



CETL-AURS

Skills Mapping Project

Gillian Fraser
Anne Crook
Julian Park



Introduction

- Awarded a CETL in Applied Undergraduate Research Skills in 2005
- Core disciplines: Agriculture, Archaeology, Typography, Zoology, MERL
- Discipline-specific initiatives
- Inter-disciplinary projects
 - Skills mapping = 1st project

'Skills Mapping'

- **What is a skill?**
 - Original focus was 'research skills': but difficult to define!
- **Divided skills into either:**
 - Transferable skills
 - Discipline-specific (e.g. microscopy, Profit and Loss balance sheets, surveying etc.)
 - Collectively = 'research skills'

'Skills Mapping'

- **CETL-AURS has developed three approaches:**
 - Student skills workshops and linked questionnaires
 - Programme overview skills description: prospective and current students
 - **Skills audit tool**



Skills Audit Tool

- Methodology to map research skills teaching, learning and assessment
 - Curriculum design
 - 'Flexible' programmes
- Ideas based on Bioscience assessment audit
- Module co-ordinators & programme directors
 - Reflect on skills within and across modules
- Electronic audit tool with reporting functions
 - Uses PROFILE software



PROFILE

- Form-based software developed by UWE
- CETL-AURS designed forms to map skills
- Module co-ordinators enter data
- Programme directors: automatic access
- Individual module and programme review
- Results = basis for discussion with employers



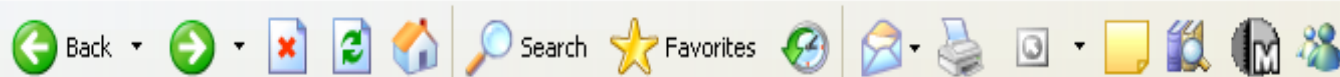
PROFILE

- Assigned usernames and passwords enable data to be protected (only view own data)
- Module convenors can invite colleagues to view data
- Reports are automatically generated by programme director ('administrator'): PROFILE links to Excel

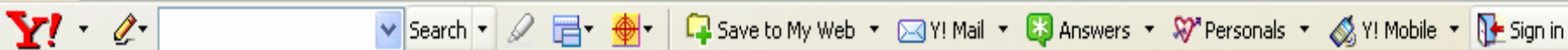


Pilot Study

- BSc Rural Environmental Science – piloted paper version
- BSc Agricultural Business Management
- <http://www.profile.ac.uk>



Address <http://www.profile.ac.uk/profile/login.htm>



Knowledge Management System

Type your email address: and press Enter

| [Tutorials](#) | [About Profile >>>](#) |

Email: profile@uwe.ac.uk

©2005 profile.ac.uk

The JavaScript implementation of the MD5 Message-Digest Algorithm used on this site is derived from RSA Data Security, Inc and is copyright (C) Paul Johnston 1999 - 2000.

1. Skills

Skills teaching within the module.

1.1 Which transferable skills are explicitly taught within the module? *(Please tick)*

- | | | | |
|-----------------------|----------------------------|-------------------------------|----------------------------|
| Written communication | ✓ <input type="checkbox"/> | Information Handling | ✓ <input type="checkbox"/> |
| Oral communication | ✓ <input type="checkbox"/> | Information technology skills | ✓ <input type="checkbox"/> |
| Problem-solving | ✓ <input type="checkbox"/> | Numeracy | ✓ <input type="checkbox"/> |
| Team work | ✓ <input type="checkbox"/> | Career management | ✓ <input type="checkbox"/> |

1.2 What methods are used to teach these transferable skills? *(Please tick)*

- | | | |
|--|----------------------------|-----------------------------|
| Lectures | ✓ <input type="checkbox"/> | Other <i>(please state)</i> |
| Small group teaching (incl. tutorials) | ✓ <input type="checkbox"/> | <input type="text"/> |
| Laboratory (practical) classes | ✓ <input type="checkbox"/> | |
| Field classes | ✓ <input type="checkbox"/> | |
| Discussion groups/debates | ✓ <input type="checkbox"/> | |
| | ✓ <input type="checkbox"/> | |

1.3 Are specialist skills taught within the module? ✓ Yes

1.4 Which specialist skills are taught *(Please list)*

2. Assessment

Assessment of skills.

2.1 Are **transferable** skills assessed?

✓ Select ▼

2.2 What methods are used to assess **transferable** skills?

Please indicate if these are formative (F) and/or summative (S) assessment methods.

Skill being assessed

Method of assessment

Formative (F) /
Summative (S) /
Both

✓ Select ▼

- Select
- Written communication
- Oral communication
- Problem-solving
- Team work
- Information handling
- Information Technology skills
- Numeracy
- Career management
- ✓ Problem-solving ▼

✓ Essay ▼

✓ Critique ▼

✓ Select ▼

✓ Other (please state here)

✓ Select ▼

✓ Summative ▼

✓ Select ▼

✓ Select ▼

✓ Select ▼

✓ Select ▼

	E	F	G	H	I	J	K	L
1	0__YourModule module_code	0__YourModule module_name	0__Skills_1 1_team_work	0__Skills_11_oral communication	0__Skills_11_information handling	0__Skills_11 numeracy	0__Skills_11_written communication	0__Skills_11_problem solving
2	AP1SB1	Business Management	ON	ON	ON	-	ON	ON
3	AP1A03	Introduction to Livestock Production Systems	ON	ON	-	-	ON	ON
4	AP1EQ2	Market and Data Analysis	-	-	ON	ON	ON	ON
5	AP1EE3	Economics 1A	-	ON	-	-	-	ON
6	AP1A10	Countryside and environment	-	ON	ON	-	ON	-
7	AP2A36	Animal Production	-	-	-	-	ON	-



Interpretation of Audit Tool

Skill	Taught in % modules
IT	100%
Written communication	90%
Problem solving	90%
Information handling	90%
Numeracy	80%
Team work	70%
Oral communication	50%
Careers management	10%



Some of the Specialist Skills

- Ecological sampling (Intro to RES(I))
- Field sampling techniques (Practical RES (II))
- Sampling and data analysis (Field course II)
- Field work techniques and data recording (Intro to RES(I))
- Experimental design (Intro to RES(I))
- Surveying skills (Field course (II))
- Water testing and evaluation (Field course (II))
- Identifying soil properties (Soils (I))



Evaluation

- Developed evaluation pro forma
- Very positive responses from academics
- Some changes to modules as a result
 - Module Description Forms
 - Assessment review
- Interest from Schools across the University



Contacts

Gillian Fraser

g.a.fraser@rdg.ac.uk x6783

Anne Crook

a.c.crook@rdg.ac.uk x7948

Julian Park

j.r.park@rdg.ac.uk x6686