HORT 102: Horticultural Plant Science
4 Credits
Class meets Fridays, 8 - 11:50 AM, Fall Quarter 2014, FIR 107

COURSE DESCRIPTION
The term “horticulture” is derived from the Latin hortus, garden, and colere, to cultivate. The art of horticulture, an ancient tradition, entails judicious timing and the application of diverse skills. Horticulture of the day is also a science that involves the correct integration of many natural phenomena with cumulative effects for the successful growth of plants. An understanding of the science of horticulture will give meaning and scope to the art and makes it possible for us to improve upon traditional practices. This course will introduce you to many aspects of basic and applied plant science. We will investigate how plants are structured, both micro- and macroscopically. We’ll delve into the basic physiological processes of plants—how they do the things they need to do to stay alive, grow, and reproduce. We’ll also consider the wide diversity of plant species that have evolved over time and the different features that distinguish them from one another. In addition, we will explore botany as a field of active scientific inquiry, conducting experiments on plants’ responses to various aspects of their environment. Throughout the course, we will identify connections among the concepts being addressed and things you may need or want to consider in your day-to-day interactions with or observations of plants.

This is a hybrid course and requires online participation in addition to classroom attendance.

INSTRUCTOR INFORMATION
Name: Emily Gatch
Telephone: 425.640.1343
Email: emily.gatch@edcc.edu
Office Hours:
Mondays 1:00 - 2:30 PM
Tuesdays 10:00 - 11:00 AM
Fridays 3:20 - 5:00 PM
Office Location: FIR 105

COMMUNICATION
The best way to reach me is via e-mail (emily.gatch@edcc.edu) or office phone (435.640.1343). When you email me, please type H102 in the subject area. I check email daily Monday through Friday (and most weekend days) and will respond within 24 hours. The best way to keep in contact with the class and with me is through the Canvas website.

CANVAS and COMPUTER RESOURCES
This class is supplemented with an online Canvas site. The syllabus, announcements, links to class resources, and some assignments will be housed on the Canvas class site. Instructions for Canvas access are located at http://www.edcc.edu/elearning/.

There are over 400 computers available for student use on campus; for computer locations go to http://www.edcc.edu/acs/facilities.html.

For more information on how to activate EdMail accounts, change passwords, or forward email, visit http://www.edcc.edu/edmail/.

For technical assistance with any online questions, go to http://www.edcc.edu/online/start/. The Student Technology Advice and Resource Center (START) is located in Lynnwood Hall, Rm. 305. Drop-in hours are listed on the support website. Phone support can be found at 425-640-1101.

**MATERIALS**

**Required texts:**


- Additional assigned readings, on Canvas or handed out in class.

**COURSE LEARNING OUTCOMES**

Course-level Learning Outcomes (CLOs) are listed with the appropriate College Wide Ability (CWA) they address. Detailed descriptions of College Wide Abilities are available at http://www.edcc.edu/assessment/cwa.html.

Upon successful completion of this course, students will be able to:

1. Describe basic biological processes of plants, including growth and development, photosynthesis, water and nutrient transport, reproduction, defense, and genetics (REASON).

2. Identify anatomical and morphological features of flowering plants and their adaptive significance (REASON).

3. Discuss the utility of taxonomic nomenclature and classification systems, name and recognize the major taxa of plants and their horticultural significance, and use keys to identify unknown specimens. (REASON and COMMUNICATE)

4. Discuss the roles of plants in ecological systems, with an emphasis on cultivated landscapes (REASON and COMMUNICATE).

**Certificate and Degree Outcomes:** This course is part of a certificate or a degree. Outcomes for Edmonds Community College degrees and certificates can be found in the online college catalog at http://www.edcc.edu/requirements/default.html.

**COURSE STRUCTURE:**

Classes will include a combination of lecture, laboratory exercises, group discussion, field trips, audio-visual aids, and independent research.

**ASSIGNMENTS AND GRADING**
Homework/ Outside Assignments: There will be weekly homework assignments. These may include short answer discussion questions and/or questions on Canvas. Also included will be assignments on several video programs. This will be discussed further in class.

Quizzes/Tests: There will be 2 written quizzes and a final. The final will be due on December. There may also be small lab quizzes.

Attendance and Participation:
Attendance and in-class participation are essential components of this class. Students are expected to prepare for lecture and discussions by engaging with the assigned materials prior to class. Full engagement includes arriving on time; one point will be deducted from the participation portion of the final grade for absences and late arrivals.

Make-up or Late Work: Students are strongly encouraged to notify the instructor prior to any absence, and should contact a classmate for notes and missed information. Students are responsible for all information covered in class; check with another student and/or Canvas if you are absent. Note assignment due dates; assignments will not be accepted late unless previously arranged with the instructor. All approved late work must be handed in within 1 week of the original due date, and may be subject to a 10% lowering of the grade.

Final grades are based on a standard grading scale:

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<tr>
<th>Grade</th>
<th>Percentage</th>
<th>GPA</th>
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<tbody>
<tr>
<td>A</td>
<td>100-90%</td>
<td>3.5-4.0</td>
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<td>B</td>
<td>89-80%</td>
<td>2.5-3.4</td>
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<td>C</td>
<td>79-70%</td>
<td>1.5-2.4</td>
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<td>D</td>
<td>69-65%</td>
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Policy on V and I Grades: (These policies can be found in the online college catalog at http://catalog.edcc.edu/ on the Academic Requirements page, under Student Grades.) An Incomplete (I) grade is given at the discretion of the instructor and only when the student has done satisfactory work, but could not complete part of the course work or take the final examination. To receive an incomplete, the student must develop a contract with the instructor that sets a deadline – not to exceed one year – and quality standards for the work to be completed. If the contract is not satisfactorily completed by the deadline, the ‘I’ grade remains on the student transcript. An instructor-initiated withdrawal (V) may be given if a student enrolls in a class, but never attends or stops attending class. A faculty member is under no obligation to grant an instructor-initiated withdrawal (V).

Scholastic Honesty: The Horticulture Department values student honesty and integrity. Any proven academic misconduct or questionable situations concerning plagiarism or cheating are taken very seriously and will be acted upon. At Edmonds Community College, the consequences for any form of academic misconduct include: denial of credit for the assignment, and/or denial of credit for the course, and/or notification of the Vice President for Student Services, and/or sanctions imposed (including suspension and/or dismissal from the college) by the Vice President for Student Services as he/she deems appropriate according to the policies and procedures of the college. Check the “Student Rights and Responsibilities” in the Student Discipline Policy in your student handbook found at http://catalog.edcc.edu/.

SERVICES FOR STUDENTS WITH DISABILITIES
If you require an accommodation for a disability, please contact Services for Students with Disabilities at MLT 159, 425-640-1320 or ssdmail@edcc.edu.

EMERGENCY PREPAREDNESS
The Triton Alert System information is here: www.edcc.edu/alert/triton. This System will be used to send notifications regarding campus closures, emergency situations, or evacuation orders in the event of an emergency or inclement weather. Edmonds CC students and employees are automatically enrolled to receive Triton Alerts through their college
email addresses. Sign up to receive text and voice messages on your mobile or home phones and/or additional email notifications to personal email addresses.
If the college announces a closure, we will not meet even if we are scheduled to meet off-campus. If possible, I will leave a message on my phone and send out an email and/or announcement to the class via Canvas.

ADDITIONAL RESOURCES FOR STUDENTS
- Useful Student Resources: [www.edcc.edu/students](http://www.edcc.edu/students)
- Academic Calendar: [www.edcc.edu/calendaracademic.html](http://www.edcc.edu/calendaracademic.html)
- Advising: [www.edcc.edu/advising](http://www.edcc.edu/advising)
- Center for Student Engagement and Leadership: [www.edcc.edu/csel](http://www.edcc.edu/csel)
- College Policies and Procedures: [http://catalog.edcc.edu](http://catalog.edcc.edu)
- Counseling and Resource Center: [www.edcc.edu/counseling](http://www.edcc.edu/counseling)
- Diversity Student Center: [www.edcc.edu/dsc](http://www.edcc.edu/dsc)
- eLearning Information: [www.edcc.edu/elearning](http://www.edcc.edu/elearning)
- Enrollment Services: [www.edcc.edu/es](http://www.edcc.edu/es)
- Library, including online resources: [www.edcc.edu/library](http://www.edcc.edu/library)
- Services for Students with Disabilities: [www.edcc.edu/ssd](http://www.edcc.edu/ssd)
- Student Printing Information: [www.edcc.edu/acs/printing](http://www.edcc.edu/acs/printing)
- Student Support Resources: [www.edcc.edu/support](http://www.edcc.edu/support)
- TRIO: [www.edcc.edu/trio](http://www.edcc.edu/trio)
- Title IX and Gender Discrimination: [http://www.edcc.edu/titleix/what-is-titleix/definitions/gender-discrimination.html](http://www.edcc.edu/titleix/what-is-titleix/definitions/gender-discrimination.html)

IMPORTANT DATES
The last day to withdraw, final exam day, and other important dates are listed here: [www.edcc.edu/calendaracademic.html](http://www.edcc.edu/calendaracademic.html).
HORT 102 COURSE SCHEDULE and READING ASSIGNMENTS

September 26: Introduction to Horticulture; Plant Classification & Taxonomy
Reading: Pp. 11 - 13, 242 - 246

October 3: Plant Cells & Seeds
Reading: Pp. 18 - 36

October 10: Holiday: no class

October 17: Anatomy and Morphology of Roots, Shoots, Stems, Leaves
Reading: Pp. 37 - 55, 62 - 89
*The Botany of Desire* assignment due

October 24: Flowers & Fruits
Reading: Pp. 198 - 221
Quiz 1 due

October 31: Plant Genetics
Reading: Pp. 222 - 239

November 7: Air, Minerals, Soil, and Water
Reading: Pp. 167 - 181

November 14: Photosynthesis & Respiration
Reading: Pp. 181 - 189

November 21: Promotion and Regulation of Plant Growth
Reading: Pp. 148 - 166
*The Private Life of Plants* assignment due

November 28: Thanksgiving holiday: no class

December 5: Plant Adaptations and Distribution
Reading: Pp. 97 - 141

December 12: Final Exam due