

SYLLABUS
NURSERY MANGEMENT AND OPERATIONS
FORESTRY 435 – Fall 2020

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

Office Hours: Monday 8:00 – 8:50 am, 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: Lecture meets Virtually with lectures posted in CANVAS. The class will meet often in person on Friday 12:00 – 2:50 (lecture/lab) with the location both outside and via cohorts 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. Pick a schedule that works and try to stick to it. Active participation in class is expected and greatly increases the odds you will master a subject. Absence from an exam or quiz will result in a zero unless you make prior approval or arrangements.

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 follow:

<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>)

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Tentative Lecture and Lab (Grey Bars) Schedule:

Date	Course Subject Mater	Readings
9/2	Course Introduction, Green Industry, Nursery History	Davidson 1-20
9/4	Garden Center Organization and Layout	
9/4	Village Gardens Modern Themes of Nursery Production	Lab Site Overview HO Assigned On-line Content
9/9	Nursery History (cont.), The Nursery Industry: Nursery Classification	Davidson 21-29
9/11	The Nursery Industry: Nursery Classification	Davidson 21-29
9/11	Intro to Seed Collecting Modern Themes of Nursery Production	Lab Work Overview HO Assigned On-line Content
9/16	Starting a Nursery: Goals, Planning, Management	Davidson 40-64
9/18	Local Nursery, Design, Build Firm	
9/18	Eco-Building & Forestry, LLC	Lab Site Overview HO
9/23	Starting a Nursery: Goals, Planning, Management	Davidson 40-64
9/25	Growing Plants from Seeds	
9/25	Growing Plants from Seeds	Lab Work Overview HO
9/30	Selecting a Nursery Site	Davidson 40-64
10/2	All Day Field Trip Nursery, Landscape and Design & Build Firm	
10/2	All Day Trip, Depart West Side CNR Promptly at 6:30 am and Return Approximately 5:00 pm	Lab Site Overview HO
10/7	Group Work: Nursery Plan Development	
10/9	Growing Plants from Cuttings & Group Work	
10/9	Growing Plants from Cuttings & Group Work	Lab Work Overview HO
10/14	Exam One	
10/16	Nursery Harvesting and Planting Operations	
10/16	Nursery Harvesting and Planting Operations	
10/21	Nursery Design and Layout	Davidson 65-72
10/23	Nursery Harvesting and Planting Operations	
10/23	Nursery Harvesting and Planting Operations	
10/28	Selecting a Nursery Site	Davidson 65-72
10/30	Laws and Regulation	
10/30	Group Work: Nursery Plan Development	
11/4	Exam Two	
11/6	Grafting Plants & Group Work & Group Work	
11/6	Grafting Plants & Group Work & Group Work	
11/11	Financial Management	Davidson 73-95
11/13	Production Systems	Davidson 96-118
11/13	Root Development and Plant Health	Davidson 119-158
11/18	Root Development and Plant Health	Davidson 119-158
11/20	Group Work: Nursery Plan Development	
11/20	Group Work: Nursery Plan Development	
11/25	Group Work: Nursery Plan Development	

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11/27	No Lecture Thanksgiving Break	
11/27	No Lecture Thanksgiving Break	
12/2	Root Development and Plant Health	
12/4	Nursery Plan Presentation	
12/4	Nursery Plan Presentation	
12/9	Root Development and Plant Health	
12/11	Spacing and Pruning Trees	
12/11	Spacing and Pruning Trees	
12/16	Final Exam Date (Wednesday 2:45 – 4:45)	

Lectures in White and Labs in Grey

HO = Hand Out

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 (RNGR): <http://rngr.net/>