

Chapter 1 : Stern's Introductory Plant Biology by James E. Bidlack

Students will be introduced to the new classification of plants and plant-related species, integration of biotechnology into several chapters and inclusion of new text boxes addressing the areas of ecology, evolution and molecular biology.

Please refer to your own notes, handouts, and to the textbook Stern, K. This web page does not include information found in various handouts and related materials e. You will be evaluated over this information as well. Introduction to Course - Day 1 Instructor of Record: Reviewed course policy, emphasis on grade evaluation, examination format, testing dates, make-up policy, etc. Reviewed general information found in syllabus e. How to be successful in this botany course! Read book reading assignments listed in the syllabus , exams will cover both lecture and reading assignments. Beginning of chapters have an outline and a chapter overview: Bold-faced headings and terms - know these terms or concepts. Review Questions - some test and quiz questions will be based on review questions at the end of the chapter. Look at diagrams and figures given in each chapter that is covered. Re-write your lecture notes the same day these are given. Cross-reference your notes with the ones posted on the internet. The Department of Biological Sciences also offers free tutoring for students who are enrolled in this and other to level undergraduate biology courses. Contact LSE for more information. Lecture and Topic Outline Plants - common examples e. Role of plants in the biosphere. Activities associated with plant life and life in general. Plants - Common examples and biodiversity Name a plant! Duckweed, geranium, apple tree, oak tree, dandelion, algae, redwood tree, carrot, etc. Plants come in different shapes, sizes. Some are short-lived, others live for hundreds of years. Plants have adapted to a wide variety of habitats, and methods of reproducing and dispersing themselves. Wilson in his book, "The Diversity of Life" there are about , species of higher plants i. There are about 26, species of algae. Modular construction - repeating units due to localized areas of growth meristems ; plants grow at their tips and outward in girth. Different modules perform specific functions Roots - anchorage and absorption of water and dissolved nutrients. Leaves - absorption of light energy and atmospheric gases carbon dioxide. Reproductive structures; male, female, or both sexes e. Structures that hold spores or seeds as they mature e. Stem - support leaves and reproductive structures, and the link between these modules and the root system. Maximize surface area for absorption of gas, light, nutrients and water. Of the three producers, decomposers, and consumers , which two are essential to life on earth? Least significant are the consumers, although these can be important ecologically for specific plants e. Beneficial Effects of Plants 1. Resupply oxygen to atmosphere 11 year supply on earth. Maintain the climate deforestation is of concern. Make a list of plants and plant products that you have come in contact over the course of a single day. List the plant and how it was used by yourself. List a particular usage only once. But if you eat ketchup then list it again. How does this list relate to the quality of your everyday life? Brief history of botany. One of the first professions was botany plant taxonomy , because it was important knowledge to be able and distinguish poisonous from edible plants. About 8, , years ago something happened that changed the heart of human society. Agriculture - fossilized plant remains e. Most ancient civilizations e. Indigenous plants and animals were domesticated by each respective society. Two hypotheses about origin of agriculture: Independent discovery in different parts of world. Diffusionist hypothesis - discovery originated in one part of the world and spread from one civilization to another. In literate societies, this information was transmitted by means of the written word. Shen Nung, born B. Carolus Linnaeus in the 18th century A. Dioscorides wrote the "Materia Medica" in the 2nd century A. Botany or biology did not progress much during the "dark ages" until the 16th and 17th century. Anton van Leeuwenhoek was the first to adapt lenses to the study of living organisms. In , Robert Hooke discovered that plant tissues were composed of cells in fact he coined the word "cell". The study of plants intensified, with plants being organized into groups and named by taxonomists, especially by people like Carolus Linnaeus. From the 17th century on to the present day, many different disciplines have developed in the field of botany.

Chapter 2 : Stern's Introductory Plant Biology by James E. Bidlack

Stern's Introductory Plant Biology assumes little prior scientific knowledge on the part of the student. Stern emphasizes current interests while presenting basic botanical principles. Students will be introduced to the new classification of plants and plant-related species, integration of biotechnology into several chapters and inclusion of.

It includes sufficient information for some shorter introductory botany courses open to both majors and nonmajors, and is arranged so that certain sections can be omitted without disrupting the overall continuity of the course. Stern emphasizes current interests while presenting basic botanical principles. This latest edition incorporates measurable learning outcomes and updated readings. Students will be introduced to the new classification of plants and plant-related species, integration of biotechnology into several chapters and inclusion of new text boxes addressing the areas of ecology, evolution and molecular biology. New photos have replaced older pictures or have been added also. With McGraw-Hill Connect Botany, instructors can deliver interactive assignments, quizzes and tests online. Customer Book Reviews Good book but bad printing By Matt B on Sep 13, The chapters cover good introductory concepts on cellular structure and applications of botany, but several 30? The spine was all but disconnected and since I rented it, I had to be super delicate with it so as not to cause further damage. By Verent Yee on Aug 13, The book arrived on time but, its cover had some damage. Something sticky was also on the bottom edges of some of the pages. Other than those details, the book is in good condition. A little wordy By Tanner on Dec 14, This was my book for an intro botany class. It goes into a lot of detail at a higher level than I was prepared for in an intro class. Not always a bad thing I guess. Standard text, learn to love it. By Babystego on Feb 20, I have this book for my botany class, bought via campus book store. I have learned more from the book than from my teacher. Dunlap on Dec 09, Awesome. Unacceptable By Kris on Dec 26, Absolutely horrible the binding is broken and pages are falling out of the book. This not an acceptable book. Five Stars By Amazon Customer on Feb 17, So glad I found this international addition for s of dolors cheaper than the american print edition Four Stars By Mark on Sep 09, I helped a lot with my gardening, in and out of class. It is exactly the same as the hardcover, U. Version, just with a soft cover and different graphics on the front. The book has very detailed tables and photos for learning about plants, but also includes some basic biology info, and a bit of chemistry. All in all, a well rounded text book that is interesting to read and informative. Take care of it and it will be there just as long as the hardcover edition. Add a Book Review Book Summary: This particular edition is in a Hardcover format. It was published by McGraw-Hill Education and has a total of pages in the book. To buy this book at the lowest price, Click Here.

Chapter 3 : Stern's Introductory Plant Biology (Bidlack)

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This introductory text assumes little prior scientific knowledge on the part of the student. It includes sufficient information for some shorter introductory botany courses open to both majors and nonmajors, and is arranged so that certain sections can be omitted without disrupting the overall.

Chapter 9 : Lecture Notes No. 1 for Biology of Plants

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