Humanitarian-Centered Design and Innovation through Making

main class instructor: Lennon Rodgers

The main class for this FIG, Interdisciplinary Courses (Engineering): “Design Practicum,” will teach you to use engineering tools to address a need for a community in Kenya, Africa. For example, the community may be constrained by their lack of access to key resources like power, transportation, clean water, and food. The FIG will meet in the new UW Makerspace, which is a student-focused, high-tech, rapid prototyping facility with tools across multiple disciplines (electrical, mechanical, computers, and the arts). You will be trained on a wide range of digital fabrication equipment and work in small groups to develop sustainable and affordable products for your clients. You will be encouraged to pursue other related opportunities on campus and participate in an optional 3-week summer study abroad program in Kenya to test your design.

Chemistry 103: “General Chemistry I” – Stoichiometry and the mole concept, the behavior of gases, liquids and solids, thermochemistry, electronic structure of atoms and chemical bonding, descriptive chemistry of selected elements and compounds, intermolecular forces.

History 277: “Africa: An Introductory Survey” – African society and culture, polity and economy in multidisciplinary perspectives from prehistory and ancient kingdoms through the colonial period to contemporary developments, including modern nationalism, economic development and changing social structure.

11 credits

for “direct admit” students the College of Engineering

MAIN CLASS
Interdisciplinary Courses (Engineering) 170
Design Practicum

LINKED CLASS
Chemistry 103
General Chemistry I

LINKED CLASS
History Department 277
Africa: An Introductory Survey

more on the other side
Enrolled in a FIG and you change your mind?

FIG classes are designed to be taken together. When you enroll in a FIG, you are signed up for these classes as a whole group, not as separate classes. Dropping one FIG class means ending your enrollment in all of the classes in the FIG. So, here's what you should know if you want to drop the FIG:

- You can drop all the classes on your own at enroll.wisc.edu. Any non-FIG class will not be affected.
- After classes begin, if you need to drop a single class within the FIG, please contact Kari Fernholz (see below) to review your situation. If necessary, she will provide the required authorization to drop the class.
- **Wednesday, September 11, 2019** is the last day to drop a class without it appearing on your college transcript.
- **Friday, September 13, 2019** is the last day to add a class without first getting department permission.

**FIG 37 • Fall 2019**

**MAIN CLASS**

Interdisciplinary Courses (Engineering) 170

Design Practicum

LEC 2: R 11:00–11:50 +
LAB 306: T 1:20–4:20

credits: 3

class number: 63665

**LINKED CLASS**

Chemistry 103

General Chemistry I

LEC 1: MWF 11:00–11:50 +
DIS 319: MW 12:05–12:55 +
LAB 619: M 2:25–5:25

- Physical Science
- Elementary

credits: 4

class number: 60999

**LINKED CLASS**

History Department 277

Africa: An Introductory Survey

LEC 1: TR 9:30–10:45 +
DIS 304: T 4:35–5:25

- Humanities or Social Science
- Intermediate

credits: 4

class number: 60433