The following may be of interest should you wish to undertake some preliminary private study before the course commences in September particularly with regard to revising mathematics, physics or the relevant areas of biological sciences.

It is inadvisable to purchase expensive textbooks without consultation. Students are advised to avoid the purchase of second-hand or out-of-date editions of books. Unfortunately, no single textbook can cover an entire topic to the extent required for an undergraduate degree course so further guidance will be given by lecturers during your time at City.

**Biology**

For biological sciences, you should refer to:


**Clinical Skills**

Practical and theoretical aspects of optometric clinical examination will be introduced from very basic levels during the first year of the programme so there is no need to do any preliminary reading. If you wish to purchase a reference book, we recommend the following but please note that enrolled students may be able to access these books electronically free of charge via the University library:

- **Evidence-based practice across the health professions** by Tammy Hoffmann, Sally Bennett and Christopher Del Mar, Elsevier (2013), 2nd edition.
Maths

For mathematics you should be familiar with co-ordinate and vector geometry, trigonometry, logarithms and exponentials and algebra. The following is recommended for preliminary study:

- Online resource: http://www.math tutor.ac.uk

Optics

The basics of Optics will be covered in the first few weeks of term and will assume no prior knowledge of the topic. However, should you wish to do some background reading, you should read the Geometrical Optics section of any ‘A’ Level Physics textbook such as:


Visual Optics

Visual optics acts as the bridge between optics and clinical skills. The books mentioned under their respective sections for these other subjects will also give you a start in visual optics. This area is somewhat specialised and, as a result, we will start from an introductory level before moving through various topics where optics is applied to the eye. To excite you about some of the topics in the first few weeks, have a look at some of the websites listed below:


Vision testing:

- Introduction to vision testing from Vision Australia
- From the US
- Definitions of sight impaired or severely sight impaired from the RNIB
- YouTube video on the Snellen Chart
- Reliability of Snellen charts for testing VA for driving
- Notes for doctors in training – eye examination OSCE
- Occupational Vision Standards from the Association of Optometrists
Refractive Error (Ametropia)

- Overview of Refractive Errors from Merck
- From the WHO
- From the National Eye Institute