Medical Physics and Biomedical Engineering

Computing in Medicine (MPHY0020)

**Description**

**Students completing this course will be able to:**

1. Critically evaluate a computer’s major hardware and software components;

2. Describe and demonstrate an understanding of the major uses of computers in a clinical setting;

3. Evaluate and justify technical, ethical, and legal aspects that need to be taken into account when implementing and using a hospital PACS system (e.g. data security);

4. Demonstrate an understanding of the fundamentals of computer programming Write a MATLAB program to perform simple analysis and visualisation of medical data;

5. Demonstrate an understanding of basic MATLAB commands and programming concepts;

6. Demonstrate an understanding of basic principles of digital signal and image processing;

**Key information**

- **Year**: 2018/19
- **Credit value**: 15 (150 study hours)
- **Delivery**: UG L6, Campus-based
- **Reading List**: [View on UCL website](#)
- **Tutor**: Dr Dean Barratt
- **Term**: Term 1
- **Timetable**: [View on UCL website](#)

**Assessment**

- Written examination (main exam period): 66%
- Coursework: 34%

**Find out more**

For more information about the department, programmes, relevant open days and to browse other modules, visit [ucl.ac.uk](http://ucl.ac.uk)
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**Year** 2018/19  
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**Delivery** PGT L7, Campus-based  
**Reading List** View on UCL website  
**Tutor** Dr Dean Barratt  
**Term** Term 1  
**Timetable** View on UCL website

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Disclaimer: All information correct as of December 2018. Please note that aspects of the module may be subject to change. UCL will make best efforts to inform applicants of major changes.