

SYLLABUS
NURSERY MANGEMENT AND OPERATIONS
FORESTRY 435 – Fall 2019

Instructor: Dr. Richard Hauer Room 323 TNR rhauer@uwsp.edu 346-3642 (office)

Office Hours: Monday 8:00 – 8:50 am and Wednesday 8:00 – 9:50 am. Students are encouraged to schedule an appointment in case I am away due to scheduled or unscheduled conflicts. It is recommended that you seek assistance if needed.

Course Meeting Time and Location: The class meets Wednesday 12:00 – 12:50 pm (lecture) in TNR 320 and Friday 12:00 – 2:50 (lecture/lab) in TNR 320. Throughout the semester we will go outdoors for several labs and some lecture dates, so dress accordingly for the weather.

Attendance: Did you know that students who attend class regularly do better, thus attendance in class is expected and nearly essential for success in this course. Absence during an exam or lab quiz will result in a zero unless prior approval/arrangements are made.

Course Objectives: After completion of this class students will be able to:

- 1) Relate different parts of the green industry and their associated roles in the development, delivery, installation, and care of landscape plants.
- 2) Understand and describe the business component associated with the development of plants for commercial sale.
- 3) Understand and describe different systems used for nursery production of landscape plants and forest seedlings.
- 4) Describe and relate the biological and cultural relationship with culturing landscape plants.
- 5) Develop an understanding of the rules and regulations that nurseries must incorporate into their production systems.

This course is designed to provide students with the principles and practice of nursery management and operations of nursery stock for rural and urban forests. We will cover principles associated with growing plant material including production systems, nursery stock standards, plant propagation, stock storage and delivery, nursery design, cultural requirements and growth strategies, nursery IPM, regulations, and business management.

Grade Policy: Grades are based on exams, reports and the laboratory as follows:

<u>Evaluation Area</u>	<u>% of Grade</u>
Three Exams	45%
Nursery Reports	15%
Lab Projects	10%
Video-Writeup	10%
Nursery Design Project	20%

<u>Mean Score</u>	<u>Letter Grade</u>	<u>Mean Score</u>	<u>Letter Grade</u>
100 - 92	A	79 - 78	C+
91 - 90	A-	77 - 72	C
89 - 88	B+	71 - 70	C-
87 - 82	B	69 - 68	D+
81 - 80	B-	67 - 60	D
		<60	F

Text and Readings: Assignments are from the following texts as indicated in the attached outline and from: Davidson et al. 2000. Nursery Management Administration and Culture. Prentice Hall. Upper Saddle, NJ. 530 pp. Topical readings will be distributed in class.

Course Location: Canvas Portal (<https://www.uwsp.edu/canvas/Pages/default.aspx>)

FORESTRY 435 (Nursery Management and Operations) – Fall 2019

Tentative Lecture and Lab (Grey Bars) Schedule:

Date	Course Subject Mater	Readings
9/4	Course Introduction, Green Industry, Nursery History	Davidson 1-20
9/6	Modern Themes of Nursery Production	Assigned On-line Content
9/6	Modern Themes of Nursery Production	Assigned On-line Content
9/11	Nursery History (cont), The Nursery Industry: Nursery Classification	Davidson 21-29
9/13	The Nursery Industry: Nursery Classification	Davidson 21-29
9/13	Intro to Seed Collecting	
9/18	Starting a Nursery: Goals, Planning, Management	Davidson 40-64
9/20	National Native Plant Nursery	
9/20	Prairie Nursery	
9/25	Starting a Nursery: Goals, Planning, Management	Davidson 40-64
9/27	Garden Center Organization and Layout	
9/27	Village Gardens	
10/2	Starting a Nursery: Goals, Planning, Management	Davidson 40-64
10/4	Local Nursery, Design, Build Firm	
10/4	Eco-Building & Forestry, LLC	
10/9	Group Work: Nursery Plan Development	
10/11	All Day Field Trip Native Landscape and D&B Firm	
10/11	All Day Trip, Depart West Side CNR Promptly at 6:30 am and Return Approximately 5:00 pm	
10/16	Exam One	
10/18	Growing Plants from Seeds & Cuttings	
10/18	Growing Plants from Seeds & Cuttings	
10/23	Selecting a Nursery Site	Davidson 65-72
10/25	Group Work: Nursery Plan Development	
10/25	Group Work: Nursery Plan Development	
10/30	Selecting a Nursery Site	Davidson 65-72
11/1	Nursery Harvesting Operations	
11/1	Nursery Harvesting Operations	
11/6	Exam Two	
11/8	Group Work: Nursery Plan Development	
11/8	Group Work: Nursery Plan Development	
11/13	Nursery Design and Layout	Davidson 73-95
11/15	Laws and Regulation	Davidson 96-118
11/15	Financial Management	Davidson 119-158
11/20	Financial Management	Davidson 119-158
11/22	Grafting Plants	
11/22	Grafting Plants	
11/27	Group Work: Nursery Plan Development	
11/29	No Lecture Thanksgiving Break	
11/29	No Lecture Thanksgiving Break	
12/4	Root Development and Plant Health	

FORESTRY 435 (Nursery Management and Operations) – Fall 2019

12/6	Nursery Plan Presentation	
12/6	Nursery Plan Presentation	
12/11	Root Development and Plant Health	
12/13	Spacing and Pruning Trees	
12/13	Spacing and Pruning Trees	
12/16	Final Exam Date (Monday 10:15 – 12:15)	

Lectures in White and Labs in Grey

Links for Green Industry (e.g., Horticulture, Nursery, Landscape)

National Association of Landscape Professionals: <https://www.landscapeprofessionals.org/>

Illinois Green Industry Association: <http://www.illinoisgreen.net/>

Minnesota Nursery and Landscape Association: <http://www.mnla.biz/>

Wisconsin Nursery and Landscape Association: <http://www.landscapemadison.com/>

American Horticultural Society: <http://ahsgardening.org/>

American Society for Horticultural Science: <http://www.ashs.org/>

International Plant Propagator's Society: <http://www.ipps.org/>

Minnesota State Horticulture Society: <http://www.northerngardener.org/>

Perennial Plant Association: <http://www.perennialplant.org/>

So You Want to Start a Nursery: <http://www.startanursery.com/>

Getting Started in the Nursery Business: <http://pubs.ext.vt.edu/430/430-050/430-050.html>

USDA Plants Database: <http://plants.usda.gov/>

Reforestation, Nurseries and Genetic Resources (RNCR): <http://rngr.net/>