

OPTOMETRY_MASTERAALLEN

Welcome to the M.Sc. degree program at Aalen University

Presented by:
Italian Direttore Dr. Andrea Rapino &
Dr. Alessandro Protti & Dr. Emanuele Mocciardini
Prof. Dr. Anna Nagl & Prof. Dr. Antonio Papagni



Hochschule Aalen
Milano-Bicocca
March 6, 2024



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Aalen University

- 5,000 students
- More than 70 nationalities
- 8% international students

- 36 Bachelor Degree Programs
- 28 Master Degree Programs



Campus Burren

- » Lab Building Optometry and Audiology
- » Optics and Mechatronics
- » Electronics / Computer Science
- » Library
- » Innovation Center



Lab Building Optometry and Audiology



AT A GLANCE

Lab Building Optometry and Audiology

» 1750 sqm



ERASMUS EXCHANGE

Lab Building Optometry and Audiology

Welcome ERASMUS
Exchange students



Lab Building Optometry and Audiology

English taught lectures
B.Sc. Optometry

B.Sc. Optometry English taught Lectures



COMPUTER SCIENCE & AI

BUSINESS &
MANAGEMENT

HEALTH &
NATURAL
SCIENCES

GERMAN AS A
FOREIGN LANGUAGE

DESIGN &
COMMUNICATION

INDIVIDUAL
PROJECT

ENGINEERING &
FUTURE
TECHNOLOGIES



Aalen University of Applied Sciences

Course catalogue

Preselection

Academic year

2024/2025

Semester

WS2024/25

Study field

Health | Natural Sciences

Study level

Bachelor

Master

Doctoral
studies

Keyword

Source: https://www.hs-aalen.de/en/pages/aaa_english-taught-lectures

Lab Building Optometry and Audiology

English taught lectures
B.Sc. Optometry

Result

Show entries

| + | Course name | Course no. | Study field |
|---|--|-------------|----------------------------------|
| + | Case Study Business Simulation Optometry and Audiology | 77705 | Health Natural Sciences |
| + | Workshop 2 & Project in Spectacles | 77307 | Health Natural Sciences |
| + | Contact Lens 1 Lab | 77309 | Health Natural Sciences |
| + | Optics Fundamentals | 77102 | Health Natural Sciences |
| + | Subjective Refraction Lab | 77311 | Health Natural Sciences |
| + | Optical and Technical Aspects of Spectacles Lab | 77306 | Gesundheit Naturwissenschaften |
| + | Experimental Optometry Project | 77814 | Gesundheit Naturwissenschaften |
| + | Management Skills for Optometrists | 77007 | Gesundheit Naturwissenschaften |
| + | English Language for Optometrists (Optometry) | 77112+77113 | Gesundheit Naturwissenschaften |
| + | Practical Project 12 ECTS | 4 | Individual |

Source: https://www.hs-aalen.de/en/pages/aaa_english-taught-lectures

Lab Building Optometry and Audiology

English taught lectures
B.Sc. Optometry

B.Sc. Optometry German as a foreign language

- Result

Show entries

| + | Course name | Course no. |
|----------|---|-------------------|
| + | German as a Foreign Language A1 (A1.1+A1.2) | 11111+11112 |
| + | German as a Foreign Language A2 (A2.1+A2.2) | 11113+11114 |
| + | German as a Foreign Language B1 (B1.1+B1.2) | 11121+11122 |
| + | German as a Foreign Language B2 | 11123+11124 |
| + | German as a Foreign Language B2.2-C1.1 | 11132 |

Source: https://www.hs-aalen.de/en/pages/aaa_english-taught-lectures

- 1.
- 2. Master degree program**
- 3.
- 4.
- 5.



20th anniversary

Master's degree program
M.Sc. Vision Science and Business (Optometry)



Excellence in Vision Care



Become an optometrist now

- Accredited and internationally recognised part-time Master of Science
- M.Sc. Vision Science and Business (Optometry)
- Deep insights into the practice of US optometry: two study visits and clinical visits in the USA
- Acquire the skills that optometrists apply to customers on a daily basis in order to sustainably increase customer loyalty
- High practical component of optometric laboratory events
- Exchange with students from different professional fields and countries
- Valuable alumni network



Apply now for the best-practice part-time Optometry Master Degree program at Aalen University

MASTER DEGREE



„To provide and serve the public health needs by enhancing the knowledge of Optometrists to the highest level...“

and having a good time together.



Facts and figures

- Students from 20 different countries from all over the world
Austria, Croatia, Germany, Luxemburg, India, Israel, Italy, Nepal, Pakistan, Palestine, Philippines, Russia, Slovakia, Slovenia, Saudi Arabia, South Africa, South Korea, Switzerland, Syria and Thailand
- Wonderful network with over 200 alumni
„Aalen Friends of Optometry e.V.“

Aalen University offers a unique part time Optometry Master degree

- Part-time study allowing one to practice almost full time: competencies can be applied to everyday practice
- The professors are distinguished optometrists and researchers from renowned US-American Colleges of Optometry
- Clinically orientated lectures with hands-on practical training in a laboratory setting on 1750 square meters in the fantastic laboratory building on Campus Burren
- Practice-oriented exchange of experience with the leading optometrists and Alumni: valuable international career network

...College of Optometry at Pacific University



...The State University of New York (SUNY)



- Ocular Disease
- Pediatric
- Contact Lenses
- Binocular Vision | Vision Therapy | Low Vision
- Comprehensive Eye Exam

⇒ students can choose two clinics
(2 days each)

⇒ **Mid June 2025**

1.

2.

3.

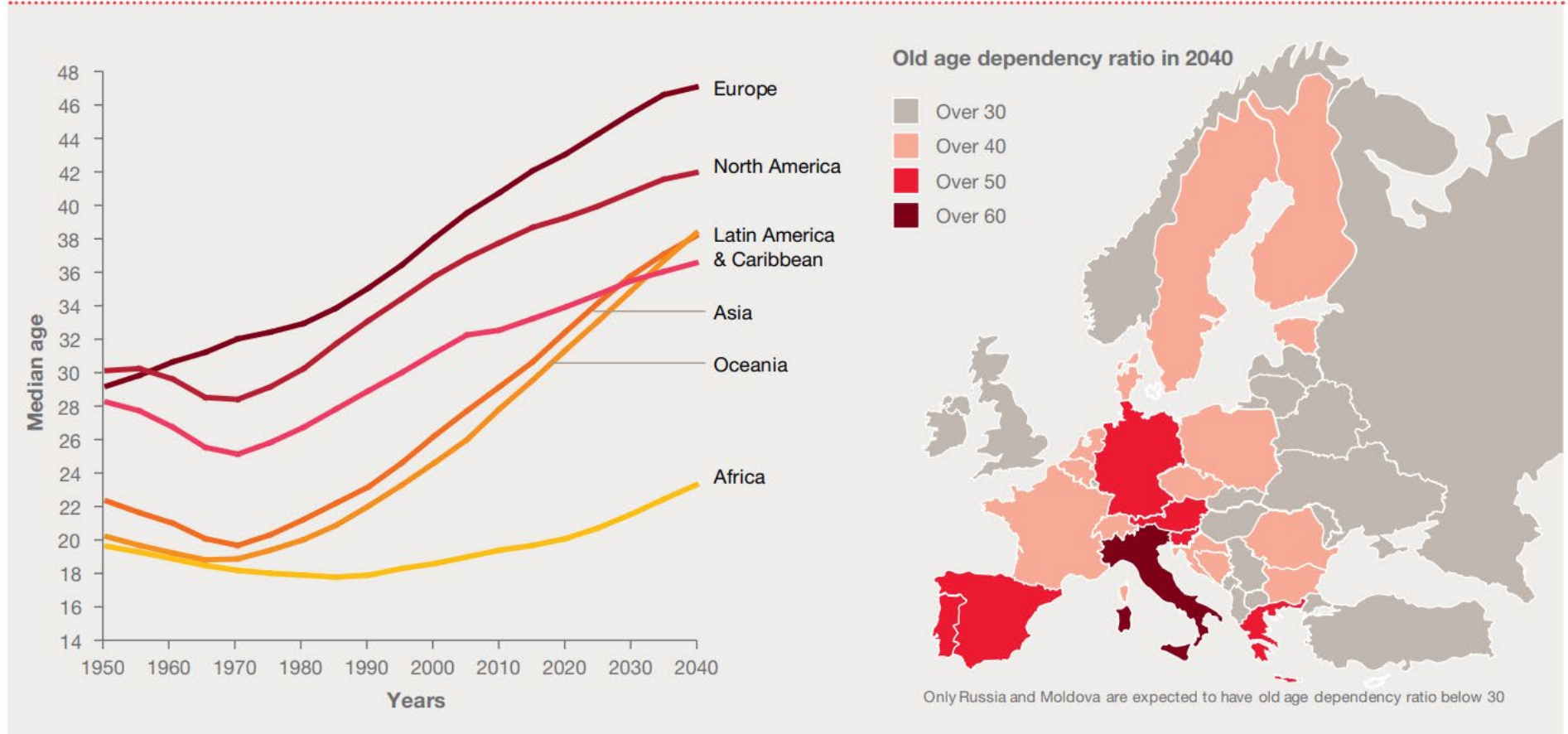
4.

5.

EUROPEAN DIPLOMA (EDO)

Megatrends impacting healthcare: average age

Oldest region in the world



Source: <https://www.pwc.de/de/gesundheitswesen-und-pharma/studie-sherlock-in-health.pdf>

Categories of Optometric Services

| 1. Optical Technology | 2. Visual Function | 3. Ocular Diagnostic | | 4. Ocular Therapeutic |
|---|---|---|---|---|
| | | a. Without drugs | b. With drugs | |
| <ul style="list-style-type: none"> • Dispensing | <ul style="list-style-type: none"> • Dispensing • Refraction • Binocular functions | <ul style="list-style-type: none"> • Dispensing • Refraction • Binocular functions • Screening for eye disease | <ul style="list-style-type: none"> • Dispensing • Refraction • Binocular functions • Diagnosis of eye disease with drugs | <ul style="list-style-type: none"> • Dispensing • Refraction • Binocular functions • Diagnosis of eye disease using drugs • Treatment of eye disease with drugs |

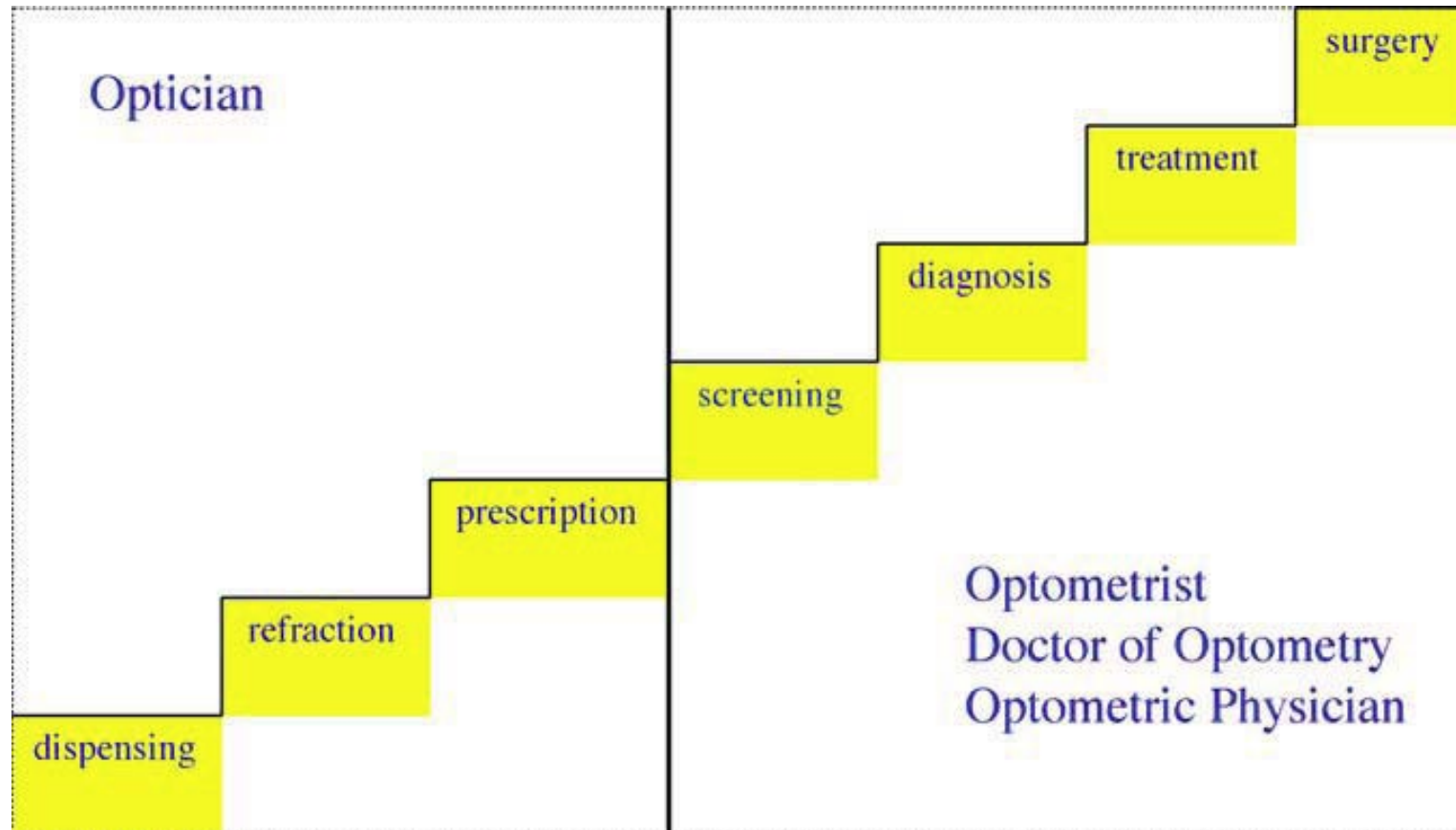
Source: Naroo, S. A., & Grit, F. (2009). Optometry and optics in Europe: 101-102

| | | | | |
|-----------------------|--------------------|----------------------|---------------|-----------------------|
| 1. Optical Technology | 2. Visual Function | 3. Ocular Diagnostic | | 4. Ocular Therapeutic |
| | | a. Without drugs | b. With drugs | |

CATEGORIES OF COUNTRIES BASED ON ADAPTED WCO COMPETENCY MODEL

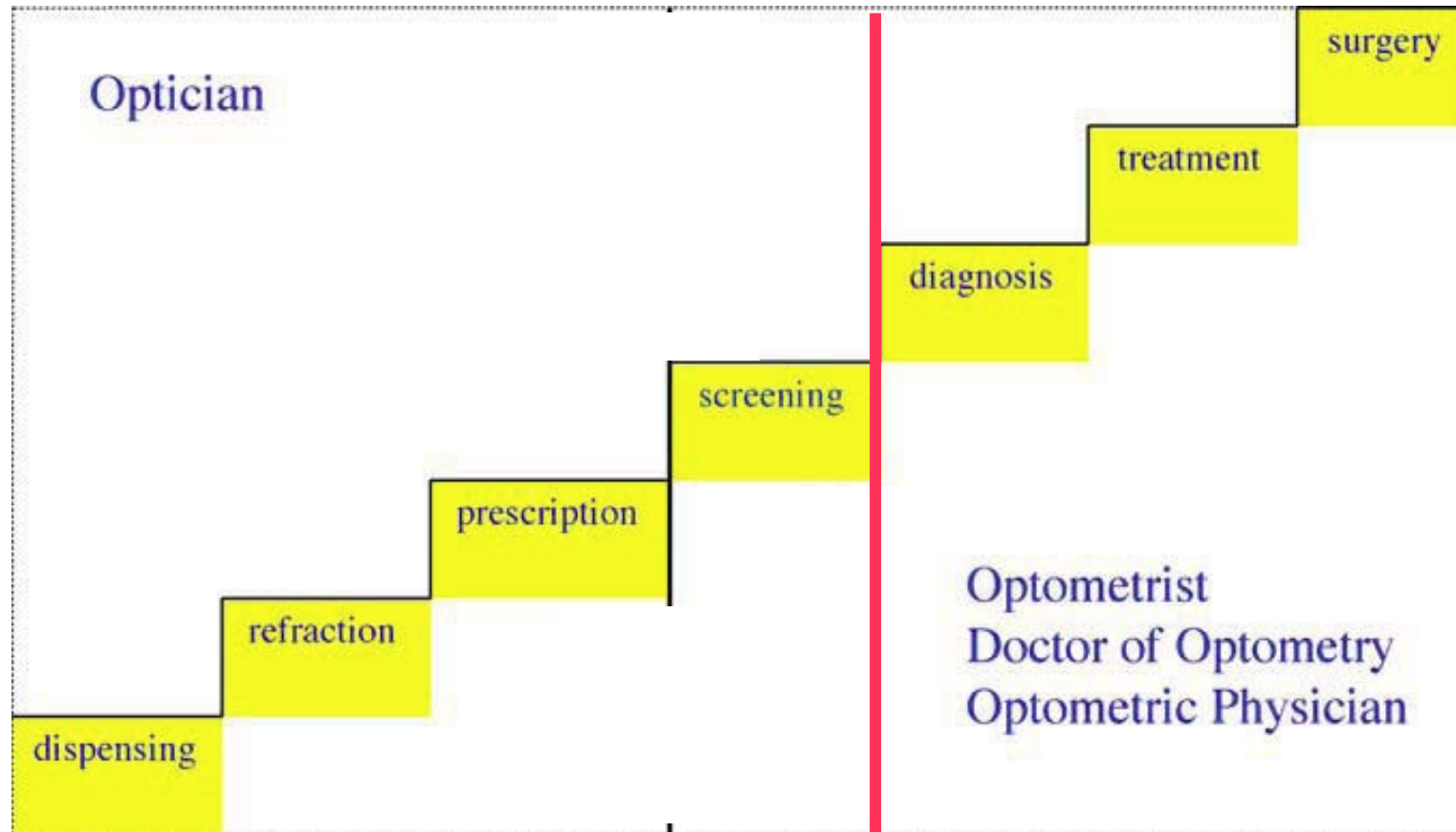


Optician and Optometrist



Source: Naroo, S. A., & Grit, F. (2009). Optometry and optics in Europe: 101-102.

In Germany Screening is allowed



Source: Naroo, S. A., & Grit, F. (2009). Optometry and optics in Europe: 101-102.

GERMANIA: OTTICO OPTOMETRISTA

Agli optometristi vanno attribuite le seguenti attività:

- Misurazione della refrazione secondo metodi soggettivi ed oggettivi
- Esame dell'acutezza visiva
- Misurazione del tono oculare, nel caso di sospetta patologia esso è tenuto ad inviare il paziente al medico oculista
- Screening (tonometria non-contact, campo visivo, fundus)
- Approntamento e vendita dei sistemi visivi di qualunque tipo (occhiali e lenti a contatto)

Source: Paolo Carelli;
Chiara Toffoli, Double Diploma Aalen University & Università degli Studi di Milano-Bicocca 2012

The lectures and laboratories are precisely aligned with the European Diploma Optometry (EDO)

European Diploma in Optometry

The legal scope of practice within the countries of ECOO varies from assembling spectacles to the autonomous management of eye disease. In the spirit of the Bologna declaration ECOO established the European Diploma in Optometry as a stimulus to the harmonisation of European optometric education and clinical practice.

The European Diploma is set at least at the Bachelor level in European Higher Education or equivalent and provides a qualification appropriate for optometric practice at Category 3 of the World Council of Optometry's four categories [model](#). The countries of ECOO have adopted the Diploma as the "Gold Standard" for European Optometry.

Source: <https://ecoo.info/ecoo-accreditation-agency/european-diploma-in-optometry/>

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SCHEDULE AND HIGHLIGHTS

Major field of studies: Primary Eye Care

Study degree program (120 Credit Points)

| | | | | | | | |
|----------|---|-------|----------------------------|---------------------------|---|----------------------------|---------------------------------------|
| semester | 4 | 30 CP | Masterthesis (30 CP) | | | | |
| | 3 | 30 CP | Pediatric Optometry (5 CP) | Sports Vision (5 CP) | Vision Therapy and Binocular Vision (10 CP) | Myopia Management (5 CP) | Clinical Case Studies: Logbook (5 CP) |
| | 2 | 30 CP | Ocular Disease (10 CP) | Clinical Optometry (5 CP) | Vision Therapy and Binocular Vision (10 CP) | Scientific Methods (10 CP) | Leadership (5 CP) |
| | 1 | 30 CP | | Human Biology (5 CP) | | | Pathology (5 CP) |

compulsory module
 optional module

Study and Examination Regulation (1/5)

Table of Content

Compulsory Modules

| No. | Module Lecture | Type | Study semester SWS | | | | CP |
|--------------|---------------------------------|------|-----------------------|---|---|---|----|
| | | | 1 | 2 | 3 | 4 | |
| 29001 | Optometric Project | | | | | | 5 |
| 29101 | Optometric Project | V,P | 1 | | | | 5 |
| 29102 | Optometric Project Presentation | P | X | | | | |
| | | | | | | | |
| 29002 | Leadership | | | | | | 5 |
| 29301 | Studium Generale | V,P | | | 2 | | 5 |
| 29302 | Leadership and Communication | V,P | | | 1 | | |
| | | | | | | | |
| 29010 | Master Thesis | | | | | | 30 |
| 9999 | Master Thesis | P | | | | X | 30 |
| 9998 | Master Thesis Colloquium | P | | | | X | |
| | | | | | | | |

Total Compulsory Modules 40 CP

Study and Examination Regulation (2/5)

Elective Modules (those that are compulsory for the European Diploma Optometry EDO are marked)

| No. | Module Lecture | Type | Study semester SWS | | | | CP |
|--------------|---------------------------|------|-----------------------|---|---|---|----------|
| | | | 1 | 2 | 3 | 4 | |
| 29830 | Human Biology | | | | | | 5 (EDO) |
| 29401 | Ocular Anatomy | V | | 2 | | | 5 |
| 29402 | Physiology | V | | 2 | | | |
| | | | | | | | |
| 29831 | Pathology | | | | | | 5 (EDO) |
| 29403 | Histology | V,L | | 2 | | | 5 |
| 29404 | Systems Pathology | V | | 2 | | | |
| | | | | | | | |
| 29832 | Pharmacology | | | | | | 10 (EDO) |
| 29405 | General Pharmacology | V | | 4 | | | 10 |
| 29406 | Ocular Pharmacology | V | | 4 | | | |
| | | | | | | | |
| 29833 | Ocular Disease | | | | | | 10 (EDO) |
| 29407 | Intro to Ocular Disease 1 | V,L | | 3 | | | 10 |
| 29408 | Intro to Ocular Disease 2 | V,L | | 4 | | | |

Study and Examination Regulation (3/5)

Elective Modules (those that are compulsory for the European Diploma Optometry EDO are marked)

| No. | Module Lecture | Type | Study semester SWS | | | | CP |
|--------------|--|------|-----------------------|---|---|---|----------|
| | | | 1 | 2 | 3 | 4 | |
| 29835 | Vision Therapy and Binocular Vision | | | | | | 10 (EDO) |
| 29411 | Binocular Vision Disorders | V,L | 4 | | | | 10 |
| 29412 | Vision Therapy | V,L | 4 | | | | |
| | | | | | | | |
| 29836 | Pediatric Optometry | | | | | | 5 (EDO) |
| 29413 | Pediatric Optometry | V,L | 2 | | | | 5 |
| 29414 | Case Management Pediatric | V,P | 2 | | | | |
| | | | | | | | |
| 29847 | Clinical Experience | | | | | | 5 (EDO) |
| 29435 | Clinical Experience | V,L | 1 | | | | 5 |
| 29436 | Clinical Experience Portfolio | P | X | | | | |
| | | | | | | | |
| 29848 | Clinical Case Studies: Logbook | | | | | | 5 (EDO) |
| 29437 | Clinical Case Studies | V,L | 1 | | | | 5 |
| 29438 | Case Documentation: Logbook | P | X | | | | |

Study and Examination Regulation (4/5)

Elective Modules (those that are compulsory for the European Diploma Optometry EDO are marked)

| No. | Module Lecture | Type | Study semester SWS | | | | CP |
|--------------|--|------|-----------------------|---|---|---|----------|
| | | | 1 | 2 | 3 | 4 | |
| 29838 | Low Vision | | | | | | 5 (EDO) |
| 29417 | Low Vision | V,L | | 3 | | | 5 |
| 29418 | Low Vision Project | P | | X | | | |
| | | | | | | | |
| 29839 | Scientific Methods | | | | | | 10 (EDO) |
| 29419 | Biostatistics | V,P | | 2 | | | 10 |
| 29420 | Scientific Methods | V,L | | 2 | | | |
| | | | | | | | |
| 29840 | Contact Lenses and Refractive Surgery | | | | | | 5 (EDO) |
| 29421 | Contact Lenses | V,L | | 2 | | | 5 |
| 29422 | Refractive Surgery | V,L | | 2 | | | |
| | | | | | | | |
| 29844 | Marketing Management | | | | | | 5 (EDO) |
| 29429 | Marketing and Communication | V,L | | 2 | | | 5 |
| 29430 | Integral Competencies | V,P | | 1 | | | |

Study and Examination Regulation (5/5)

Elective Modules (those that are compulsory for the European Diploma Optometry EDO are marked)

| No. | Module Lecture | Type | Study semester SWS | | | | CP |
|--------------|-------------------------------------|------|-----------------------|---|---|---|----|
| | | | 1 | 2 | 3 | 4 | |
| 29834 | Clinical Optometry in the US | | | | | | 5 |
| 29409 | Interactive Clinical Cases | V,L | 1 | | | | 5 |
| 29410 | Clinical Optometry in the US | V,P | 1 | | | | |
| | | | | | | | |
| 29837 | Sports Vision | | | | | | 5 |
| 29415 | Sports Vision | V,L | 1 | | | | 5 |
| 29416 | Clinical Observations in the US | P | X | | | | |

Lecture and Lab Schedule AY 2024/25 (1/2)



Lecture Schedule M.Sc. Vision Science and Business (Optometry) ACADEMIC YEAR 2024/25

This is subject to minor changes!

Version: February 12, 2024

| 2024 | | | |
|--|----------------|--|---|
| Day/Time | Lecture format | Module | Lecturer |
| Friday, Aug. 16 , 9am- Tuesday, Aug. 20 , 3pm | face to face | Anatomy of the Visual System & Ocular Disease Anterior Segment Lectures I <small>(lecture notes: Pacific's University server called "Box")</small> Ideally here also: Introduction to the Module "Clinical Case Studies Logbook" | Prof. Denise Goodwin, OD Prof. Lorne Yudcovitch, OD Oliver Buck & Katja Schiborr |
| Wednesday Sept. 25 , 9am – Tuesday Oct. 1 , 3pm | face to face | 9 -10 am: DigiExam Anatomy Histology and Physiology Lectures <small>(lecture notes in the learning management system "Canvas" at Aalen University)</small> Master Thesis Colloquia & Optometric Project Presentations (compulsory modules) and Alumni Congress in Benediktbeuern , to the direction sketch https://www.benediktbeuern.de/english/ https://www.zuk-bb.de/ | Prof. Dr. Anna Nagl Prof. Dr. Thom Freddo, OD Renowned lecturers managed by Georg Scheuerer, M.Sc., Chairman Alumni Association 'Aalen Friends of Optometry e.V.' & Prof. Dr. h.c. Dietmar Kuemmel et al. |
| Friday, Nov. 15 , 9am – Tuesday, Nov. 19 , 3pm | face to face | 9 -9.45 am: DigiExam Histology Leadership (compulsory module) You receive the lecture documents directly from the lecturers during the lecture Leadership: examination performance (Assessment Center et al.) during the lecture period | Prof. Dr. Anna Nagl Robert and Marco Harfold |
| Friday, Dec 13 , 9am- Tuesday, Dec. 17 , 3pm | face to face | 9 -9.45 am: DigiExam Physiology Ocular Disease Anterior Segment Lectures II <small>(lecture notes: Pacific's University server called "Box")</small> | Prof. Dr. Michela Kenning Prof. Caroline Ooley, OD Oliver Buck & Georg Scheuerer & Katja Schiborr |

SCHEDULE

Lecture and Lab Schedule AY 2024/25 (2/2)

SCHEDULE

| 2025 | | | |
|---|-------------------------------|--|--|
| Friday, Febr. 14 , 9am – Tuesday, Febr. 18 , 3pm | face to face | 9 -10.30 am: DigiExam Ocular Disease Anterior Segment Ocular Disease Post Segment Lectures I (lecture notes: Pacific's University server called "Box") | Prof. Nada Lingel, OD Prof. Dennis Smith, OD Oliver Buck & Georg Scheuerer & Katja Schiborr |
| Friday, March 7 , 9am – Tuesday, March 11 , 3pm | face to face | No Exam! Ocular Disease Post Segment Lectures II (lecture notes: Pacific's University server called "Box") | Prof. Nada Lingel, OD Prof. Dennis Smith, OD Oliver Buck & Georg Scheuerer & Katja Schiborr |
| Thursday, March 27 , 4pm Sunday, March 30 , 9pm | online daily 4-9pm MESZ | No Exam! Pharmacology I (lecture notes: Pacific's University server called "Box") | Prof. Lorne Yudcovitch, OD |
| Friday, May 30 9am – Tuesday, June 3 , 3pm | face to face | 9 -10.30 am: DigiExam Ocular Disease Post Segment Pharmacology II Proficiency (exam) Ocular Disease & Clinical Case Studies Logbook | Prof. Lorne Yudcovitch, OD Roziland Hursh, OD Oliver Buck & Georg Scheuerer & Katja Schiborr |
| Monday, June 16 – Friday, June 20 | face to face | One-week elective program Clinical Optometry in the US at the State University of New York (SUNY) | President Prof. Dr. David Heath Dr. Jennifer Hue |
| tbd July | | Business Simulation | Prof. Dr. Anna Nagl |
| Friday, July or August | face to face | 9 -10 am: DigiExam Pharmacology Start of the study year Binocular Vision/Vision Therapy/ Pediatrics/Sports Vision | Profs Scott Cooper, Karl Citek, Ryan Bulson, Graham Ericson |
| Friday, Sept. 19 , 9am – Monday, Sept. 22 , 3pm | face to face | Master Thesis Colloquia & Optometric Project Presentations (compulsory modules) and Alumni Congress in Benediktbeuern , to the direction sketch https://www.benediktbeuern.de/english/ https://www.zuk-bb.de/ | Prof. Dr. Anna Nagl et al. & renowned lecturers managed by Georg Scheuerer, M.Sc., Chairman Alumni Association 'Aalen Friends of Optometry e.V.' & Prof. Dr. h.c. Dietmar Kuemmel et al. |

Lectures offered by renowned professors from the US are marked in light blue!

1.

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ALUMNI FROM BELLA ITALIA

Italian Direttore Dr Andrea Rapino, M.Sc.

OUR GRADUATES



Andrea Rapino:

“This Master program gave me the opportunity to re-invent my future”



Master Thesis Topic: Myopia development: measurements of accommodation dysfunctions in different gaze (directions), comparing emmetropic and myopic children/adolescents

Dr Alessandro Protti, M.Sc.



OUR GRADUATES

Master Thesis Topic:
Understanding the needs of presbyopes & visual performances with MF CLs

OUR GRADUATES

Alessandro



Current Job

Company representative



Reasons to join

- Be the best-in-class
- Strengthen professional profile

- Accentuate a successful career
- Apply new skills in EU professional management

Ivan



Current Job

Optometrist in optical shop

Reasons to join

- Extend clinical knowledge
- Enjoy an international environment

Future goals

- Focus on clinical optometry field
- Get an opportunity to work abroad

Dr Emanuele Mocciardini, M.Sc.

OUR GRADUATES



Master Thesis Topic:
Visual rehabilitation through perceptual learning in AMD patients

OUR GRADUATES



Academic year 2014/15

OUR GRADUATES



Academic year 2016/17

OUR GRADUATES



Academic year 2018/19

OUR GRADUATES



Academic year 2020/21



Alumni Meeting 2024



28 & 29 September 2024
pro Tag gibt es 3 COE Fortbildungspunkte



Sign up now!
Aalen Friends of
Optometry





One of the best or the best in Europe!

Master's degree program

M.Sc. Vision Science and Business (Optometry)



One of the best or the best in Europe – you decide!



Apply now and **start on August 16, 2024**
at Aalen University your Master degree program
M.Sc. Vision Science and Business (Optometry)



Prof. Dr. Anna Nagl, Dean of Studies
Email Anna.Nagl@hs-aalen.de
<https://www.optometry-master.com/english>

Hochschule Aalen | Campus Burren |
Building G4 | Lab Building Optometry and Audiology
Anton-Huber-Str. 23 | 73430 Aalen