**Unit 5**

**IST 538**

**XML Schema Exercise**

Create a XML Schema that validates for the xml file, [plant\_catalog.xml](http://www.albany.edu/~mwolfe/ist538/unit5/plant_catalog.xml). You will need to download the XML file, and create an XML Schema. You will need to define all of your elements. Use the online XML Schema Validator as well as the one in Notepad++. You will follow the syntax using the information in Chapter 9 and 10 Goldberg. Your file must validate.

Here are the guidelines:

* You will need to create a *complexType* in order to create your *root* *element*. For example, the beginning of your .xsd should follow this formula (p.116):

<?xml version="1.0"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">

 <xs:element name="plant">

 <xs:complexType>

 <xs:sequence>

<xs:element name ="common"

 type="xs:string"/>

define all of your elements starting after sequence, and don't forget to close sequence,complexType,element,schema, at the end of the file.

* Define common and botanical as elements, and set their types to *string* data.
* Using a *simpleType*, define zone using *pattern matching*. Restrict to a number between 1 and 9, and make it so only one digit can be entered. (p. 132).
* Using a *simpleType, d*efine light to specific choices using *enumeration*. The choices should be restricted to the values “shady,” “mostly shady,” or “light”. (p. 130)
* price should be an element set to string data, and availability should be an element set to *integer* data.
* You will need to update the .xml file when you are finished with the .xsd file—there are data entry errors.

Submit questions and issues to your assigned group. Help each other out. ☺

When you are finished, submit it on discussion board for your “participation” credit of 1 point.  **Due Tuesday, July 6th**