### NST 11 Introduction to Toxicology 3 units

### **General Information**

Class Hours: Tuesday and Thursday, 10-11am, 105 Stanley Hall

Discussion sections: Monday:

Discussion 101: 3-4pm 101 Moffitt Library Discussion 102: 4-5pm 150D Moffitt Library

Wednesday:

Discussion: 103: 11am-12pm 155 Kroeber

Discussion 104: 12-1pm 247 Cory

Friday:

Discussion 105: 8-9am 103 GPB Discussion 106: 9-10am 56 Barrows

Course website: See: https://bcourses.berkeley.edu/courses/

Required Text: none

Instructors:

Jen-Chywan (Wally) Wang, 315 Morgan Hall

Phone: 643-1039

e-mail: walwang@berkeley.edu Office Hours: 1-2pm, Tuesday

Daniel Nomura, 127 Morgan Hall

Phone: 643-2184

Email: dnomura@berkeley.edu Office Hours: To be Announced

Sona Kang, 316 Morgan Hall

Phone: 664-7524

Email: kangs@berkeley.edu

Office Hours: 2-3pm, Tuesday and Thursday

## Graduate student instructors:

Rebecca Lee

Email: rebeccaalee@berkeley.edu

Office Hours: Tuesdays 9-10am 124A Morgan Hall

Discussion sessions: 103 and 104

Damian Costello

Email: damian\_costello@berkeley.edu

Office Hours: Thursdays 9-10am 124A Morgan Hall

Discussion sessions: 105 and 106

Amanda Keller

Email: amanda.keller@berkeley.edu

Office Hours: Th 12-1pm LKS 1<sup>st</sup> Floor Lobby

Discussion sessions: 101 and 102

## **Course Objectives:**

- 1. To become familiar with the fundamental concepts of toxicology.
- 2. To become aware of important toxic hazards in the local environment.
- 3. To develop knowledge of the impact of toxins in the world.

#### **Examinations:**

There are three examinations in this class and each is worth 100 points. The attendance for lecture will be 20 points. Discussion pop quizzes and attendance will be worth a total of 80 points for the semester. The maximum total points for the examinations and quizzes for the semester will be 400 points. For grades, the total points breakdowns are as follows: 380-400 A+, 340-379 A, 320-339 A-, 300-319 B+, 260-299 B, and 240-259 B-. The exams will cover material from the previous 4-5 weeks of the course, including guest lectures.

Midterm Exams: Two exams on the following dates: February 13 and March 22.

Final Exam: Exam group 19: Friday 5/11/18 3-6pm (Location TBA)

NST 11 Spring, 2018 Lecture: Tu, Th 10-11 am Room: Stanley 105

# **Introduction to Toxicology**

# **COURSE OUTLINE**

Lecture		Date	Торіс
1.	Tues.	Jan. 16	Introduction of toxicology-1 (WW)
2.	Thurs.	Jan. 18	Fundamental concepts of toxicology-1 (WW)
3.	Tues.	Jan. 23	Fundamental concepts of toxicology-2 (WW)
4.	Thurs.	Jan. 25	Guest Lecture—Tyrone Hayes (Professor, Integrative Biology)
5.	Tues.	Jan 30	Neurotoxins (DKN)
6.	Thurs.	Feb. 1	Street Drugs and Addiction (DKN)
7.	Tues.	Feb. 6	Drug Discovery and Toxicology (DKN)
8.	Thurs.	Feb. 8	Drug Discovery and Toxicology (DKN)
9.	Tues.	Feb. 13	Exam #1 (WW and DKN)
10.	Thurs.	Feb. 15	The Concept of Toxicogenomics/Pharmacogenomics (WW)
11.	Tues.	Feb. 20	Endocrine Disrupter-1 (SK)
12.	Thurs.	Feb. 22	Endocrine Disrupter-2 (SK)
13.	Tues.	Feb. 27	Guest Lecture—Dale Johnson (Professor, NST)
14.	Thurs.	Mar. 1	Obesogens (SK)
15.	Tues.	Mar. 6	Guest Lecture—John Casida (Professor, NST)
16.	Thurs.	Mar. 8	Carcinogenesis 1 (SK)
17.	Tues.	Mar. 13	Carcinogenesis 2 (SK)
18.	Thurs.	Mar. 15	Pesticides and GMO's vs Organic Foods (SK)
19.	Tues.	Mar. 20	Pesticides and GMO's vs Organic Foods (SK)
20.	Thurs	Mar. 22	Exam #2 (SK and WW)
21. March 26-30			Spring Break
22. Tues. Apr. 3			Food Additive (WW)
23. ′	Thurs. 1	Apr. 5	Guest Lecture—Len Bjeldanes (Professor, NST)
24.	Tues. A	Apr. 10	Food Toxins (WW)

- 25. Thurs. Apr. 12 Guest Lecture—Tom Carlson (Professor, Integrative Biology)
- 26. Tues. Apr. 17 Ethanol, Nicotine, and Caffeine-1 (SK)
- 27. Thurs. Apr. 19 Ethanol, Nicotine, and Caffeine-2 (SK)
- 28. Tues. Apr. 24 Heavy Metal-1 (SK)
- 29. Thurs. Apr. 26 Heavy Metal-2 (SK)
- 30. April 30-May 4 Reading and Review

Final Exam: Group, Friday May 11<sup>th</sup>, 3:00-6:00 p.m.