

DRAFT: Natural Resources Stewards Course – 2014 Curriculum Overview
Great Bay Community College Room 122/123

Sessions	NRS Curriculum Topics	Instructors
Session 1 8:30 start for students (Volunteers: 9:00 am - 4:00 pm)	<u>Course Introduction and Welcome, Using a Compass, and Tree ID</u> <ul style="list-style-type: none"> • forms and expectations • welcome, icebreakers, introductions, community building • class wiki • compass use • tree id 	NRS Program Coordinators: <ul style="list-style-type: none"> • AJ Dupere, NH Division of Forests and Lands • Lauren Chase-Rowell, Outdoor Rooms: Ecological and Sustainable Design Services • Mary Tebo Davis, UNHCE
Session 2 8:30 am - 4:00 pm	<u>Water Resources</u> <ul style="list-style-type: none"> • Explore the functions and ecology fresh water wetlands and salt marshes and how to lessen our impacts. 	Judy Tumosa, NH Fish and Game Dept. Mark Wiley, UNHCE
Session 3 8:30 am - 4:00 pm	<u>NH's Landscapes, Ecosystems and Wildlife</u> <ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Mary Goodyear, NH Fish and Game Dept. • Matt Tarr, UNHCE • Vicky Stafford, Merrimack County Conservation District • Lauren Chase-Rowell • Mary Tebo Davis
Session 4 8:30 am - 4:00 pm	<u>Intro to Permaculture & Reading Forested Landscape</u> <ul style="list-style-type: none"> • permaculture principles introduced • forces that shape and impact NH forests and the plants and animals associated with them 	<ul style="list-style-type: none"> • Steve Whitman, Plymouth State • Dave Anderson, Society for the Protection of NH Forests • Tim Fleury, UNHCE
Session 5 1:00 pm - 8:00 pm	<u>Permaculture Day – Nottingham, NH</u> <ul style="list-style-type: none"> • 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

<p>Session 6</p> <p>8:30 am - 4:00 pm</p>	<p><u>Sustainable Living & NH Soils</u></p> <ul style="list-style-type: none"> • a practical view of sustainability and how choices affect natural resources. • soils: origin, types, and composition; the foundation of forest ecosystems, landscapes and connection to our daily lives. • soil tunnel 	<ul style="list-style-type: none"> • Beth Tener, Private Consultant • Cathy Neal, UNHCE • Tom Canfield, Private Consultant • Bambi Miller, Private Consultant
<p>Session 7</p> <p>8:30 am - 4:00 pm</p>	<p><u>Tree Biology, Pruning and Identification & Forest Management</u></p> <ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Lauren Chase-Rowell • Mary Tebo Davis • Margaret Hagen, UNHCE • Angie Hammond, NH Div F&L • Fred Borman, UNHCE
<p>Session 8</p> <p>8:30 am - 4:00 pm</p>	<p><u>Ecological & Sustainable Landscaping</u></p> <ul style="list-style-type: none"> • integrating design, planting and maintenance as equal partners; landscape practices based on ecological principles, natural features, plantings that promote biodiversity; • planting and landscaping techniques 	<ul style="list-style-type: none"> • Lauren Chase-Rowell, Outdoor Rooms: Ecological and Sustainable Landscape Design Services • Mary Tebo Davis, UNHCE • AJ Dupere, NH Div F&L
<p>Session 9</p> <p>8:30 am - 4:00 pm</p>	<p><u>Presentation Skills, and Ground Water & the Impacts of Land Use Practice</u></p> <ul style="list-style-type: none"> • techniques and demonstrations to build confidence • groundwater and land use impacts at the community level, decision making 	<ul style="list-style-type: none"> • Dennis Souto, U.S. Forest Service (retired) • Bambi Miller, Consultant
<p>Session 10</p> <p>8:30 am - 4:00 pm</p>	<p><u>Working with Local Government & Land Conservation and Innovative Resource Management Projects</u></p> <ul style="list-style-type: none"> • The roles of conservation commissions, planning and zoning boards, and volunteers • panel discussion / real world problem solving • tools, strategies, techniques and how volunteers can help conserve land. • Stormwater reduction strategies including rain gardens, pervious pavement 	<ul style="list-style-type: none"> • Carol Andrews, NH Association of Conservation Commissions • Nik Coates, Planning Commission • Anna Boudreau, Strafford Rivers Conservancy • JB Cullen, NH Div F&L (retired) • Amanda Stone, UNHCE • Julia Peterson, UNHCE
<p>Session 11</p> <p>8:30 am - 4:00 pm</p>	<p><u>Presentations Part A & NH Big Tree Program; Tree Inventory and Evaluation</u></p> <ul style="list-style-type: none"> • identify, measure, and estimate tree conditions for management and care for communities • learn about measuring NH's biggest trees • community/volunteer service & invasive species presentations 	<ul style="list-style-type: none"> • Fred Borman, UNHCE • John Parry, USFS • AJ Dupere, NH F&L

<p>Session 12</p> <p>8:30 am - 4:00 pm</p>	<p><u>NH Wildlife and Climate Change Impacts & Presentations Part B & World Café</u></p> <ul style="list-style-type: none"> • Wonders of Wildlife, fur bearers, other wildlife volunteer opportunities • Wildlife and Natural Resources Inventories • community/volunteer service & invasive species presentations • evaluation exercise 	<ul style="list-style-type: none"> • Mary Goodyear, NH Fish and Game Dept. • Emily Brunkhurst, NH Fish and Game • Amanda Stone, UNHCE • NRS Coordinators
<p>Session 13</p> <p>12:30 pm - 4:00pm</p> <p>4:00 – 6:00 pm</p> <p>6:00 – 9:00 pm</p>	<p><u>Steps to Energy Savings & Tree ID and Evening Graduation</u></p> <ul style="list-style-type: none"> • learn which steps to take to reduce your energy use • final Tree ID • dinner break on your own • Natural Resources Stewards Graduation Celebration at the Urban Forestry Center, Portsmouth- Students, volunteers, and <u>families welcome!</u> • <u>dessert social</u> • <u>retrospective</u> • <u>graduation</u> 	<ul style="list-style-type: none"> • Denise Blaha, My Energy Plan • AJ Dupere, NH Div F&L • All Coordinators