University of the
West of England

MODULE SPECIFICATION

Code: USSJSG-40-2 **Title:** Healthcare Science in Action **Version:** 1

Level: 2 **UWE credit rating:** 40 **ECTS credit rating:** 20

Module type: Professional Practice

Owning Faculty: Health and Life Sciences **Department:** Applied Sciences

Faculty Committee approval: Quality and Standards Committee **Date:** March 2011

Approved for Delivery by: N/A

Valid from: September 2011 **Discontinued from:**

Pre-requisites:

USSJKT-20-1 Introduction to Biology of Disease or UZYRHP-30-1 Radiographic Science or equivalent

Co-requisites:

None

Entry Requirements:

N/A

Excluded Combinations:

None

Learning Outcomes:

The student will be able to:

Demonstrate standards of behaviour and practice that must be achieved and maintained as a Healthcare Science Practitioner in the following domains…

Knowledge & Understanding:
1. Demonstrate knowledge, understanding and confidence in application of the core skills, including communication skills, management and quality assurance.
2. Demonstrate an understanding of the breadth of the application of science within the respective Division and Specialist Route.
3. Apply scientific and clinical principles from academic units to practice.
4. Review and evaluate departmental protocols in relation to core skills in health and safety, human rights, patient identification, communication skills and management and quality assurance, and routine tasks in relation to legislation, accreditation, guidelines and quality standards as appropriate to the Division and Specialist Route.
5. Demonstrate an understanding of common statistical techniques for dealing with quantitative and qualitative data including sample size determination, application of statistics to parametric and non-parametric data.

Practical Skills:
On successful completion of this module, the student will:
1. Demonstrate the ability to competently perform a range of core, and specialised methods and techniques as appropriate to the Division and Specialist Route and comply with required quality standards.
2. Demonstrate the ability to work with hospital information systems.
3. Demonstrate the ability to perform an audit of the effectiveness of one or more methods, including the introduction of new methods, and evaluate the outcome in the context of the clinical application.
4. Provide evidence of direct patient interaction, which may include laboratory medicine testing at the point of care, and interaction with other healthcare professionals.

Associated Personal Qualities and Behaviours (Professionalism)
1. Confidently challenge discriminatory behaviour and language.
2. Adapt communication style and language to meet the needs of listeners.
3. Respect and uphold the rights, dignity and privacy of patients and establish patient centred rapport with a consistent focus on the professional duty of care.
4. Reflect and review own practice to continuously improve personal performance.
5. Consistently operate within sphere of personal competence and level of authority while managing personal workload and objectives to achieve quality of care.
6. Active seeking of accurate and validated information from all available sources to assist with judgements and decision making.
7. Contribution to and co-operation with multi-disciplinary teams.

Syllabus Outline:

The syllabus will be determined by the indicative content of the appropriate Healthcare ScienceTraining Manual and the relationship between the pattern of training within the specific workplace environment, with particular reference to the first half of the main work placement.

Teaching and Learning Methods:

Work-based skills will be learned during training and work experience based on the appropriate Healthcare Science Training Manual. The Modernising Scientific Careers (MSC) Online Assessment Tool will be used to organise evidence and record outcomes contributing to the requirements of the Training Manual. Additional support material (skills and assessment) will be provided by UWE through Blackboard and/or established placement support services such as Profile (www.rags.profile.ac.uk).

Assessment will match the model indicated by the MSC team; that is:-
4x Direct Observation of Practical Skills (DOPS); the observation and evaluation of a procedural/technical or practical skill performed by a student in a live environment.

1x Case Based Discussion (CBD) which is designed to provide structured teaching and feedback in a particular area of clinical or technical practice by evaluating decision making and the interpretation and application of evidence. It will also enable the discussion of the context, professional, ethical and governance framework of practice, and in all instances, allow students to discuss why they acted as they did. CBDs are used throughout training and should encourage a reflective approach to learning.

1x Mini Clinical Examinations (mini-Cex). These are a short snapshot of practitioner/patient interaction. They are designed to assess the clinical skills, attitudes and behaviours of students essential to providing high quality care. (This tool will not be relevant to all disciplines as it is principally designed to assess direct interaction with patients.)

The work-based training will be augmented with blended learning to ensure the student understands the breadth of the application of science within their Healthcare Science Division and can apply that knowledge in practice.

Reading Strategy:

All students will be encouraged to make full use of the print and electronic resources available to them through membership of the University. These include a range of electronic journals and a wide variety of resources available through web sites and information gateways. The University Library's web pages provide access to subject relevant resources and services, and to the library catalogue. Many resources can be accessed remotely. Students will be presented with opportunities within the curriculum to develop their information retrieval and evaluation skills in order to identify such resources effectively.

Any **essential reading** will be indicated clearly, along with the method for accessing it, e.g. students may be expected to purchase a set text, be given or sold a print study pack or be referred to texts that are available electronically, etc. This guidance will be available either in the module handbook, via the module information on Blackboard or through any other vehicle deemed appropriate by the module/programme leaders.

If **further reading** is expected, this will be indicated clearly. If specific texts are listed, a clear indication will be given regarding how to access them and, if appropriate, students will be given guidance on how to identify relevant sources for themselves, e.g. through use of bibliographical databases.

Indicative Reading List:

Modernising Scientific Careers Programme Training Manual for appropriate Division and Specialist Route. Available from http://www.networks.nhs.uk/nhs-networks/msc-framework-curricula/ptp

Course Handbook for Healthcare Science (2011) In-house publication available from the Placements Service, Dept Applied Sciences, UWE, Frenchay Campus, Bristol BS16 1QY.

QAA Code of Practice: Placement Learning. (January 2008) available to download from http://www.qaa.ac.uk/academicinfrastructure/codeOfPractice/section9/default.asp

Motulsky H (1995) Intuitive Biostatistics

Assessment:

Weighting between components A and B (standard modules only): A: P/F B: 0%

FIRST ATTEMPT

First Assessment Opportunity

Component A *(controlled)*		**Element Wt (Ratio)**
Description of each element		*(within Component)*
CW1 5 x DOPS/Clinical Examinations	***Final Assessment***	1

Component B	**Element Wt (Ratio)**
Description of each element	*(within Component)*
CW2 Case Study	1
CW3 Reflective Essay	1
CW4 Data Interpretation	1

Second Assessment Opportunity (Resit) further attendance at taught classes is not required

Component A *(controlled)*		**Element Wt (Ratio)**
Description of each element		*(within Component)*
CW1 5 x DOPS/Clinical Examinations	***Final Assessment***	1

Component B	**Element Wt (Ratio)**
Description of each element	*(within Component)*
CW2 Case Study	1
CW3 Reflective Essay	1
CW4 Data Interpretation	1

EXCEPTIONAL SECOND ATTEMPT Attendance at taught classes is not required.

Specification confirmed by ……Date ……
(Associate Dean/Programme Director)