

**Global Issues in Eye Care
Vision Science 5500
Spring Semester, 2018**

Instructors:

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Office Hours: Please arrange an appointment or stop by.

Room/Meeting Times:

Lecture will be held in Fry 22 (338 West 10th Avenue) from 5-6pm on Tuesdays.

Description:

This course is part of the series of courses offered to fulfill the requirements for the Graduate Interdisciplinary Specialization in Global Health, a university-wide program that helps current OSU graduate and professional students prepare to be active participants in the advancement of global health.

This course is designed for students who do not have a background in eye care. This course will provide an overview of the common causes of vision impairment and eye disease. Means to eliminate avoidable blindness will also be discussed.

Credit Hours: 1

Background:

Seventy five percent of blindness and visual impairment occurs in the poor and very poor communities of the world and 75% of blindness and visual impairment is a result of 5 *preventable* or *treatable* conditions. It is estimated that there are more than 670 million people in the world who are blind or vision impaired (VI) due to a need for glasses alone. Vision can affect quality of life, ability to read, and ability to perform some occupations. Lack of education regarding vision care and eye health is frequently a barrier to good eye health.

Objectives:

The objective of this course is to provide an overview of the common causes of vision impairment and discuss means to eliminate avoidable blindness.

Class Schedule

Date		Speaker
T 01-09	Epidemiology of Global Eye Diseases	Barbara Fink, OD, PhD
T 01-16	The World Health Organization's VISION 20/20; University of Gondar College of Optometry in Ethiopia	Dean VanNasdale, OD, PhD
T 01-23	Overview of the Association Between Eye and Systemic Health	Jackie Davis, OD, MPH
T 01-30	Diabetes and CDC and PPOD recommendations	Dean VanNasdale, OD, PhD
T 02-06	Nutrition and Vision	Nancy Stevens, MS, RD, LD
T 02-13	Models for Making a Difference in Global Eye and Vision Care: SVOSH	Bradley Dougherty, OD, PhD
T 02-20 5-6:30pm	Ocular and Head Trauma associated with Domestic Violence; Eye Issues associated with Opioid Addiction and Drug and Alcohol Abuse	Joan Nerderman, R.N., O.D.
T 02-27	Models for Making a Difference in Global Eye and Vision Care: Sustainable Model for Providing Vision Care in Jamaica	Doug McCloy, OD
T 03-06	Vision screening in adults (Glaucoma screenings and Schweitzer projects)	Jackie Davis, OD, MPH
T 03-13	Spring Break	
T 03-20	Eye Safety and Protection	Gregory Good, OD, PhD
T 03-27	Children's Vision Screening Models for Making a Difference in Global Eye and Vision Care: US (RAM)	Marjean Kulp, OD, MS Barbara Fink, OD, PhD
T 04-03	Student presentations on Models for Making a Difference in Global Eye and Vision Care Models for Making a Difference in Global Eye and Vision Care: Nicaragua	Rebecca Kuennen, MD
T 04-10	Student presentations on Models for Making a Difference in Global Eye and Vision Care Models for Making a Difference in Global Eye and Vision Care: Ghana and Nicaragua	Cate Jordan, MD
T 04-17		

Evaluation

Attendance

Attendance is required. Students must sign the attendance sheet for each presentation they attend. Only one excused absence is permitted per semester for students to receive a satisfactory grade for the course. Absences are to be made up by viewing a previously recorded talk, writing a one-page summary of the talk, and submitting this summary to the instructor of record for the semester.

Class Presentation

Students will create a PowerPoint presentation on an organization involved in global issues in eye care (individually or in small groups).

Students need to sign up for an organization in order to prevent overlap of presentations.

The presentation should be submitted to dropbox by March 20.

The presentation will be graded according to the rubric below. (Please see Dr. Kulp or Dr. Fink if there is a topic that you would like to select that does not seem to fit this outline.)

Area	Percentage of grade
Background/Introduction/Definition/Description of the problem(s)*	10
Describe the epidemiology of the problem(s)*	10
Describe the impact of the problem(s)*	10
Describe organization's efforts to meet need	30
Describe current needs	10
Presentation content well organized	20
Clear presentation	5
Inclusion of References	5
Total	100

*addressed by this organization

Paper

Each student will write a five-page (typed, double-spaced, 12-point font) paper, complete with at least 3 references, on a global issue in eye care. The paper will be graded according to the rubric below. Students should work independently on this paper. (Please see Dr. Kulp or Dr. Fink if there is a topic that you would like to select that does not seem to fit this outline.) Students should use at least 3 scientific sources and create a reference list, along with proper citations in the paper. Websites may be used if from an established organization (government or NGO) in health or global health (each website may only count as a single reference). References should not include Wikipedia or class notes. Please include at least 2 references from pub Med articles. References should be formatted using MLA or other established format. This paper will be due on or before Wednesday, April 3, 2018. Please submit the paper to the CARMEN dropbox.

Area	Percentage of grade
Background/Introduction/Definition/Description of the problem	15
Describe the epidemiology of the problem (prevalence, affected populations, risk factors, etc.)	15
Describe the impact of the problem (on the individual, society, etc.)	15
Describe potential means to resolve this issue	15
Describe current needs	15
Describe your personal reflections on the problem	5
Writing that is clear, compelling, grammatical, and error-free; Use of headings that follow rubric in paper (e.g. epidemiology, impact, etc.)	15
Inclusion of additional references (beyond the 3 minimum)	5
Total	100

Grades:

Your grade in this course will be based upon the following:

Class participation	15%
Class presentation	25%
Final essay	60%

There is not a predetermined or limited number of A's in this course.

Tentative Grading Scale (by percentage):

A : 93-100

A-: 90-92

B+: 87-89

B : 83-86

B-: 80-82

C+: 77-79

C : 73-76

C-: 70-72, etc.

Recommended Readings

Johnson GJ, Minassian DC, Weale RA, West SK. The Epidemiology of Eye Disease, 3rd ed. London: Arnold Publishers, 2012.

Markle WH, Fisher MA, Smego RA. Understanding Global Health, 2nd ed. McGraw-Hill, 2013.

Semba RD. Handbook of Nutrition and Ophthalmology. Totowa, New Hersey: Human Press, Inc., 2007. <http://www.springerlink.com/>

Articles in Optometric Education on cultural competency, humanitarian missions as an adjunct to education, linguistic competence, and minorities in optometry
http://journal.opted.org/?utm_campaign=Optometric%20Education%20Journal&utm_source=hs_email&utm_medium=email&utm_content=58471935&hsenc=p2ANqtz--FTkitbDHu6iudHAAfEbQxViX9ycCR0a1JaMczC2Z_R09o0lnAA2Ba6riWHLDnx08oxkEe28i6ZNCYDZB4pOMnqC3Hbw&hsmi=58471935

Mani S. "What's race got to do with it? Review of Optometry June 15, 2009; 146(6)

Padilla MA, DeStefano AF. A snapshot of optometry around the world. Review of Optometry June 15, 2009; 146(6)

Optometric Care within the Public Health Community (including chapter on "Cultural and Linguistic Competence" by Dr. Chu)
http://webpages.charter.net/oldpostpublishing/oldpostpublishing/optometric_care_within_the_publi.html.

ASCO Curricular Guidelines for Culturally Competent Eye and Vision Care
https://optometriceducation.org/files/Guidelines_CulturallyCompetentEyeAndVisionCare.pdf

Artis DL. Supply and demand for culturally competent eye care. Review of Optometry June 15, 2009; 146(6)

E-Books on general global health topics and clinical ophthalmology:

Arya AN, Evert J. Global Health Experiential Education: Form Theory to Practice. Taylor and Francis. 2017. <https://ebookcentral.proquest.com/lib/ohiostate-ebooks/reader.action?docID=5046898>

William R. A New Era in Global Health: Nursing and the United Nations 2030 Agenda for Sustainable Development. Springer Publishing Company. 2017.
<https://ebookcentral.proquest.com/lib/ohiostate-ebooks/detail.action?docID=4874729>

Skolnik RL. Global health 101. Jones & Bartlett learning. 2016.

<http://web.b.ebscohost.com/ehost/detail/detail?vid=0&sid=7a49a277-32da-407c-be7f-b4d882dc9355%40sessionmgr102&bdata=JnNpdGU9ZW9vc3QtbGl2ZQ%3d%3d#AN=1059027&db=nlebk>

Beracochea E. Improving Aid Effectiveness in Global Health. New York: Springer, 2015.

<http://ebooks.ohiolink.edu/xtf-ebc/view?docId=tei/sv2/9781493927210/9781493927210.xml&query=&brand=default>

Leon JK. The Rise of Global Health: The Evolution of Effective Collective Action. State University of New York Press. 2015.

<https://muse.jhu.edu/book/39113>

Elliott, David. Primary Eye Care. Elsevier. 2014.

<https://www.clinicalkey.com/#!/browse/book/3-s2.0-C20110052389>

Bowling B. Kanski's Clinical Ophthalmology. Elsevier. 2016

<https://www.clinicalkey.com/#!/browse/book/3-s2.0-C20120072808>

Website references:

<http://www.worldoptometry.org/>

<http://www.who.int/mediacentre/factsheets/fs213/en/> <http://www.iapb.org/>

<http://atlas.iapb.org/global-burden-vision-impairment/>

<https://www.tingarililverton.org/icee/>

<http://www.vosh.org/>

<http://www.orbis.org/>

<http://www.uniteforsight.org/>

<http://www.globalrevision.org/>

<https://onesight.org/>

<http://www.givingsight.org/>

<http://www.missionofsight.org/>

<http://www.who.int/blindness/partnerships/APOC/en/>