

CFISD World Health Research

Scope and Sequence

Course Description:

This course examines major world health problems and emerging technologies as solutions to these medical concerns. The course is designed to improve students' understanding of the cultural, infrastructural, political, educational, and technological constraints and inspire ideas for appropriate technological solutions to global medical care issues. (1 Credit)

- Grades 11 – 12
- Required prerequisite: Principles of Health Science and Biology I and Chemistry I
- Lab supplies or fee may be required

TEKS

Cluster: Health Science

Endorsement: Public Services

- Meets advanced course requirement (Y/N): Y
- Meets foundation requirement for math, science, fine arts, English, LOTE (Y/N-area): N

Industry Certification/Credentials: n/a

Instructional Units	Pacing
1 st Semester <ul style="list-style-type: none"> ● Course Introduction ● History of Disease & Technology ● World Health Concerns ● Healthcare Systems & Cost ● Public Health & Epidemiology ● Infectious Diseases ● Immunity & Diseases ● Maternal Perinatal Diseases & Conditions ● Chronic Diseases 	1st grading period 2nd grading period
2 nd Semester <ul style="list-style-type: none"> ● Types of Medical Technologies ● Medical Technology Developments ● Human Clinical Trials ● Ethics ● Research Project 	3rd grading period 4th grading period

Primary Instructional Materials: Biomedical Engineering for Global Health, by Rebecca Richards-Kortum ISBN 9780521877978 . Publisher Cambridge University Press

Rev for Fall, 2018

Supplemental Instructional Materials (optional districtwide, but individual campuses should be consistent in use):

Blue Marble Health, by Peter J. Hotez, MD, PhD. John Hopkins University Press 2016 ISBN 9781421420462

<https://globalhealthtrainingcentre.tghn.org>

www.cdc.gov

www.who.int

www.txcte.org

Free Online Courses - WHO <http://www.who.int/management/newitems/en/index1.html> (Register for online courses after creating an account through this link <https://globalhealthtrainingcentre.tghn.org>)

<http://www.aeseducation.com/healthcenter21>