

Course title and number HORT 328 – Wild Edible, Cultivated, and Poisonous Herbs
Term Spring 2018
Meeting times and location TR 3:55-5:10pm – HFSB 102

Course Description and Prerequisites

Identification, reported uses, and cultivation of popular garden herbs, historically useful herbs and wild edible and poisonous herbs; the history of phytomedicinal herbs and the role of horticulture in the advent of select modern pharmaceuticals and nutraceuticals; native Texas wild edible and culturally-useful herbs; reported uses and efficacy of essential oils of herbal plants; propagation and production of cultivated herbs and wild edible plants. Must have successfully completed HORT 201 or receive permission from the instructor.

Learning Outcomes or Course Objectives

In this course students will be able to:

1. Explain the use of herbs as culinary components
2. Identify common U.S. and Texas garden herbs, historically useful herbs and wild edible and poisonous herbs
3. Recall major identification characteristics of common U.S. and native Texas garden herbs, historically useful herbs and wild edible and poisonous herbs
4. Explain the role of horticulture in the development of select modern pharmaceuticals
5. Compare and contrast the regulatory processes for modern pharmaceuticals, phytomedicinal herbal formulations, and culinary herbal products
6. Relate the scientifically-proven uses of common phytomedicinal herbs
7. Recognize the role of horticultural crops in the production of essential oils
8. Describe the factors that influence volatile oil production in herbal horticultural crops
9. Outline the basic requirements of wild edible and medicinal plant propagation and production
10. Recognize the dangers of improper consumption of select horticultural herbs

Instructor Information

Name Dr. Andrew King
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Office hours MW 10:00am-12:00pm; if I'm in my office you're welcome to come in; or by appointment
Office location HFSB 422

Textbook and/or Resource Material

Recommended: *Toxic Plants: Dangerous to Humans and Animals*. 1999. Jean Bruneton. Éditions Tec & Doc. ISBN: 978-1-8982-9862-5

Recommended: *Encyclopedia of herbs & their uses*. 1995. Deni Brown. Dorling Kindersley. ISBN: 978-0-8885-0334-3

Recommended: *Tyler's Herbs of Choice: The Therapeutic Use of Phytomedicinals*. 2009. Third Edition, Dennis V.C. Awang. ISBN: 978-0-7890-2809-9

Attendance and Make-up Policies

- Attendance is mandatory. If you arrive after the bi-weekly quiz you will receive a zero. You must attend the lecture in its entirety. Leaving before the class is dismissed will result in an attendance grade of zero for that class period.
- Exams/Quizzes may only be made up in the event of an excused absence. Excused absences must meet the criteria provided by the University. (see <http://student-rules.tamu.edu/rule07>).
- Attendance will be taken at each class meeting. Attendance will result in points which will be a part of your overall grade.

Grading

- There will be bi-weekly quizzes on lecture materials throughout the semester. These quizzes will be administered on Wednesday of the assigned week (unless otherwise notified the week prior).
- Seven quizzes will be administered and the six best quiz grades will be counted (drop lowest quiz grade).
- Quizzes will last approximately 10 minutes and will be administered at the beginning of the class period. If you arrive after the quiz time you will receive a zero for that quiz.

Grading Scale

Points Grading Scale:

Out of 1,300 assignable points

A = 1170-1300 points

B = 1040-1169 points

C = 910-1039 points

D = 780-909 points

F = <780 points

	<u>Total points:</u>
Exam 1	200
Exam 2	200
Exam 3	200
Final exam	400
Attendance	100
Bi-weekly quizzes	<u>200</u>

Total: **1,300**

Course Topics, Calendar of Activities, Major Assignment Dates

Day	Topic	Learning outcome
1	Introduction to Edible & Cultivated Herbs	ALL
2	History of herbal plant use worldwide and in the U.S.; QUIZ 1	1, 4
3	History of herbal plant use worldwide and in the U.S.; QUIZ 2	1, 4
4	Botany of herbal plants Economics and current use of herbal plants	3, 9
5	Ingestion: Forms & Formulations	4, 10
6	Safety of wild edible, culturally-significant, & poisonous herb use	10
7	Economics and current use of herbal plants and plant products	1, 4
8	EXAM 1	
9	Herbal treatment: safety & efficacy	4, 10
10	Conventional modern medicines that came from plants	4
11	Herbalism and its forms	5, 6
12	Regulations on the production of herbal products	5
13	Popular herbal products: What are we buying?	5
14	Growth factors influencing quality of herbal products	7, 8

15	Essential Oil production & use	7, 8
16	Essential Oil production & use	7, 8
17	EXAM 2	
18	Culinary & Garden Herbs: identification & use	2, 3
19	Culinary & Garden Herbs: identification & use	2, 3
20	Culinary & Garden Herbs: identification & use	2, 3
21	U.S. Herbs of historical significance: identification & use	2, 3
22	U.S. Herbs of historical significance: identification & use	2, 3
23	U.S. Herbs of historical significance: identification & use	2, 3
24	EXAM 3	
25	U.S. Wild Edible herbs: identification & use	2, 3
26	U.S. Wild Edible herbs: identification & use	2, 3
27	Texas Wild Edible herbs: identification & use	2, 3
28	Poisonous Herbs	2, 3, 10
29	Poisonous Herbs	2, 3, 10
30	Poisonous Herbs	2, 3, 10

FINAL EXAM

Other Pertinent Course Information

Scheduling Policies

The instructor reserves the right to manipulate the schedule as is deemed necessary. Any schedule changes will be announced at least 1 week prior to the effective date.

Copyrights

Please note that all handouts and supplements used in this course are copyrighted. This includes all materials generated for this class, including but not limited to syllabi, exams, in-class materials, review sheets, and lecture outlines. Materials may be downloaded or photocopied for personal use only, and may not be given or sold to other individuals.

Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, currently located in the Disability Services building at the Student Services at White Creek complex on west campus or call 979-845-1637. For additional information, visit <http://disability.tamu.edu>.

Academic Integrity

For additional information please visit: <http://aggiehonor.tamu.edu>

“An Aggie does not lie, cheat, or steal, or tolerate those who do.”

Scholastic Dishonesty

As commonly defined, plagiarism consists of passing off as one's own ideas, work, writings, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated. If you have questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules, under the section “Scholastic Dishonesty.”