

BIOLOGY 343 TENTATIVE COURSE OUTLINE
July 3th to August 9, 2013

Instructor: Shona Ellis, Phone: 604-754-7725, Office: **BioSci 2531**

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Lectures: Monday, Wednesday, and Friday, 10:30 – 12:00, **BioSci 2200**

Labs and Field Trips: Monday, Wednesday, and Friday, 2:00 – 5:00, **BioSci 3067**

Teaching Assistant: Chris Lee

Textbook: Levetin, E. and K. McMahon, 2011, 6th Ed Plants and Society.

Website: www.connect.ubc.ca

Lab Fee: \$20.00

| <i>Date</i> | <i>Lectures</i> | <i>Labs and Field Trips</i> |
|-------------|--|---|
| July 3 | Unit 1 - Introduction | <i>Field Trip:</i> Pacific Spirit Park |
| July 5 | Unit 2 - Plant Structure | Lab #1: Plant Structure I |
| July 8 | Unit 2 - Plant Structure | Lab #1: Plant Structure I |
| July 10 | Library Orientation | Lab #2: Plant Structure II (Quiz #1) |
| July 12 | Unit 3 - Flowers to Fruit | Lab #3: Reproduction |
| July 14 | <i>Optional Fieldtrip:</i> Stanley Park | |
| July 15 | <i>Arboretum Walk</i> | Unit 4 - Origins and History of Agriculture (and other Food Plants) |
| July 17 | Unit 5 - Plant Biotechnology, Genetically Modified Plants | Lab #4: Plant Families I (Quiz #2) |
| July 19 | Special Topic: Plants to Dye For | <i>Optional Activity:</i> Plants to Dye For |
| July 22 | Unit 6 - Spice of Life! | <i>Optional Fieldtrip:</i> China Town |
| July 24 | <i>Optional Fieldtrip:</i> UBC Farm | Lab #5: Plant Families II (Quiz #3) |
| July 26 | Unit 7 - Substances Extracted from Plants | Lab #6: Plant Families III (Quiz #4) |
| July 29 | Unit 8 – Plant Hunters | <i>Field Trip:</i> Beaty Museum |
| July 31 | Unit 9 - Stimulating Beverages | Lab #7: Medicinal and Poisonous Plants – <i>Extraction for Antibiotic Assay</i> |
| August 1 | <i>Optional Fieldtrip:</i> UBC Botanical Garden | |
| August 2 | Unit 10 – Medicinal and Poisonous Plants | Lab Exam – <i>Antibiotic Assay</i> |
| August 5 | <i>BC Day - Holiday</i> | |
| August 7 | Unit 10 – Medicinal and Poisonous Plants | Unit 11 – Ethnobotany – <i>Antibiotic Assay Data Collection</i> |
| August 8 | <i>Optional Fieldtrip:</i> Anthropology Museum | |
| August 9 | Class Presentations | Class Presentations |
| TBA | Lecture Final Exam | |

**Fieldtrips:* Pacific Spirit Park, UBC Arboretum, and Beaty Museum are mandatory. You should attend at least two additional fieldtrips. Three optional fieldtrips will be offered outside of class time (Stanley Park, UBC Botanical Garden and Brewery Tour).

Students are responsible for looking at information provided about Academic Honesty and Freedom on the front page of the course website.

*Students **must** pass the lab to pass the course.

Evaluation:

Lab Component:

Quizzes (4%)

Lab Final Exam (30%)

*Students **must** pass the lab to pass the course.

Lecture and Online:

Assignments, and Participation (6%)

Lecture Final Exam (35%)

Oral or Poster Presentation (5%)

Project (20%)

Important Dates:

- July 3 - First day of class! Forest Fieldtrip (meet: 16th and Wesbrook Ave, 2:00)
- July 4 - Due: **Web Assignment (midnight)**
- July 5 - Due: **Forest Walk-Ethnobotany** Assignment due
- July 10 - Library "Fieldtrip"; Due: **Root Secondary Growth** Assignment; **Quiz #1** (in Lab)
- July 12 - Due: **Monocots vs. Eudicots** Assignment
- July 14 - Fieldtrip to Stanley Park (Optional)
- July 15 - Due: UBC Arboretum Fieldtrip and **Tree Report**
- July 17 - **Quiz #2**; Due: Summary of **Term Paper/Project Topic** (post)
- July 19 - **Guest Lecturer:** Plants to Dye For; **Optional Activity:** Plants to Dye For
- July 22 - Due: **Spices from your Cupboard** (post), Fieldtrip to Chinatown (Optional)
- July 24 - Fieldtrip to UBC Farm (Optional), **Quiz #3**
- July 26 - Due: Bring **Food Wrapper with at least 8 Ingredients** to lecture (and publish list of ingredients to Discussion Board by 9:00am).
- July 26 - **Quiz #4**; Due: **Reading Assignment** (Jared Diamond) – by midnight
- July 29 - Fieldtrip to Beaty Museum and Biodiversity Centre
- July 31 - Due: Bring botanical medicines or plant material for bioassay to lab.
- August 1 - Fieldtrip to UBC Botanical Garden (Optional)
- August 2 - **Final Lab Exam**
- August 5 - **No classes – BC Day**
- August 8 - Fieldtrip to Anthropology Museum (Optional)
- August 9 - Presentations; Due: **Term paper/Project**
- TBA - Final Lecture Exam