

9-2002

PHAR 324.01: Medicinal Plants

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TENTATIVE SCHEDULE - FALL 2002
MEDICINAL PLANTS
PHARMACY 324

Instructor: Rustem S. Medora, Ph.D. (SB #306)
OFFICE HOURS: After Class
Appointments Preferred
e-mail: medora@selway.umt.edu

Text: *"Tyler's Herbs of Choice: The Therapeutic Use of Phytomedicinals"* (1999)
Optional Texts: *"A Rational Phytotherapy: A Physicians Guide to Herbal Medicine"* by Schulz, Hansel & Tyler (1998)

- Books on Reserve:
1. Balick & Cox *"Plants, People & Culture"* (1996)
 2. Foster & Tyler *"Tyler's Honest Herbal"* (1999)
 3. Mills & Bone *"Principles & Practice of Phytotherapy"* (2000)
 4. Micozzi *"Physicians Guide to Alternative Medicine"* (1999)
 5. Ray & Ksir *"Drugs, Society & Human Behavior"* (1999) - Check PHAR 110
 6. Robbers et al *"Pharmacognosy & Pharmacobiotechnology"* (1996)
 7. Russo *"Handbook of Psychotropic Herbs"* (2001)

<u>DATE</u>	<u>LECTURE/SUBJECT</u>	<u>DATE</u>	<u>LECTURE/SUBJECT</u>
Tues 9/3	History/Terminology	Sat 10/26	Field Trip to Bozeman
Wed 9/4	Homework, Study Chap 6, Ref #5	Tues 10/29	Plant Drugs/Urogenital System
Thurs 9/5	Harvesting & Processing	Thur 10/31	EXAM II
Tues 9/10	Literature Research, Dr. Cathy Bartels	Tues 11/5	Holiday-Election Day
Wed 9/11	Homework, Study Chap 7, Ref #5	Thur 11/7	Plant Drugs Cont'd
Thurs 9/12	Putting a Drug on the Market	Fri 11/8	Outline of Term Paper Due
Tues 9/17	Ethnobotany & Biodiversity	Tues 11/12	Flavors & Spice
Thurs 9/19	Review of the Nervous System (NS)	Thurs 11/14	Flavors & Spice
Tues 9/24	Plants That Affect the Autonomic & Somatic NS	Fri 11/15	Report III Due
Wed 9/25	Outline of Report I Due	Tues 11/19	Functional Foods, Dr. Blackely Brown
Thur 9/26	CNS Stimulants From Plants	Thurs 11/21	Herbal Remedies for Psychiatric Conditions, Dr. Ethan Russo
Tues 10/1	CNS Depressants	Tues 11/26	Plant Drugs/Endocrine System
Thur 10/3	EXAM 1	Thurs 11/28	Holiday-Thanksgiving
Fri 10/4	Report I Due	Tues 12/3	Oral Reports, Psychoactive Plants
Tues 10/8	Systems of Traditional Medicine	Thurs 12/5	Oral Reports, Psychoactive Plants
Thurs 10/10	Integrated Medicine	Fri 12/6	Term Paper Due
Mon 10/14	Last Day to Drop Classes	Tues 12/10	Oral Reports, Poisonous Plants
Tues 10/15	Plant Drugs/Digestive System	Thurs 12/12	Oral Reports, Plants Used by American Indians
Thurs 10/17	Plant Drugs/Respiratory System		
Tues 10/22	Plant Drugs Cont'd	Thurs 12/19	FINAL EXAM 10:10-12:10
Thurs 10/24	Plant Drugs/Cardiovascular System		
Fri 10/25	Report II Due		

MONTHLY REPORTS

PHARMACY 324 -- MEDICINAL PLANTS

Students must type one-page (or two double-spaced pages) monthly report on three (3) of the topics listed below. Reference citations must be included. The term paper is longer and comprehensive.

1. **Complementary Methods of Therapy**

References:

- a. Steiner's *"Folk Medicine"* (on reserve)
- b. Micozzi's *"Physicians Guide to Alternative Medicine"* (on reserve)
- c. Kastner & Burroughs' *"Alternative Healing"* (reference section)
- d. Arvigo's audio cassette on *"Alternative Medicine"* New Dimension (on reserve)
- e. Andrews' *"A Bibliography on Herbs, Herbal Medicine, Natural Foods & Unconventional Medical Treatment"* (on reserve)
- f. Folder on Complementary Methods (on reserve)
- g. Lectures by speakers at the Mansfield Conference (1998)
- h. Takemi et. al. *"Herbal Medicine: Kampo, Past & Present"*
- i. Micozzi's *"Fundamentals of Complementary & Alternative medicine"* (on reserve)

2. **The Herbal Regulatory Dilemma**

References:

- a. Tyler, V.E. *"Herbs of Choice"* Chapter 2
- b. HerbalGram #32, pages 18-24 & 58 and HerbalGram #39, pages 28-31
- c. Dietary Supplement Health & Education Bill of 1994 (on reserve)
- d. Tylers' *"Honest Herbal"* (on reserve)
- e. Medora, R. "DSHEA of 1994"
- f. HerbalGram #47 & 48

3. **The Need for Conservation of Medicinal Plants**

References:

- a. Videos #9, 10, 11, 12, 14, 15, 17, 18, 19; Audio cassettes 1 & 3
- b. Plotkin's *"Tales of a Shaman's Apprentice"* & *"Medicine Quest"* (on reserve)
- c. Folder on Conservation (on reserve)
- d. Grifo & Rosenthal's *"Biodiversity & Human Health"*
- e. Balick, M.J. et al., "Medicinal Resources of the Tropical Forest" (on reserve)
- f. Balick & Cox's, *"Plants, People & Culture"* (on reserve)
- g. Cox's *"Nafanua"* (on reserve)

4. **Functional Foods**

References:

- a. Audio cassette *"Healthy Foods"*
- b. Folder on Nutraceuticals (on reserve)
- c. RDA (on reserve)
- d. NRC's *"Carcinogens & Anticarcinogens in the Human Diet"*
- e. Nutrition & The Amazon Food Pharmacy (video on reserve)

5. **Flavors and Spices**

References:

- a. *"Essential Oils of Central and North America"* (video on reserve)
- b. Folder on Flavors and Spices (on reserve)
- c. Gunther's *"The Essential Oils"* Volume 1-6 (Mansfield Library)
- d. Books in the Mansfield Library under the title *"Aromatherapy"*
- e. *"Illustrated Encyclopedia of Essential Oils"* (on reserve)

6. **Hallucinogens**

References:

- a. LSD/Ergot (video on reserve)
- b. *"Murder, Magic and Medicine"* (on reserve)
- c. Folder on Hallucinogens (on reserve)
- d. Check books by Richard E. Schultes
- e. Check books in the Mansfield Library under the title *"Hallucinogens"*

7. **Special Forest Products (Medicinal Species)**

References:

- a. Steven Foster's *"Forest Pharmacy"* (on reserve)
- b. *"Special Forest Products: Biodiversity Meets the Marketplace"* (on reserve)
- c. Folder on Special Forest Products (on reserve)
- d. Check books in the Mansfield Library on this topic

8. **Intellectual Property Rights**

References:

- a. *"Biodiversity Prospecting: Using Genetic Resources"* (on reserve)
- b. *"Timber, Tourists & Temples"* (on reserve)
- c. Folder on Special Forest Products (on reserve)
- d. Check books in the Mansfield Library and the Law Library on this topic

9. **Special Topics**

Check with the instructor

NOTE:

REPORTS

Outline of Report 1

Report 1

Report 2

Outline of Term Paper

Report 3

Term Paper

DUE DATES

Wednesday, September 25, 2002

Friday, October 4, 2002

Friday, October 25, 2002

Friday, November 11, 2002

Friday, November 15, 2002

Friday, December 6, 2002

VIDEOS ON RESERVE

- | | | |
|-----|---|---------|
| 1. | The Opium Poppy | VT07751 |
| 2. | Aspirin/Willow | VT07752 |
| 3. | LSD/Ergot | VT07753 |
| 4. | Quinine | VT07754 |
| 5. | Digitalis | VT07755 |
| 6. | Belladonna/Mandragora | VT07756 |
| 7. | Coca | VT07757 |
| 8. | The Yew | VT07758 |
| 9. | Powerful Medicine | VT02246 |
| 10. | Jungle Pharmacy | VT02733 |
| 11. | Secrets of the Rain Forest | VT04617 |
| 12. | 20th Century Medicine Man | |
| 13. | Essential oils of North & Central America | VT03131 |
| 14. | Plant Drugs, Healing Herbs & Phytomedicinals | VT06615 |
| 15. | Pharmacology & Therapeutic Application of Plant Drugs | VT06614 |
| 16. | Nutrition & The Amazon Food Pharmacy | VT06616 |
| 17. | Tropical Medicine in the Rain Forest | VT06617 |
| 18. | A Walk Through Aceer (Useful Plant Trail) | VT06618 |
| 19. | Ethnomedical Field Research in the Amazon | VT06619 |
| 20. | Presidential Lecture (Varro Tyler) | VT07333 |
| 21. | Edible Wild Plants | VT02117 |
| 22. | Poisonous Plants | VT08464 |

AUDIO CASSETTES ON RESERVE

- | | | |
|----|-----------------------------|---------------------|
| 1. | The Diversity of Life | AT 04304/1996-05-10 |
| 2. | The Medicine Garden | |
| 3. | The Recovery of the Commons | |

Exams and Grading:*

Grades will be based on two mid-term exams and a final, three monthly reports, a term paper (**INSTRUCTOR MUST APPROVE THE TOPIC FOR THE TERM PAPER**) and participation in class. At least one of the reports must be presented to the class orally. Participation in class discussions and *attendance in all class-related activities is mandatory*.

Students are required to take all exams on scheduled days and times. The first two exams are scheduled at regular class times.

EXAM 1	20%
EXAM 2	20%
Final Exam	20%
Monthly Reports (6x3)	18%
Term Paper	12%
Attendance/Participation	10%

P/NP:

A "C" grade is a passing grade in the P/NP option.

Field Trips:

Three field trips are being planned on the weekends in September and October. *Students must participate in at least one field trip.* Tentative dates for field trips are September 20, October 26, and November 15, 2002.

***Graduate Students:** Graduate students will be graded separately and must maintain scores in the upper 20% of the class. They must write a **COMPREHENSIVE TERM PAPER including an extensive bibliography.**

Time/Commitment:

You will need to devote extra time to view the displays, watch the movies, and participate in afternoon or weekend field trips.

LAST DAY TO DROP THE CLASS IS MONDAY, OCTOBER 14, 2002

Important Dates:

10/3	Exam I
10/31	Exam II
12/19	Final Exam