Research Skills, Professional Development and Commercial Awareness

Module Code: CFS7025-B
Academic Year: 2018-19
Credit Rating: 20
School: School of Chemistry and Biosciences
Subject Area: Chemistry and Forensic Science (ceases 2016)
FHEQ Level: FHEQ Level 7 (Masters)

Pre-requisites:
Co-requisites:

Contact Hours

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Lectures</td>
<td>10</td>
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<tr>
<td>Seminar</td>
<td>6</td>
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<tr>
<td>Directed Study</td>
<td>184</td>
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Availability Periods

<table>
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<tr>
<th>Occurrence</th>
<th>Location/Period</th>
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<tbody>
<tr>
<td>BDA</td>
<td>University of Bradford / Semester 1 (Sep - Jan)</td>
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Module Aims

This course serves as the introduction to your MSc in Materials Chemistry and MSc in Analytical Sciences. Students will come to the programme with a variety of different backgrounds and this module will allow students to identify their areas of strength, and to propose appropriate training for any areas that require improvement. Students will be introduced to reflective practice and this module will provide a framework by which their other scholarship activities can be managed. The MSc in Materials Chemistry and MSc in Analytical Sciences are research-focused. This module will provide background on the research / commercial-world interface, and will introduce students to issues such as
intellectual property and knowledge transfer. This module also serves as an introduction to the research project, thus project management as well as associated ‘soft’ research skills will also be covered.

**Outline Syllabus**

**Module Learning Outcomes**
*On successful completion of this module, students will be able to...*

1. Evaluate the possibly conflicting requirements of commercial and academic research

10. Prepare Gantt charts

2. Understand the role of reflective practice in their continuing professional development

3. Examine the role of IP and knowledge transfer in research

4. Apply project management tools

5. Identify training requirements needed for the completion of a piece of work

6. Design a research project plan

7. Write fully referenced scientific documents

8. Develop a strategy to organise and manage literature searches

9. Undertake project planning, and develop approaches to monitor and critically reflect on progress

**Learning, Teaching and Assessment Strategy**
Through introductory lectures students will be introduced to the concept of reflective practice. At the start of the module students will be assigned to a project tutor and will discuss project outlines.

Students will complete a diagnostic questionnaire and with the help of their tutor will identify any requirements for further training, be it for a specific piece of equipment, or a CPD course offered by the university.

Directed study will provide students with the opportunity to undertake guided reading and
to develop their own portfolio of learning to enhance transferable skills and knowledge relating to evaluation of own role and subject provision.

The VLE will be used to provide access to online resources, lecture notes and external links to websites of interest.

Assessment 1:
Preparation of a project plan based on the student’s proposed research area.

Assessment 2:
Evidence of reflective practice:- Skills analysis, development of a training programme, and engagement with project management tools.

Mode of Assessment

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<tr>
<th>Type</th>
<th>Method</th>
<th>Description</th>
<th>Length</th>
<th>Weighting</th>
<th>Final Assess'</th>
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<tbody>
<tr>
<td>Summative</td>
<td>Coursework</td>
<td>Training plan, and evidence of reflective practice</td>
<td>-2000 words</td>
<td>50%</td>
<td>Yes</td>
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<tr>
<td>Summative</td>
<td>Coursework</td>
<td>Preparation of a project plan</td>
<td>-2000 words</td>
<td>50%</td>
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Legacy Code (if applicable)

Reading List
To view Reading List, please go to rebus:list.