

Nature's Design On The Farm

A laboratory science experience for teens

Who : Young People Ages 13 - 17

What : A course that meets weekly for eight weeks and involves lessons and activities in Biology, Chemistry, and Physics. The course will use the farm environment to examine and experiment with mid and upper level science concepts. We will look at the farm and the environment as a system with a design and a logic provided by nature. Sessions 1, 2, 3, and 4 will look holistically at the farm organism, how the pieces work together. Sessions 5, 6, 7, and 8 will take a closer look at aspects of this system.

Where: [Two Coves Farm](#) in Harpswell, ME

When : Tuesdays or Thursdays depending on interest and availability. We would begin the week of Sept 19th and run each week, excepting the first week of October, thru the week of Nov. 14th.

Cost : The cost is \$400 which includes materials, instruction, guest experts, and a farm lunch at the last session.

<p>Session One: <u>Its Alive! : The Soil Food Web of Life</u> * nature is teeming with critters, all of this biology “works” together to allow the farm machine to function</p>	<p>Session Five: <u>Its Electric!</u> * basic charges and the chemistry of soil science allow it all to happen</p>
<p>Session Two: <u>How Plants Work</u> * the basic life system of plants and plant types, their energy and reproduction</p>	<p>Session Six: <u>Farm Pests</u> * When the system is out of balance, nature takes action.... with pests!</p>
<p>Session Three: <u>The Animals and The Land</u> * care of farm animals and their perfectly honed ability to harvest the bounty of the farm</p>	<p>Session Seven: <u>Force, Work, and Simple Machines on the Farm</u> * measuring “force” and “work”, using simple tools to save ENERGY on the farm</p>
<p>Session Four: <u>Extending the Lessons of The Farm System</u> * follow up and enrichment on previously encountered concepts and lessons</p>	<p>Session Eight: <u>Lets Eat! : Food, Nutrition, and Human Health</u> * a look at how the forces of nature are used by the body in healthy farm fresh food</p>

About The Instructor:

Joe Grady has been a certified teacher in Maine for 14 years. He has taught at a variety of public and private schools in Maine and New England. In the more recent past, Joe has channeled his passion for learning into farming and agriculture. Joe and his family now run Two Coves Farm, a small diversified pasture farm raising natural meats and eggs. As an educator, Joe sees the farm as a laboratory and a classroom. The natural landscape of the farm and the coast provide a perfect setting to bring learning to life.

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