An expanded version of this syllabus with links to additional information is available online at:  
http://faculty.weber.edu/sharley/1203/syllabus.html

Prerequisites: none  
Lecture: MWF, 9:00-9:50 or MWF, 10:00-10:50  
Instructor: Dr. S. Harley  Office: SL409M  Office hours: M-F 8:00-8:50 or by appointment  
Phone: 626-7434 (my office), 626-6174 (department office)  e-mail: sharley@weber.edu

Catalog Course Description
An introductory course for non-majors that emphasizes the unique features of plant biology. Included  
are discussions on: the origins of life; important plants of the world and their habitats; plant diversity,  
structure, function, and reproduction; plants and environmental science; plants that changed history;  
practical botany; and botany as a science.  Three lecture/demonstration hours per week.

Students with disabilities
Any student requiring accommodations or services due to a disability must contact Services for  
Students with Disabilities (SSD) in room 181 of the Student Services Center. SSD can arrange to  
provide course materials in alternative formats, if necessary.

Student Behavior
You are expected to comply with the Botany Department Statement of Expectations of Students.  
http://departments.weber.edu/botany/Handbook/expectations.htm

Support materials
The following textbook is required for this class: Stern KR, Bidlack JE, Jansky S, and Uno GE.  

You can access course notes, reviews, and web links to relevant reading material and figures at  
http://faculty.weber.edu/sharley/1203/syllabus.html. You should check this site regularly for updates.  
There is also a course home page at http://faculty.weber.edu/sharley/1203/1203.htm which has links to  
the field trip web site, the syllabus, and other relevant sites.

Grading
Your grade will be based on four exams and three written assignments.

Exams
You will be given four exams. The first three will be worth 80 points each, and the  
fourth (given during finals week) will be worth 110 points. While the second, third, and fourth  
exams will not be formally cumulative, the later material in the course builds on earlier  
material. The format of the exams will be a mixture of multiple choice, matching,  
identification, short answer, and essay.

If you are so late for an exam that one has already been turned in, you may not take the  
exam. If you will be gone on official university travel, it is your responsibility to let me know  
at least one week before the exam so that you can take the exam early. If you miss an exam for  
a valid reason (death in the family, medical emergency), notify me ASAP.
Written Assignments

All written assignments are due at the beginning of class on the due date. Each assignment is worth 30 points. Late assignments will lose 5 points per calendar day. Any assignment that is more than three calendar days late will not be graded. If you cannot turn in an assignment on time for a valid reason (death in the family, medical emergency), contact me ASAP. Any plagiarism in an assignment results in an automatic zero. All assignments are to be typed (word processed), double spaced, with one inch margins and 12 point font. Do not use a cover page. If you will be gone on official university travel, it is your responsibility to turn in assignments early.

You are to summarize three research papers (no older than 1990) from the scientific journal Economic Botany. You cannot substitute any other journal. The Stewart Library has received this journal - call number SB1.E19 - since its inception in 1947. Electronic access to papers published in the early 2000s is available via the Stewart Library web site. Google Scholar allows you to search for papers by topic, author, and/or year in Economic Botany. The journal website has a PDF file of the Table of Contents for each issue starting in 2000. If a paper in Economic Botany is headed "Utilization Abstract," "Notes on Economic Plants," "Botanical Note," "Collections Corner," "Plant Portraits," or "Book Review," it may not be used. (Basically, avoid any article that is four pages or less in length.) You want one of the "Research" papers from 1990-2006.

Each assignment will include a one paragraph summary of the article. This paragraph will be followed by one paragraph in which you discuss what the article tells you in general about plants. The chosen article should be the primary reference. Additional references could include other periodical articles, web sites, and encyclopedias. If you use any references, be sure to cite them. See the online syllabus for details on citing references, assignment formats, etc. A photocopy or printout of the PDF file of the chosen article is to be turned in with your summary. If a hard copy of the article does not accompany the summary, the summary will be docked 10 points.

As an alternative to the first article summary, you can go on the Uinta Mountains Field Trip on September 15. You can access information about the field trip at http://departments.weber.edu/botany/UMFT/home.htm To use the field trip as a substitute for the first article summary, you must go on the trip and turn in the answers to the field trip review questions by September 29.

Extra Credit: There is no extra credit in this class. (1) If you do not have time to master the content material and complete the assignments mentioned above, you certainly do not have time to do extra work. (2) It is not to fair to your classmates for you to have different criteria for your grade.

Calculation of your grade:

Four exams (3 @ 80 points each; 1 @ 110 points) 350 points
Summaries of three Economic Botany articles or summaries of two articles and the field trip @ 30 points each 90 points
TOTAL 440 points
Point totals to achieve a specific grade are as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Point Range</th>
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<tbody>
<tr>
<td>A</td>
<td>409-440</td>
</tr>
<tr>
<td>B</td>
<td>365-382</td>
</tr>
<tr>
<td>C</td>
<td>321-338</td>
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<tr>
<td>D</td>
<td>277-294</td>
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<tr>
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<td>352-364</td>
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<tr>
<td>C-</td>
<td>308-320</td>
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<tr>
<td>D-</td>
<td>264-276</td>
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<tr>
<td>B+</td>
<td>383-395</td>
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<tr>
<td>C+</td>
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<tr>
<td>D+</td>
<td>295-307</td>
</tr>
<tr>
<td>E</td>
<td>0-263</td>
</tr>
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### Course Topics (subject to change)

<table>
<thead>
<tr>
<th>Course</th>
<th>Textbook</th>
</tr>
</thead>
</table>
| 1. Introduction  
  Economic Botany | Ch 1  
  Ch 5: 75-77  
  Ch 6: 99-104  
  Ch 7: 123-125  
  Ch 14: 248-249  
  Ch 20: 385  
  Ch 21: 404-407  
  Ch 22: 421-427  
  Ch 24  
  App 3 |
| 2. To be alive  
  Attributes of life  
  Molecules of life  
  Cellular basis of life | Ch 2: 14-15, 21-27  
  Ch 3  
  Ch 10: 185-186 |
| 3. To be a plant  
  Challenges  
  Characteristics of plants  
  Basic structure  
  Development (video) | Ch 1  
  Ch 4  
  Ch 5: 65-74  
  Ch 6: 85-99  
  Ch 7: 107-119  
  Ch 11: 193-209  
  Ch 16 |
| 4. Reproduction  
  Asexual Reproduction  
  Sexual Reproduction: flowers and pollination (video)  
  Fruits, seeds, and seed dispersal (video) | Ch 3: 44-50  
  Ch 8  
  Ch 11: 209-213  
  Ch 12: 217-222  
  Ch 14: 260-265  
  Ch 23: 431-442  
  App4: 586-591 |
| 5. Metabolism and Assimilation  
  Cellular Respiration  
  Photosynthesis  
  Mineral Nutrition  
  Carnivorous Plants (video) | Ch 5: 74-75  
  Ch 7: 119-122  
  Ch 9: 160-163  
  Ch 10  
  Ch 17: 304-308 |
6. Some other organisms
   Other Plants
   
   Bryophytes
   Seedless Vascular Plants
   Gymnosperms
   Algae
   Cyanobacteria
   Lichens

   Ch 17: 304-308
   Ch. 18: 320-341
   Ch. 19: 368-370
   Ch. 20
   Ch. 21
   Ch. 22

7. Plant Ecology
   Soil
   Plant Successions (video)
   Cryptobiotic Soil Crusts
   Ecosystems and Biomes

   Ch 5: 74-75
   Ch 7: 119-122
   Ch 9: 160-163
   Ch 25: 475-479, 483-486; Ch 26

8. TBA

**Important Dates:**

- **September 4**  Labor Day - no classes
- **September 15**  Annual Botany Department Field Trip to the Uinta Mountains - class will not meet.
  For more information, go to
  http://departments.weber.edu/botany/UMFT/home.htm
- **September 22**  First Exam
- **September 29**  Answers to the field trip review questions are due
  or
  Summary of the first *Economic Botany* paper is due
- **October 18**  Second Exam
- **October 20**  Fall Break - no classes
- **October 30**  Summary of the second *Economic Botany* paper is due
- **November 10**  Third Exam
- **November 22**  Summary of the third *Economic Botany* paper is due
- **November 24**  Thanksgiving Break - no classes
- **December 12**  9 am section: Fourth Exam, 9:30-11:30
- **December 14**  (Tuesday) 10 am section: Fourth Exam, 9:30-11:30
- **December 14**  (Thursday)