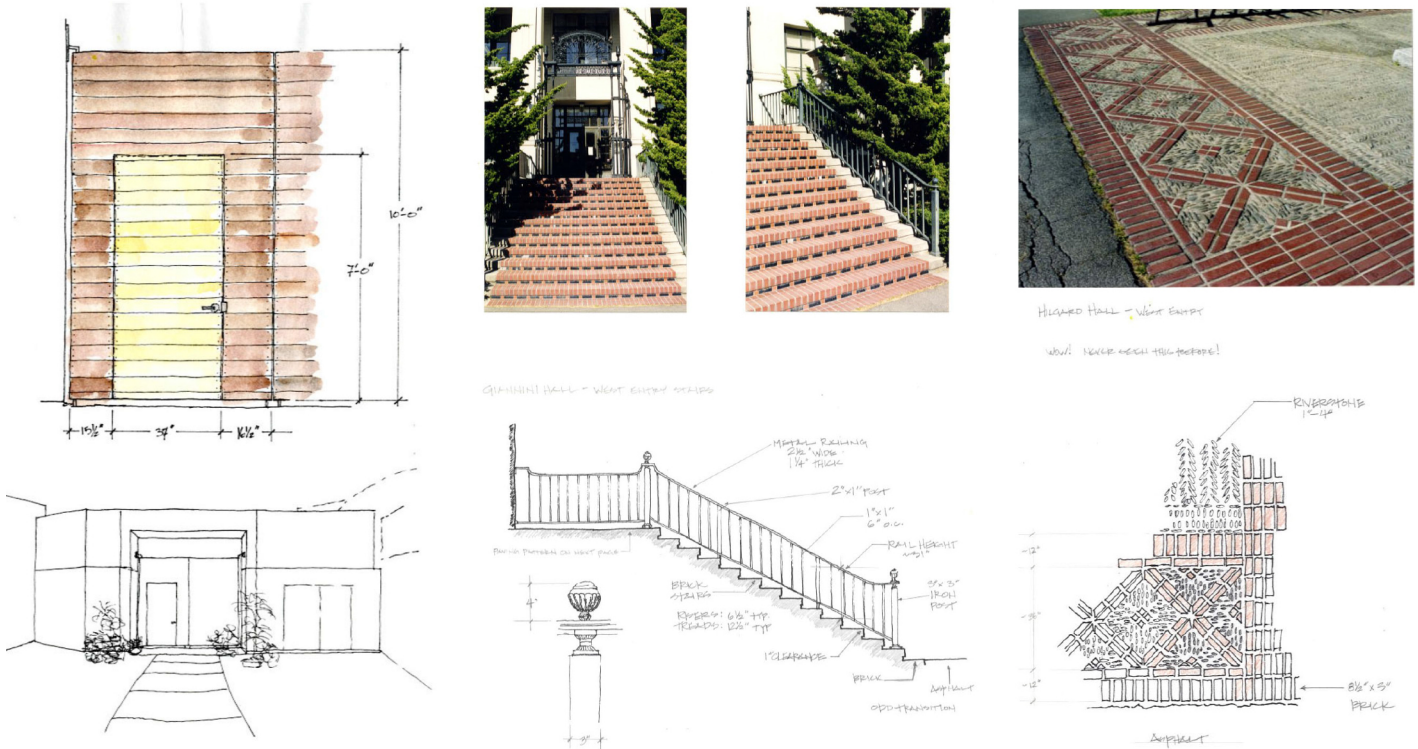


# EVDL 605 Site Technology II: Construction & Materials

## Contact Info

Site Technology II: Construction & Materials // EVDL 605 // H(2-2) // Winter 2019

Instructor: Kris Fox // PF 3181, hours by appointment // mk.fox1@ucalgary.ca // 403.220.7428 (email best)



## Course Description

University of Calgary course calendar: "Provides a working knowledge of landscape construction methods and materials through practical application of theories and techniques via a design project."

This course is an introduction to the detailed design and construction of landscape structures. The course begins with a discussion of the construction methods and materials that are particular to traditional and contemporary practices of landscape architecture. Lectures provide a strong foundation in traditional and emerging materials and methods such as stone, brick masonry, asphalt, poured and pre-cast concrete, wood, metal, glass and polymers. Contemporary landscape design case studies are presented throughout the term to illustrate specific technologies and to establish a basis for understanding materials and structures within the context of larger projects.

Sustainable methods and materials are presented throughout the course and include discussions of materials, production methods, energy use, recycled materials, labor issues and related topics. Field observation of construction materials and procedures will be scheduled based on the flexibility of student schedules and the opportunities presented by local construction schedules. Guest lectures by specialists will provide contemporary examples of the various materials used in today's practice.

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## Objectives

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

1. To understand the relationship between landscape materials, construction techniques and design decisions through lectures, case study analysis and field observations.
2. To learn the basic requirements for the design of landscape walls, screens, stairs, ramps, pavements and related structures.
3. To integrate sustainable materials and practices into the design and construction of landscape structures.
4. To learn the fundamentals of conventional concrete, stone, brick, wood, metal and glass materials and construction methods.
5. To explore emerging materials and methods such as polymers, textiles, green walls, green roofs and porous pavements.
6. To develop a practical and critical approach to working in the rapidly changing contemporary construction industry.
7. To learn standard methods of technical drawing for detail design of landscape structures.
8. To gain practical experience in making field notes and measurements of existing landscape structures.

## Teaching Approach

Through lectures, working through exercises in class, site specific field demonstrations and assignments, we will explore different ways to develop understanding of the relation between design thinking, grading plans and built form.

Landscape Architects must be able to generate design ideas in the context of a landscape setting. Understanding grading, landforms, and drainage are critical components in this process.

Readings will be assigned to complement the lectures. Students will be required to complete these readings prior to the related lecture. You may be questioned in class regarding these readings -- come prepared.

The following text is required for the course:

- Thompson, William J. & Sorvig, Kim. 2018. Sustainable Landscape Construction — 3<sup>rd</sup> edition. Washington DC: Island Press.

The following are recommended but not required:

- Holden, Robert, and Jamie Liversedge. 2011. Construction for Landscape Architecture. London, UK: Laurence King Publishing.
- Hopper, Leonard J., 2007. Landscape Architectural Graphic Standards, Student Edition. Hoboken, NJ. Wiley.

Complete course bibliography provided with assignments.

Take Home Assignments will apply the knowledge gained from lectures and in-class exercises to specific site contexts. Take home assignments will be discussed in class and are due at the beginning of class time, **as both a hardcopy and a scanned PDF file** (10:00am collection and/or pin-up). **A scanned PDF file of your marked assignment is due within 48 hours of being handed back.** In-Class Exercises will be used systematically to introduce new concepts, techniques and methodologies.

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## Equipment Needed

In addition to the required texts, you may draw upon the drafting and model building tools and supplies that you use in your studio courses. Please have those materials on hand and available at all times during class studio hours. The final deliverables for the sketchbook and materials profile report will draw upon your standing knowledge of graphics software.

You will need to purchase an appropriately sized journal / sketchbook for the Landscape Elements & Materials Sketchbook project. Each student should have a dedicated sketchbook for this course as it will be collected after the mid review. The best sizes are 7"x10" and 8.5"x11", paper type dependent upon type of rendering desired, grids at students discretion. Spiral binding may allow for easier use of light tables and scanners.

If there is a field trip to a construction site, due to WCB standards, you may be required to wear the following equipment:

- CSA approved hardhat
- safety vest
- CSA approved steel toed and plated shoes

You will be responsible for providing your own equipment and WILL NOT be allowed on a construction site without it. Failure to participate on field trips will negatively affect your grade. The need for such equipment will be announced in class.

## Course Schedule

To be issued during first day of class.

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## Means of Evaluation

EVDL 605 is a graded course. Incomplete (INC) and deferred term (DT) grades will be issued only for documented circumstances for which the student is clearly not able to complete the work due to significant illness, injury, etc. (please refer to Note #2 below). The course evaluation will be based on the assignments completed during the term. The basis for evaluation of each assignment issued will be present on the project brief. A passing grade is required for Assignment 7 in order to pass the course. There will be no final examination.

## Preliminary Course Assignment List & Values

Assignment	Title		Value
1	Landscape elements & materials sketchbook		50% total
	<i>mid review</i>	20%	
	<i>final submission</i>	30%	
2	Material sample		10%
3	Material profile report		40% total
	<i>digital presentation</i>	15%	
	<i>final submission</i>	25%	
Total			100%

## 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.

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### Timely Completion of Projects

Unless agreed to by the Instructor on compassionate grounds, illness, or for reasons of academic accommodation (see note 2 below), assigned work that is handed in late will be penalized 10% of the total available grade per calendar day late (this includes weekends and holidays). Assignments more than two calendar days late will not be accepted and no credit will be given for them. Assignments must be handed in or presented during scheduled class hours.

### Notes:

1. Written work, term assignments and other course related work may only be submitted by e-mail if prior permission to do so has been obtained from the course instructor. Submissions must come from an official University of Calgary (ucalgary) email account.
2. Academic Accommodations. Students who require an accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a protected ground other than disability, should communicate this need, preferably in writing, to their Instructor or the designated contact person in EVDS, Jennifer Taillefer ([jtaillef@ucalgary.ca](mailto:jtaillef@ucalgary.ca)). Students who require an accommodation unrelated to their coursework or the requirements for a graduate degree, based on a protected ground other than disability, should communicate this need, preferably in writing, to the Vice-Provost (Student Experience). For additional information on support services and accommodations for students with disabilities, visit [www.ucalgary.ca/access/](http://www.ucalgary.ca/access/)
3. Plagiarism - 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 (this includes having another impersonate the student or otherwise substituting the work of another for one's own in an examination or test),(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. It is recognized that clause (d) does not prevent a graduate student incorporating work previously done by him or her in a thesis. Any suspicion of plagiarism will be reported to the Dean, and dealt with as per the regulations in the University of Calgary Graduate Calendar.
4. Appeals: 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: <http://www.ucalgary.ca/provost/students/ombuds/appeals>
5. Information regarding the Freedom of Information and Protection of Privacy Act (<https://www.ucalgary.ca/legalservices/foip>)
6. Emergency Evacuation/Assembly Points (<http://www.ucalgary.ca/emergencyplan/assemblypoints>)
7. Safewalk information (<http://www.ucalgary.ca/security/safewalk>)
8. Contact Info for: Student Union (<https://www.su.ucalgary.ca/contact/>); Graduate Student representative <https://gsa.ucalgary.ca/about-the-gsa/gsa-executive-board/> Student Union Wellness Centre: <https://www.ucalgary.ca/wellnesscentre/>; Library Resources: <http://library.ucalgary.ca/> and Student Ombudsman's Office (<http://www.ucalgary.ca/ombuds/>).