Plants dominate the world and they dominate our cuisine. This course will explore how plants influence people to the point of dominating our lives, even our politics. The vegetables we push around our plates have strange histories. Stimulants have even stranger histories. You may very well ask yourself, “What’s coming next?” Our relationships with plants is super-dynamic. It ranges from farmers squeezing profits out of simple cash crops, to rogue governments looking to their farmers for crops that will pay the military bills. Plants are freighted with symbolism. Some are buried deep in religion. Plants weave their way into our music and poetry, yet others are the target of derision and hatred, causing people to protest en masse. Food riots are always plant food riots. Famines are always due to mismanaged food supplies. And yes, plants can make us laugh, too. There will be lots to discuss.

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11. ORCHIDS

12. HISTORY OF GARDENS

13. FINNERTY GARDENS

14. CITRUS FRUIT

15. PINEAPPLES & AVOCADOS
21. GIN

22. BEER

23. SUNFLOWER

24. COTTON

25. TEA, COFFEE & CHOCOLATE
26. HOT BEVERAGES

27. POISONOUS PLANTS

28. PLANTS IN MEDICINE

29. IMAGINATION

30. STUNNING PLANTS & FAVOURITE LECTURE POLL

BIOLOGY 334 – PLANTS AND PEOPLE - 2013

PLEASE INDICATE YOUR FIVE FAVORITES WITH AN F
STROKE OUT YOUR FIVE LEAST FAVORITE:

1  “Who put the worm in the garden”’
2  plonk
3  King Wheat
4  vodka
5  Madame Geneva
6  Citizen Wheat
7  moose, bison, beavers

19 plants in medicine & alternative
20 tomatoes & peppers
21 olive oil
22 “The Pesto Connection”
23 trees: spirituality and landcare
24 Canadian lumber
Readings for Lectures 1-5

Lecture 1 – Introduction
None

Lecture 2 – Potato
7th edition – Chapter 14 (everything except cassava, taro, Jerusalem artichoke; don’t bother reading A closer look 14.2) and since this is the first in the “rooted” section, please read pages 34-36 on root structure
8th edition – Chapter 14 (everything except cassava, taro, Jerusalem artichoke; don’t bother reading A closer look 14.2) and since this is the first in the “rooted” section, please read pages 35-37 on root structure

Lecture 3 – Tulips
7th – 71-72 (A closer look 5.1, Mad about Tulips)
8th – 71-72 (A closer look 5.1, Mad about Tulips)

Lecture 4 – Botanical Barriers
None

Lecture 5 – Sugar
7th edition – 53-54 (A Closer Look: Sugar & Slavery); 277 (The high price of chocolate); 303 (The cotton gin); 302 (Table 18.2 Slavery and Cotton Production in the South); Because this is the first lecture on stems, please read pages 33-34 on stem structure
8th edition – 53-54 (A Closer Look: Sugar & Slavery); 286-287 (The high price of chocolate); 313-314 (The cotton gin) 314. (Table 18.2 Slavery and Cotton Production in the South). Because this is the first lecture on stems, please read pages 33-35 on stem structure.

Important: Information in readings is testable. For any lecture that has assigned readings, 20 % of the questions on a quiz will be from the readings. The questions are usually obvious.
Readings for Lectures 6-12

Lecture 6 – Dendrochronology
7th edition – A Closer Look 3.1 Studing ancient tree rings 36-37
8th edition – A Closer Look 3.1 Studying ancient tree rings; 37-38

Lecture 7 – Rubber & Honey
7th edition – 80-81, 384, 490-491
8th edition – 81, 398, 508-509

Lecture 8 – Tobacco
7th edition – 357-361. Because this is the first lecture on leaves, please read pages 36-40 on leaf structure
8th edition – 370-374; Because this is the first lecture on leaves, please read pages 37-41 on leaf structure

Lectures 9 – Psychoactive Plants
Chapter 20

Lectures 10 – Marijuana
Chapter 20

Lecture 11 – Orchids
7th edition – Because this is the first lecture on flowers, please read pages 70-74 on floral structure; 289-290 (Vanilla)
8th edition – Because this is the first lecture on flowers, please read pages 70-74 on floral structure; 299-300 (Vanilla)

Lecture 12 – Gardens - History
None

Lecture 13 – Finnerty Gardens
None

Important: Information in readings is testable. For any lecture that has assigned readings, 20% of the questions on a quiz will be from the readings. The questions are usually obvious.
Readings for Lectures 14-21

Lecture 14 – Citrus Fruit
7th – 94-96. Because this is the first lecture on fruit, please read pages 85-86 on fruiting structures.
8th – 95-97. Because this is the first lecture on fruit, please read pages 86-87 on fruiting structures.

Lecture 15 – Pineapple & Avocado
7th – 85-86
8th – 86-87

Lecture 16 – Olive Oil
None

Lecture 17 – Tomatoes & Peppers
7th edition – 89-93 (don’t read A Closer Look 6.1); 287-289
8th edition – 88-94 (don’t read A Closer Look 6.1); 297-299

Lecture 18 – Rosid Fruit

Lecture 19 – Wine
7th edition – 432-439
8th edition – 447-454

Lecture 20 – Vodka
7th edition – 442-449 (including A Closer Look: Alcohol & Health) you do not need to read Fungi as Food).
Because this is the first lecture on seeds, please read pages 87-88 on seed structures.
Because this is the first lecture on seeds, please read pages 88-89 on seed structures.

Important: Information in readings is testable. For any lecture that has assigned readings, 20 % of the questions on a quiz will be from the readings. The questions are usually obvious.
Readings for Lectures 22-29

Lecture 21 – Gin
None
Lecture 22 – Beer
  7th edition – 439-441
  8th edition – 454-457
Lecture 23 – Sunflower
  7th edition – Fig. 1.3
  8th edition – Fig. 1.3
Lecture 24 – Cotton
  7th – 302-305
  8th – 312-315
Lecture 25 – Tea, Coffee & Chocolate
  7th edition – Chapter 16
  8th edition – Chapter 16
Lecture 26 – Hot Beverages
  Chapter 16 (same as for tea, coffee & chocolate)
Lecture 27 - Poisonous Plants
  Chapter 21
Lecture 28 – Plants in Medicine
  Chapter 19
Lecture 29 – Imagination
None
Lecture 30 – Stunning Plants
None

Important: Information in readings is testable. For any lecture that has assigned readings, 20 % of the questions on a quiz will be from the readings. The questions are usually obvious.
COURSE DETAILS

Instructor: Patrick von Aderkas, Professor  Email: pvonader@uvic.ca
Teaching Assistant: Camille Giuliano  Email: cgiuliano@uvic.ca
Office hours:
1. January 11-23: By appointment only. To help you find my office, a map and a video are provided in Brightspace.
2. After January 24: To be determined. A link will be provided in Brightspace.

Prerequisite: Minimum third-year standing. If you are a Biology Major this is a reminder that Plants and People is a science elective for everyone except Biology majors for whom it is an elective, i.e. not a science elective.

Course philosophy: During this course we will cover aspects of biology, evolution and history of some common economic plants. At one level the course is roughly divided according to plant parts, e.g. flowers, seed. At another level the course has elements of participation in the great outdoors of Finnerty Gardens as well as within a discussion space that will provide you with opportunities to expand your understanding of plants. My aim is to delight, inform and challenge.

Expectation in terms of number of hours per week
Reading varies by week, ranging from none to a couple of chapters.
Packback usually takes one to two hours.

Safety Net
I would like everyone to succeed, so please avail yourself of these resources.
If you miss a class... all lectures will be available after class in podcast form. In class lectures will not be recorded, i.e. Echo360 will not be used in this course.
Lecture notes are supplied in Brightspace following every class.
Practice questions of the exact type in the quizzes will be posted regularly.

Georges Seurat: Sunday Afternoon on La Grande Jatte
Social Distancing on La Grande Jatte
What you need to purchase

**Required text:** Levetin and McMahon–Plants and Society. McGraw-Hill. Either the seventh (2015) or eighth edition (2020) is acceptable. Bookstore price for a new text is $137.95 (8th edn.); bookstore price of the electronic version [180 day] is $69

**Packback:** It costs $29. The community look up key is the following: BIOL 334: cb1a84e3-30a3-4013-82da-4bbb740c2758

What you need to know about evaluation and grading

<table>
<thead>
<tr>
<th>Mark breakdown</th>
<th>%</th>
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<tbody>
<tr>
<td>Participation (Packback-regulated)</td>
<td>16</td>
</tr>
<tr>
<td>Quizzes</td>
<td>84</td>
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<tr>
<td>Total</td>
<td>100</td>
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**The Quiz mark** is based on the best four out of five quizzes. Therefore, each quiz is worth 21%. Quizzes will cover material in the posted lecture notes as well as in the assigned readings, but **not** in Packback. All quizzes will be online.

**Packback:** For most of you this is something completely new. You should think of it as an “ideas lab”. It is designed to help teach you to ask – and answer – questions in an academic fashion. This platform is integrated into Brightspace and will be monitored. Properly constructing relevant questions opens up a lot of the underlying issues in how we understand plants, not to mention how you personally relate to plants. Packback definitely provides a space in which you can express yourself. In some weeks, Packback will be linked to exploring Finnerty Gardens. Packback is required for the participation mark. Beginning in the second week, you are required to post one question and answer two questions. You must reach a curiosity score of 60%. The Packback exercise is due at 17:00 each Friday afternoon.

Your Packback mark is based on the best 8 out of 10. They are worth 2% each.

**Missing a quiz:**
If you expect to miss a quiz for any reason, please notify me and we will work out alternative arrangements. If you are not able to give prior notice, get in touch with me as soon as you are able.

All grades at UVic are submitted as percentiles, which is how it will appear on the academic transcript. Percentiles above 0.5 % will be rounded up.

**Final Exam:** There is neither a final exam nor a supplementary exam.
<table>
<thead>
<tr>
<th>No.</th>
<th>Day &amp; Date</th>
<th>Title</th>
<th>Packback</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>T 11-Jan-22</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>W 12-Jan-22</td>
<td>Potato</td>
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<tr>
<td>3</td>
<td>F 12-Jan-22</td>
<td>Tulips</td>
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<td>LL</td>
<td>F 14-Jan-22</td>
<td>ZOOM</td>
<td></td>
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<tr>
<td>4</td>
<td>T 18-Jan-22</td>
<td>Botanical Barriers</td>
<td>Packback-1</td>
</tr>
<tr>
<td>5</td>
<td>W 19-Jan-22</td>
<td>Sugar</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>F 19-Jan-22</td>
<td>Dendrochronology</td>
<td>Packback-1</td>
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<tr>
<td>LL</td>
<td>F 21-Jan-22</td>
<td>ZOOM</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>T 25-Jan-22</td>
<td>Rubber &amp; Honey</td>
<td>Packback-2</td>
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<tr>
<td></td>
<td>W 26-Jan-22</td>
<td>QUIZ No. 1</td>
<td></td>
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<tr>
<td>8</td>
<td>F 28-Jan-22</td>
<td>Tobacco</td>
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<tr>
<td>9</td>
<td>T 1-Feb-22</td>
<td>Psychoactive Plants</td>
<td>Packback-3</td>
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<td>10</td>
<td>W 2-Feb-22</td>
<td>Marijuana</td>
<td></td>
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<tr>
<td>11</td>
<td>F 4-Feb-22</td>
<td>Orchids</td>
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<td>12</td>
<td>T 8-Feb-22</td>
<td>Gardens-History</td>
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<td>13</td>
<td>W 9-Feb-22</td>
<td>Finnerty Gardens</td>
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<td>F 11-Feb-22</td>
<td>QUIZ No. 2</td>
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<td>14</td>
<td>T 15-Feb-22</td>
<td>Citrus Fruit</td>
<td>Packback-4</td>
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<tr>
<td>15</td>
<td>W 16-Feb-22</td>
<td>Pineapple &amp; Avocado</td>
<td></td>
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<tr>
<td>16</td>
<td>F 18-Feb-22</td>
<td>Olive Oil</td>
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<td>Febr 21-25</td>
<td>READING BREAK</td>
</tr>
<tr>
<td>17</td>
<td>T 1-Mar-22</td>
<td>Tomatoes &amp; Peppers</td>
<td>Packback-5</td>
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<td>18</td>
<td>W 2-Mar-22</td>
<td>Rosid Fruit</td>
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<tr>
<td>19</td>
<td>F 4-Mar-22</td>
<td>Wine</td>
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Important dates in the Spring Term 2022

January 26, Wednesday: Last day for adding this course.
January 30, Sunday: Last day for 100% reduction of fees for standard courses. 50% of tuition fees will be assessed for courses dropped after this date.
January 31, Monday: Last day for paying fees without financial penalty.
February 13, Sunday: Last day to drop courses for a 50% reduction of tuition fees. 100% of tuition fees will be assessed for this course dropped after this date.
February 21, Monday: Family Day Holiday
February 21-25: Reading Break
February 28, Monday: Last day for withdrawing from this course without penalty of failure.
April 7, Thursday: Last day of class.
April 11, Monday: Exam period begins
April 15, Good Friday: Holiday
April 18, Easter Monday: Holiday
April 29, Saturday: Exam period ends

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<th>No.</th>
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<td>QUIZ No. 3</td>
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<td>21</td>
<td>F 11-Mar-22</td>
<td>Gin</td>
<td>Packback-6</td>
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<td>22</td>
<td>T 15-Mar-22</td>
<td>Beer</td>
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<td>23</td>
<td>W 16-Mar-22</td>
<td>Sunflower</td>
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<td>24</td>
<td>F 18-Mar-22</td>
<td>Cotton</td>
<td>Packback-7</td>
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<tr>
<td>25</td>
<td>W 23-Mar-22</td>
<td>Tea, Coffee &amp; Chocolate</td>
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<tr>
<td>26</td>
<td>F 25-Mar-22</td>
<td>Hot Beverages</td>
<td>Packback-8</td>
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<tr>
<td>27</td>
<td>T 29-Mar-22</td>
<td>Poisonous Plants</td>
<td></td>
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<td>28</td>
<td>W 30-Mar-22</td>
<td>Plants in Medicine</td>
<td></td>
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<tr>
<td>29</td>
<td>F 1-Apr-22</td>
<td>Imagination</td>
<td>Packback-9</td>
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<td>30</td>
<td>T 5-Apr-22</td>
<td>Stunning Plants &amp; Poll</td>
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<td>W 6-Apr-22</td>
<td>QUIZ No. 5</td>
<td>Packback-10</td>
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