



# Humanitarian-Centered Design and Innovation through Making

[figs.wisc.edu/2019fall37](http://figs.wisc.edu/2019fall37)

**FIG 37 • Fall 2019**

main class instructor: **Lennon Rodgers**

**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**

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. ●

more on the other side

# Humanitarian-Centered Design and Innovation through Making

figs.wisc.edu/2019fall37

FIG 37 • Fall 2019

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:00 am					
9:00 am					
10:00 am		HISTORY 277 LEC 1 9:30–10:45 am		HISTORY 277 LEC 1 9:30–10:45 am	
11:00 am					
12:00 pm	CHEM 103 LEC 1 11:00–11:50 am		CHEM 103 LEC 1 11:00–11:50 am	INTEREGR 170 LEC 2 11:00–11:50 am	CHEM 103 LEC 1 11:00–11:50 am
1:00 pm	CHEM 103 DIS 319 12:05–12:55 pm		CHEM 103 DIS 319 12:05–12:55 pm		
2:00 pm				INTEREGR 170 LAB 306 1:20–4:20 pm	
3:00 pm	CHEM 103 LAB 619 2:25–5:25 pm				
4:00 pm					
5:00 pm					HISTORY 277 DIS 304 4:35–5:25 pm
6:00 pm					

## 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](http://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.

## 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**



University of Wisconsin–Madison • [figs.wisc.edu](http://figs.wisc.edu)

Nathan Phelps, director • 608-263-6504 • [nathan.phelps@wisc.edu](mailto:nathan.phelps@wisc.edu)

get help from **Kari Fernholz**, assistant director  
608-262-7375 • [kari.fernholz@wisc.edu](mailto:kari.fernholz@wisc.edu)

June 4, 2019 11:07 AM