

	Monday	Tuesday	Wednesday	Thursday	Friday	
8:00	Welcome / orientation / Logistics	What does the city want – clarifying the vision for the urban forest	Group presentations	Group presentations	Final plan presentations with faculty critique 15 minute presentation 5 minute comment	
8:15						
8:30	Overview for the week					
8:45						
9:00	Urban Forest management planning process overview	What does the city want – setting goals and objectives to realize the vision	How does the city get what it wants – urban forest design	Is the city getting what it wanted – Urban forest monitoring tools	Check out of hotel room	
9:15						
9:30						
9:45	On-line planning tools					
10:00	Break					
10:15	What does the city have – Things to consider	Group breakout session – Detail of each UF scenario / groups begin developing vision, goals, and objectives for their scenario	How does the city get what it wants – urban forest design continued	Is the city getting what it wanted – Monitoring and analysis	Future urban forestry technology tools	
10:30						Future directions for planning / policy
10:45				How does the city get what it wants – adaptive management principles	Is the city getting what it wanted – Evaluating and revising the plan	Potential funding and partnership opportunities
11:00						Closing comments
11:15	What does the city have – The urban forest resource					
11:30						
11:45						
12:00	Lunch				Adjourn	
12:15						
12:30						
12:45						
1:00	What does the city have – The urban forest resource continued	How does the city get what it wants – comprehensive planning	How does the city get what it wants – Working with Arborists and Utility Foresters	Case studies – examples of successful planning (and not so successful planning)	Optional Municipal Specialist Certification exam  1:00 – 4:00 p.m.	
1:15						
1:30						
1:45						
2:00	What does the city have – different types of plans		How does the city get what it wants – Working with partners			
2:15						
2:30						
2:45						
3:00	Break					
3:15	What does the city have – land use zoning	How does the city get what it wants – urban forest-related ordinances	How does the city get what it wants – Cyclical planning	Group breakout session – complete the adaptive management plan		
3:30						
3:45						
4:00						
4:15	What does the city have – Ordinances, codes, and regulations		Group breakout session			
4:30						
4:45						
5:00	Adjourn for the day – optional evening short courses will be available from 7:00 to 9:00					

<b>Monday, May 6, 2013</b>				
<b>Time</b>	<b>Session Title</b>	<b>Session Description</b>	<b>Presenter(s)</b>	<b>Learning objectives</b>
800-830	Welcome / Orientation / Logistics		Webster / Boucher via Skype	
830 – 900	Overview for the week	<ul style="list-style-type: none"> <li>• Describe how the week will flow with general description of each days' content</li> <li>• Review the workbook and orient the student regarding its set up</li> </ul>	Kuehler	<ul style="list-style-type: none"> <li>• Overall objectives-               <ul style="list-style-type: none"> <li>○ Demonstrate their knowledge and understanding of the adaptive urban forestry management planning process by taking what they have learned during the course, using it to negotiate a scenario, develop a plan accordingly and defend course of action to instructors and participants.</li> </ul> </li> </ul>
900 - 940	Urban forest management planning process overview	<ul style="list-style-type: none"> <li>• Review the ultimate objective of the UF mgt plan</li> <li>• Briefly describe the basic components of an UF mgt plan               <ul style="list-style-type: none"> <li>○ What do we have?</li> <li>○ What do we want?</li> <li>○ How do we get what we want?</li> <li>○ Are we getting what we want?</li> </ul> </li> </ul>	Johnson	<ul style="list-style-type: none"> <li>• Recognize the use of and need for an urban forest management plan</li> <li>• Identify the four basic components of an adaptive urban forest management plan</li> </ul>
940 - 1000	Urban forest planning tools on-line	<ul style="list-style-type: none"> <li>• Briefly compare the on-line plan writing tools               <ul style="list-style-type: none"> <li>○ UFS Urban Forest Management Plan Writing Tool</li> <li>○ CUFC Urban Forest Management Plan Toolkit</li> </ul> </li> </ul>	Kuehler	<ul style="list-style-type: none"> <li>• Locate the two tools.</li> <li>• Compare and contrast differences between the two on-line management plan tools</li> </ul>
<b>1000 – 1015 Break</b>				
1015 - 1115	What does the city have - Things to consider	<ul style="list-style-type: none"> <li>• Briefly describe some of the things a city may need in order to understand what it has regarding the urban forest</li> <li>• The urban forest resource               <ul style="list-style-type: none"> <li>○ Its make-up, size, condition</li> </ul> </li> <li>• The current urban forest management program (if any)</li> <li>• Current understanding of social/cultural/economic/ government influences</li> <li>• Institutional values that influence UF mgt</li> <li>• Current relevant tools               <ul style="list-style-type: none"> <li>○ Current plans                   <ul style="list-style-type: none"> <li>▪ Comprehensive plans</li> <li>▪ Urban/regional plans</li> </ul> </li> <li>○ Land use zoning</li> <li>○ Landscape codes</li> </ul> </li> </ul>	Johnson Hammtree Abbey	<ul style="list-style-type: none"> <li>• Recognize potential needs for the assessment phase of the urban forest planning process.</li> <li>• Identify, in general terms, those tools that local governments can use to drive policy and explain how they may differ between jurisdictions or states</li> </ul>

<b>Monday, May 6, 2013</b>				
<b>Time</b>	<b>Session Title</b>	<b>Session Description</b>	<b>Presenter(s)</b>	<b>Learning objectives</b>
1115 - 1200	What does the city have - The urban forest resource	<ul style="list-style-type: none"> <li>• Describe what is to be measured and what information is needed</li> <li>• Briefly compare urban tree canopy cover tools               <ul style="list-style-type: none"> <li>○ I-Tree Canopy/Vue</li> <li>○ UTC assessment</li> <li>○ Hyperspectral imagery</li> </ul> </li> <li>• Describe how the data can be used</li> </ul>	Chappelka	<ul style="list-style-type: none"> <li>• Describe and distinguish between three tools used to assess urban tree canopy in terms of how their data can be used in the assessment phase of a management plan</li> </ul>
<b>1200 – 100 Lunch</b>				
100 - 200	What does the city have - The urban forest resource continued	<ul style="list-style-type: none"> <li>• Briefly compare urban tree inventory applications               <ul style="list-style-type: none"> <li>○ ArborPro</li> <li>○ TreeKeeper</li> <li>○ Arbor SoftWorx</li> <li>○ Asset Manager</li> <li>○ Etc.</li> </ul> </li> <li>• Briefly review tools to assess environmental services and the need for such information               <ul style="list-style-type: none"> <li>○ I-Tree Streets, Eco, Hydro</li> <li>○ Others</li> </ul> </li> </ul>	Chappelka	<ul style="list-style-type: none"> <li>• Summarize the capabilities of available tree inventory and environmental benefits applications</li> <li>• Explain how that information is useful for planning</li> </ul>
200 - 300	What does the city have – Different types of plans	<ul style="list-style-type: none"> <li>• Plans (usually policy documents)               <ul style="list-style-type: none"> <li>○ Regional plans</li> <li>○ Comprehensive plans</li> <li>○ Strategic plans</li> <li>○ Master plans</li> <li>○ Other special plans (such as Urban Forestry Management plans, Beautification plans, etc.)</li> </ul> </li> <li>• Describe the purposes of these plans</li> <li>• Review the components of these plans</li> <li>• Explain how urban forest management fits into these plans</li> </ul>	Hammtree	<ul style="list-style-type: none"> <li>• Summarize the basic purposes and components of the various types of plans that local governments use</li> <li>• Describe how urban forest management fits into these plans with examples.</li> </ul>
<b>300 – 315 Break</b>				
315 - 415	What does the city have – Land use zoning	<ul style="list-style-type: none"> <li>• Describe the different types of zoning               <ul style="list-style-type: none"> <li>○ Euclidian (base and overlay zoning districts)</li> <li>○ Form-based</li> <li>○ Hybrid</li> </ul> </li> <li>• Explain how these types of zoning influence development of the built environment</li> <li>• Explain how urban forest management fits in with these zoning types</li> </ul>	Hammtree	<ul style="list-style-type: none"> <li>• Describe the basic concepts of zoning</li> <li>• Compare and contrast various zoning types and explain how each influences development</li> <li>• Describe with examples how urban forest management fits in with these zoning types.</li> </ul>
415 - 500	What does the city have – ordinances, codes, and regulations	<ul style="list-style-type: none"> <li>• Briefly describe the basic elements of tree ordinances, codes, and regulations</li> <li>• Explain the relationship between the urban forest and these regulations</li> </ul>	Abbey	<ul style="list-style-type: none"> <li>• Identify and describe the basic elements of tree ordinances, codes, and regulations and explain using examples how these regulations relate to urban forestry</li> </ul>

Tuesday, May 7, 2013				
Time	Session Title	Session Description	Presenter(s)	Learning objectives
800 - 900	What does the city want – Clarifying the vision for the urban forest	<ul style="list-style-type: none"> <li>• Discuss the process for developing the vision statement               <ul style="list-style-type: none"> <li>○ Facilitating the visioning conversation</li> <li>○ Developing the social aspects of urban forestry</li> <li>○ Working with the public, policy-makers, and other professionals</li> </ul> </li> </ul>	Johnson	<ul style="list-style-type: none"> <li>• Recall and explain how to develop a vision for the urban forest</li> </ul>
900 – 1000	What does the city want – Setting goals and objectives to realize the vision	<ul style="list-style-type: none"> <li>• Detail the use of urban forest management criteria and performance indicators</li> </ul>	Northrop	<ul style="list-style-type: none"> <li>• Define criteria and performance indicators.</li> <li>• Explain the relationship between goals and objectives and criteria and performance indicators.</li> <li>• Recognize the importance of using urban forest management criteria and performance indicators.</li> <li>• Explain the process of setting goals and objectives using the criteria and indicators to set goals and objectives.</li> </ul>
1000 – 1015 Break				
1015 – 1200	Group breakout session	<ul style="list-style-type: none"> <li>• Explanation of each urban forestry problem scenario</li> <li>• Groups begin developing their vision, goals, and objectives for their problems</li> </ul>	Northrop Johnson Chappelka Hammontree Abbey	<ul style="list-style-type: none"> <li>• Given an urban forest management scenario/problem, apply what they've learned thus far regarding the assessment phase to formulate a vision, including goals and objectives necessary to achieving that vision.</li> </ul>
1200 – 100 Lunch				
100 – 300	How does the city get what it wants – Comprehensive planning	<ul style="list-style-type: none"> <li>• Explain how comprehensive plans can be used to enhance urban forest management               <ul style="list-style-type: none"> <li>○ Establishing preservation, conservation, and mitigation policies for new development</li> <li>○ Recommending strategies for implementing goals                   <ul style="list-style-type: none"> <li>▪ Partnerships</li> <li>▪ Programs</li> <li>▪ Etc.</li> </ul> </li> <li>○ Recommending actions for implementing goals                   <ul style="list-style-type: none"> <li>▪ Changes to municipal ordinances</li> <li>▪ Subdivision regulations</li> <li>▪ Etc.</li> </ul> </li> <li>○ Establishing implementation tasks, timelines, and priorities</li> <li>○ Ensuring available resources for successful implementation</li> </ul> </li> </ul>	Hammontree	<ul style="list-style-type: none"> <li>• Recognize that comprehensive plans can be used as a tool to enhance urban forest management.</li> <li>• Explain how, using examples, comprehensive plans can be used to enhancement urban forest management</li> </ul>

Tuesday, May 7, 2013				
Time	Session Title	Session Description	Presenter(s)	Learning objectives
300 – 315 Break				
315 – 500	How does the city get what it wants – Urban forest-related ordinances	<ul style="list-style-type: none"> <li>• Landscape codes                             <ul style="list-style-type: none"> <li>○ Purpose and context behind this type of ordinance</li> <li>○ Traditional aspects</li> <li>○ Design components</li> <li>○ Technical standards</li> </ul> </li> <li>• Tree ordinances                             <ul style="list-style-type: none"> <li>○ Purpose and context behind this type of ordinance</li> <li>○ Traditional aspects</li> <li>○ Technical aspects</li> </ul> </li> <li>• Land development regulations (LDR's)                             <ul style="list-style-type: none"> <li>○ Purpose and context behind this type of ordinance</li> <li>○ Administrative features</li> <li>○ Technical components</li> <li>○ Trees, landscape, and preservation</li> </ul> </li> <li>• Urban forestry ordinances                             <ul style="list-style-type: none"> <li>○ Community trees</li> <li>○ Tree management</li> <li>○ Comprehensive urban forest planning</li> <li>○ Tree boards</li> <li>○ Public funding</li> </ul> </li> <li>• Sustainability and cutting edge issues</li> </ul>	Abbey	<ul style="list-style-type: none"> <li>• Identify and describe the basic components of landscape codes, tree ordinances , LDR's, and urban forestry ordinances</li> <li>• Explain how these codes and ordinances can be used to enhance urban forest management program</li> <li>• Describe how ordinances can be used to address urban forest sustainability</li> </ul>

<b>Wednesday, May 8, 2013</b>				
<b>Time</b>	<b>Session Title</b>	<b>Session Description</b>	<b>Presenter(s)</b>	<b>Learning objectives</b>
800 – 900	Group presentations	<ul style="list-style-type: none"> <li>Each group will present their vision for their problem and goals/objectives to achieve their vision (5 min. each)</li> <li>Each group will be given feedback from instructors and participants regarding their presentation (5 min. each)</li> </ul>	Chapellka Johnson Northrop Luoni	<ul style="list-style-type: none"> <li>Defend the vision, goals, and objectives of the given urban forest scenario/problem</li> <li>Evaluate the proposed plans of other groups</li> </ul>
900 – 1000	How does the city get what it wants – Urban Forest Design	<ul style="list-style-type: none"> <li>Theory and application of urban forest design</li> <li>Design phase is critical to the planning phase               <ul style="list-style-type: none"> <li>Where/how does design fit into the process</li> </ul> </li> <li>Street spaces               <ul style="list-style-type: none"> <li>Pedestrian promenades, boulevards, tree lawns, etc.</li> <li>the role of trees in framing non-traffic function within the street</li> <li>the street's changing role and usage patterns                   <ul style="list-style-type: none"> <li>traffic-dominated vs. pedestrian-dominated</li> </ul> </li> </ul> </li> </ul>	Luoni	<ul style="list-style-type: none"> <li>Recognize the importance that the design phase plays in urban forest management planning</li> </ul>
<b>1000 – 1015 Break</b>				
1015 – 1100	How does the city get what it wants – Urban Forest Design continued	<ul style="list-style-type: none"> <li>Linear promenade and the role of trees in establishing arboreal urban form in dense cities</li> <li>Suburban landscape and the idea of the green town               <ul style="list-style-type: none"> <li>emergence of low impact development</li> <li>delivery of ecological services</li> </ul> </li> <li>Residential squares and the role of trees               <ul style="list-style-type: none"> <li>Ornamental vs stages of social life</li> </ul> </li> <li>The urban park               <ul style="list-style-type: none"> <li>The return of attention toward ecological relationships and succession dynamics</li> </ul> </li> </ul>	Luoni	<ul style="list-style-type: none"> <li>Describe the concepts of urban design and explain, using examples, its role in urban forest management planning.</li> </ul>
1100 – 1200	How does the city get what it wants – Adaptive management principles	<ul style="list-style-type: none"> <li>Development of alternatives for action</li> <li>Selection of preferred alternatives for action</li> <li>Development of implementation plan, including a monitoring plan</li> <li>Continuing the public review and comment process               <ul style="list-style-type: none"> <li>Building consensus: the key to success</li> </ul> </li> </ul>	Northrop	<ul style="list-style-type: none"> <li>Recognize that including the public in the planning process is necessary</li> <li>Describe the public review and comment process</li> <li>Describe how including the public in the planning process is a key to a successful urban forest management plan</li> <li>Explain the need for including alternative actions into an adaptive urban forest management plan</li> </ul>
<b>1200 – 100 Lunch</b>				

<b>Wednesday, May 8, 2013</b>				
<b>Time</b>	<b>Session Title</b>	<b>Session Description</b>	<b>Presenter(s)</b>	<b>Learning objectives</b>
100 – 200	How does the city get what it wants – Working with Arborists and Utility Foresters	<ul style="list-style-type: none"> <li>• Writing contracts</li> <li>• Specifications</li> <li>• Using ANSI standards</li> <li>• Best Management Practices</li> </ul>	Hyde	<ul style="list-style-type: none"> <li>• Describe the components of an effective contract and specifications</li> <li>• Explain how and why well written, effective contracts and specifications will lead to improved urban forest management</li> </ul>
200 – 300	How does the city get what it wants – Working with partners	<ul style="list-style-type: none"> <li>• Volunteers <ul style="list-style-type: none"> <li>○ Understanding the role of volunteers</li> <li>○ Checklist of appropriate tasks for volunteers</li> </ul> </li> <li>• Engineers, planners, public works, etc. Understanding their needs/objectives</li> <li>• Policy-makers <ul style="list-style-type: none"> <li>○ Understanding their needs/objectives</li> <li>○ How to present data to them</li> </ul> </li> </ul>	Hyde	<ul style="list-style-type: none"> <li>• Recognize that volunteers are a potential resource</li> <li>• Describe their potential role(s).</li> <li>• Recognize policy-makers do not necessarily have similar needs and objectives and thus methods of communicating data may be different.</li> <li>• Recognize non-arborial professionals do not always have similar needs and objectives.</li> <li>• Consider the needs and objectives of non-arborial professionals when planning urban forest management</li> </ul>
<b>300 – 315 Break</b>				
315 – 400	How does the city get what it wants – Cyclical planning	<ul style="list-style-type: none"> <li>• Storm preparedness</li> <li>• Tree risk assessment</li> <li>• Tree planting</li> <li>• Pruning and removal</li> </ul>	Hyde	<ul style="list-style-type: none"> <li>• Explain the need for cyclical planning</li> <li>• Describe various cyclical plans and explain how each are used to improve urban forest management</li> </ul>
400 – 500	Group breakout session	<ul style="list-style-type: none"> <li>• Groups will make revisions to their plans per suggestions from the morning project presentation</li> <li>• Groups will improve their plans to address <ul style="list-style-type: none"> <li>○ Associating their plan with the comprehensive plan</li> <li>○ Urban forest-related ordinances</li> <li>○ Urban forest design</li> <li>○ Adaptive management principles</li> <li>○ Working with professionals, volunteers, and policy-makers</li> <li>○ Cyclical planning</li> </ul> </li> </ul>	Luoni Northrop Hyde	<ul style="list-style-type: none"> <li>• Apply learned concepts of the urban forest management process and using evaluations of faculty and participants, develop a preliminary adaptive management plan to address the given problem or scenario</li> </ul>

Thursday, May 9, 2013				
Time	Session Title	Session Description	Presenter(s)	Learning objectives
800 – 900	Group presentations	<ul style="list-style-type: none"> <li>Each group will present the highlights of their plans to address their problem (5 min. each)</li> <li>Each group will be given feedback from instructors and participants regarding their presentation (5 min. each)</li> </ul>	Northrop Luoni Hyde Escobedo	<ul style="list-style-type: none"> <li>Defend the preliminary adaptive management plan of the given urban forest problem or scenario</li> <li>Evaluate the proposed plans of other groups and provide feedback</li> </ul>
900 – 1000	Is the city getting what it wanted – Urban forest monitoring tools	<ul style="list-style-type: none"> <li>What data are being collected and how often               <ul style="list-style-type: none"> <li>Urban tree canopy cover</li> <li>Environmental benefits data</li> <li>Tree inventory data</li> </ul> </li> <li>What are these results telling you about the urban forest</li> </ul>	Escobedo	<ul style="list-style-type: none"> <li>Identify various tools used to monitor the progress of the management plan</li> <li>Illustrate, using examples, the type of data that could be collected to monitor urban forest management progress and explain their importance</li> <li>Using examples, describe how these various tools can be used to monitor the success of the urban forest management plan</li> </ul>
1000 – 1015 Break				
1015 – 1115	Is the city getting what it wanted – Monitoring and analysis	<ul style="list-style-type: none"> <li>Who is analyzing the data and how are they doing that</li> <li>How are those data being disseminated to the public and government institutions</li> <li>Public opinion survey/Community-based social marketing</li> </ul>	London	<ul style="list-style-type: none"> <li>Summarize the urban forest management plan monitoring process to ensure that the urban forest plan is accomplishing what it was designed to accomplish</li> <li>Describe the need to disseminate results of the urban forest monitoring data to the public and policy-makers</li> <li>Explain how the cyclical use of public surveys and social marketing can be used to monitor program effectiveness</li> </ul>
1115 – 1200	Is the city getting what it wanted – Evaluating and revising the plan	<ul style="list-style-type: none"> <li>Ensure intent for regulations and guidelines is being met               <ul style="list-style-type: none"> <li>Through effective development review</li> <li>Inspections</li> <li>Enforcement</li> </ul> </li> <li>Update plan to reflect any changes</li> </ul>	Northrop London	<ul style="list-style-type: none"> <li>Describe the process of ensuring that the intent of regulations and policy are meeting their objectives</li> <li>Recognize the importance for revising the urban forest management plan and describe the process for doing that</li> </ul>
1200 – 100 Lunch				
100 – 300	Case studies	<ul style="list-style-type: none"> <li>Examples of successful planning and not so successful planning</li> <li>Managing for environmental services</li> <li>Managing tree canopy cover</li> <li>Managing at the landscape scale</li> </ul>	Northrop London Escobedo	<ul style="list-style-type: none"> <li>Summarize the advantages for a municipality to have a well thought-out management plan as opposed to one with a weaker (or no) plan</li> <li>Using examples, describe how some cities have managed their natural resources to address specific goals (i.e. environmental services, canopy cover)</li> </ul>
300 – 315 Break				

<b>Thursday, May 9, 2013</b>				
<b>Time</b>	<b>Session Title</b>	<b>Session Description</b>	<b>Presenter(s)</b>	<b>Learning objectives</b>
315 – 500	Group breakout session	<ul style="list-style-type: none"> <li>Groups will complete their plans and prepare for final presentation</li> </ul>	Escobedo London	<ul style="list-style-type: none"> <li>Apply the concepts of the adaptive urban forest management planning process to develop an adaptive management plan that addresses the scenario or problem given.</li> </ul>

<b>Friday, May 10, 2013</b>				
<b>Time</b>	<b>Session Title</b>	<b>Session Description</b>	<b>Presenter(s)</b>	<b>Learning objectives</b>
800 – 1000	Group final plan presentations with faculty/class appraisal	<ul style="list-style-type: none"> <li>Each group will have 15 minutes to present their final urban forest management plan to the group</li> <li>There will be 5 minutes for comments from the faculty and students</li> </ul>	Escobedo London Macie	<ul style="list-style-type: none"> <li>Defend the adaptive management plan developed for the given urban forest scenario/problem</li> <li>Evaluate the proposed plans of other groups' adaptive management plans</li> </ul>
<b>1000 – 1015 Break</b>				
1015 – 1045	Future urban forestry technology tools	<ul style="list-style-type: none"> <li>LiDAR</li> <li>Tree risk assessment applications</li> <li>Diagnostic applications</li> <li>Storm debris estimation models</li> </ul>	Escobedo	<ul style="list-style-type: none"> <li>Identify future urban forestry technology tools and summarize how they can be used to enhance urban forest management</li> </ul>
1045 – 1115	Future directions for planning/policy	<ul style="list-style-type: none"> <li>Ordinances</li> <li>Urban forest design</li> <li>Zoning trends</li> <li>Comprehensive planning trends</li> </ul>	London	<ul style="list-style-type: none"> <li>Summarize the future direction of urban forest planning and policy with regards to ordinances, urban forest design, zoning, and comprehensive plans</li> </ul>
1115 – 1145	Potential funding opportunities	<ul style="list-style-type: none"> <li>Federal agencies</li> <li>State agencies</li> <li>Foundations</li> <li>Others</li> </ul>	Alice Ewen	<ul style="list-style-type: none"> <li>Summarize the various sources for funding and partnerships to better manage the urban forest</li> </ul>
1145 – 1200	Closing comments		Macie	

Optional: The ISA Municipal Specialist Certification exam will be offered at 1:00 p.m. for anyone desiring these credentials.