skills [abridged]

- recognising and applying subject-specific theories, paradigms, concepts or principles.

- analysing, synthesising and summarising information critically, including published research or reports;

- obtaining and integrating several lines of subject-specific evidence to formulate and test hypotheses;

- applying subject knowledge and understanding to address familiar and unfamiliar problems;

- recognising the moral and ethical issues of investigations and appreciating the need for ethical standards and professional codes of conduct.

Biosciences Benchmark Statement (QAA, 2002)					









### **Educational reasons**

### Generic standards [abridged]

Good:

- be able to access and evaluate bioscience information ... and to communicate the principles ... in a way that is well-organised, topical and recognises the limits of current hypotheses;

... ability to place the work in context and to suggest lines of further investigation;

... be able to plan, execute and present an independent piece of work (e.g. a project) ...time management, problem solving and independence...

interpretation and critical awareness of the quality of evidence;

... be able to construct reasoned arguments

... have well-developed strategies for updating, maintaining and enhancing their knowledge of the biosciences.

**Biosciences Benchmark Statement (QAA, 2002)** 























# Ownership Graduateness

For the students who are the professionals of the future, developing the ability to investigate problems, make judgments on the basis of sound evidence, take decisions on a rational basis, and understand what they are doing and why is vital. Research and inquiry is not just for those who choose to pursue an academic career. It is central to professional life in the twenty-first century.

(Angela Brew, 2007)

Brew A (2007) *Research and Teaching from the Students' Perspective*. International Colloquium on Research and Teaching: International policies and practices for academic enquiry. Winchester, UK. 19-21 April. <a href="http://portallive.solent.ac.uk/university/rtconference/2007/resources/angela\_brew.pdf">http://portallive.solent.ac.uk/university/rtconference/2007/resources/angela\_brew.pdf</a> [21/10/08].

See also : Healey M, Jenkins A (2008) *Developing Students as Researchers* UC Magazine, University and College Union, October 2008, 17-19

































#### What's in it for us?

## A great deal of hard work

Suggesting feasible topics Locating scarce resources Training in techniques Motivating recalcitrants Moderating over-enthusiasts Day-to-day supervision **Problem solving** Crisis avoidance Crisis management Minimising risk Moderating written work Maintaining personal sanity and having a life

# Anything else?





























