Syllabus – Urban Forestry
Forestry 444/644 – Spring 2020

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

Office Hours: Tuesday 10:00 – 11:50 am and Thursday 10:00 – 11:50 am. You 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 lecture meets from 9:00 – 9:50 pm on Tuesday and Thursday in TNR 320. Lab Section 1 meets from 8:00 – 9:50 am, Lab Section 2 meets from 1:00 to 2:50 pm, and Lab Section 3 meets from 3:00 to 4:50 pm (TNR 320 or the computer lab when noted).

Attendance and Assignments: Your attendance in class is expected and an important part of learning. Absence during an exam or labs will result in a zero unless prior arrangements have been approved. Turn in assignments on time for credit. Emergency situations, illness, and life's challenges do arise. Please inform me as soon as practical in advance so arrangements can be made to complete any exam or assignment.

Learning Objectives: After completion of this class students will be able to:
1) Develop an urban forestry management plan.
2) Describe the urban forest, urban forestry, and benefits associated with green infrastructure.
3) Apply appropriate urban forest planning, management, and policy tools.
4) Conduct urban forest assessment techniques (e.g., tree inventory, tree risk assessments, tree valuation) and use this data to develop an assessment of the health, benefits, and costs associated with management of the tree population.
5) Develop skills with conventional and modern urban forestry tools.

This course is intended for students to learn and apply principles of Urban Forest Management of vegetation in developed areas. Urban forestry as a profession is relatively new in response to society and landscapes that are increasingly becoming developed and urbanized. However, activities associated with urban forestry are historically rooted hundreds and thousands of years ago and have evolved to the current philosophic view of green infrastructure as an important component of an urban ecosystem. You will develop skills and abilities in urban forest assessment, benefits, costs, uses, valuation methods, planning, management, and the roles of federal, state, municipal, commercial, and utility urban forestry.

Grades: Grades are based on exams, quizzes and projects are as follows:

Evaluation Area	% of Grade
Exam 1	15%
Exam 2	15%
Final Exam (comprehensive)	20%
Lab Assignments & Participation	35%
Urban Forest Management Plan	15%

Mean Score	Letter Grade	Mean Score	Letter Grade
100 - 93	A	79 - 78	C+
92 - 90	A-	77 - 73	C
89 - 88	B+	72 - 70	C-
87 - 83	B	69 - 68	D+
82 - 80	B-	67 - 60	D
		<60	F

Text and Readings: Lecture and labs will be based on material in Miller, Hauer, and Werner (Urban Forestry: Planning and Managing Urban Greenspaces, 3rd Edition) and additional outside readings to supplement information in the text are in Canvas or handouts.

Date	Course Subject Material (Lecture)	Readings
1/21	What is the Urban Forest, Urban Forestry, Urban Forest Sustainability et. al. (L1)	Miller Chapter 1
1/23	Evolution of Cities and Urban Forestry (L2)	Miller Chapter 2
1/28	Evolution of Cities and Urban Forestry (L2)	Miller Chapter 2
1/30	Social Needs and Values of Urban Society (L3)	Miller Chapter 3
2/4	Functional Uses and Design of Urban Vegetation (L4)	Miller Chapter 4
2/6	Functional Uses and Design of Urban Vegetation (L4)	Miller Chapter 4
2/11	Values and Liabilities of Urban Vegetation (L5)	Miller Chapter 5
2/13	No Formal Class – Exercise: Urban Forestry Management Plan Review & Webinar Exercise Time	Handout
2/18	Values and Liabilities of Urban Vegetation (L5)	Miller Chapter 5
2/20	**Exam 1**	
2/25	Urban Forest Assessment – Street Tree Inventories (L6)	Miller Chapter 6
2/27	Urban Forest Assessment – Street Tree Inventories (L6)	Miller Chapter 6
3/3	No Formal Class – Visit Community Tree Inventory	
3/5	No Formal Class – Visit Community Tree Inventory	Miller Chapter 7
3/10	Urban Forest Assessment – Park Tree Inventories (L7)	Miller Chapter 7
3/12	Urban Forest Assessment – Park Tree Inventories (L7)	Miller Chapter 7
3/17 and 3/19 No Class – Spring Break		
3/24	Policy, Planning, and Urban Forestry (L8)	Miller Chapter 8
3/26	Vegetation Ordinances (L9)	Miller Chapter 9
3/31	Vegetation Ordinances (L9)	Miller Chapter 9
4/2	**Exam 2**	
4/7	Street Tree Management – Planning & Budgets (L10)	Miller Chapter 10, 13
4/9	Street Tree Management – Planning & Budgets (L10)	Miller Chapter 10, 13
4/14	Street Tree Management – Planting (L11)	Miller Chapter 11
4/16	Street Tree Management – Planting (L11)	Miller Chapter 11
4/21	No Formal Class – Work on Management Plan	
4/23	No Formal Class – Work on Management Plan	
4/28	Street Tree Management – Maintenance (L12)	Miller Chapter 12
4/30	Street Tree Management – Maintenance (L12)	Miller Chapter 12
5/5	Tree Risk Assessment – Decision Making (L13)	Pokorny et al. (2003)
5/7	Trees & Storms – Damage & Planning (L14)	
5/13	**Scheduled Comprehensive Final Exam Date (Wednesday 8:00 – 10:00)**	

Note: Dates we do not formally meet for class

Date	Course Subject Mater	Readings	Assignments Due
1/20	MLK Day University Holiday		
1/27	Urban Forest Management Project Overview Urban Forest Assessment – Canopy Analysis Exercise	Miller 198-202	Group Selection
2/3	Urban Forest Economics – Net Benefits, Internal Rate of Return and Benefit: Cost Exercise (Lab in ACL)	Hauer et al 2015, Vogt et al. 2015	Canopy Analysis
2/10	Urban Forest Management Project Site Visit 1) Street Tree Inventory 2) Webinar Exercise 3) Urban Forestry Management Plans eLearn URBAN FORESTRY: An interactive online intro UFM	Lab HO Favorite Search Engine http://elearn.sref.info/	Benefit Cost Exercise
2/17	Tree Health Assessment & Tree Appraisal – Valuation Exercise	Lab HO	Management Plan Report Webinar Exercise
2/24	Urban Forest Assessment – Park Inventory and Management Plan Exercise	Lab HO	Street Tree Inventory Tree Health/Appraisal
3/2	No Formal Class – Management Plan City Site Visit		
3/9	Site Visit Debriefing, Dataset Finalization Urban Forest Management – i-Tree (Lab in TNR 356 8-10am lab; CPS 107 1-3pm lab)	Lab HO, skim i-Tree user manual	Park Inventory
3/16	No Class – Spring Break		
3/23	Urban Forest Management – Tree Pruning Time & Budgets Exercise (Lab in ACL)	Lab HO	i-Tree Exercise
3/30	Management Plan Work Time (Lab in ACL)		Tree Pruning & Budgets
4/6	Management Plan Work Time (Lab in ACL)		
4/13	Tree Risk Management – Evaluation Exercise	Pokorny 2003, Lab HO	Urban Forest Management Plan
4/20	No Formal Class – Management Plan Work Time		
4/27	Tree Risk Management – Evaluation Exercise	Pokorny 2003, Lab HO	Tree Risk Management Exercise
5/4	Urban Forest Management Plan Presentations		Tree Risk Management Management Plan Final Report
5/8	Tree Planting with City of Stevens Point		

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