



Course Title: Plants in the Landscape

Fall 2021

Course Number: LAND 602

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Lecture Times: Mondays @ 09:00-13:00 Mountain Time

Class Location: PF 2140

Course Description:

LAND 602 introduces the characteristics and uses of trees and shrubs in the local landscape. Emphasis is placed on plant taxonomy, plant identification and planting design. Native and non-native trees, shrubs, vines and perennials will be reviewed in both natural and designed landscapes. There will be a focus on plant materials appropriate in the local region.

Teaching Approach:

The course is divided into two sections. The first half of the course focuses on basic plant taxonomy and methods of plant identification through lectures and plant walks. Local trees, shrubs, vines, and perennials will be identified on outdoor plant walks around the university campus or off-site locations. Students will prepare a plant journal and complete two quizzes/exams based on this material. The second half of the course will focus on planting design and will include guest lectures on various topics. A planting design is the final assignment where students can apply their new knowledge of plant material and the spatial characteristics of plants.

Course Learning Objectives

Upon successful completion of the course, you should have developed an understanding of the knowledge, skills, and technologies involved in the following:

1. Ability to recognize, correctly name and describe characteristics of common evergreen and deciduous woody plants.
2. To develop an understanding of the cultural requirements of plants in built environments.
3. Become proficient at accessing horticultural information from a variety of sources and apply knowledge in planting design.
4. To gain an increased awareness of the role and importance of plants to society.
5. To begin executing planting designs at a small scale that will enable the student to apply knowledge in future courses/studios and in professional practice.

LAND 602 (Plants in the Landscape) – Fall 2021 Class Schedule

<i>Mon, Sept 06</i>	<i>No Class (Labour Day)</i>
Mon, Sept 13	Class Introduction, Basic Plant Taxonomy & Identification Plant Walk #1 –Intro to Identification of Plants in the Landscape
Mon, Sept 20	Plant Walk #2 – Deciduous Trees & Shrubs
Mon, Sept 27	Plant Walk #3 – Deciduous Trees & Shrubs (cont'd)
<i>Mon, Oct 04</i>	<i>No Class (SAPL Block Week, Oct 4-8)</i>
<i>Mon, Oct 11</i>	<i>No Class (Thanksgiving)</i>
Mon, Oct 18	<u>Plant Exam #1 – Deciduous Trees & Shrubs</u> Plant Walk #4 – Coniferous Trees & Shrubs
Mon, Oct 25	Intro to planting design assignment Plant Walk #5 – Coniferous Trees & Shrubs (cont'd)
Mon, Nov 01	<u>Plant Exam #2 – Conifers</u> Planting design (ecology, function, aesthetics)
<i>Mon, Nov 08</i>	<i>No Class (Term Break–Reading Week, Nov 8-12)</i>
Mon, Nov 15	<u>Plant Journal is due</u> Planting design (Site preparation & planting plan graphics)
Mon, Nov 22	<u>Desk crit of your draft planting design</u>
Mon, Nov 29	Planning your planting project (plant sourcing, custom growing, etc.)
Mon, Dec 06	<u>Student Final Presentations of Planting Design Assignments</u>



Course Bibliography (recommended, not required to complete the course).

Trees and Shrubs Identification

- *Trees in Canada*, by John Laird Farrar (1995 or 2017 version)
- *Sibley Guide to Trees*, by David Allen Sibley (2009)
- *Illustrated Keys to the Conifers of Alberta* (Native Species Only), by Linda Kershaw and Lorna Allen (2019): <https://anpc.ab.ca/wp-content/uploads/2019/04/Gymnosperms-2019-04.pdf>

Herbaceous Plant Identification (Flowering Perennials, Grasses, and Annuals)

- *Flora of Alberta*, by E.H. Moss (1959)
- *Botany in a Day: The Patterns Method of Plant Identification*, by Thomas Elpel (2013)
- *Plant Identification Terminology: An Illustrated Glossary*, by James & Melinda Harris (2001)

Guides to Using Trees in the Landscape

- *Woody Ornamentals for the Prairies*, by Hugh Knowles (2003)
- *Trees and Shrubs for the Northern Plains*, by D. Hoag (1965)
- *Heritage Trees of Alberta*, by Libby Fairweather (2008)
- *Dirr's Hardy Trees and Shrubs: An Illustrated Encyclopedia*, by Michael Dirr (2011)
- *Landscaping with Native Trees*, by Guy Sternberg & Jim Wilson (1996)

Planting Design

- *The Planting Design Handbook*, by Nick Robinson (1992)
- *With People in Mind: Design and Management of Everyday Nature*, by R. Kaplan & S. Kaplan (1998)
- *Planting in a Post-Wild World*, by Thomas Rainer & Claudia West (2015)
- *The Living Landscape: Designing for Beauty and Biodiversity in the Home Garden*, by Rick Darke & Douglas Tallamy (2014)
- *Designing Urban Agriculture: A Complete Guide to the Planning, Design, Construction, Maintenance and Management of Edible Landscapes*, by April Philips (2013)

Internet Resources

- *Integrated Taxonomic Information System (ITIS)*: <https://www.itis.gov/> (for verifying scientific names)
- *Eagle Lake Nursery*: <http://search.eaglelakenurseries.com/11050003/> (local nursery)
- *Significant Trees of Alberta* (new, in development): <http://ab.registreenet.com/>
- *Wild About Flowers*: <https://www.wildaboutflowers.ca/> (local native plant nursery)
- *ALCLA Native Plants*: <https://alclanativeplants.com/> (local native plant nursery)
- *Alberta Native Plant Council*: <https://anpc.ab.ca/>
- *Alberta Trees of Renown: An Honour Roll of Alberta Trees* (1986): <http://cfs.nrcan.gc.ca/pubwarehouse/pdfs/24292.pdf>
- *Calgary Urban Forestry Strategic Plan*: <https://www.calgary.ca/CSPS/Parks/Documents/Management-Plans/Urban-Forestry-Strategic-Plan.pdf?noredirect=1>
- *Heritage Trees in Calgary*: <https://data.calgary.ca/Environment/Heritage-Trees-in-Calgary/qmxc-agg2>

Assessment Components

Item#	Title	Weight
1	Plant Exam #1 – Deciduous Trees & Shrubs	25%
2	Plant Exam #2 - Conifers	25%
3	Plant Journal	25%
4	Planting Design Assignment	25%
Total:		100%

The plant exams will assess the student's knowledge of the plant material covered in class. These exams will include identification of samples and/or photographs with short descriptions. Remaining portions of the exams will consist of short answer, matching and multiple choice.

The plant journal consisting of plant identification pages, representing all plants covered in the course with appropriate accompanying notes and illustrations, sketches or photographs (student's choice). The plant journal can be used as a study tool for exams and a useful reference in future courses and professional practice. The journal must be neatly presented, organized and include an index or table of contents when submitted. Further details regarding this assignment will be provided in a separate handout.

The planting design assignment will include a planting design and program for a local site in Calgary (TBD). The program should include rationale that addresses behavioural, ecological or horticultural considerations of the site. A detailed plant list including botanical and common names + quantities is also required. Planting plans must be drawn to scale either hand-drawn or computer generated. Further details regarding this assignment will be provided in a separate handout.

Evaluation:

Students will be evaluated on the basis the plant identification exams, plant journal, and their planting design exercise. The exams are held indoors with samples of plant materials.

Attendance and Participation:

Class attendance and participation are essential elements in the learning process. There may be times when it is not possible for you to attend class. Please notify the instructor prior to your absence, if possible. Missing more than 25% of class hours may result in a failing grade for the course.

Grading Scale

Final grades will be reported as letter grades, with the final grade calculated according to the 4-point range. Assignments will be evaluated by percentage grades, with their letter grade equivalents as shown.

Grade	Grade Point Value	4-Point Range	Percent	Description
A+	4.00	4.00	95-100	Outstanding - evaluated by instructor
A	4.00	3.85-4.00	90-94.99	Excellent - superior performance showing comprehensive understanding of the subject matter
A-	3.70	3.50-3.84	85-89.99	Very good performance
B+	3.30	3.15-3.49	80-84.99	Good performance
B	3.00	2.85-3.14	75-79.99	Satisfactory performance
B-	2.70	2.50-2.84	70-74.99	Minimum pass for students in the Faculty of Graduate Studies
C+	2.30	2.15-2.49	65-69.99	All final grades below B- are indicative of failure at the graduate level and cannot be counted toward Faculty of Graduate Studies course requirements.
C	2.00	1.85-2.14	60-64.99	
C-	1.70	1.50-1.84	55-59.99	
D+	1.30	1.15-1.49	50-54.99	
D	1.00	0.50-1.14	45-49.99	
F	0.00	0-0.49	0-44.99	

Notes:

A student who receives a "C+" or lower in any one course will be required to withdraw regardless of their grade point average (GPA) unless the program recommends otherwise. If the program permits the student to retake a failed course, the second grade will replace the initial grade in the calculation of the GPA, and both grades will appear on the transcript.

Media and Recording in Learning Environments

Part 1

University Calendar: <https://www.ucalgary.ca/pubs/calendar/current/e-6.html>

Recording of lectures (other than audio recordings that are pre-arranged as part of an authorized accommodation) is not permitted. Students may not record any portion of a lecture, class discussion or course-related learning activity without the prior and explicit written permission of the course instructor or authorization from Student Accessibility Services. For any other use, whether by duplication, transcription, publication, sale or transfer of recordings, written approval must be obtained from the instructor for the specific use proposed. Any use other than that described above constitutes academic misconduct and may result in suspension or expulsion.

Part 2

The instructor may use media recordings to capture the delivery of a lecture. The instructor will notify all students and guests in the class that the event is being recorded. If a student or guest wants to take steps to protect privacy, and does not want to be recorded, the instructor will provide the individual (s) with an alternative means of participating and asking questions (e.g., passing written notes with questions). Students cannot be penalized for choosing not to be recorded in situations where participation is part of the course. Students must be offered other ways of earning participation credit that do not involve recording.

Any video-recording would be intended to only capture the instructor and the front of the classroom. Students/other participants would not necessarily be visible on video recordings.

University of Calgary Policies and Supports

ACADEMIC ACCOMMODATION

Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services; SAS will process the request and issue letters of accommodation to instructors. For additional information on support services and accommodations for students with disabilities, visit www.ucalgary.ca/access/. Students who require an accommodation in relation to their coursework based on a protected ground other than disability should communicate this need in writing to their Instructor. The full policy on Student Accommodations is available at <http://www.ucalgary.ca/policies/files/policies/student-accommodation-policy.pdf>

ACADEMIC MISCONDUCT

Plagiarism involves submitting or presenting work in a course as if it were the student's own work done expressly for that particular course when, in fact, it is not. Most commonly plagiarism exists when: (a) the work submitted or presented was done, in whole or in part, by an individual other than the one submitting or presenting the work, (b) parts of the work are taken from another source without reference to the original author, (c) the whole work (e.g., an essay) is copied from another source, and/or, (d) a student submits or presents work in one course which has also been submitted in another course (although it may be completely original with that student) without the knowledge of or prior agreement of the instructor involved. While it is recognized that scholarly work often involves reference to the ideas, data and conclusions of other scholars, intellectual honesty requires that such references be explicitly and clearly noted.

Plagiarism is an extremely serious academic offence. Any suspicion of plagiarism will be reported to the Dean, and dealt with as per the regulations in the University of Calgary Graduate Calendar. For information on academic misconduct and its consequences, please see the University of Calgary Calendar at <http://www.ucalgary.ca/pubs/calendar/current/k.html>

COPYRIGHT LEGISLATION:

All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright (www.ucalgary.ca/policies/files/policies/acceptable-use-of-material-protected-by-copyright.pdf) and requirements of the copyright act (<https://laws-lois.justice.gc.ca/eng/acts/C-42/index.html>) to ensure they are aware of the consequences of unauthorised sharing of course materials (including instructor notes, electronic versions of textbooks etc.). Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Policy.

FREEDOM OF INFORMATION AND PROTECTION OF PRIVACY:

Student information will be collected in accordance with typical (or usual) classroom practice. Students' assignments will be accessible only by the authorized course faculty. Private information related to the individual student is treated with the utmost regard by the faculty at the University of Calgary.

UNIVERSITY STUDENT APPEALS OFFICE:

If a student has a concern about the course, academic matter, or a grade that they have been assigned, they must first communicate this concern with the instructor. If the concern cannot be resolved with the instructor, the student can proceed with an academic appeal, which normally begins with the Faculty. See: <https://ucalgary.ca/student-appeals/>

More student support and resources (e.g. safety and wellness) can be found here: <https://www.ucalgary.ca/registrar/registration/course-outlines>