温州區等院眼视光学院

SCHOOL OF OPHTHALMOLOGY &OPTOMETRY Wenzhou Medical College

■眼视光学是一门既具有经典传统色彩、又具有现代高科技特征的医学专业,也是一类饶有 趣味、充满挑战、富有回报的医疗职业、该专业以光学、药物、手术等手段、以改善和促 进清晰舒适视力为目标,以保护眼睛健康为己任,这是一项给人类带来光明的崇高事业。

温州医学院在国内最早创立了眼视光专业、经十余年的尝试和努力、并集世界发达国家之 经验和我国发展之国情、已对专业的形式和内容、深度和广度、内涵和外延有了一定的认识 和理解, 简而言之, 可将其特征概括如下:

1、该专业隶属于医学系统;

5、具有处方权和手术权

- 2、高级专业人才由医学院校培养:
- 3、专业知识结构为现代眼科学和视光学两大学科的有机整合;
- 4、 本科毕业生可获医学学士学位并取得医师资格:

目前温州医学院眼视光学院主要培养五年制的本科生和进一步深造的研究生、经过本专 业教育、训练而毕业的眼视光医师,将能处理与眼睛健康和视力保健相关的生理、心理、病 理、环境和社会等诸多影响因素、从而在最大限度、最大范围内提供最有效、最优质的医 疗健康服务。毕业后可在各级医院、眼视光学临床门诊、科学研究机构、以及涉及视力保 健产品的公司、眼镜企业就业。本学院同时还成功地发展了眼视光专业的成人教育、继续 教育系统,可为在职的眼科医师、视光学医师、视力保健工作人员、眼镜验配从业人员进 行规范而合格的职业培训。

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为培养和造就高素质、高水平、高度社会责任感的眼视光学医师,我们将始终努力做到:

- □ 吸引和发展业务精湛的教职员工、他们将对学生的成长和发展作出全面承诺;
- □ 创造一个结合传统、改革、发展和世界同步的动态环境、促进对专业的专注和使命感;
- □ 培养责任感、文明道德行为和同情心、建立终身学习的自觉性; □ 建立以病人为中心的服务观念,并以精湛的专业技术服务大众;
- □ 发展科学研究、并以研究成果裨益于专业进步;

属于本专业的所有教职员工和学生都面临机遇和挑战,因为这是一个前景灿烂、充满生机的医 学领域,光明使者的崇高职责和业绩将会赋予我们和我们所关心的人们更多的幸福和快乐。

The School of Ophthalmology & Optometry of Wenzhou Medical College was the first educational institute with the establishment of the ophthalmology and optometry program. It was set up in 1988 and has been operating successfully. We have better understanding and further explored the principles and value of ophthalmology & optometry by extending through information sharing with colleagues locally and oversea. Briefly speaking features of higher optometry education represented involve: 1) discipline categorized into medicine; 2)Professional trained in a medical area:3)professional knowledge made up of two integral parts of modern ophthalmology and optometry; 4)Bachelor's degree of Medicine and doctorate to be offered upon completion of five-year full-time course; 5)qualification to prescribe medicine and surgery .The graduates of this five-year course are educated and trained to provide both diagnosis and treatment of eye disease and to deal with a broad range of physiological, physical, environmental and sociological issues that have an impact on effective patient care in the optimum health care Careers development are in hospitals, optometry clinics, industrial, consulting institution, teaching and research departments. In addition to the high degree education, the school also offers the in-service education system for the practitioners to uplift the quality and quantity of their service.

The mission of the School of Ophthalmology & Optometry is to provide the optometric needs to the public by producing graduates at the highest proficiency, integrity, and professionalism. In achieving its mission, the school.

- □ Attracts and supports a faculty which excels at teaching and is committed to the growth and development of students:
- ☐ Creates a dynamic environment which combines tradition and innovation, and fosters intellectual inquiry and sense of responsibility;
- ☐ Cultivates compassionate and erhical behavior, and advocates life-long learning
- □ Encourage and support personnel in every aspect to develop the "patient first" attitude and instills sense of duty for the health and social welfare of the community.
- ☐ Facilitate clinical research for the benefit of eye health care.

The faculty and students involved in the school will find that the profession is an opportunity for a challenge. It is a bright productive and enjoyable career and we are entrusted with the responsibility for earing for a precious gift—the gift of sight.

温州医学院眼视光学院介绍

图州医学院位于东海之滨的沿海开放城市浙江省温州市、温州医学院是率先在我国开展眼视光学研究和教育的高等医学院校: 1976 年在我国著名眼科专家缪天荣教授的领导下、建立了眼科光学研究室: 1978 年、在我国首次招收以眼科光学为研究方向的研究生; 1988 年、经国家有关部门批准,建立眼视光学专业,成立我国第一个培养眼视光学高级医学专业人才的眼视光学系: 1992 年,经国家卫生部批准建立卫生部视光学研究中心: 1997 年在形成一定规模的基础上、建立了眼视光学院。二十多年的风雨历程,几代学人的艰苦创业,从无到有,从小到大、终于形成了一定的规模、相当的优势和明显的特色,迎来了温州医学院眼视光学事业的者天。

□ 在眼视光学的医学高等教育方面:自创办眼视光学专业以来、我们在积极 消化、吸收国外视光学教育先进知识和经验的同时,努力探索走一条适合中国国情、有中国特色 的眼视光学发展道路,在人才培养目标方面,首先要求学生在视光学专业方面具有较全面的专业 知识和实践能力,以填补我国在该领域高级人才方面的空白,逐步与当今国际视光学专业教育"接 轨",同时又强调现代眼科学知识和技能的训练,使学生毕业后即能以其专长为人民的眼睛健康 和视觉保健贡献力量,另外在课程设置方面加强基础医学、临床医学等专业科目,做到医理结 合、多学科结合、使专业知识结构趋向合理、具有"宽口径"特点、毕业学生既适合于较高级、 较专门化的临床、教学和研究单位,又适合各级基层单位,做到既专又广,能上能下。至今已毕 业大学生 1 2 5 人,研究生 3 0 人,他们分别在浙江和全国各地开展眼科和视光学诊疗工作,用 人单位反馈良好,现有在校本科生 1 2 5 人,目前已有许多用人单位前来预定毕业生,据此今年 眼视光学专业招生人数已扩大一倍,面向全国招生的区域也更广。现我们拥有一支包括教授、副 教授、讲师等职称的 6 □余人的专职教学队伍、拥有自己编写的与国际接轨的中文系列眼视光学 专业教材、建立了完整的教学评估体系和电脑多媒体教学系统、仪器价值达1300万元、教学 设备和实验室煤称全国领先,有关眼视光学的教学研究成果两次获得浙江省优秀教学成果一等奖。 我们的实践还得到政府有关部门和国内著名眼科专家的认可,目前已有多家国内知名医科大学随 我们之后建立或正在筹建眼视光学专业,由此我们也受到国际学术界的瞩目和赞赏,认为这是一 新的视光学教育模式,是西方国家为之奋斗数十年、上百年尚未达到的目标,是当今全球最佳的 视光学教育模式之一。可以这样认为,经过十多年的探索和实践,我们已建立了比较完整的具有 中国特色的眼视光学教学体系,形成了被国际上称之为眼视光学的"中国温州模式",确立了温 州医学院在眼视光学教育领域的国际地位,就其特征简而言之,以温州医学院为代表的眼视光学 高等教育主要包含以下内容: 1、学科隶属于医学系统的范畴; 2、高级专门人才由医科院校培养 3、专业知识结构为现代眼科学和视光学两大学科的有机整合:4、五年制本科毕业生可获医学学 士学位并取得医师资格;5、具有处方权和手术权。;

□ 在眼视光学的在职教育方面: 为解我周훸光配镜从业人员的职业培训之燃眉之急,我们还积极开展与视光学相关的在职教育、继续教育、成人教育和函授教育。除了完成浙江省的医学继续教育任务外。自1993年以来。多次开办各种类型。各种层次的全国性验光配镜培训课程、如与中国是大的隐形眼镜企业美国博士伦公司举办了为期十四个月的隐形眼镜面授课程:与轻工部眼镜质检中心合作对眼镜质检和眼镜从业人员举办了为期九个月的视光学初级函授课程: 尤其值得一提的是与美国强生视力保健公司合作进行的隐形眼镜教育项目,在三年多的时程: 尤其值得一提的是与美国强生视力保健公司合作进行的隐形眼镜教育项目,在三年多的时程:

Introduction to School of Ophthalmology & Optometry Wenzhou Medical College

Wendow Malical College (WMC), the first nedecal institution of higher learning to conduct research and educational work on Ophthalmology and Optionetry, is situated in Wendow. Zhejjung Province a coastal city opening to the musicle and bordering the Fast China Sea. With immurrable trials and hardships exper-need and ordinous pionetring effort made generations of dedicated scholars. Ophthalmology and Optionetry practice in WMC has developed from nothing to the one with considerable magnitude, dominant position and distinctive features. The chronice listed below will how you the rapid development in this field.

1976 The Laboratory of Ophthalmic Optics was founded, thanks to Prof. Miao Tianrong, the advocate and well-known Ophthalmologist.

1978 The first post-graduate program in China majoring in Ophthalmic optics was enrolled

1988 First the Faculty and then the Dept. of Ophthalmology and Optometry was set up, the first one

in China to train the advanced professionals.
 The Optometry Research Center of Ministry of Public Health was established.

1997 School of Ophthalmology & Optometry was set up.

Education

Since the establishment of the Faculty of Ophthalmology and Optometry, we've been striving to seek a better and more Chinese way of Optometry education by positively digesting and absorbing the foreign advanced knowledge and the valuable experience. On one hand, students are required to develop comprehensive Optometric expertise, and, practical skills in order to satisfy the urgent need of the society for the optometric elite, hereby gradually coming in line with the international optometry education. On the other hand, modern ophthalmological knowledge and skills are equally emph asized so that the students, after they graduate from the college, will render better and wider services. To achieve this goal, we provide them with a multi-displinary curriculum based on an integrated science policy to rationalize the knowledge make-up which includes basic medicine and clinical medicine. In this way the students are trained to become professionals of high caliber and more flexible in taking up either advanced, and specialised teaching and research work, in the higher institutes or clinical work in the general grassroot units of all levels. Up to now, '25 graduates and 30 post-graduates have been jurned out, who are serving as ophthalmologists or optometrists in Zhejiang and other parts of the country. Desirable feedback has been drawn from their working units. Now the undergraduates are 125 in number, and the enrollment will be doubled in the fall 1998, considering the fact that the students who are to graduate in the following two years have already been reserved;in advance. We now have a professional teaching staff of 60, who are professors, associate professors and lecturers. Course book series in Chinese in Tine with international practice, along with a complete set of teaching evaluation system and computerized multi-media reaching devices are available.

The teaching and laboratory equipment worth 15 million VCAN may be rated as the first class in China. Our teaching and research projects in the field of Ophthalmology and Optometry have been twice awarded the First Prize for Excellent Teaching Achievements in Zhejung Province. What we have achieved here in WMC are also flightly valued by both the government and the experts, which can be best confirmed by the successive establishment of the simular Optometry programs in the famous medical antiversitive like Shim Yet sam Medical University (Ganagchiou, West China Medical University Chanagchiou, West China Medical University Chanagchiou and Shamphal Medical University Chanagchiou, which is the some whole the focus of worldwide and are highly appreciated among academic circles abroad. They take it to be a brand-new and optimal pattern for Optometry education in the world, for which the Western countries have been surging hard for decades, even for certainties. We may well follow that after more than ten years of exploration and practice, we've set up an integrated system: in Optometric and Dopathalmological education with Chinese features, now widels known as "Wenthout Model-Thus exact-shrishing itself as a member of standing on the international stage. Briefly speaking, features of higher Optometry education represented by WMC involves) a discipline categorized into medicine; 2) specialized advanced professionals to be trained by medical universities; 3) professional knowledge made up of two integral parts of modern Ophthalmology and Optometry; 4) Bachelor's degree of and doctorship to be offered on completion of fiveyeer full-time courses; 5) rights granted to prescribe medicine and surgery.

间里,已在十多个城市举办了 17 期培训班,培训眼科医师和验配师近 800 人,这是国内第一个有固定教师队伍,有教学大纲、有教材、有实验课的隐形眼镜在职培训课程。作为领导和策划者,我们成功地组织了来自全国的教师访问学者队伍多次赴美国进修学习,我们编写了教学大纲和教材,制作了先进的电脑多媒体教学软件,建立了较完善的教学评估体系,做到了隐形眼镜教育者教育、验配师教育、眼科医师教育、配戴者教育系列一条龙,为我国的眼镜和隐形眼镜等在职教育

闯出了新路子、我们还对合海(的工作,我们还对合海(也个学期)的视光学专业人员 多有,参加人员200多人。 去年已胜利完成,部分学列。 进入高一层次的职视光学研。 即缓独少率,还是到了很接好的作用, 走起到了很好的职程, 走起到了很好的的联想, 走起到了很好的作用。 我极精助全国兄弟院校和以后会 全位指训师资、职税光学员。 是位各类人最分别在我 是一位各类人最分别在我



院进修教学和临床。回到原单位后都成为眼视光学的骨干力量、发挥了很好的作用。

在眼视光学的临床医疗方面: 我们在眼视光学的临床方面,积极、慎重地尝试将传统意义上的眼科学和视光学有机地结合在一起,认真实践并应用这种具有明显中国特点的理论,首先要来学生的知识和临床技能集眼科和视光学两者为一体,并融会贯通:同时设计我们的眼视光医院为两者的有机结合,1997年4月裏基的温州医学院眼视光医院将成为这方面的先行者;该医院産落在温州医学院大门西侧,占地1500平万米,共建七层,总面积6500平万米,今年10月正式启动使用。它包括开展周光不正矫治,影视治疗、低视力康复、近视平木矫治等视光学测试和诊治手段、同时它还包括眼底病、角膜病、白内障、青光眼等眼科常见病的检查、诊断、治疗行物物和手术)。温州医学院眼视光医院的建设已引起国内外的广泛重视。被土奶工时,包括国际视光



In-service Education



在眼视光学的科学研究方面:温州医学院早在一九七七年就建立了我国第一个眼视光 学研究机构,是我国最早开展该领域科学研究的单位,并已取得了大量有影响的研究成果, 在国 内外学术杂志发表有关眼视光学研究论文百多篇,其中在国外权威性学术杂志发表论文二十余 篇,申报并已批准国家发明专利、使用新型专利近10项,已在中国标准出版社、天津科技出版社、 上海科技出版社、浙江科技出版社、浙江大学出版社等分别出版《标准对数视力表》、《眼镜学》、 《临床视觉光学》、《隐形眼镜学》、《汉字阅读视力表》等专著,其中大部分著作为填补国内空 白之作。同时还有《隐形眼镜基础》等多本译作出版。标准对数视力表于1990年被定为国家标准。 在全国强制实施、多项成果获得国家和省市科技奖、一些成果通过国际、国内学术会议向国内、 外介绍、还有的被列为卫生部的重大推广项目等。目前在研的项目分别被列为国家自然科学基金、 浙江省自然科学基金、国家教委优秀青年基金、卫生部科研基金等的资助项目,其大部分研究处 于国内领先水平。有鉴于此,从1984年起至今连续三届被评为浙江省高校重点学科、还被评为浙 江省重点研究实验室。1992年4月,国家卫生部经过专家咨询、严格考察、多方论证后决定在温州 医学院建立卫生部视光学研究中心,建立该中心的目的是:适应人民群众对视觉健康和眼保健的 要求、缩小中国与发达国家视光学领域的差距 卫生部视光学研究中心的建立为温州医学院的眼 视光学学科发展带来了契机和动力,奠定了它在国内外的学术地位。与此同时,卫生部部长陈敏 章为中心题词: "愿视光学研究中心为发展我国视光学事业作出贡献。"

在眼视光学的国际交流方面: 溢州医学院眼视光学学科一直重视国际间的合作和 交流,已先后与美国新英格兰视光学院、休斯敦大学视光学院、加州大学伯克力视光学院、澳大利 亚墨尔本大学视光学院、新南威尔士大学视光学院、新西兰奥克兰大学视光学院、日本名古屋菊池 眼镜学院、香港理工大学视光学系等建立了教学和科研协作关系。1992年10月,美国新英格兰 视光学院派出以院长、董事会主席率领的代表团前来温州与我们签定姐妹学院关系协议,该协议包 括: 1、眼视光学访问学者计划; 2、眼视光学合作科研计划; 3、举行国际眼视光学会议; 4、眼 视光学学生交流计划,到目前为止、上述协议的绝大多数内容已实施,现在合作内容已扩展 到全国的主要医科大学、为发展中国的眼视光学教育起到了不可磨灭的作用。1994年和1997年 我们在美国新英格兰视光学院等的帮助下,分别在北京、上海和温州召开了第一届和第二届 "卫生部视光学研究中心国际顾问委员会会议"。来自国际和国内的眼科和视光学专家欢聚一堂。 共商中国眼视光学发展大计。这两次会议在国际和国内都产生了很大的影响。1997年12月。以 温州医学院为首的五所中国医学高等院校代表聚首美国德州圣安东尼奥协商、一致同意建立 了中国医学院校眼视光学高等教育协作组,并推举温州医学院为组长单位和秘书长单位。今 年 4 月、来自美国著名大学的校长们和中国的知名医科大学的眼科教授再次会聚温州。 召开"中美 眼视光学教育战略研讨会",共商中国眼视光学教育大计。近年来,我们还多次代表中国在国际眼视 光学会议上发言、演讲、介绍中国眼保健和眼视光学进展情况,展示中国眼视光学教育和科研成果。 我们的成员也进入了眼视光学国际大家庭行列、如担任亚太区视光学委员会执行委员、担任国际隐 形眼镜教育委员会委员兼中国负责人等。

我们还与国际著名的眼保健跨国企业建立了良好的关系,如美国的Johnson & Johnson.Ciba Visioni eEA,Bausch & Lomb公司,日本的Topcon 株式会社,日本的Hopa 光学公司,法国的 Basilor公司等。这些企业给了我们许多支持和帮助,并共同开展眼视光学教育和研究,如Johnson & Johnson 公司、日本的 Topcon 株式会社、Hoya 光学公司和 Essilor 公司还分别在温州医学院建立了与眼视光学教育有关的合作培训项目。

Clinical practice

Optometry with traditional Ophthalmology. For this purpose, the students are recuired to achieve mastery thought in Optometry with traditional Ophthalmology. For this purpose, the students are recuired to achieve mastery thought in integrated study of Ophthalmology and Optometry both in theoretical knowledge and elimical skills. The Hospital of Ophthalmology & Optometry, whose foundation was had in April 1997, is designed to satisfy this requirement and will be forenumer. The seven-storely hospital building, evolving an area of 1500m² with a floor space of 6500m², is located in WMC on the west side of the school gate Ir is expected to be put into use in October 1998-Narious Optometric tests and decirces will find application to the treatment of ametropia, amblyopia, low vision-PRK as well as the examination diagnosis and treatment (medical and surgical) of the common Ophthalmological dises-ses like ocular fundus discase, keratopathy, extract, glaucoma. The hospital under construction has attracted wide affection in high at home and abroad. Attending the featuration larging erections were Mayor of Wenzborn City and important officials from Ministry of Dublic Health and Previncial Bureau of Dublic Health, apart from approximately 30 expects, purfessors, ophthalmologists and optometrists from eight countries and districts including the Cairman of World Council of OptometryWCO). Chairman of Asia-pacific Optometry Council (APOC) and presidents of well known colleges and universities. A continous flow of visitors still came in the course of its construction, expressing great enthasiasm and interest in the project. From the above we may feel how significant and conspicuous this integrated model is!

International Exchange

School of Ophthalmology & Optometry, WMC has always been attaching great importance to the international cooperation, and exchange. Intercollegiate cooperations have been established one after another with. New. England. College of Optometry, (U.S.A.), Berkley School of Optometry, University of California, School of Optometry, University of Melbourne(Australia) and Department of Optometry, Honkong Polytechnic. In October 1992, New England College of Optometry sent to WMC the delegation led by the President of the College and the Chairman of the Board Trustee and friendly intercollegiate agreement was sizered, which includes 1) visiting scholar programs 2) cooperative scientific research program; 3)launching of international optometric symposiums; 4) student exchange program, with most of them successfully fulfilled. Now the co-operative programs are being extende to more medical universities in China. In 1994 and 1997, with the help of the New England College of Outometry, the 1st and 2nd meetings of International Advisory Committee of the Optometry Research Center were successfully held in Beijing. Shanghai and Wenzhou respectively. These two meetings were highly influential since it. brought to gather the Ophthalmologists and Outometrists from home and abroad to deliberate over the matters of vital importance concerning the further developments of China's Optometric profession. In the past few years, we've taken an active part in all kinds of academic conferences and on many occasions addressed the meeting on behalf of China, introducing the latest development of China's eyecare profession and displaying the achievements in Optometric education and research. Some of our faculty members are appointed the executive member of APOU, member of IACLE (Chinese coordinator). What we've accomplished for China's Optometry development has been reported more than once in the international news media and Optometric journals.

We've also established Friendly relations with world-known transitional everare cooperations, such as Johnson & Johnson Cliu Vision, Bansch & Londt, Turcon, Hoya, Essilor, All of them have not only given us invaluable help and generous support but also ecoperatively concurrent Optometry education and research programs. Cooperative training centers of Optometry education have been set up in WMC in collaboration with Johnson & Johnson, Tapeon. Hoya and Essilor:

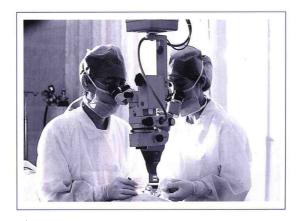


温州医学院眼视光专业(五年制本科)课程表 THE CURRICULUM FOR UNDERGRADUATE(5-YEAR) IN THE SCHOOL OF OPTOMETRY & OPHTHALMOLOGY AT WENZHOU MEDICAL COLLEGE

课程	COURSE	总课时数	讲课	实验
		TOTAL	LECTURE	LAB/
第一学年	The first Brofessianal warr			preclinic
<u> </u>	The first Professional year			
中国革命史	ChinaHistory	51	51	
体育	Physical and Health Education	70	70	
英语 1	EnglishI	85	85	
生物与遗传学	BiologyandGenetics	68	32	36
基础化学	Chemistry	102		
物理	Physics	102	51	51
高等数学	AdvancedMathematics	51	51	
德育	Ethical Education		72	
法制学	Law for Medical Practice	54	54	
英语口	EnglishII	90	90	
医用化学	MedicalChemistry	108		
人体解剖学	Human General Anatomy	126		
组织胚胎学	Histoembryology	90	54	36



社会主义学	Societyandpolitics	54	54	
体育	Physical/healtheducation	72	72	
英语Ⅲ	English⊞	90	90	
生物学	Physiology	135	108	27
生物化学	Biochemiety	144	90	54
微机学	ComputerScience	144	72	72
英语IV	EnglishIV	90	90	
微生物与免疫学	Microbiologyandlmmumology	117	72	45
寄生虫学	Parasitology	72	36	36
病理解剖学	Anatomopathology	126	72	54



第三学年 The third professional year

哲学	Philosophy	54	54	
局部解剖学	Topographicanatomy	72		
病理生理学	Pathophysiology	72	54	18
药理学	Pharmacology	99	72	27
诊断学	Diagnostics	144	72	72
眼科基础*	Basic science of Ophthalmology	63	53	10
应用光学 *	Appliedoptics	54	36	18
医学影象学	Medical Imaging science	90	36	54
内科学	InternalMedicine	126	72	54
临床视光学基础*	Introduction to clinical optometry	63	18	45
眼公共卫生学	Public health on Primary Eyecare 🙏	45	24	21



第四学年 The fourth professional year

眼科学"	AdvancedOphthalmology	108	72	36
眼生理光学 *	Ocular Physiologic Optics	54	36	18
眼镜学*	OphthalmicLenses	54	36	18
眼科光学器械*	OphthalmologyandOptometryInstrumentation	54	36	18
外科学	Surgery	144	90	54
皮肤科学	Dermatology	45	24	21
耳鼻喉科学	Otolaryngology	72	36	36
隐形眼镜学。	ContactLenses	72	54	18
专业英语"	OptometryEnglish	54	54	0
验光学*	Refraction	72	18	54
斜视/弱视学*	Strabismus/Amblyopia	27	21	6
双眼视*	BinocularVision	25	14	11
低视力"	LowVision	20	10	10
医学统计学	MedicalStatistics	72	54	18
(*attached the brief	introduction of the course)			

(*attached the brief introduction of the course)



第五学年 The fifth professional year

毕业实习		CLINCAL ROTATIO
内科	InternalMedicine	8weeks
外科	Surgery	8weeks
耳鼻喉科	Otolaryngology	6weeks
皮肤科	Dermatology	2weeks
眼科学	Ophthalmology Clinic	16weeks
眼科病房	Wards of Ophthalmology	8weeks
眼科门诊	Out-patient Department of Ophthalmology	8weeks
眼视光学	OptometryClinic	8weeks
视光第一门诊部	1st Optometry Clinic	
斜视 / 弱视门诊	Strabismus & Amblyopía Clinic	3weeks
视光第二门诊部	2nd Optometry Clinic	2weeks
近视眼激光治疗中心/百	 内障治疗中心	
Refractive Surger	v Center/Cataract Surgery Center	Zwooko



课程简介

Brief Introduction to Courses of Optometry & Ophthalmology

■ 眼科学基础 Basic Science of Ophthalmology

Basic science of optical basic presents the basic knowledge and while former optical consists. More forming this course, the starting this course, the students are expected to know the overgreen and norms of the court of those and hade containing, diagnostic actioning and an advantage of the court of th

眼科华基础是为研究就觉器官疾病的防治主脉必要的原本理论。 基本知识和基本技能、通过教学、使学生学摄眼 病发生、发展的基本规模及眼病的检查、诊断和治疗的基本方法。上要内容包括与眼科有关的眼的解制、生理、 病理、典理、微生物、免疫、进传及眼科色合法等。.

■ 应用光学 Applied Optics

Applied optics covers the topics of geometric optics and physical notics which associated with vision. Based on the eye as optised instrument, between and laboratory are focused on topics of image formation, from and prism, co-axial spherical system, upsted characteristics of less on exe, lightly wave properties, light quantum queserties.

通过对应用光学基本内容、研究对象及好更及的光学级域的了解。 弄洁应用光学与调料、视光学的亦识既系、另外、通过对光的本性的削速,来了解光学发展生的模点及规状、主要内容为几当光学的基本定律和成像概念、球而和其轴续而系统、理影光学系统、"有前途和按键、光度学科色度学基本知识、像宏模论等。

■临床视光学基础Introduction to Clinical Optometry

Introduction to clinical optometry covers the fundamental theories and methods of vision science and vision measurement techniques are discussed, including schematic eye analysis, visual chart design and clinical application, light detection, color vison, factors affecting vision. Technique es for detection vision defects are discussed and analysis.

临床視光学是照視光专业必修课,主要涉及视觉的基本理论及其临床检测。包括模型眼分析、光觉、色觉等诸多 视觉影响因素分析、视觉检查方法和应用,该课程是在学生学习了《应用光学》、《眼镜学》的基础上,学习关于 光学知识在人具视觉的生理和病理观象及其处理方法请方面的知识和校能。

■眼公共卫生学 Public Health on Primary Eyecare

Public health on primary eyecure process the way of health care delivery and optionetry panetice in both care system. It provides the administration of origination and procedure of panetic personal parametries within indistinities, and epidemiology, analysis of research reports. It will capitative the importance of the prevention of centure training and vision

通过本课程的数字。培养学生"预助为主"的观点,季趣眼候健组织的组织方法和工作方法,享用眼科流行病学 的调查方法、眼外的均衡,青少年发力保护等方法。为常长升展助自、治行、低视力矫治打下基础。本课程的 主要内容包括被力概等的公共卫生展评、限卫生保健组织的分级、眼保健计划、眼科流行病学、眼外的的预防、 青少年的视力速步、所省治育和低弱力标论等。

■ 眼科学 Advanced Ophthalmology

Advanced ophthalmology provides the students with a comprehensive understanding of general eye exam, Ocular disease diagnosis and treatment. The students are expected to have good command of the management of conjunctive disease, cornea disease, glaucoma, retina problems and ocular abnormalities associated with system diseases.

眼科学是眼视光专业的主要专业课之一,属必修课。要求通过本课程的学习,了解并掌握常见眼病的诊断与处理

的知识与技能。主要内容有、结膜病、角膜病、青光眼、葡萄膜病、视网膜病等

■眼生理光学 Ocular Physiologic Optics

Onlar physiologic optics consists of fundamental knowledge related to visual optics such as physical amendmentally single-gardenic and indemnistrated mentacts, which adapted from Physiologic Optics by Adher Tite Optics will over the corner, the extraordale muscles, intrancular pressure, the vitreous, the lens, accommodation, the pupil/visual adaptation, visual acting (edge vision, etc.

生理光学的数字内容均围线与视光学相关的基本知识, 包括物理、解部、生理、精理及生化等, 绘称 为生理光学。本课程采用以 Adler《眼生理学》有关章与编译而成。其主要内容包括: 角膜、眼外肌、 眼内压、玻璃体、水晶体、调节、瞳孔、视觉调节、视力、色觉、双眼视觉等。

■眼镜学 Ophthalmic Lenses

Ophthalmic lenses aims at fundamental theories and knowledge about ophthalmic lenses and fitting techniques. Spherical lens, spherocyllens, the theory of thick lens are provided. It also includes the topics of lens materials, specification of lenses, fitting techniques. Clinical application to correction vision are facilitated throughout lab and pre-clinic practice.

眼镜学其实得是研究眼镜说片的基本理论。基本知识利限镜验配技术。内容包括线而镜片、球柱而镜片、环曲面镜片、楼镜和镜镜移心、双光、三光镜片、渐进镜片、 P透镜建论、镜片材料、镜架、镜片频量检测和镜片安 装技术、以及在廊床模瓷矫正中的应用。

■眼视光器械学 Ophthalmologic and Optometric Instrumentation

Ophthalmologic and Optometric Instrumentation expects the students to master the optic principles of ophthalmologic & optometric instruments and facilities. The topics will cover slitlamp micro scope, retinoscope, ophthalmosope, keratometer, optometer, tensmeter, tonometer, A B scan, Ophthmological photographic facilities. The clinical application and maintenance will be emphasized.

本環程使学生能事經常用眼視光器極的光学原理,了解它的基本结构、使用方法,上些内容包括眼科长学器械、视光学器械、涉及應科社查诊所设置,如製練灯显微波、眼形片、冷歐波、眼科摄影器械、眼科超步仪等,视分测定仪器,如心整线、验光仪等,还有眼和眼镜片光学激发发发器,如他飘曲卷针,眼镜片描光波激发光线。

■隐形眼镜学 Contact Lenses

Contact lenses covers the basic knowledge and latest development of contact lens. It includes contact lens history, optics, material, manufacture, solution, fitting and evaluation, rigid lens and soft lens, contact lens for astigmatism. Special topics will cover contact lens fitting for keratoconus, children, presbyopia and its therapeutic use. Contact lens associated complications will be discussed on its disanosis and management.

胞郵眼競涉及總形眼號的材料、制造、配載和临床处理的基本内容和最新进展。主要内容有能形眼镜光学、隐形眼镜材料、制造和萃型。隐形眼镜护理或、角膜、阴膜与隐形眼镜低藏关系、纵人的这样、霓喉前评价、硬镜和适气硬镜、軟结、频繁更换型眼镜和抛弃型眼镜、圆锥角膜、散光、老视、儿童等特殊类型镜片等。通过本课程的教学,使学生了解和掌握狼形眼镜的肝脉、特点、循床应用、并发标的诊断和处理。

■专业英语 Optometry English

Optometry English provides for the students who have compeleted the College English (Vol.1-TV) and basic of ophthalmology and optometry courses. The students are expected to develop, further ability of reading, speaking and writing in English on optometry practice. The contents will cover general ophthalmology, contact lens, clinical optometry and primary eye care.

本課程供五年輸品等天学院按照提先专中学生学习专业基惠使用,对象为己常修完《大学英语》1-19。 具备 一定语音、语法基础。 能够情助辞典阅读中等深度的似字文献,而且具备了原科学、视光学方面的知识和理论的高年级学生,该读程以专业英文教材生教学基本,内等沙及原科学、服徒学、临床视光学、晚花眼镜学学院

■ 验光学 Refraction

Refraction is based on laboratory and preclinic practice and problems solving discussion. The students will have proficiencies in clinical vision exam, subjective and objective refraction, binocular balance, phoria measurement.

验光学教学方式以实验室实习和临床前实习操作技能训练为主。并以小组方式和病例讨论方式作为学手段,学生 通过该读得训练,掌握主觉和客观验光的规范程序、双眼平衡、隐斜测量等

■斜视/弱视学 Strabismus and Amblyopia

Strabismus and Amblyopia provides an approach to the clinical evaluation and management of patients with strabismus and amblyopia. Included are etiology, signs and symptoms, natural history practical significance, and clinical management of commitant esotropia, commitant esotropia, and clinical management of commitant include recent faultion are considered as a management of committening the control of the committening of the control of

斜视/影视学主要强调斜

视弱视病人的临床诊断和处理方法,所涉及的内容有: 只转行斜视和非共转行斜视的病因、体征、症状,此外, 还涉及偏心注视、异常视网膜对应点、视觉抑制等临床间隙和处理方法

■ 双眼视 Binocular Vision

Binocular vision covers the topics of orthoptics, conceptual and functional definitions of vision therapy. Three primary areas discussed in this course include: ocular motor, accommodative and binocular visual dysfunction and their redemption.

双眼视的數學內容有: 正位视觉的概念,功能性视觉的定义,有关眼球动力学、调节和辐辏系统的协调和失调。 学生通过该课程学习,掌握双眼视觉问题的检测方法以及训练方法。

■ 低视力 Low Vision

Low Vision discusses the epidemiology of visual impairment, functional effects of ocular disorders, principles of magnification, low vision examination techniques, and patients education and training in the use of low vision aids.

低视力课程的主要内容有:视觉损失的病因、视觉损失的功能评价、放大器的原理、低视力检查方法,使 用低视力矫正器具的病人教育和训练。