A warm welcome to the School of Optometry and Vision Science

As the only Optometry School in New Zealand, we are unique in offering a Bachelor degree that allows our graduates to practise optometry in NZ and Australia. We offer a blend of innovative teaching, in the context of cutting-edge clinical practice, supported by internationally recognised translational research.

While the study of optometry has a professional focus, we also provide you with a strong foundation in basic and health science. These skills will enable you to keep up with the expanding role of optometry in providing lifelong eye health and vision care to the community. A particular strength of our programme is its emphasis on inter-professional engagement using our links with allied clinical disciplines such as pharmacy and ophthalmology. Our students undertake extensive “work-integrated” learning in private practice, hospital clinics and through our student-led vision screening programme in Greater Auckland schools. The School of Optometry and Vision Science occupies modern space (overlooking the Auckland Domain) incorporating its own Eye Clinic, teaching laboratories (including a virtual reality simulation suite) and state-of-the-art research facilities.

Whether you are a student starting out in our BOptom programme or are entering one of our postgraduate programmes, I wish you every success in your endeavours. My staff and I assure you that we will provide you with the support you need to achieve your goals.

Ngā mihi

PROFESSOR STEVEN DAKIN
Head, School of Optometry and Vision Science
Faculty of Medical and Health Sciences
The University of Auckland

Achieve the Amazing
Optometry as a career

As a primary health care professional, an optometrist is specifically educated and clinically trained to examine the eyes and the integrity of the visual pathways, to diagnose visual problems or impairments, and to prescribe and provide treatment. After thorough examination, often using advanced instruments, the optometrist must make appropriate diagnoses and decide how various defects should be remedied, managed and treated. Optometrists work with other health professionals including general medical practitioners and ophthalmologists to ensure the best eye and vision health outcomes.

With the current emphasis on good health and disease prevention, and the increased demands for vision care made by an ageing population, there is a continuing need for highly qualified optometrists, particularly away from major population centres. Optometrists must be able to communicate easily and effectively, particularly when providing special services to children, the elderly, and the partially sighted. Students considering optometry as a career should possess a genuine desire to help people.

Optometry offers the opportunity to join a profession that is both personally challenging and financially rewarding. The majority of optometrists enter private practice. This offers favourable working conditions, regular hours without excessive emergency calls, the freedom to choose where to live and practise and the opportunity to concentrate on clinical areas of particular interest. Optometrists may also practise in hospitals and clinics, or pursue careers in research and in the industry. Opportunities also exist for those wishing to undertake postgraduate education, research and teaching, not only in New Zealand but also at overseas universities.

Completion of the University of Auckland BOptom programme will enable a graduate to apply for registration to practise as an optometrist in New Zealand, Australia and Malaysia. In the United Kingdom, additional examinations must be completed before full registration can be gained. If you wish to practise in other countries, including Canada and the USA, you need to enquire with each country’s Optometry Registration Board about their specific registration requirements.

New Zealand Graduates

The qualification required for registration in New Zealand as an Optometrist is the Bachelor of Optometry (BOptom) degree from Auckland. From the time that students pass the final examinations in the BOptom programme until they have their degree conferred, students must hold a Provisional Registration certificate before they may engage in optometric practice. To apply for provisional registration, the NZ Optometrists and Dispensing Opticians Registration Board requires an official academic transcript from the University. This must be applied for through Student Records in the ClockTower or online through Student Services Online (SSO).

Overseas Graduates

Optometrists who have completed their Optometry degree overseas should contact the New Zealand Optometrists and Dispensing Opticians Registration Board to enquire about eligibility of their qualification as being suitable for registration in New Zealand. Currently it is possible for optometrists with certain overseas degrees in optometry to sit the competency examinations conducted by the Optometry Council of Australia and New Zealand. Those completing this examination are eligible to apply for registration to practise in New Zealand. Alternatively, overseas optometrists may complete the five-year BOptom degree at Auckland. If entry into the Auckland BOptom programme is granted, credit may be given for previous study.

Website: www.ocanz.org

New Zealand Postgraduate Diplomas, Masters or PhD qualifications in Optometry or in Vision Science are not accepted for registration as an Optometrist in New Zealand.

Optometry practice in New Zealand

"I have always been interested in pursuing a health profession and for me, optometry was the ideal choice. Optometry has a fantastic balance between healthcare, general science and patient interaction – which greatly appealed. I love meeting many different types of people and helping them reach their visual goals.

"We have a wide variety of patient exposures through the time we spend in our clinics, hospitals, and other external locations. We are taught by some of the world’s leading researchers in the field of visual science – providing us with invaluable skills and promoting our critical thinking.

"The future of optometry is an exciting one – there are huge improvements in technology and our scope of practice is continuously expanding and evolving. Our ability to prescribe not only spectacle correction but also appropriate medications makes this a challenging yet rewarding profession. I am excited as to where optometry will take me in the future.

Bianca Davidson,
Part V Bachelor of Optometry student
Faculty of Medical and Health Sciences

The School of Optometry and Vision Science is located in Building 503, Level 3
The University of Auckland
Grafton Campus
85 Park Road
Grafton
Auckland 1093

Postal Address
School of Optometry and Vision Science
Faculty of Medical and Health Sciences
The University of Auckland
Private Bag 90119
Auckland 1142, New Zealand
Phone: +64 9 323 6483
Email: manager-optometry@auckland.ac.nz
Website: www.optometry.auckland.ac.nz

Programmes

- Postgraduate Diploma in Science (Optometry)
- Master of Health Science (MHSc)
- Master of Science (MSc)

The School of Optometry and Vision Science is responsible for conducting the five-year Bachelor of Optometry (BOptom) programme and postgraduate programmes leading to the degrees of:
- Master of Science (MSc)
- Master of Health Science (MHSc)
- Doctor of Philosophy (PhD)
- Postgraduate Diploma in Science (Optometry)

Staff also offer Continuing Education programmes.

Facilities

In addition to excellent teaching and laboratory facilities, clinical teaching facilities are located on the Grafton Campus, and on the Tamaki campus in East Auckland. These provide an ideal environment for training students in the first two years of the Bachelor of Optometry degree.

Students are given the opportunity of not only using the latest optometric equipment, but also gaining hands-on experience in the use of advanced imaging techniques that have become a standard part of patient examinations and report preparation.

The major role of the Optometry Clinic is to provide a wide range of patient care to students as part of the teaching of senior undergraduate students. Students work under the supervision of registered optometrists and carry out a wide range of vision and eye care examinations. It is important for students to examine as wide a range of patients as possible to enable them to develop their clinical judgment and management skills. This may mean prescribing spectacles, contact lenses or low vision aids; managing eye diseases with both topical and oral medicines; treating eye disorders with exercises or giving advice on lighting and screen based equipment. Where necessary, patients are referred to medical practitioners.

The Optometry Clinics are “teaching laboratories” and in addition to observing the ethical guidelines for clinical teaching, students must maintain a high standard of dress and behaviour.

Reflecting the importance of clinical training for Optometry students, the University of Auckland provides twenty-four examination and four specialist consulting rooms. Patients include staff and students of the University as well as members of the general public. Additional valuable experience is gained by attending the Eye Department at the Greenlane Clinical Centre of the Auckland District Health Board, Watauere hospital, and other ophthalmology practices. During their final year, students are expected to spend time in approved externship locations. These might include optometric practices, optometry schools, hospitals or other institutions in New Zealand and overseas.

Admission criteria for the BOptom

New Zealand and Australian Citizens and Permanent Residents

Entry to Part I of the programme is limited. Applications close on 1 October 2017 for 2018 places. Applicants are considered through one of two entry pathways: the undergraduate entry pathway or the graduate entry pathway.

Five places are available through the MAPAS pathway for applicants of Māori and/or Pacific Island descent if they meet the required criteria. Up to five places are available for applicants who meet the Regional Admission requirements.

General admission enquiries

Email: fmhs@auckland.ac.nz
Website: www.fmhs.auckland.ac.nz

Māori and Pacific Admission Scheme (MAPAS)

 Applicants must complete the first year of the Bachelor of Science (Biomedical Science) degree at the University of Auckland or equivalent from the University of Otago, or have completed a bachelor degree and apply as a graduate.

An interview is required which will assess personal attributes considered to be important for a career in optometry.

- Stage 1 BSc (Biomedical Science) and Alternative Admission applicants applying to Optometry under MAPAS will be required to attend a MAPAS Optometry Interview in December.
- The MAPAS Optometry interview will assess each candidate using six domains - academic, whānau/family, culture, problem solving, awareness and knowledge of MAPAS. This interview will be with a MAPAS academic representative.
- Following confirmation of their MAPAS eligibility, applicants’ academic records will be subject to consideration by the Optometry Admissions Committee.

Selection process

Applications through this entry pathway will be ranked on their GPA/GPE equivalents across the six prerequisite courses. Interviews will be required and will be offered to those who meet the minimum requirements. These will be conducted in late November and early December. Selection is based on both the GPA/GPE and the interview outcome.

Undergraduate entry pathway

This pathway is open to applicants who are New Zealand Citizens, or have permanent resident status, and who have completed the following six pre-requisite courses at the University of Auckland. These courses are usually taken within the BSc – Biomedical Science programme:

- BODSCI 101 Essential Biology
- From Genomes to Organisms
- Semester One
- BODSCI 107 Biology for Biomedical Science
- Cellular Processes and Development
- Semester One
- BODSCI 106 Foundations of Biochemistry
- Semester Two
- CHEM 110 Chemistry of the Living World
- Semester One
- Semester Two
- PHYSICS 160 Physics for the Life Sciences
- Semester One
- Semester Two
- MEDSCI 142 Biology for Biomedical Science
- Organ Systems
- Semester Two

The additional 30 points of courses required for full time enrolment can be completed from any other courses listed in the Bachelor of Science schedule. POPHLTH111 is recommended as part of these 30 points, along with a 15-point General Education course.

It is currently possible to undertake an equivalent first year at Otago University by completing their Health Sciences First Year Programme. The required Otago papers are: BIOC 192, CELS 191, CHEM 191, PUBH 192, HUBS 191, HUBS 192 and PHI 191.

Other New Zealand universities do not currently offer equivalent courses at first year level.

Selection process

Applicants through this entry pathway will be ranked on their GPA/GPE equivalents across the six prerequisite courses. Interviews will be required and will be offered to those who meet the minimum requirements. These will be conducted in late November and early December. Selection is based on both the GPA/GPE and the interview outcome.

It is usual for the University to receive application numbers considerably in excess of the number of places so selection is very competitive. The current Grade Point Average for successful applicants is at least 6.0. Therefore, students enrolling in the first year Biomedical Science programme will need to achieve high grades to be considered for entry to the BOptom.

Graduate entry pathway

This pathway is available for graduates with Bachelor Degrees. Please consult the Faculty of Medical and Health Sciences Student Centre for details of preferred degrees (usually science-based) and for advice if your degree is not recent.

Selection process

Interviews will be required and offered to those who meet the minimum requirement. These will be conducted in late November/early December. Selection is based on both the GPA/GPE and the interview outcome.

International students

The Bachelor of Optometry degree is available to overseas students who meet the criteria set by the University of Auckland. Applications are considered throughout the year and offers of places can be through either the undergraduate or graduate entry pathways.

For more information students should contact:
Auckland International
The University of Auckland
Private Bag 90019
Auckland 1142
New Zealand
Phone: +64 9 373 7513
Fax: +64 9 373 7465
Email: int-questions@auckland.ac.nz

Regional/Rural Admission Scheme

Students wishing to apply under the Regional/Rural Entry category must provide evidence of their regional/rural origin as specified at:

www.fmhs.auckland.ac.nz/rras
Overview of Bachelor of Optometry degree
The Bachelor of Optometry programme is a set programme that consists of five years of undergraduate study at the University of Auckland.

The first year, Part I, comprises the six prerequisite courses from the BSc Biomedical Science first year and the 30 points of other courses detailed below.

Details about the BSc Biomedical Science first year can be found at: www.science.auckland.ac.nz/biomedsci-ug

Parts II and III of the programme contain a mixture of courses in applicable life-sciences and vision science and the basic optometric sciences (the courses are listed below).

Parts IV and V of the programme are largely devoted to clinical practice, including comprehensive eye examinations, clinics in eye disease, contact lens fitting, problems of the partially sighted, colour vision assessment and binocular vision problems.

The BOptom degree may be awarded with Honours where a student’s grades for Parts II, IV and V are sufficiently high. There are two classes of honours: First Class Honours and Second Class Honours. Second Class Honours are awarded in either First Division or Second Division.

Important BOptom regulations (from the University Calendar)
"The BOptom programme has a fixed schedule of courses. When you enrol for any Part of the Programme, you should enrol for all the courses listed under that Part, as shown below.

"Each Part must normally be completed before the next Part may be taken. However a student who has failed to pass one of those Parts in its entirety may be allowed, at the discretion of Senate or its representative, to enrol for the course or courses needed to complete that Part together with a course(s) towards the next Part.

"The BOptom degree must be pursued in consecutive semesters. Interrupted study may be resumed only with the approval of, and on conditions set by, Senate or its representative."

Points structure
The Bachelor of Optometry is a five year degree (610 points). The courses completed under BSc (Biomedical Science) prior to selection for Part II of the degree are transferred to the BOptom if you are selected. These form all of Part I if you have completed 120 points.

A student must pass a total of 600 points (including the required number of points in General Education Courses if applicable) over the entire BOptom programme to graduate with a BOptom degree.

Credit and concessions for students entering the BOptom
Please refer to the Credit regulations in the University of Auckland Calendar.

- If you are transferring from another NZ university.
- If you have undertaken previous study at Auckland and apply for credit at the time of enrolment.
- If you are an International Student, credit will be assessed and granted at time of application.

Structure of the Bachelor of Optometry degree
The University of Auckland academic year consists of two semesters. Some courses are run over both semesters and are labelled A & B accordingly. To complete these double semester courses, students must enrol in both A & B courses.

BOptom Part I
On entering Part II of the degree, a student must have taken or have been credited 120 points of courses as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOSCI 101</td>
<td>Essential Biology: From Genomes to Organisms</td>
<td>15 pts</td>
</tr>
<tr>
<td>BIOSCI 106</td>
<td>Foundations of Biochemistry</td>
<td>15 pts</td>
</tr>
<tr>
<td>BIOSCI 107</td>
<td>Biology for Biomedical Science: Cellular Processes and Development</td>
<td>15 pts</td>
</tr>
<tr>
<td>CHEM 110</td>
<td>Chemistry of the Living World</td>
<td>15 pts</td>
</tr>
<tr>
<td>PHYSICS 160</td>
<td>Physics for the Life Science</td>
<td>15 pts</td>
</tr>
<tr>
<td>MEDSCI 142</td>
<td>Biology for Biomedical Science: Organ Systems</td>
<td>15 pts</td>
</tr>
</tbody>
</table>

Students must take all of the following courses:

- 15 points from General Education courses listed in the Open or EMHSS Schedule.
- 15 points from POPHLTH 111 or from the BSc schedule compatible with the Biomedical Science programme.

BOptom Part II
A student must take all of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPTOM 216</td>
<td>Introduction to Optometry</td>
<td>30 pts</td>
</tr>
<tr>
<td>OPTOM 263</td>
<td>Essential Optics</td>
<td>30 pts</td>
</tr>
<tr>
<td>MEDSCI 203</td>
<td>Mechanisms of Diseases</td>
<td>15 pts</td>
</tr>
</tbody>
</table>

Students must take all of the following courses:

- 15 points General Education Course (see note under Part I).

Please note: Students who have passed any of the above courses prior to the entry into BOptom, must cross credit, reassign or credit the course to BOptom. Students may be required to take an alternative course – please consult the Faculty Student Centre for details.

BOptom Part III
A student must take all of the following courses:

<table>
<thead>
<tr>
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<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPTOM 316</td>
<td>Optometry</td>
<td>60 pts</td>
</tr>
<tr>
<td>OPTOM 345</td>
<td>Principles of Ocular Pharmacology</td>
<td>15 pts</td>
</tr>
<tr>
<td>OPTOM 353</td>
<td>Ocular Pathology</td>
<td>15 pts</td>
</tr>
<tr>
<td>OPTOM 375</td>
<td>Visual Science 2</td>
<td>15 pts</td>
</tr>
<tr>
<td>MEDSCI 302</td>
<td>Microbiology and Immunology</td>
<td>15 pts</td>
</tr>
</tbody>
</table>

BOptom Part IV
A student must take all of the following courses:

<table>
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<th>Course Code</th>
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<th>Points</th>
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<tbody>
<tr>
<td>OPTOM 416</td>
<td>Clinical Optometry</td>
<td>30 pts</td>
</tr>
<tr>
<td>OPTOM 430</td>
<td>Contact Lens Practice</td>
<td>15 pts</td>
</tr>
<tr>
<td>OPTOM 443</td>
<td>Ophthalmological Special Populations</td>
<td>15 pts</td>
</tr>
<tr>
<td>OPTOM 450</td>
<td>Diseases of the Eye and Visual System: Diagnosis and Management</td>
<td>15 pts</td>
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"Throughout my life I have always been curious as to how the eye works, and have wanted a career in healthcare."

"For me, the BOptom programme combines my interest in science and clinical skills, which has meant I am enthusiastic about my courses and look forward to applying these skills in real life."

Aimee Aitken
Studying towards the Bachelor of Optometry

BOptom Part V
A student must take all of the following courses:

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<tr>
<td>OPTOM 510</td>
<td>Advanced Clinical Optometry 1</td>
<td>30 pts</td>
</tr>
<tr>
<td>OPTOM 520</td>
<td>Advanced Clinical Optometry 2</td>
<td>30 pts</td>
</tr>
<tr>
<td>OPTOM 540</td>
<td>Optometry in Practice</td>
<td>30 pts</td>
</tr>
<tr>
<td>OPTOM 570</td>
<td>Research in Advanced Optometric Science</td>
<td>30 pts</td>
</tr>
</tbody>
</table>

Undergraduate programme information

"Studying towards the Bachelor of Optometry"
Aimee Aitken

"Throughout my life I have always been curious as to how the eye works, and have wanted a career in healthcare."

"For me, the BOptom programme combines my interest in science and clinical skills, which has meant I am enthusiastic about my courses and look forward to applying these skills in real life."

Aimee Aitken
Studying towards the Bachelor of Optometry

BOptom Part V
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<tr>
<td>OPTOM 520</td>
<td>Advanced Clinical Optometry 2</td>
<td>30 pts</td>
</tr>
<tr>
<td>OPTOM 540</td>
<td>Optometry in Practice</td>
<td>30 pts</td>
</tr>
<tr>
<td>OPTOM 570</td>
<td>Research in Advanced Optometric Science</td>
<td>30 pts</td>
</tr>
</tbody>
</table>
The University of Auckland academic year consists of two semesters. Most courses are run over both semesters and are labelled A & B accordingly. To complete these double semester courses, students must enrol in both A & B courses.

Bachelor of Optometry Part II

OPTOM 216 A & B 30 pts
Introduction to Optometry
Semester One and Semester Two
A clinically focused course introducing students to optometric practice and addressing, at an introductory level, the ethical, cultural, theoretical and clinical aspects of the optometric examination.
Topics covered include: preliminary tests from the eye examination, communication skills and clinical problem solving. The course will emphasise assessment, utilising advanced equipment and the production of clinically relevant outcomes and diagnosis-supportive hypotheses.
Restriction: OPTOM 920
Course Coordinators: Dr Elshan Vaghefi and Dr Phil Turnbull
OPTOM 263 A & B 30 pts
Essential Optics
Semester One and Semester Two
An introduction to optics relevant to optometry and necessary to understand the optical performance of the eye, the design of ophthalmic lens applications, and the principles of operation of clinical instrumentation. Topics include: the basic principles of physical optics, the principles of image formation by lenses and lens systems mirrors and prisms, optics of the eye, ocular accommodation and aberrations.
Restriction: OPTOM 315, 262, 265
Course Coordinators: Dr Elshan Vaghefi and Dr Jason Tunohara
OPTOM 272 A & B 30 pts
Visual Science I: Structure and Function of the Visual System
Semester One and Semester Two
Anatomy and physiology of the eye and visual pathway covering topics ranging from the composition and structure of the isar film through to neural processing in the visual cortex. Aspects of visual function including spatial and temporal vision, motion perception and colour vision. Investigation of visual perception using psychophysical and electrophysiological techniques.
Restriction: OPTOM 151, 170, 171
Course Coordinator: Dr Monica Acosta
OPTOM 292 A & B 15 pts
Issues in Optometry
Semester One and Semester Two
Topics of special interest to students entering Optometry from overseas and from the graduate entry quota.
This is not a compulsory course.
Prerequisite: Permission of Head of School
MEDSCI 203 15 pts
Mechanisms of Disease
Semester One
Pathogenesis of various types of disease at the molecular, cellular and tissue levels.
Provides an introduction to: cell injury, inflammation, healing, neoplasia and circulatory disturbances, and includes the pathogenesis of selected specific diseases which are common in New Zealand or are the focus of current biomedical research.
Course Coordinator: Dr Graeme Finlay
Bachelor of Optometry Part III

OPTOM 316 A & B 60 pts
Optometry
Semester One and Semester Two
An integrative approach to the scope of optometric practice, addressing both the theoretical basis and clinical practice of the optometric examination, correction of refractive error and dispensing of optical appliances. Topics covered include: visual acuity, visual fields, colour vision, biomicroscopy, ophthalmoscopy, refractive examination, binocular examination, optical correction, lens materials and coatings, history taking, communication skills and clinical problem solving.
Restriction: OPTOM 311, 312, 313, 314, 265, 365, 366
Course Coordinator: Melinda Calderwood

OPTOM 345 A & B 15 pts
Principles of Ocular Pharmacology: General Principles of Pharmacology
Semester One and Semester Two
Prerequisite: OPTOM 920
Restriction: OPTOM 945
Course Coordinators: Dr John Philips and Dr Bruce Russell
OPTOM 353 A & B 15 pts
Ocular Pathology
Semester One and Semester Two
Restriction: OPTOM 951
Course Coordinator: Dr John Philips
OPTOM 375 A & B 15 pts
Visual Science 2
Semester One and Semester Two
To provide an understanding of visual information processing in human brain. In particular the cortical processing of shape, motion and colour, and development of the visual cortex will be addressed. A problem-oriented approach will develop critical thinking and problem solving skills. Students will acquire the ability to seek, evaluate and retrieve scientific information on which to base their clinical practice.
Course Coordinator: Dr Milica Vorojbyev

OPTOM 392 A & B 15 pts
Issues in Optometry 2
Semester One and Semester Two
Topics of special interest to students entering Optometry from overseas and from the graduate entry quota.
This is not a compulsory course.
Prerequisite: Permission of Head of School
MEDSCI 303 15 pts
Microbiology and Immunology
Semester One
An introduction to the nature and role of bacteria, viruses, fungi and parasites as the causative agents of human disease.
The defence mechanisms of the body, the immune system including autoimmunity and allergy. Control of disease by antimicrobials. Sterilisation, disinfection, and sterile manufacturing practice.
Course Coordinator: Associate Professor Geoffrey Knissansen

Bachelor of Optometry Part IV

OPTOM 416 A & B 30 pts
Clinical Optometry
Semester One and Semester Two
This course facilitates the transition from student to professional optometrist. Topics addressed include: structuring the routine optometric examination in a clinical setting, diagnosis and management of disorders of the visual system, case analysis, myopia control, visual ergonomics, vision screening, and visual standards. This course culminates in students examining and managing clients in the public University Clinics under supervision.
Restriction: OPTOM 312, 415
Course Coordinator: Bhav Solanki

The best part of all about this profession is that building long-lasting relationships with faculty and your classmates. These relationships are great resources to turn to throughout your career.

“There is no doubt that eyes are one of the most important parts of the body and vision is the most precious sense we have.”

“After the final year of optometry programme, I am excited and proud to dedicate my life to preserving the vision and health of others.”

Mimi Park
Part 1 Bachelor of Optometry student
Contact Lens Practice
Semester One and Semester Two
Restriction: OPTOM 430 A & B
Course Coordinator: Dr Wanda Lam

Optometry for Special Populations
Semester One and Semester Two
An advanced consideration of the anatomy, physiology and modelling of normal and abnormal eye movement systems. Topics include: developmental aspects of infant and children's vision and eye coordination, visual examination of infant and child patients, investigation and management of strabismus and acquired bicanocular eye movement disorders. This course also explores the diagnosis and management of ocular and visual problems in the elderly including electronic, optical and non-optical low vision appliances.
Restriction: OPTOM 441 A & B
Course Coordinators: Dr Joanna Black

Diseases of the Eye and Visual System: Diagnosis and Management
Semester One and Semester Two
Signs, symptoms and diagnosis of diseases of the eye, ocular adnexa and visual system, including neurological dysfunction and signs of systemic disease. Management of diseases of eye, ocular adnexa and visual system, including the use of therapeutic agents. Indications, contraindications and side effects of therapeutic agents for the treatment of ocular disease.
Restriction: OPTOM 450 A & B
Course Coordinator: Andrew Collins

Optometry 430 A & B
15 pts

Optometry 472 A & B
15 pts

Visual Science 3
Semester One and Semester Two
To provide an understanding of visual information processing by the visual pathways (retino-geniculo-striate system) and the physiology of other ocular components. A problem-oriented approach, which develops students' skills in reading, analysing and debating scientific papers in the vision sciences, will be used to achieve a high level of critical thinking and problem solving skills. It is expected that students will acquire the ability to seek, evaluate and retrieve scientific information on which to base their clinical practice. Clear and concise communication of scientific information both in written and oral form will be required.
Restriction: OPTOM 430 A & B
Course Coordinator: Dr Misha Vorobyev

Optometry 492 A & B
15 pts

Issues in Optometry 3
Semester One and Semester Two
Topics of special interest to students entering Optometry from overseas and from the graduate entry quota. This is not a compulsory course.
Prerequisite: Permission of Head of School

Bachelor of Optometry Part V

Optometry 510 A & B
30 pts

Advanced Clinical Optometry 1
Semester One and Semester Two
Clinical work with responsibility, under supervision, for patients.
Restriction: OPTOM 410
Course Coordinator: Jonathan Payne

Optometry 520 A & B
30 pts

Advanced Clinical Optometry 2
Semester One and Semester Two
Clinical work with greater emphasis on particular areas in optometry including contact lenses, low vision, binocular vision, paediatric optometry and practice management.
Restriction: OPTOM 490
Course Coordinator: Dr Garant Phillips

Optometry 560 A & B
30 pts

Optometry in Practice
Semester One and Semester Two
Supervised clinical work in locations external to the Medicine and Health Science Campus Optometry Clinic. These locations may include University satellite clinics, private optometry practices, hospital eye departments, overseas institutions, or experience in other approved locations.
Restriction: OPTOM 410
Course Coordinator: Dr Garant Phillips

Research in Advanced Optometric Science
Semester One and Semester Two
Study modules on a range of topics in optometry and vision science, with the focus being on developing an evidence-based approach on selected topics. Study will include supervised investigations into an approved topic relating to optometry and vision science, including clinical and applied research.
Prerequisite: Enrolment in part IV of the Optometry Program.
Restriction: OPTOM 470, 475, 490
Course Coordinator: Dr Monica Acosta

Optometry 592 A & B
15 pts

Issues in Optometry 4
Semester One and Semester Two
Topics of special interest to students entering Optometry from overseas and from the graduate entry quota. This is not a compulsory course.
Prerequisite: Permission of Head of School

Important information for undergraduates

Additional costs (equipment, instruments, insurance and books)
The total cost of pursuing the undergraduate programme in Optometry, will be more than the tuition and student service fees. Additional costs include the purchase of essential equipment, instruments and prescribed texts. Current estimates of these additional costs are as follows:
- Optometry Part I: $1000
- Optometry Part II: $3500
- Optometry Part IV: $5000
- Optometry Part V: $1000

For Parts IV and V, there is also a Professional Indemnity (PI) insurance at a per annum cost of approximately $70 to $130 and Professional Association Fees of approximately $10.

In addition, students should budget for personal photocopying, stationery and other books. These costs can be from around $500 per year.

Identity Check, Police Vetting, Vulnerable Children Act and Confidentiality Agreement

During Part I, in advance of entering Part IV of the BOptom programme, it is necessary for students to obtain an identity check and Police Clearance. Students must also agree to maintain the confidentiality of patient information.
1. The identity check requires two kinds of identification. The primary ID document must be either a passport or an original birth certificate. Examples of the other form of ID include a driver's licence or an 18+ card. At least one of the forms of ID must include a photograph. If students have changed their name (e.g. by deed poll or marriage) evidence of this must be provided.
2. Faculty staff will obtain the police clearance check for students. Consent forms for these processes need to be completed by students and returned to the school.
3. A signed confidentiality agreement covering patient information is required to be submitted.
4. In addition to identity and police checks, the Vulnerable Children’s Act 2004 requires students who will work with children during their studies, to be interviewed. Questions relating to working with children are asked as part of the applicant interview and identity checking process. When students are invited to the interview process, they are asked to provide the names of referees. If students are offered a place in Optometry, the referees will be asked to complete an online form by early January.

Immunisation and transmission of infectious diseases
As an optometry student, and later as an optometrist, you will be exposed to infection, especially when you have close contact with patients. A compulsory immunisation programme is carried out prior to you entering the clinic in Part III.

As you will be undertaking hospital placements the University of Auckland requires all students to have maximum cover from disease, to protect yourself and patients with whom you may come into contact. All students must be adequately protected against measles, mumps, rubella, pertussis, varicella zoster and Hepatitis B. You will also need to acquire your tuberculosis status. To ascertain immunity and infection status, blood tests will be carried out. Your medical condition will be met by the Faculty if they are conducted through the University Health Services. For those found to have negative immunity, vaccination will be required and you will need to arrange and pay this cost. Note that positive tuberculosis results may require further investigation.

All the test results (including post vaccination results) will be collated on the Immunisation Status Report Form and provided to you. You will then need to submit the completed form to the school.

It is also recommended that students should review immunisations against diphtheria, tetanus and poliomyelitis. It will be helpful to show evidence of the immunisations you have previously had from your doctor so the details can be ascertained and incorporated.

Students are strongly advised to obtain an annual influenza vaccine which is provided free for students in Part I or higher.
For assistance with any immunisation matters please contact:
Grafton Campus
University Student Health Service
Phone: +64 9 219 6692
Please ascertain from your parents or doctor which immunisations you have had. This will help to determine which immunisations you will need now or in the future.

Fitness to practise
The University has a “Code of Practice for Fitness to Practise” that applies to students in the health profession programmes. The goal of the policy and associated processes is to put in place remedial or support mechanisms that will enable the student to remain in the health profession programme wherever possible, and where the proposed remedial action does not place the public, the student or the University at risk either as a student or following graduation. A document describing the code, its policy scope and processes is available on the University website and students are encouraged to familiarise themselves with its contents prior to entering the BOptom programme.
Note that the Health Practitioners’ Competence Assurance Act (2003) places an obligation on the provider of the educational programme to notify the appropriate registration board of any student who is completing their course and who is deemed to be unable to perform the functions required for the practice of that profession due to Fitness to Practice considerations.

Assessment information

Academic progress
Before or at the commencement of the class concerned, students must be informed of the coursework allocations and other decisions on coursework requirements. This should include dates of:
- Tests
- Submission of assignments

Suitable advice will be included in the course information documentation. Any changes to this will be posted on the Learning Management System (Canvas) and advised by your lecturer in class.

A record of these notices is available through Canvas, the computer supported learning environment of the University.

Forms of assessment
It is accepted that assessment is an integral part of any education or training programme. It assesses the learners, students and the public that having gone through a programme of study and subsequently the examinations, the student has achieved the minimum standard of knowledge and skill set by the institution concerned.

In the Bachelor of Optometry programme, assessment takes various forms including final written examinations, written tests during semester, practical tests, oral examinations, oral presentations, written assignments, laboratory reports, clinical examinations etc.

The assessment methods attempt to reflect the variety of skills required of the student and to measure the level of skills attained.

The different assessment methods for courses in the Bachelor of Optometry programme can be generally categorised into those used in basic sciences, clinical sciences and clinical optometry. whereas basic sciences and (to a lesser degree) clinical sciences require minimal people contact, clinical optometry is almost entirely people directed. The skills required in these different areas are not the same. Consequently, the assessment methods reflect this difference:

- Excellent communication skills are vital to the successful completion of the BScOpt degree.
- The grades assigned to written assignments, tests and examinations in all parts of the programme include evaluation of the student’s abilities in written English. The grades assigned in oral and clinical assessments and examinations include evaluation of the student’s abilities to communicate with patients and an evaluation of how well communication skills are displayed.

Weighting
In some courses, several educational goals are desired. It is therefore likely that assessment may take several forms and appropriate weights will be assigned to each assessment method. It is felt that practical skills are the most desired outcome for that course, then the practical tests or examinations will be weighted substantially higher than the written tests or examinations.

Feedback
Formative feedback is usually available for work completed during semester, while end of semester or final examinations are usually summative only and no detailed feedback is provided. Please refer to information about examinations scripts (p.13).

The final grade
The final grade in each course will reflect the degree to which the student has achieved the most desired outcome of the course. The more desired outcome of the course is the ability to do a refraction, then a student who is able to write about doing refraction, but is unable to do one, is likely to have a final grade below the passing mark. Where there are several components in an assessment, which are considered essential outcomes of the course, then failure in any of the components will generate a failure grade for that course. In some courses these essential components are labelled “red-flags” but this is not universal. Excellent performance in other components will not offset a failed essential component.

In summary, crucial outcomes will be weighted more. Information provided at the beginning of the year in the course documents will indicate which outcomes cannot be failed. Failure in any of these desired outcomes will automatically generate a failing (20) grade. Marks from the various components of the assessment are not added together unless the essential components are passed.

Laboratories
Enrollment in laboratory streams on Student Services Online is for administrative purposes only and places in a particular laboratory stream cannot be guaranteed prior to the commencement of a course as we need to ensure all students have access to equipment and teaching staff during laboratory times.

Tutorials, labs and clinic streams will be finalized by the Course Coordinator and confirmed on Canvas early each semester.

Attendance at practical classes, laboratories, clinical streams will be based on the Course Coordinator and confirmed on Canvas early each semester.

Attendance at practical classes, laboratories, clinical streams will be based on the Course Coordinator and confirmed on Canvas early each semester.

Special needs in examinations and assessment
If you believe you have special needs for your examination, please see the FMHS Student Centre in the first instance for advice on the current University requirements for granting of Special Examination Conditions.

Examinations
All coursework marks will be made available via Canvas before the final examinations.

First semester final examinations will be held at the end of semester one. Where a course is run over two semesters (a double semester course), final results will not generally be available until the end of the second semester.

In double semester courses, results from semester one may be available as provisional exam results.

Referring material
The School of Optometry and Vision Science uses the bibliography style as shown in the journal, Clinical & Experimental Optometry, which conforms to the Vancouver style. For example, in the reference list:


Calculators in examinations and tests
The School of Optometry and Vision Science has adopted the following policy on the use of specified calculators in tests and examinations.

Students may use only CASIO FX 82 calculators (any version of FX-82) in tests and examinations. It is the student’s responsibility to supply and maintain the operation and power of their own calculators.

A staff member will inspect all calculators at the start of each test and final examination.

For final examinations, students may use their own calculators (CASIO FX 82 ONLY). Any other models will be confiscated for the duration of the test or final examination.

Books in examinations and tests
Unless the examination is an Open Book, or Restricted Book examination, a candidate must not bring to an examination any written or printed material or any blank paper except by direction of the examiner. Candidates will be informed in the Course Information of specific books or materials allowed for particular examinations.

Special needs in examinations and assessment
If you believe you have special needs for your examination, please see the FMHS Student Centre in the first instance for advice on the current University requirements for granting of Special Examination Conditions.

Deferred results
Where a weakness occurs in the clinical practice component in any of the following Part IV and V courses:

- OPTOM 416A & B Clinical Optometry
- OPTOM 430 A/B Contact Lens Practice
- OPTOM 441 A/B Optometry for Special Populations
- OPTOM 510 A/B & Advanced Clinical Optometry 1
- OPTOM 520 A/B & Advanced Clinical Optometry 2
- OPTOM 560A & B Optometry in Practice

the result of the course or courses will be deferred. In these circumstances, the candidate will be required to complete additional work to the satisfaction of the examiners. The work will be examined the following February. Students will need to enrol in a 10 point summer course, OPTOM414a or OPTOM415Aa and pay the fees for this course.

Recount of marks
By making an application within four weeks from the date of the mailing of a student’s official result of the examinations, any student sitting an examination for a degree, diploma or certificate of proficiency, may have the marks awarded to him/herself recounted in any course in which he/she has failed.

The fee for a recount is listed in the Calendar under Fees Regulations.

A recount of marks can only be requested if the marks recorded by the examiner and ensures that no answer or any portion of an answer submitted by a student has been overlooked. No information pertaining to the application will be placed before the examiner.

Availability of examination scripts
By making an application to the Examinations Office, during the three-month period from the date of the exam, a student may apply for a photocopy of his or her final examination script(s) provided all the assessment processes have been completed and the fees paid. In the fourth month the original script can be requested.

Students are not permitted to seek a remark of the script. If it has been marked, the examiner’s judgement must stand. If a student seeks advice in respect of the script, that advice must not cover detailed discussion with the examiners of particular answers. Broad guidance may, however, be given on the general thrust of the script or on examination technique by the Head of School or by an examiner specified by the Head of School.

Extended teaching year
The structure of Parts II, IV and V of the Optometry programme supports extensive clinical practice and the integrated nature of study reflects the way primary health care operates. As such, the timetable allows for extended semesters and dates of semester dates will be provided to students in a separate document. However, students should be aware of the additional commitments when planning their study. Clinical practice periods will necessitate hours different from standard teaching hours. Events that occur outside standard teaching time including:

- Miin Health – Early – last week of Semester Break (mid-July) for Part III students
- Additional clinical placements for Part IV students – last two weeks of Semester Break (early-mid July)
- Five week clinical intensive between Parts IV and V – two streams – one before Christmas and one commencing late January
- Saturday clinics by rotation for Part V students

Awards of marks and grades
Requirements for Honours
There are ten pass and fail grades as set out below:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Point</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>8</td>
<td>90-100</td>
</tr>
<tr>
<td>A-</td>
<td>7.5</td>
<td>80-84</td>
</tr>
<tr>
<td>B+</td>
<td>7</td>
<td>75-79</td>
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<td>B</td>
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<td>45-49</td>
</tr>
<tr>
<td>D</td>
<td>3</td>
<td>40-44</td>
</tr>
</tbody>
</table>

NB: Pass grades may have different numerical equivalents in the Optometry Clinical Year and in other university Departments.

Applications for agrotot and compassionate consideration
An application may be made for agrotot or compassionate consideration, by candidates who may have been prevented from being present, or an examination, or that their preparation for or performance in an examination has been seriously impaired by temporary illness or injury or exceptional circumstances beyond their control. This also applies to tests, but not assignments.

Application forms are available online, or from the relevant campus Student Health and Counselling Services and Examinations Office (FMHS Student Centre).

The application form must be submitted to the University Health and Counselling Service within one week of the date that the examination affected took place, or if more than one examination has been affected, then within one week of the last of those examinations.

Following the decision of Senate on an application for Agrotot or Compassionate Consideration, a student may apply for reconsideration of that decision no later than four weeks after the student is notified of Senate’s decision.

Please refer to the University of Auckland Calendar for the official regulations.

Missed examinations
Students who discover that they have missed an examination through their own mistake cannot sit the examination at another time. The student must contact the Examinations Office immediately and complete an application for Special Pass Consideration. Please refer to the Examinations Regulations in the Calendar.
Undergraduate scholarships and prizes

New Zealand Association of Optometrists (NZAO) Awards

New Zealand Association of Optometrists Undergraduate Awards will be awarded annually to students enrolled for the Bachelor of Optometry Programme and ordinarily resident in New Zealand.

- One Award of $1,000 to be presented to the top student entering BOptom Part III with the highest aggregate mark in Part III whilst not repeating Part II.
- Two Awards of $1,000 - each one to be presented to a student entering BOptom Part IV. One Award will be made to the student gaining the highest aggregate mark in Part III whilst not repeating Part II; and one award will be made to the student showing most improvement during study for Part III whilst not repeating Part II.
- Three Awards of $1,000 - each one to be presented to a student entering BOptom Part V. Two Awards will be made to the students gaining the top two aggregate marks in Part III whilst not repeating Part II; and one award will be made to the student showing most improvement during study for Part III whilst not repeating Part IV.
- One Award of $1,000 to be presented to a Māori/Pacific Island student entering BOptom Part II in the event of more than one Māori/Pacific Island student entering BOptom Part II, the award will go to the eligible student gaining the highest GPE in the previous year.
- The Peg Wood Award of $500 - awarded to the student who obtains the highest combined grade in the course OPTOM 441 Optometry for Special Populations, of the Bachelor of Optometry Programme.

No applications for the above awards are necessary.

Other Awards

Dean’s Medal

This award is made to a graduand who makes an outstanding contribution to the academic development of the faculty during their optometry studies.

Senior Scholar

These $500 awards are made by the University Council, on the recommendation of the Head of School of Optometry and Vision to students who are eligible to graduate with an undergraduate degree and have achieved the top GHPs over their last 90 or more points of their degree.

To be eligible recipients must have achieved a minimum GHP of 6.5 or at least an A- average across their courses in Part V.

Anna Pritchard Prize for Optical Dispensing

This award of $500 is made to the student who achieves the highest grade in the course OPTOM 570 Dispensing.

Raymond Harry Hawkins Prize

This award is for the best project in Course OPTOM 570 to the value of $500.

New Zealand College of Optometrists (NZCO) Prize

This award will be awarded annually to full-time students achieving the highest marks for their presentations in Course OPTOM 570. The prizes will be of the value of $1200 and $50. First Prize of $100 for each member of the winning group. Second Prize of $50 for each member of the second group. In the event of a tie, the Head of School of Optometry and Vision Science shall determine if the prizes may be shared.

Undergraduate Scholarships

Westfund Health

Westfund health offer a scholarship to provide travel, accommodation and expenses for Part V students participating in an externship offered by Westfund Health in Australia. Details are published to Part V students. Applications close at the end of March.

Summer Research

- New Zealand Optometric Vision Research Foundation (NZOVRF) Scholarship
- NZOVRF provides funds for local research and vision care projects. Each year the NZOVRF awards one student a scholarship of $5,000. The student must undertake an externship under the supervision of a NZAO member. Applications close at the end of February.

- Paul Dunlop Scholarship
- The New Zealand Association of Optometrists (NZAO) established a scholarship to recognise Paul Dunlop’s dedication to the advancement of Optometry and Vision Science Education and Research. Applicants must be an NZAO student member undertaking a summer research project under supervision of the School of Optometry and Vision Science. Applications close at the end of August.

Raymond Harry Hawkins Prize

This award is for the best project in Course OPTOM 570 to the value of $500.

Special Study

- Special Study in Optometry
- Special Study in Vision Science
- Special Study in Dispensing

Postgraduate study

Course prescriptions

- The University of Auckland academic year consists of two semesters. Most courses are run over both semesters and are labelled A & B accordingly. To complete these double semester courses, students must enrol in both A & B courses.

OPTDM 751 A & B

- Special Study in Vision Science
- The study of selected fields of vision science at an advanced level with detailed study of one particular field. The topic will be prescribed by the Head of School.

Course Coordinator: Professor Steven Dakin

OPTDM 752 A & B

- Special Study
- The study of selected fields of optometry at an advanced level with detailed study of one particular field. The topic will be prescribed by the Head of School.

Course Coordinator: Dr Monica Acoosta

Special Study in Optometry

- The study of selected fields of optometry at an advanced level with detailed study of one particular field. The topic will be prescribed by the Head of School.

To complete this course students must enrol in OPTDM 755 A & B.

Postgraduate scholarship in optometry

HC Russell Memorial Postgraduate Scholarship

The New Zealand Association of Optometrists (previously the New Zealand Optometrical Association) established a scholarship in memory of Mr Harry C. Russell in recognition of his services to the advancement of optometric education in New Zealand. The scholarship has a value of $4,500 for a Masters student and $10,000 for a Doctoral candidate who is pursuing full-time postgraduate studies in Optometry or Visual Science.

- To complete this course students must enrol in OPTDM 794 A & B.

OPTDM 759 A & B

- Special Study

Advanced Clinical Optometric Specialisation

- Advanced clinical optometry study in a chosen sub-specialist area of optometric practice. The area of special interest may include contact lenses, low vision, paediatric optometry, binocular vision, ocular disease management, or any other area approved by the Head of School.

To complete this course students must enrol in OPTDM 791 A & B.

Course Coordinator: To be advised

OPTDM 796 MSc A & B

- Thesis in Optometry

- To complete this course students must enrol in OPTDM 796 A & B.

OPTDM 755 A & B

- Special Study

- The study of selected fields of optometry at an advanced level with detailed study of the particular field. The topic will be prescribed by the Head of School.

To complete this course students must enrol in OPTDM 755 A & B.

Course Coordinator: Associate Professor Rob Jacobs

Postgraduate study does not lead to registration (permission to practise) as an optometrist in New Zealand.
Postgraduate programme pathways

Bachelor degree + NZ Registration as an optometrist

Bachelor degree with 2nd Class Hons Div 2 or higher

Bachelor degree with 1st Class Hons or 2nd Class Hons Div 1

PGDipSci 120 pts

MHSc (Clinical) 120 pts

MSC (Research) 120 pts

PhD in Optometry

Postgraduate Diploma in Science (PGDipSci)

This is a one-year postgraduate programme of study comprising a coherent set of courses. BSc graduates, or those who have attained an equivalent qualification approved by Senate, are eligible to apply. The Postgraduate Diploma in Science provides the opportunity to acquire a postgraduate qualification in a specific subject. The Postgraduate Diploma in Science requires the student to pass at least 120 points. The personal programme of study of each student must be approved by the Head of School. A student who successfully completes the requirements for this diploma may apply for entry to the Degree of Master of Science – Optometry, providing the student meets the regulations current at that time. One thesis will be required to complete the Degree of Master of Science – Optometry. The Postgraduate Diploma in Science requires the student to pass at least 120 points and the course of study must be approved by the Head of School. Postgraduate study does not qualify graduates to practise as optometrists in New Zealand.

Degree of Master of Health Science (MHSc)

This is a one-year full-time/two years part-time (120 points) programme open to New Zealand registered optometrists who hold an annual practising certificate. The programme allows practising optometrists to undertake advanced study in a chosen sub-specialist area, eg. advanced contact lens fitting, paediatric optometry and binocular vision, low vision, therapeutic management of eye diseases and clinical application of myopia control. Students are required to pass 120 points from OPTOM 757 – OPTOM 791. Applicants must be registered NZ optometrists. Postgraduate study does not qualify graduates to practise as optometrists in New Zealand.

Degree of Master of Science (MSc)

This is a one year (120 points) or two year (140 points) programme of supervised research. Current areas of research available include clinical, optometry, anatomy and physiology of the lens and retina, visual psychophysics and ocular imaging. Students are required to pass 120 points: OPTOM 796 MSc Thesis. Postgraduate study does not qualify graduates to practise as optometrists in New Zealand.

Degree of Doctor of Philosophy (PhD)

The PhD degree is generally accepted as the appropriate qualification for a career in scientific research or in academia. It consists of advanced study and supervised research leading to the presentation of a thesis. This thesis must be an original contribution to knowledge and must be of a recognised international standard. The course of study is usually undertaken early in one’s research career, following the attainment of a degree with Honours, a Masters degree, or an equivalent research qualification. Postgraduate study does not qualify graduates to practise as optometrists in New Zealand. The PhD statute governs this programme.

Postgraduate Advisors

Dr Monica Acosta
MHSc (PhD)
Email: m.acosta@auckland.ac.nz

Dr John Phillips
MSc (Clinical Research)
Email: j.phillips@auckland.ac.nz

Academic staff and their research interests

Head of School
Professor Steven Dakin
BSc (Hons), PhD
Email: s.dakin@auckland.ac.nz
Phone: +64 9 923 9818

Postgraduate study does not qualify graduates to practise as optometrists in New Zealand.

Academic Director
Samuel Schwarzkopf
BSc (Hons), PhD
Email: s.schwarzkopf@auckland.ac.nz
Phone: +64 9 923 8974

The main goal of Dr Schwarzkopf’s research is to understand how we experience the world around us through our senses. Each person is unique and our perception varies quite dramatically both between and within individuals. For instance, perceptual experience can vary between contexts (visual illusions), across different times, and also simply between locations in the environment. A major part of Dr Schwarzkopf’s research investigates how this variability in perceptual experience arises in the human brain. He combines psychophysical experiments with functional neuroimaging and computational methods for measuring the fine-grained organisation of sensory brain areas. Furthermore, he also explores which non-perceptual factors govern people’s perceptual judgements and decision-making.

In addition to leading to a better knowledge of how perceptual processing works in general, the principles discovered can also advance our understanding of how brains function in different populations or in different clinical conditions. Therefore, Dr Schwarzkopf’s research also studies perception in different healthy populations, in disorders of the visual system (e.g. amblyopia), or in autism spectrum disorders and schizophrenia.

Senior Lecturer
Mona Acosta
BSc, MSc, PhD
Email: m.acosta@auckland.ac.nz
Phone: +64 9 923 6049

Dr Acosta is the Principal Investigator of the Coll and Molecular Biology of the Retina (CBMR) Laboratory. She studies the mechanisms of retinal damage in ocular and neurological diseases. Dr Acosta teaches biomedical topics, vision science, and evidence-based updates in retinal pathology in the B270 Part II Coordinator, Postgraduate Advisor for the PhD and Research Masters programmes. Dr Acosta’s research interest and expertise includes retinal degeneration in neurological diseases. She is a Principal Investigator in the Centre of Research Excellence (CoRE)- Brain Research NZ (Rangihou Rens-Antastia and an investigator in the Centre for Brain Research CBM).
attracted over 1300 citations (245 citations plumage and fish skin. Dr. Vorobyev’s studies, modelling with measuring spectra of biologically ecological significance of diversity of colour vision of man and animals. To understand the psychophysical methods to study colour main theme of our research is the relationship colourful plumage to attract mates. Similarly, insects and birds that pollinate them. Birds use advertise a reward of nectar and pollen to Phone: +64 9 373 7999 ext 83016

Dr Chang is a Lecturer in the School of Optometry and Vision Science. As a researcher, she aims to identify unique characteristics in the eyes of those suffering from neurological disorders, with the goal of early detection to optimise patient outcome. She holds a joint appointment as a Postdoctoral Research Fellow at the Auckland Bioengineering Institute, where her current work involves investigating the movements as an objective measure of assessing visual function in preverbal children and later, in the cognitively impaired population. She also provides vision/ocular health screening as part of an interdisciplinary team in the dementia clinic under the Centre for Brain Research.

Lecturer Hannah Kersten
BSc (Hons), PhD, TPA endorsed

Dr Kersten obtained her BSc (Hons), TPA endorsement degree from the University of Auckland in 2008 and worked in a large private optometric practice for two years. In 2011 she was the junior Optic Nerve Research Fellow in the Department of Ophthalmology at the University of Auckland, working under the supervision of Professor Helen Danaher-Meyer. Hannah commenced her doctoral studies in 2012 and submitted her thesis in 2016. Hannah is currently working as a lecturer in the School of Optometry and Vision Science, a part-time research fellow in the Department of Ophthalmology and a therapeutic optometrist at Eye Institute. She is also an accredited glaucoma prionner. Hannah’s research interests include the use of optometric imaging modalities in neurodegenerative diseases, particularly optical coherence tomography.

Postdoctoral Research Fellows

Lucy Goodman, BSc, MSc, PhD
Catherine Morgan, PhD
Keith R Inns BSc, MBA, PhD
Philip Turnbull BSc, PhD

Lucy commenced her PhD in 2008 at the Auckland Eye Institute. In 2011 she was awarded a Foundation Fellowship from the Foundation for Eye Research New Zealand. Lucy was appointed as a Senior Lecturer in 2016 and has since been awarded the Centre for Research in Vision and Eye Health (CRVEH) Seed Grant and the University of Auckland Doctoral Scholarship. Her research interests include the use of optical coherence tomography (OCT) to investigate the role of the optic disc in glaucoma and other retinal diseases.

Catherine commenced her PhD in 2010 at the Auckland Eye Institute. In 2014 she was awarded a Foundation Fellowship from the Foundation for Eye Research New Zealand. Catherine was appointed as a Senior Lecturer in 2017 and has since been awarded the Centre for Research in Vision and Eye Health (CRVEH) Seed Grant and the University of Auckland Doctoral Scholarship. Her research interests include the use of optical coherence tomography (OCT) to investigate the role of the optic disc in glaucoma and other retinal diseases.

Keith commenced his PhD in 2009 at the Auckland Eye Institute. In 2013 he was awarded a Foundation Fellowship from the Foundation for Eye Research New Zealand. Keith was appointed as a Senior Lecturer in 2017 and has since been awarded the Centre for Research in Vision and Eye Health (CRVEH) Seed Grant and the University of Auckland Doctoral Scholarship. His research interests include the use of optical coherence tomography (OCT) to investigate the role of the optic disc in glaucoma and other retinal diseases.

Philip commenced his PhD in 2010 at the Auckland Eye Institute. In 2013 he was awarded a Foundation Fellowship from the Foundation for Eye Research New Zealand. Philip was appointed as a Senior Lecturer in 2017 and has since been awarded the Centre for Research in Vision and Eye Health (CRVEH) Seed Grant and the University of Auckland Doctoral Scholarship. His research interests include the use of optical coherence tomography (OCT) to investigate the role of the optic disc in glaucoma and other retinal diseases.
Dates to remember

Applications to the University of Auckland should be received no later than the published closing date. If there are places available, applications received after the closing date will be considered on the basis of academic merit.

Closing dates for applications for admission in 2018

<table>
<thead>
<tr>
<th>Courses</th>
<th>Closing Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music – Classical Performance, Jazz Performance, Popular Music majors only</td>
<td>31 August 2017</td>
</tr>
<tr>
<td>Dance Studio, Fine Arts; Medicine (admission into Part II); Optometry (Part II); Pharmacy (Part II)</td>
<td>1 October 2017</td>
</tr>
<tr>
<td>Graduate Diploma in Teaching (Early Childhood Education, Primary and Secondary)</td>
<td>1 November 2017</td>
</tr>
<tr>
<td>Education (Teaching), Law (Part II); Science (Exercise Sciences), Social Work, Sport, Health, and Physical Education; Special Admission, Summer School 2018</td>
<td>9 December 2017</td>
</tr>
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</table>

Courses and Careers Open Day

Experience campus for yourself at our annual open day!

Courses and Careers Open Day is all about discovering the qualifications that are right for you. You’ll learn what you need to get accepted into the University, what it’s like to be a student on campus, and where your study could lead you.

While you’re here, make the most of the opportunity to attend lectures, meet our staff and students, experience our social culture and explore the City Campus.

The full programme will be available online and from your school in July. For more information you can visit www.openday.ac.nz

We look forward to welcoming you to the University on Saturday 2 September 2017.

Academic year 2018*

<table>
<thead>
<tr>
<th>Summer School - 2018</th>
<th>Lectures begin</th>
<th>Auckland Anniversary Day</th>
<th>Waiting Day holiday</th>
<th>Lectures end</th>
<th>Study break/exams</th>
<th>Summer School ends</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Thursday 4 January</td>
<td>Monday 29 January</td>
<td>Tuesday 6 February</td>
<td>Friday 9 February</td>
<td>Study Break - Saturday 10 February</td>
<td>Wednesday 14 February</td>
</tr>
</tbody>
</table>

Semester One – 2018

<table>
<thead>
<tr>
<th>Semester One begins</th>
<th>Monday 26 February</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easter break</td>
<td>Friday 20 March - Tuesday 3 April</td>
</tr>
<tr>
<td>Mid-semester break</td>
<td>Wednesday 4 - Saturday 14 April</td>
</tr>
<tr>
<td>ANZAC Day</td>
<td>Wednesday 25 April</td>
</tr>
<tr>
<td>Graduation</td>
<td>Monday 7, Wednesday 9, Friday 11 May</td>
</tr>
<tr>
<td>Lectures end</td>
<td>Friday 3 June</td>
</tr>
<tr>
<td>Study break/exams</td>
<td>Study Break - Saturday 2 - Wednesday 6 June</td>
</tr>
<tr>
<td>Queen’s Birthday</td>
<td>Monday 4 June</td>
</tr>
<tr>
<td>Semester One ends</td>
<td>Monday 25 June</td>
</tr>
<tr>
<td>Winter semester break</td>
<td>Tuesday 16 June - Saturday 14 July</td>
</tr>
</tbody>
</table>

Semester Two – 2018

<table>
<thead>
<tr>
<th>Semester Two begins</th>
<th>Monday 16 July</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid-semester break</td>
<td>Monday 27 August - Saturday 8 September</td>
</tr>
<tr>
<td>Graduation</td>
<td>Tuesday 25 September</td>
</tr>
<tr>
<td>Labour Day</td>
<td>Monday 22 October</td>
</tr>
<tr>
<td>Lectures end</td>
<td>Friday 19 October</td>
</tr>
<tr>
<td>Study break/exams</td>
<td>Study Break - Saturday 20 October - Wednesday 24 October</td>
</tr>
<tr>
<td>Semester Two ends</td>
<td>Monday 12 November</td>
</tr>
</tbody>
</table>

Semester One – 2019

| Semester One begins | Monday 4 March |

*Start/finish dates vary for some programmes.

Semester One 2017 Orientation welcome

Faculty Orientation: Week beginning 17 July 2017

[Semester Two 2017 begins 26 July]

Semester One 2018 Orientation welcome

Faculty Orientation: Week beginning 10 February 2018

[Semester One 2018 begins 26 February]