

Diploma in Optometry

If you are concerned with eye health, and would like to tackle the issue of eye-care in Singapore, look no further than our Diploma in Optometry [OPT]. You could be on your way to become an optometric practitioner to help diagnose eye disorders and prescribe optical treatments. OPT trains you for this important role. In addition, our broad-based curriculum enables you to explore opportunities in fields other than health services. You also get to learn firsthand from industry experts through off-campus classes and internships, right from the first year.

Practice-oriented Learning

In our diploma, you don't necessarily learn everything from a textbook. Learn from the pros themselves - you will be trained by practising optometrists to examine eyes, test sight and diagnose visual problems. You will learn to prescribe and dispense spectacles and contact lenses, as well as recommend eye treatments.

By working alongside qualified optometrists to diagnose and manage patients at our Optometry Centre, you will be constantly gaining valuable real-world knowledge. Plus, you also get to go on a 16-week internship with an optical retail practice, ophthalmology clinic or eye-care product company.

Broad-based Curriculum

Our curriculum covers topics such as biostatistics & research methods, communications in practice, patient management and optometric retail management. It will equip you with the skills you need to better manage patients, run a retail business or embark on a career based in research.

Off-campus Classes & Industry Workshops

You will get to attend off-campus classes conducted by our industry partners such as Essilor Singapore and Menicon. Multinational corporations in eye-care products will also offer you specialised product training and expose you to the latest in eye-care products and technology.

COURSE MODULES

LEVEL 1.1

Introduction to Data Analytics with Excel

This module aims to provide students with a basic understanding of data analytics concepts and applications. Students will learn fundamental data analytics concepts, how to analyse data using Microsoft Excel and present information to provide insights for making informed decisions.

General Anatomy & Physiology

This module provides students with the foundational knowledge of the anatomy and physiology of the major human body systems. Students will learn the biochemical processes in normal human physiology. The interrelationship of the body systems and how they maintain homeostasis are examined.

Geometrical & Physical Optics

This module provides students with the knowledge of behaviour of light and its interaction with matter. It also covers the optics of lenses, lens systems and aberrations, as well as photometry and laser.

Ocular Anatomy & Physiology

This module covers, in detail, the anatomy of the eye and its orbit. The anatomical relationships of the orbital contents including the extra-ocular muscles, the orbital nerves, the orbital blood vessels, and the ocular adnexa are elaborated. Physiology and biochemistry of the principle constituents of the eye, including the cornea, crystalline lens, aqueous humour, vitreous humour, retina, ciliary apparatus and tear film are also covered.

LEVEL 1.2

General Pathology & Diseases

This module equips students with knowledge of basic pathology which includes cell and tissue damage, genetic diseases, vascular disorders, tumours, inflammations and infections, with emphasis on microbiology. Students will learn common systemic diseases such as diabetes, hypertension, and hyperlipidaemia which can cause complications in the eye.

Ocular Health Assessment & Disease Management 1

This module covers the clinical optometric techniques such as the slit-lamp biomicroscopy and keratometry in examining the anterior segment of the eyes. The students will learn the detection and management of anterior eye diseases based on the assessment and interpretation using these techniques.

Ophthalmic Optics & Dispensing

This module equips students with the knowledge on the types, materials, physical and optical properties of single vision lenses and spectacle frames available in the industry. Students will also be taught the basic skills such as hand neutralisation, pupillary distance measurement, focimetry and related measurements in fitting lenses into frame. Principles and processes of lens coating and basic single vision ophthalmic lens glazing will also be covered.

Refraction

This module focuses on clinical techniques of objective and subjective refraction using trial lenses on trial frame as well as with the phoropter. It also includes the clinical assessment of vision and visual acuity.

COURSE CURRICULUM

Module Name

Year 1

Level 1.1 (20 hours per week)

	Credit Units
General Anatomy & Physiology	5
Geometrical & Physical Optics	5
Introduction to Digital Analytics with Excel	2
Ocular Anatomy & Physiology	5
Innovation Made Possible [^]	3

Level 1.2 (24 hours per week)

Ocular Health Assessment & Disease Management 1	5
General Pathology & Diseases	4
Refraction	6
Ophthalmic Optics & Dispensing	4
Communication Essentials [^]	3
Sports & Wellness [^]	2

[^]*Innovation Made Possible, Communication Essentials and Sports & Wellness* will be offered in either Level 1.1 or 1.2 (where the latter two modules will be offered at a different level from the former).