

| Module Details         |                                                            |
|------------------------|------------------------------------------------------------|
| <b>Module Title:</b>   | Laboratory and Study Skills for Clinical Sciences/Medicine |
| <b>Module Code:</b>    | CLS4006-B                                                  |
| <b>Academic Year:</b>  | 2019-20                                                    |
| <b>Credit Rating:</b>  | 20                                                         |
| <b>School:</b>         | School of Pharmacy and Medical Sciences                    |
| <b>Subject Area:</b>   | Clinical Sciences                                          |
| <b>FHEQ Level:</b>     | FHEQ Level 4                                               |
| <b>Pre-requisites:</b> |                                                            |
| <b>Co-requisites:</b>  |                                                            |

| Contact Hours  |       |
|----------------|-------|
| Type           | Hours |
| Lectures       | 13    |
| Tutorials      | 22.5  |
| Laboratory     | 13.5  |
| Directed Study | 151   |

| Availability |                                                     |
|--------------|-----------------------------------------------------|
| Occurrence   | Location / Period                                   |
| BDA          | University of Bradford / Academic Year (Sept - May) |

| Module Aims                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| To introduce students to essential laboratory and study skills for Clinical Sciences and related healthcare professions. To develop processes in logical thinking and reflective analysis. To facilitate the development of the basic numeracy skills required by health care professionals. |

| Outline Syllabus                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Laboratory skills: health and safety aspects, record keeping and report writing, observation and analysis, concepts of accuracy and precision, sample preparation and dilutions, pH titrations and simple buffers, use of calibration curves for analytical spectroscopy, measurement of timed reactions and enzyme kinetics. Anatomical skills. problem-based learning and case studies. SI |

Units, standard expressions of medication strength and conversion between them. Calculation of ideal body weight and body surface area. Calculation of individualised dosages and drug infusion rates.

### Learning Outcomes

|   |                                                                                        |
|---|----------------------------------------------------------------------------------------|
| 1 | Show effective practical laboratory techniques and study skills for Clinical Sciences. |
| 2 | Describe, and convert between, the different units of measurement used in health care. |
| 3 | Perform essential laboratory techniques.                                               |
| 4 | Produce scientific and case study reports.                                             |
| 5 | Express and convert concentrations and perform calculations relevant in health care.   |
| 6 | Think logically in a practical situation.                                              |
| 7 | Employ study, written communication and numeric skills.                                |

### Learning, Teaching and Assessment Strategy

Study and laboratory skills will be delivered through practical classes, workshops, problem-based learning groups, supported by lectures, staff-led tutorials and formative assessments. Practical skills will be assessed via laboratory reports and classroom test, case studies will be assessed via a reflective report and numeracy skills via an examination. During directed study hours, you are expected to undertake relevant reading to consolidate your learning of the syllabus; to prepare for formative assessments, practicals and tutorials; to revise material for summative assessments and to undertake group-work for the problem-based learning case studies.

### Mode of Assessment

| Type      | Method                    | Description                                              | Length      | Weighting |
|-----------|---------------------------|----------------------------------------------------------|-------------|-----------|
| Summative | Laboratory Report         | Laboratory Report - Beginning Semester 2                 | -1200 words | 30%       |
| Summative | Examination - closed book | Mathematics short answer examination - End of Semester 1 | 1 hour      | 25%       |
| Summative | Coursework                | Reflective case report - End of Semester 2               | -800 words  | 15%       |
| Summative | Classroom test            | Anatomy Spot Test - Mid Semester 2                       | 40 minutes  | 30%       |

### Reading List

To access the reading list for this module, please visit <https://bradford.rl.talis.com/index.html>.

*Please note:*

*This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.*