

New England School of Gardening

- Course: Water Gardening Features & Accessories
- Course No.: HORT 1400-08

- Semester: Spring 2008 (April 16- July 9, 2008)
- Instructor: Jay Bearfield, CPPC

COURSE DESCRIPTION:

This is a 13 week in depth course all about Water Gardens, Features and Accessories. This comprehensive course is designed for anyone, novice to professional, who wants to learn everything there is about water features: their design, construction, components and care. Intended to provide solid industry information versus manufacturer product sales pitches, students upon completion will be able to confidently select the proper equipment necessary to design, create and maintain any of the varying water features in current production today.

This course is set up as a series of lectures, with a guest lecture on koi from a premier industry importer and a private tour of one of the Northeast's top aquatic suppliers. The course will be taught through the aid of visual presentation and handouts, with equipment samples provided for demonstration.

RECOMMENDED READING:

The Complete Pond Builder: Creating a Beautiful Water Garden, Helen Nash; Sterling Publishing, New York, 1996

Designing Water Gardens, Anthony Archer-Wills; Conran Octopus Limited, London 1999

COURSE SYLLABUS:

Lecture No.	Date:	Topic(s) Covered:
01	April 16 th	Introduction to Water Gardening <ul style="list-style-type: none">• Course Overview• Introduction to Water Gardening• Types of Features Overview• Components of a Properly Constructed Feature• The Client/ Feature Fit
02	April 23 rd	The Science Behind Water <ul style="list-style-type: none">• Basic Water Chemistry• Bacteria: The Center Role• The Nitrogen Cycle

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| 02 | April 23 rd | <p>The Science Behind Water (continued)</p> <ul style="list-style-type: none"> • Ecological Balance • The Life Cycle of a Pond • Water Clarity vs. Water Quality |
| 03 | April 30 th | <p>Construction Techniques and Technologies (Part 1 of 3)</p> <ul style="list-style-type: none"> • Liner Materials & Selection • Pond Hardware Components & Selection • Filtration • Ultra Violet Clarification/ Sterilization • Pumps: Types, Selection and Calculations • Plumbing Overview • Aeration |
| 04 | May 7 th | <p>Construction Techniques and Technologies (Part 2 of 3)</p> <ul style="list-style-type: none"> • Basic Pond Layout • Construction Overview: The Water Garden • Construction Overview: The Koi Pond • Construction Overview: Large Ponds/ Lakes • Construction Overview: Earthen Ponds |
| 05 | May 14 th | <p>Construction Techniques and Technologies (Part 3 of 3)</p> <ul style="list-style-type: none"> • Construction Overview: Pondless Water Features • Construction Overview: Formal Water Features/ Lily Ponds • Fountain Types • Construction Overview: Fountains |
| 06 | May 21 st | <p>Designing Water Features (Part 1 of 2): The Client/ Hobbyist</p> <ul style="list-style-type: none"> • The Varying Uses of Water in the Landscape • Matching the Correct Feature to the Client • Meeting the Maintenance Expectations • Features as a Personal Expression/ Connected Feeling • Water Features as an Audible Addition to the Garden • Basic Feng Shui Principles and Water • Water Movement Styles |

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07	May 28 th	<p>Designing Water Features (Part 2 of 2): The Site</p> <ul style="list-style-type: none"> • Utilizing Observation Points in Design • Short Term Design vs. Long Term Goals • Accessibility Considerations • Style vs. Environment • Light Condition Considerations • Utilizing Existing Terrain/ Creating Terrain • Electrical Considerations • Legal Considerations
08	June 4 th	<p>Maintaining Water Features</p> <ul style="list-style-type: none"> • Maintenance Overview by Feature Type • Achieving & Maintaining Ecological Balance • Water Quality: Monitoring and Adjusting • Water Quality: Management Products and Strategies • Water Clarity: Management Products • Algae Control: Management Products and Strategies • Seasonal Requirements and Considerations • Terrestrial Plant Care Considerations
09	June 11 th	<p>Water Garden Accessories</p> <ul style="list-style-type: none"> • Design: Accessorizing Features • Accessory Overview • Lighting • Statuary • Gags vs. Gadgets
10	June 18 th	<p>Fish</p> <ul style="list-style-type: none"> • Fish Overview • Types of Pond Fish for New England Climate • Basic Stocking & Care • Overwinter Care <p>Guest Lecture: Koi Basics Soon Yue of Aclearium, Inc. - Importers of Premium Koi</p> <ul style="list-style-type: none"> • Koi Overview • Introduction to Koi Families and Basic Terminology • Koi Care Basics <p><i>(Imported Koi will be on hand for this lecture)</i></p>

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11	June 25 th	<p>Aquatic Plants</p> <ul style="list-style-type: none"> • Aquatic Plant Types • Uses and Care • Winterization • Selection of Aquatic Plants: Familiarization
12	July 2 nd	<p>Tour of Fourth Generation Nurseries, Mendon, MA</p> <ul style="list-style-type: none"> • A private tour of Fourth Generation Nurseries, a full service-wholesale only, aquatic nursery and water garden supply center.
13	July 9 th	<p>Course Review</p>