**Natural Resources Stewards Course – Curriculum Overview**

Fridays, beginning Sept. 4, 2015 – Dec. 4, 2015, 8:30 a.m. to 4:00 p.m. at NH Fish and Game Dept. Concord, NH (unless otherwise stated). Open to citizen volunteers, and Community College students for credit. For more information contact Mary Tebo Davis at mary.tebo@unh.edu or (603) 641-6060

### Sessions

<table>
<thead>
<tr>
<th>Session 1</th>
<th>NRS Curriculum Topics</th>
<th>Instructors</th>
</tr>
</thead>
</table>
| 9/4/15    | **Course Introduction and Welcome, Where we live, Compass and Pace, Intro to Tree, Shrub, and Plant Identification**  
- forms and expectations  
- welcome, icebreakers, introductions, community building  
- class wiki  
- compass use  
- tree id | NRS Program Coordinators:  
- AJ Dupere, NH Division of Forests and Lands  
- Lauren Chase-Rowell, Outdoor Rooms: Ecological and Sustainable Design Services  
- Lisa Morin, Belknap County Conservation District  
- Mary Tebo Davis, UNHCE |

<table>
<thead>
<tr>
<th>Session 2</th>
<th>NRS Curriculum Topics</th>
<th>Instructors</th>
</tr>
</thead>
</table>
| 9/11/15   | **NH's Landscapes, Ecosystems and Wildlife**  
- perspective, observation, & mindfulness  
- where we live: watersheds, eco-regions, geology and soils, forest and habitat types  
- forest communities, species and habitats  
- biodiversity, populations and limiting factors | Mary Goodyear, NH Fish and Game Dept.  
- Matt Tarr, UNHCE  
- Lauren Chase-Rowell  
- Mary Tebo Davis |

<table>
<thead>
<tr>
<th>Session 3</th>
<th>NRS Curriculum Topics</th>
<th>Instructors</th>
</tr>
</thead>
</table>
| 9/18/15   | **Fresh Water Resources**  
- Explore the functions and ecology of fresh water wetlands and how to lessen our impacts  
- Surface waters and wetland identification  
- Water quality indicators | Judy Tumosa, NH Fish and Game Dept. |

<table>
<thead>
<tr>
<th>Session 4</th>
<th>NRS Curriculum Topics</th>
<th>Instructors</th>
</tr>
</thead>
</table>
| 9/25/15   | **Permaculture Day – Nottingham, NH**  
- Special session: Dalton’s Pasture Farm sense of place, local foods supper, night sky  
- practices that support natural resources: working with what you have, growing food | Lauren Chase-Rowell, Outdoor Rooms: Ecological and Sustainable Design Services |

<table>
<thead>
<tr>
<th>Session 5</th>
<th>NRS Curriculum Topics</th>
<th>Instructors</th>
</tr>
</thead>
</table>
| 10/2/15   | **Permaculture Principles and Ethics & Reading the Forested Landscape – Society for the Protection of NH Forests**  
- permaculture principles introduced  
- forces that shape and impact NH forests and the plants and animals associated with them | Steve Whitman, Plymouth State  
- Dave Anderson, Society for the Protection of NH Forests  
- Tim Fleury, UNHCE |

<table>
<thead>
<tr>
<th>Session 6</th>
<th>NRS Curriculum Topics</th>
<th>Instructors</th>
</tr>
</thead>
</table>
| 10/9/15   | **NH Living Soils**  
- soils: origin, types, and composition; the foundation of forest ecosystems, landscapes and connection to our daily lives.  
- soil tunnel | Patty Laughlin, UNH T- School and Lorax Landscaping  
- Tom Canfield, Private Consultant  
- Bambi Miller, Private Consultant |
| Session 7 10/16/15 | **Tree Biology, Pruning and Identification & Forest Management**  
- how trees function, grow, and compartmentalize wounds  
- pruning techniques and tree identification, and pruning practice  
- why forests are managed, mapping tools, practices, and forest impacts including invasive plants  
| Lauren Chase-Rowell  
Mary Tebo Davis  
Amy Papineau, UNHCE  
Angie Hammond, NH Div F&L  
AJ Dupere, NH Div F&L  
Fred Borman, UNHCE |
| Session 8 10/23/15 | **Ecological & Sustainable Landscaping**  
- integrating design, planting and maintenance as equal partners; landscape practices based on ecological principles, natural features, plantings that promote biodiversity;  
- planting and landscaping techniques  
| Lauren Chase-Rowell, Outdoor Rooms: Ecological and Sustainable Landscape Design Services  
Mary Tebo Davis, UNHCE  
AJ Dupere, NH Div F&L |
| Session 9 10/30/15 | **Presentation Skills, and Ground Water & the Impacts of Land Use Practice**  
- techniques and demonstrations to build confidence  
- groundwater and land use impacts at the community level, decision making  
| Dennis Souto, U.S. Forest Service (retired)  
Bambi Miller, Consultant |
| Session 10 11/06/15 | **NH Wildlife (Furbearers) and Climate Change Impacts**  
- Wonders of Wildlife, fur bearers  
- Impacts of Climate Change on NH Wildlife  
(Afternoon off to allow time for attending community meeting)  
| Mary Goodyear, NH Fish and Game Dept.  
Eric Orff, National Wildlife Federation |
| Session 11 11/13/15 | **Sustainable Living & Urban Forestry: Threats and Opportunities**  
- A practical view of sustainability and how choices affect natural resources  
- Intro to urban forestry benefits and value; tools and programs to improve and sustain resources including canopy cover, invasive insects and storm impacts and tree inventory and evaluation  
| Beth Tener, Private Consultant  
Fred Borman, UNHCE  
John Parry, USFS  
Heather Green, NRS  
AJ Dupere, NH F&L |
| Session 12 11/20/15 | **Working with Local Government for Natural Resources Conservation and Protection and Innovating**  
- The roles of volunteers on natural resources committees and organization  
- Tools, strategies, techniques to conserve land  
- Innovative stormwater reduction strategies including rain gardens, pervious pavement  
- Steps to Energy Savings in Communities  
| Amanda Stone, UNHCE  
Anna Boudreau, Truslow Resource Consulting and NRS  
Julia Peterson, UNHCE  
Barbara McMillian, NHDES  
NRS Coordinators  
Energy Committee |
<table>
<thead>
<tr>
<th>Times</th>
<th>Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/4/15</td>
<td>Session 13</td>
</tr>
<tr>
<td>12:30 pm - 4:00 pm</td>
<td>Project Presentations &amp; Final Tree ID at Great Bay Community College and Evening Graduation at Urban Forestry Center</td>
</tr>
<tr>
<td></td>
<td>2 minute practiced project or volunteer presentations</td>
</tr>
<tr>
<td></td>
<td>Final Tree ID</td>
</tr>
<tr>
<td></td>
<td>dinner break on your own</td>
</tr>
<tr>
<td>4:00 – 6:00 pm</td>
<td>Natural Resources Stewards Graduation Celebration at the Urban Forestry Center, Portsmouth- Students, volunteers, and families welcome!</td>
</tr>
<tr>
<td>6:00 – 9:00 pm</td>
<td>dessert social</td>
</tr>
<tr>
<td></td>
<td>retrospective</td>
</tr>
<tr>
<td></td>
<td>graduation</td>
</tr>
<tr>
<td></td>
<td>All Coordinators</td>
</tr>
</tbody>
</table>