

Plants & People

Tue/Wed/Fri 8:30 am | HSDA240 | pvonader@uvic.ca | 250-721-8925



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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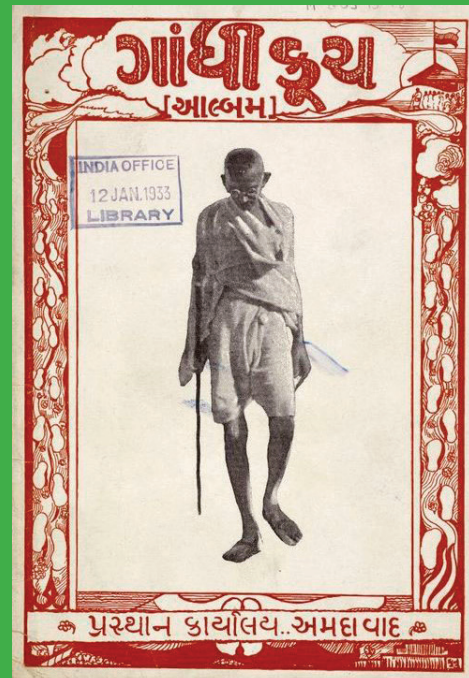
1. INTRODUCTION

2. POTATO



3. TULIPS

4. BOTANICAL BARRIERS



5. SUGAR



6. DENDROCHRONOLOGY



7. RUBBER & HONEY

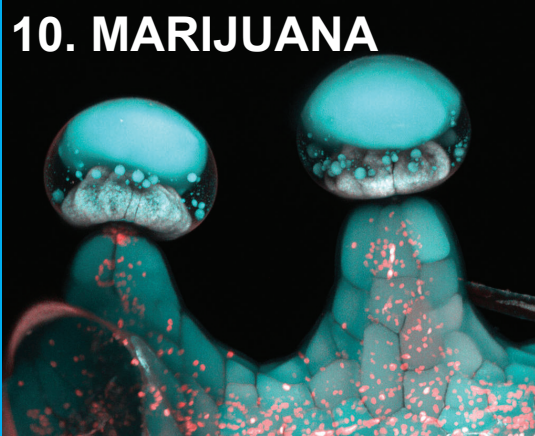


8. TOBACCO



9. PSYCHOACTIVE PLANTS

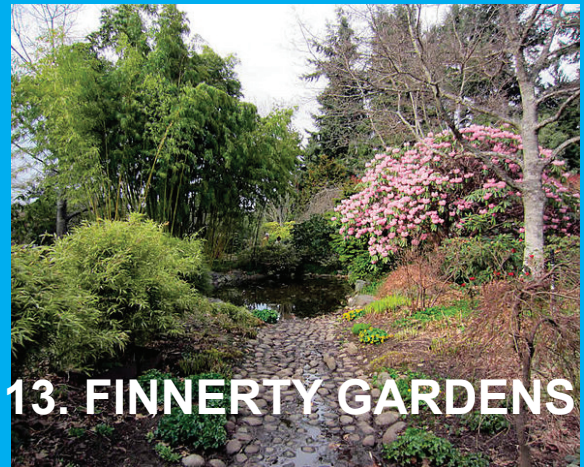
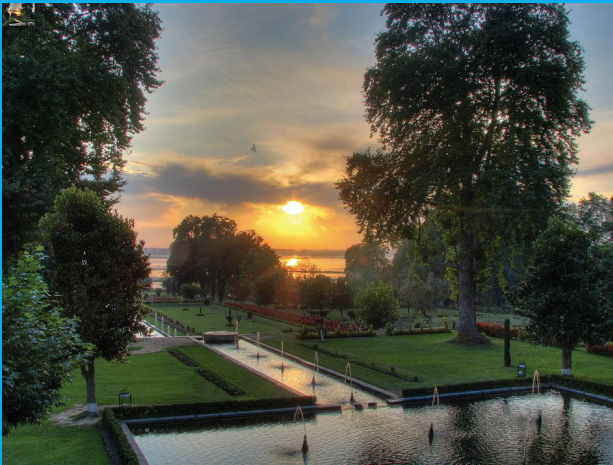
10. MARIJUANA



11. ORCHIDS



12. HISTORY OF GARDENS



13. FINNERTY GARDENS

14. CITRUS FRUIT



Bizzaria of Florence - 1821 by Del Pino

15. PINEAPPLES & AVOCADOS

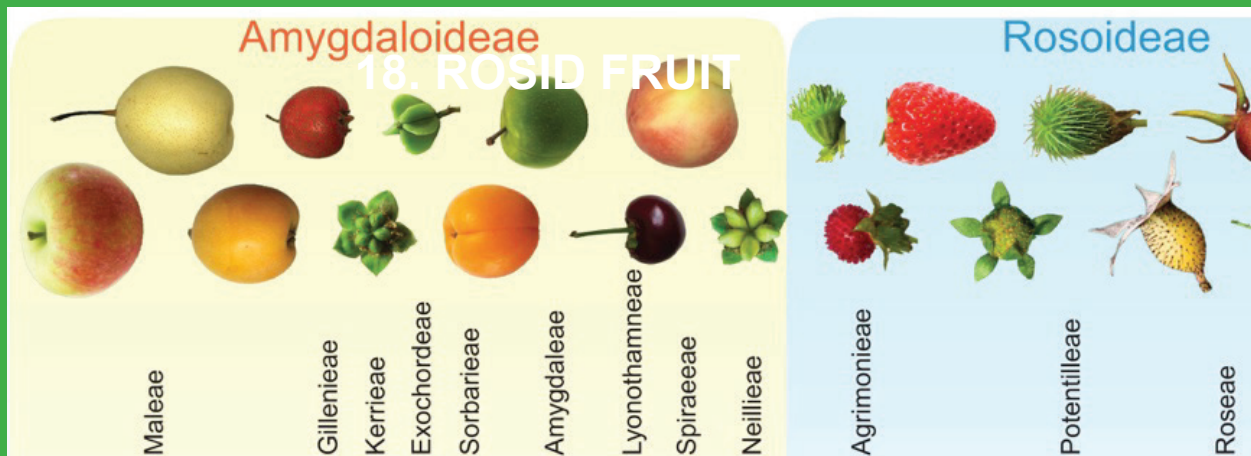


16. OLIVE OIL



17. TOMATOES & PEPPERS

18. ROSID FRUIT



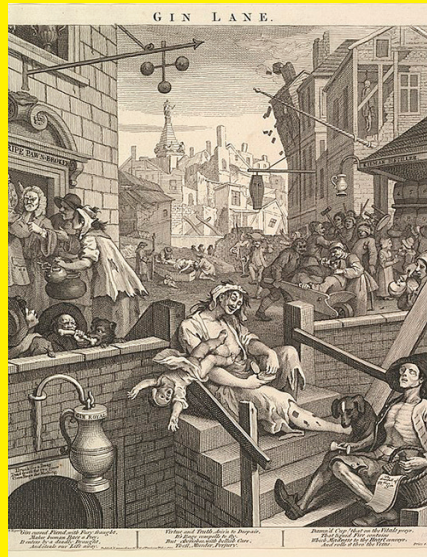
19. WINE



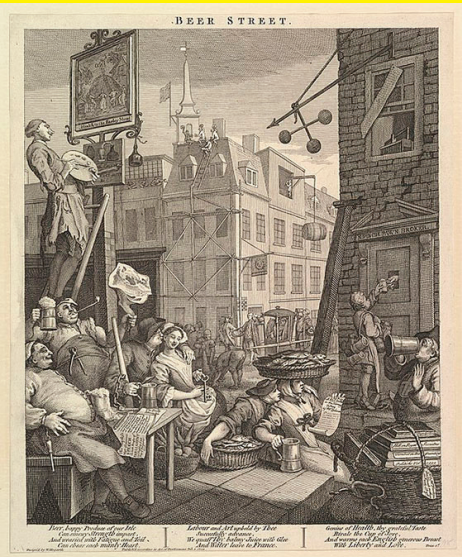
20. VODKA



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 "in a ship ploughing the wine dark sea" | 19 plants in medicine & alternati |
| 2 plonk | 20 tomatoes & peppers |
| 3 King Wheat | 21 olive oil |
| 4 vodka | 22 "The Pesto Connection" |
| 5 Madam Geneva | 23 Trees: spirituality and landsca |
| 6 Citizen Wheat | 24 Canadian lumber |
| 7 European P. f... .. | 25 First Nations' food legacy |

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)

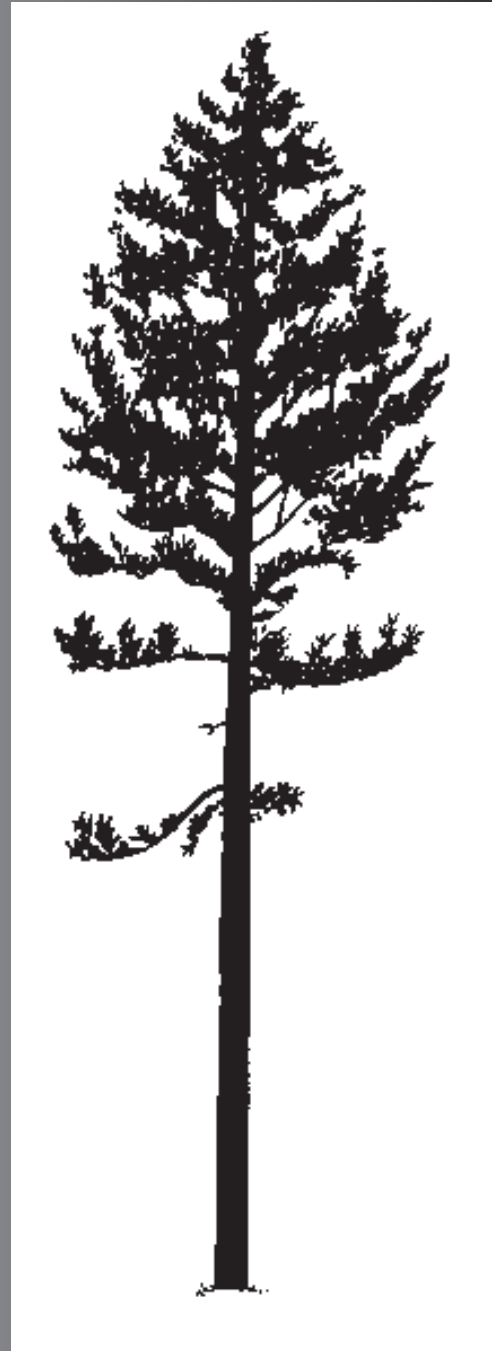
Lecture 4 – Botanical Barriers

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)

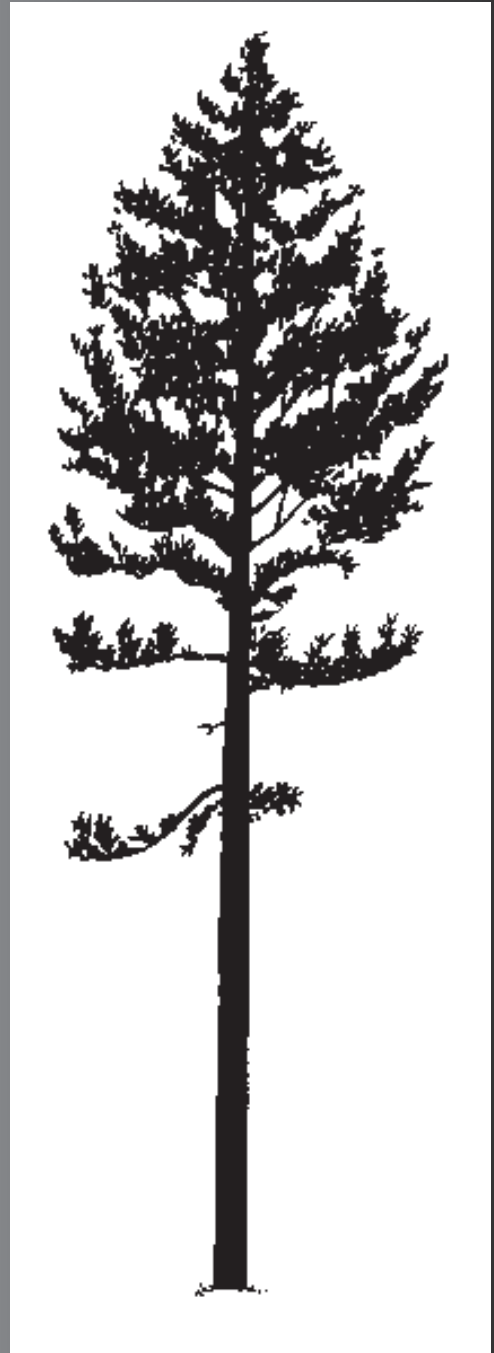
8th edition – Because this is the first lecture on flowers, please read pages 70-74 on floral structure; 299-300 (Vanilla)

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

7th edition – 93-94.

8th edition – 94-95.

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.

8th edition – 457-465 (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 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

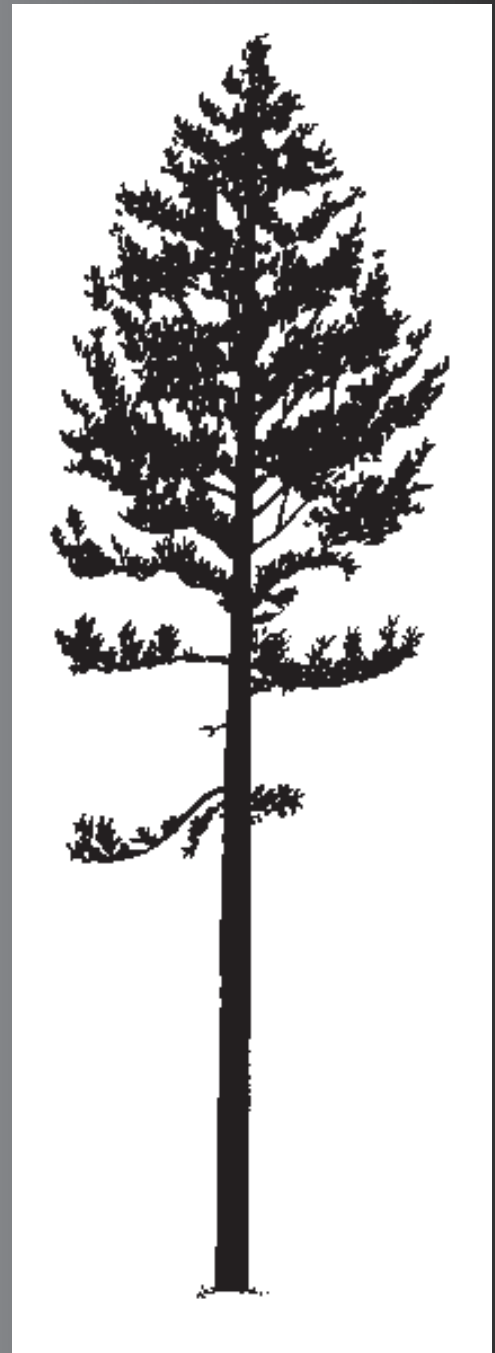
Chapter 19

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

<i>Mark breakdown</i>	<i>%</i>
Participation (Packback-regulated)	16
Quizzes	84
Total	100

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.

**Tentative Schedule of Lectures, Quizzes (bold), Packback due dates (green),
Zoom=Live Learn (LL)**

No.	Day & Date	Title	Packback
1	T 11-Jan-22	Introduction	
2	W 12-Jan-22	Potato	
3	F 12-Jan-22	Tulips	
LL	F 14-Jan-22	ZOOM	
4	T 18-Jan-22	Botanical Barriers	
5	W 19-Jan-22	Sugar	
6	F 19-Jan-22	Dendrochronology	Packback-1
LL	F 21-Jan-22	ZOOM	
7	T 25-Jan-22	Rubber & Honey	
	W 26-Jan-22	QUIZ No. 1	
8	F 28-Jan-22	Tobacco	Packback-2
9	T 1-Feb-22	Psychoactive Plants	
10	W 2-Feb-22	Marijuana	
11	F 4-Feb-22	Orchids	Packback-3
12	T 8-Feb-22	Gardens-History	
13	W 9-Feb-22	Finnerty Gardens	
	F 11-Feb-22	QUIZ No. 2	
14	T 15-Feb-22	Citrus Fruit	
15	W 16-Feb-22	Pineapple & Avocado	
16	F 18-Feb-22	Olive Oil	Packback-4
Febr 21-25		READING BREAK	
17	T 1-Mar-22	Tomatoes & Peppers	
18	W 2-Mar-22	Rosid Fruit	
19	F 4-Mar-22	Wine	Packback-5

No.	Date	Title	Packback
	T 8-Mar-22	QUIZ No. 3	
20	W 9-Mar-22	Vodka	
21	F 11-Mar-22	Gin	Packback-6
22	T 15-Mar-22	Beer	
23	W 16-Mar-22	Sunflower	
24	F 18-Mar-22	Cotton	Packback-7
	T 22-Mar-22	QUIZ No. 4	
25	W 23-Mar-22	Tea, Coffee & Chocolate	
26	F 25-Mar-22	Hot Beverages	Packback-8
27	T 29-Mar-22	Poisonous Plants	
28	W 30-Mar-22	Plants in Medicine	
29	F 1-Apr-22	Imagination	Packback-9
30	T 5-Apr-22	Stunning Plants & Poll	
	W 6-Apr-22	QUIZ No. 5	
	Th 7-Apr-22		Packback-10

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

