Department of Nutritional Sciences and Toxicology University of California, Berkeley

NST 110: Toxicology (4 units)

General Information

Class Hours:	Tuesday and Thursday, 8:00-9:30, 101 Morgan Hall
Faculty instructors:	Jen-Chywan (Wally) Wang, 231 Morgan Hall Phone: 510-643-1039 Email: walwang@berkeley.edu Office hours: Monday 3-4 pm, or by appointment
Cure durate Student Instances	Daniel Nomura, 127 Morgan Hall Phone: 510-643-7258 Email: dnomura@berkeley.edu Office Hours: Tuesday/Thursday 9:30-10:30am Tuesday/Thursday 4-5pm By google-messaging (dnomura@berkeley.edu) By skype (SN: danielnomura) Or by appointment
Graduate Student Instructors	Breanna Ford Email: <u>breannadrew@berkeley.edu</u> Office hours: Tuesday 3-4, 124 Morgan Hall
	Jinnie Chen e-mail: <u>tcchen@berkeley.edu</u> Office hours: Fridays 9:30-10:30, 124 Morgan Hall
Prerequisites:	Organic chemistry, biochemistry and a course in biology
Optional Text:	<i>Casarett & Doull's Toxicology - the Basic Science of Poisons</i> , 7th ed. C.D. Klaassen, editor. (online) http://site.ebrary.com/lib/berkeley/docDetail.action?docID=10211741
Course website:	bcourses.berkeley.edu

<u>Course Objectives</u>:

- 1. To become familiar with basic chemical and biological aspects of toxicology.
- 2. To describe and evaluate the toxicology of certain natural and man-made environmental substances.
- 3. To appreciate certain current research issues important to toxicology.

Examinations:

Exams:	Two exams on the following dates:	10/6 and 11/3

<u>Final Exam</u>: will be posted by campus

If the student has an emergency, which prohibits him/her to attend the exam, the student needs to provide an appropriate prove to get the permission for a make up exam. The make up exam shall be scheduled within 2-3 days of original exam date.

Grading:

Grading is based on points earned from two midterms (100 pts. each), a final (100 pts.) and work in the required Discussion section (100 pts total) (80 pts quizzes, 20 pts participation) for a total of 400 points. Final exam contains 30% of questions from first two sections. Grading scale: A: 80-100 %; B: 60-80%; C: 40-60%; D: 20-40 %; F: 0-20 %

Course Website on Berkeley BCourses:

All students are required to sign up for the course website on Berkeley BCourses at <u>bcourses.berkeley.edu</u> as soon as possible. All PowerPoint and PDF format lectures and handouts, as well as any class announcements, will be posted on Bcourses.

Department of Nutritional Sciences and Toxicology University of California, Berkeley NST 110 Fall 2015 Lecture: T, Th 8:00-9:30 Room 101 Morgan Hall

Toxicology, Fall 2015

COURSE OUTLINE

Lecture # Date		Date	Торіс
DN1	Thurs	Aug 27	Introduction, description of the course, Principles of toxicology
DN2	Tues	Sept 1	Absorption and Distribution
DN3	Thurs	Sept 3	Metabolism—Phase I
DN4	Tues	Sept 8	Metabolism/Bioactivation—Phase I/II
DN5	Thurs	Sept 10	Metabolism/Bioactivation/Regulation—Phase I/II
DN6	Tues	Sept 15	Review/Examples of Absorption/Distribution/Phase I/II
DN7	Thurs	Sept 17	Excretion/Toxicokinetics
DN8	Tue	Sept 22	Mechanisms of Toxicity-1
DN9	Thurs	Sept 24	Mechanisms of Toxicity-2
DN10	Tue	Sept 29	Carcinogenesis
DN11	Thurs	Oct 1	Carcinogenesis
	Tues	Oct 6	EXAM # 1
DN12	Thurs	Oct 8	Neurotoxicology-1
DN13	Tue	Oct 13	Neurotoxicology-2
DN14	Thurs	Oct 15	Pesticide Toxicology
WW1	Tue	Oct 20	Nuclear Receptors in Toxicology-1
WW2	Thurs	Oct 22	Nuclear Receptors in Toxicology-2
FS1	Tues	Oct 27	Immunotoxicology
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WW3 Thurs Oct 29 Metals

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Lecture	Day	Date	Торіс
	Tues	Nov 3	EXAM #2
WW4	Thurs	Nov 5	Developmental/Reproductive Toxicology
DN15	Tues	Nov 10	Risk Assessment
DN16	Thurs	Nov 12	Pharmaceutical Toxicology
WW5	Tues	Nov 17	Plant Toxins
WW6	Thurs	Nov 19	Fungal Toxicology
WW7	Tues	Nov 24	Marine Toxins
	Thurs	Nov 26	Thanksgiving Holiday
DN17	Tue	Dec 1	Next steps in Toxicology
	Thurs	Dec 3	Review

DN: Daniel Nomura WW: Wally Wang FS = Fenna Sille