UNIVERSITY OF MANITOBA
DEPARTMENT OF LANDSCAPE ARCHITECTURE

STUDENT MANUAL 2017–18

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INTRODUCTION

This manual is intended to familiarize new and already enrolled students with the operation of the Department of Landscape Architecture and the Master of Landscape Architecture (MLA) program. It is intended primarily for use by MLA students, and by students in the Landscape + Urbanism (L + U) Option of the Environmental Design (ED) program. Potential applicants to the MLA program may also find it helpful. The Manual supplements the material on the Department web site at www.umanitoba.ca/landscapearchitecture and should be read in conjunction with the Department’s Thesis / Practicum Guidelines and the Department’s Supplemental Regulations at https://umanitoba.ca/faculties/graduate_studies/media/Landscape_Architecture_2017.pdf.

The Department of Landscape Architecture is a graduate department in the Faculty of Architecture at the University of Manitoba. There are three other graduate programs in the Faculty – Architecture, City Planning and Interior Design. The Faculty also has a four-year baccalaureate program in Environmental Design, in which the third and fourth years are taught by the graduate departments.

The MLA program is accredited by the Canadian Society of Landscape Architects (CSLA) which has reciprocal recognition from the Landscape Architecture Accreditation Board (LAAB) in the United States. Successful completion of a program accredited by the CSLA / LAAB qualifies graduates to sit the North America-wide Landscape Architecture Registration Exam (LARE), the North America-wide qualification for professional registration.

Graduates with an accredited degree plus two years in practice have been required to pass all four sections of the LARE for professional registration with the Manitoba Association of Landscape Architects (MALA), a component of the CSLA.

The most recent accreditation review was conducted in Winter Term 2015. It granted a full six-year accreditation for the MLA program.

Students admitted to the program must have one of three different types of four-year baccalaureate degree with a minimum Grade Point Average (or equivalent) of 3.0 from a university recognized by the Faculty of Graduate Studies:

- a degree in Landscape Architecture from a university recognized by the Faculty of Graduate Studies or a degree in Environmental Design from the University of Manitoba
- a degree in another design discipline from a university recognized by the Faculty of Graduate Studies
- a degree in another discipline from a university recognized by the Faculty of Graduate Studies.

1: OPERATION OF THE DEPARTMENT

1.1: Registration

Graduate students in the Faculty of Architecture are required to register by web registration. A full listing of required courses for the 2017-18 academic year can be found in Section 2 of this Manual (Course Structure) and on the Department web site. Advice on registration and other program-related issues can be obtained from the Graduate Student Adviser, Yvonne Halden at yvonne.halden@umanitoba.ca or on 204 474 8769.
1.2: Facilities and Resources

Each student will be able to claim a space in the Landscape Architecture studio, in the southwest end of the 300 level of the Russell Building. Under current arrangements, graduate students in the Faculty are entitled to a studio space for 12 calendar months after the completion of their final studio. Lockers are available in the studio on a first-come, first-served basis.

Students are responsible for purchasing all equipment and supplies necessary to carry out studio and coursework. Recommendations for equipment and supplies for students entering the second year of the ED program are included in Appendix B. The same list of supplies is applicable to students in the MLA program. Equally, a mandatory computer purchase policy is implemented for ED2 students and the same requirements apply for students entering the MLA Program. Details are also provided in Appendix B in this Manual.

The Faculty Library is on the 200 level of the Russell Building. The Product Catalogue Library is on the 200 level of the Architecture 2 Building. The Computing Laboratories (CADLab) are on the 100 level of the Architecture 2 Building. The Workshop and Fabrication Laboratory (FabLab) are on the lower level of the Russell Building. The workshop orientation for incoming MLA students will be time and date from Keith.

1.3: Communications

All students must set up their U of M computer account (called the UMnetID). This account provides students with a University of Manitoba e-mail address, access to the wireless network, computer labs, printing, and other online services. Instructions for creating your UMnetID can be found at www.umanitoba.ca/computing/ist/accounts/claimid.html.

*All official correspondence will be sent to your U of M e-mail address, and it is your responsibility to monitor and maintain this account. ALL communication with University instructors and administrators MUST be conducted via students’ University of Manitoba email addresses.*

Please check your e-mail regularly and check Bulletin Boards in the studio and in common areas in the Russell Building for information regarding courses and special events.

1.4: Advisers

All incoming MLA students are allocated a department faculty member as an Academic Adviser. Students may choose to remain with that Adviser for their Thesis / Practicum and other academic matters or elect to change to another Adviser whose academic interests may be closer to their own. Once a student agrees to change to a new Adviser and/or to change Committee members, s/he must inform the Head of the Department, her/his original Adviser and the Graduate Student Adviser for the Department. A form for doing this is available from the Graduate Student Adviser.

*All graduate students are required to complete, in consultation with their Academic Adviser, an on-line Adviser-Student Agreement with respect to the responsibilities of the respective parties. This can be found at http://umanitoba.ca/faculties/graduate_studies/media/ASG_Instructions.pdf.*
1.5: Fellowships, Scholarships and Awards

Each year a limited number of University of Manitoba Graduate Fellowships is allocated to incoming students in the MLA program. Awards are generally subject to achieving a minimum Grade Point Average (GPA) of 3.75 in the last two years of study. The number of awards offered is subject to funding availability.

There are a number of other grant or scholarship opportunities sponsored by private foundations and endowments. Students should search the listings on the University Web site for opportunities that may apply to their situation or area(s) of research interest. Further scholarship information can be found at www.apps.ccumanitoba.ca:8443/searchableAwards/searchForm/awardSearch.

Students should be aware of the following scholarships, fellowships and awards that are available to students who are enrolled full-time in the MLA program:

**Faculty Wide:**
- Allan Waism An Aboriginal Architecture Scholarship
- Canadian Masonry Research Institute Scholarship
- Fridrik Kristjansson Scholarship in Architecture
- Maxwell Starkman Scholarship in Architecture

**Department Specific:**
- Barkman Concrete Scholarship
- Department of Landscape Architecture Graduate Fellowship
- Joys of Landscape Prize
- Ted McLachlan Community Engagement Scholarship
- Carl R. Nelson Travelling Fellowship in Landscape Architecture
- Alexander E. Rattray Scholarship in Landscape Architecture
- James C Thomas Fellowship in Landscape Planning
- Charles H. Thomsen Scholarship in Landscape Architecture
- Manitoba Association of Landscape Architects Fellowship in Landscape Architecture
- A Corrigill Scholarship is presented each Fall to the student in each Master's program in the Faculty having an outstanding performance during the previous academic year.

Details of these awards can be found on the Faculty of Architecture web site at http://umanitoba.ca/faculties/architecture/award/awardsdatabase.html

Students in advanced study may apply for Teaching Assistant (TA) positions. These are available on-line at www.umanitoba.ca/employment.

The Manitoba Association of Landscape Architects makes an Annual Book Award to the student with the highest academic standing in each year of the program and a gold medal is awarded each year to the graduating student with the highest GPA. The Canadian Society of Landscape Architects awards a certificate of merit / cash prize each year to a graduating student who has contributed to the affairs of the profession.

The Department awards a Thesis / Practicum Prize each year to the graduating student who has submitted the most accomplished Thesis / Practicum during the preceding 12 months. It should be noted that, in addition to the Faculty of
Graduate Studies submission requirements, departmental regulations require students to submit one hardbound copy (or proof of it having being ordered) before they are allowed to graduate. Students are obliged to provide all committee members with hardbound copies of their work, unless committee members indicate otherwise.

1.6: Speakers and Events
The Faculty Cultural Events Committee sponsors speakers and other events throughout the year. Notices are posted as early as possible for these events and students are strongly encouraged to take advantage of them.

1.7: Exhibition of Student Work
Students are reminded that they are expected to retain work for presentation for the year-end exhibition each April and that they are expected to be available to help with the preparations and set-up for the exhibition.

1.8: Regulations
Students should become familiar with the University of Manitoba Graduate Calendar and Registration Guide. They are available at http://crscalprod1.cc.umanitoba.ca/Catalog/ViewCatalog.aspx.

Students should note, in particular, the sections covering:
• General Academic Regulations and Policy Governing: Attendance, Cheating and Plagiarism, Debarment, Incomplete Work, Deferred Examinations, Appeals, Probation and Academic Suspension, Voluntary Withdrawal from Programs and Courses and Hold Status
• Regulations for Graduate Student Academic Performance
• Faculty of Architecture Regulations and Coursework Requirements
• University of Manitoba Policy on the Responsibilities of Academic Staff with Regard to Students (ROASS) and, in particular, Responsibilities of Academic Staff, Sexual Harassment, University Ombudsman, Student Advocate.

The Faculty of Graduate Studies Academic Guide can be viewed at their web site. A Guide for Students at the University of Manitoba is available from Student Affairs. The Department of Landscape Architecture Thesis / Practicum Guidelines are available on the department web site.

1.9: Reading Lists
Reading Lists are issued by instructors for each individual course. General introductory and/or reference books that incoming students might find helpful include:
2: COURSE STRUCTURE

The Design Studio is the core of the MLA program. The fields of theory, ecology, history, technology and communications are taught in lecture courses and are developed and applied in the Design Studio. The nine (9) credit hour studio courses take place on two whole days (Tuesdays and Thursdays) throughout each term. Attendance at all lecture courses and during studio times is mandatory. An additional six (6) credit hour Intersession studio may also be offered during May and early June each year.

The third and fourth years of the undergraduate Environmental Design program and the whole MLA program were reorganized in 2010 in order to allow specialization at an earlier stage in the professional disciplines offered in the Faculty. As part of this process, students are admitted direct to the MLA program at a stage commensurate with their previous qualifications (as outlined in the Introduction to this Manual). In broad terms, students admitted with:

- a degree in Landscape Architecture from another university or a degree in Environmental Design from the University of Manitoba will be required to take a minimum of two (2) studios of nine (9) credit hours each
- a degree in another design discipline will be required to take a minimum of four (4) nine (9) credit hour studios
- an undergraduate degree in another discipline will be required to take a minimum of six (6) studios of nine (9) credit hour each. This requirement is currently under review as part of measures to ensure that students from a non-design background can graduate in three years.

The curriculum for students taking the MLA program subsequent to the L+U Option is shown in Table 1 (MLA Year 3). The curriculum for students entering the MLA program with a non-design degree is shown in Figure (MLA Year 1 and sequential years 2 + 3). Students entering with a design degree other than a Bachelor of Environmental Design via the L+U Option will be required to take an appropriate combination of courses from those shown in Table 1. A brief description of the courses in the MLA program is given in Appendix A.

In addition to the Department of Landscape Architecture course requirements, all graduate students MUST take Course GRAD 7500: Academic Integrity Tutorial. Details of this can found at: http://umanitoba.ca/faculties/graduate_studies/registration/grad7500FAQ.html
### Table 1: Curriculum for MLA Program 2017-2018

<table>
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<tr>
<th>COURSE NUMBER</th>
<th>COURSE NAME</th>
<th>CREDIT HOURS</th>
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<tr>
<td>MLA YEAR 1</td>
<td>STUDENTS WITH NON-DESIGN BACKGROUND</td>
<td></td>
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<tr>
<td></td>
<td>Pre-Term Drawing Workshop (Fall Term)</td>
<td>0</td>
</tr>
<tr>
<td>LARC 6150</td>
<td>LA Communication (Fall Term)</td>
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<tr>
<td>EVLU 3002</td>
<td>Site Planning (Fall Term)</td>
<td>3</td>
</tr>
<tr>
<td>EVLU 3008</td>
<td>Ecology + Design 2 (Winter Term)</td>
<td>3</td>
</tr>
<tr>
<td>EVLU 3010</td>
<td>Landscape + Urbanism Theory (Fall Term)</td>
<td>3</td>
</tr>
<tr>
<td>EVLU 3012</td>
<td>Site Morphology + Grading (Winter Term)</td>
<td>3</td>
</tr>
<tr>
<td>LARC 7110</td>
<td>LA Studio 1 (Fall Term)</td>
<td>9</td>
</tr>
<tr>
<td>EVLU 3008</td>
<td>L+U Studio 4: Networks and Infrastructure (Winter Term)</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>TOTAL CREDIT HOURS MLA YEAR 1</td>
<td>33</td>
</tr>
<tr>
<td>MLA YEAR 2</td>
<td>STUDENTS WITH NON L+U DESIGN BACKGROUND</td>
<td></td>
</tr>
<tr>
<td>EVLU 4000</td>
<td>Philosophy, Ethics and Aesthetics (Winter Term)</td>
<td>3</td>
</tr>
<tr>
<td>EVLU 4002</td>
<td>Construction Materials (Fall Term)</td>
<td>3</td>
</tr>
<tr>
<td>EVLU 4008</td>
<td>Plants, Ecosystems and Design (Fall Term)</td>
<td>3</td>
</tr>
<tr>
<td>EVLU 4016</td>
<td>History of Landscape + Urbanism (Winter Term)</td>
<td>3</td>
</tr>
<tr>
<td>LARC 7040</td>
<td>Design Research – or in MLA Year 3 (Winter Term)</td>
<td>0/3</td>
</tr>
<tr>
<td>LARC 7220</td>
<td>LA Studio 2 (Fall Term)</td>
<td>9</td>
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<tr>
<td>EVLU 4014</td>
<td>L+U Studio 6: Emergent Futures (Winter Term)</td>
<td>9</td>
</tr>
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<td>TOTAL CREDIT HOURS MLA YEAR 2</td>
<td>30/33</td>
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<tr>
<td>LARC 7002</td>
<td>Landscape Construction + Practice (Fall Term)</td>
<td>3</td>
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<tr>
<td>LARC 7040</td>
<td>Design Research – if not taken in MLA Year 2 (Winter Term)</td>
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<tr>
<td>LARC 7250</td>
<td>Advanced LA Theory (Fall Term)</td>
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<td>LARC 7310</td>
<td>LD Seminar 1 or Graduate Level Elective (Winter Term)</td>
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<td>LARC 7330</td>
<td>LA Studio 3 (Winter Term)</td>
<td>9</td>
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<td>LARC 7340</td>
<td>LA Studio 4 (Fall Term)</td>
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<tr>
<td></td>
<td>Other Electives as required</td>
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<tr>
<td>LARC 7400</td>
<td>LA Topics (with Academic Adviser)</td>
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<td>ARCG 7102</td>
<td>Intersession Studio (as alternative to Electives)</td>
<td>6</td>
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<td>GRAD 7000 / 7300</td>
<td>Thesis / Practicum</td>
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<td>TOTAL CREDIT HOURS MLA YEAR 3</td>
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<td>TOTAL CREDIT HOURS FOR MLA PROGRAM</td>
<td>111</td>
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</table>
3: APPLICATION TO MLA PROGRAM

Canadian and/or United States students and International students must apply for admission to the MLA program by 15th January.

These dates are Faculty of Graduate Studies requirements in order to ensure that applications can be processed in a timely manner. All applications must be made on-line. For more detailed information about applying to the program, please contact the Graduate Student Adviser or go to http://umanitoba.ca/faculties/architecture/programs/landarchitecture/LAadmissions.html.

The Department Head will meet late in the Fall Term with fourth year students in the L+U Option who want to apply for entry to the MLA program. It is advisable that ALL students – whether intending to apply to the MLA program or not – begin to build a portfolio of their Design Studio work starting from the first project. This portfolio will be an important component of the application submission for graduate school or for subsequent job applications.

4: COST PARAMETERS

Table 2 (below) gives a broad estimate of costs on a year-by-year basis over and above tuition cost. It provides costs of travel and accommodation for courses such as Field Studies and/or elective studios but is not necessarily exhaustive.

<table>
<thead>
<tr>
<th>COST ITEM</th>
<th>MLA YEAR ONE</th>
<th>MLA YEAR TWO</th>
<th>MLA YEAR THREE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATES</td>
<td>Sept to May / June</td>
<td>Sept to May / June</td>
<td>Sept to August</td>
</tr>
<tr>
<td>FIELD STUDIES</td>
<td>Europe $3000</td>
<td>L+U Studio 6: $500</td>
<td>EVLU 4002: $15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LA Studio 3 and/or LA Studio 4: $465</td>
<td></td>
</tr>
<tr>
<td>BUDGET FOR PUBLICATIONS</td>
<td>$700</td>
<td>$500</td>
<td>$500</td>
</tr>
<tr>
<td>SUPPLIES / PRINTING (See Appendix B)</td>
<td>$3000</td>
<td>$1800</td>
<td>$1800</td>
</tr>
<tr>
<td>LAPTOP COMPUTER (See Appendix B)</td>
<td>$2500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMPUTER SUPPLIES</td>
<td>$1500</td>
<td>$1500</td>
<td></td>
</tr>
<tr>
<td>THESIS / PRACTICUM PRODUCTION</td>
<td></td>
<td></td>
<td>$500</td>
</tr>
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</table>

TABLE 2: BROAD ESTIMATE OF COSTS ADDITIONAL TO FEES ON YEAR-BY-YEAR BASIS
Students should review the Department of Landscape Architecture faculty list for information on the research interests and projects of each faculty member at www.umanitoba.ca/faculties/architecture/facstaff/faclist/index.html.

<table>
<thead>
<tr>
<th>NAME / POSITION</th>
<th>OFFICE LOCATION</th>
<th>EMAIL ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Academic Staff</strong></td>
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<td></td>
<td></td>
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<tr>
<td>Alan Tate Professor + Head</td>
<td>220 Architecture 2</td>
<td><a href="mailto:alan.tate@umanitoba.ca">alan.tate@umanitoba.ca</a></td>
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<tr>
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<td>Marcella Eaton Associate Professor</td>
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<td>Karen Wilson Baptist Associate Professor</td>
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<td>481 1081</td>
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<td>474 9641</td>
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<td>474 6338</td>
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<td>474 8769</td>
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<td>474 9566</td>
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<td><a href="mailto:laura.kryger@umanitoba.ca">laura.kryger@umanitoba.ca</a></td>
<td>474 7462</td>
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<td>Donna Mamott Student Services</td>
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<td><a href="mailto:donna.mamott@umanitoba.ca">donna.mamott@umanitoba.ca</a></td>
<td>474 6578</td>
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<td><a href="mailto:brandy.oreilly@umanitoba.ca">brandy.oreilly@umanitoba.ca</a></td>
<td>474 7938</td>
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<td>201O Russell</td>
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<td>474 6433</td>
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<tr>
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<td><a href="mailto:keith.millan@umanitoba.ca">keith.millan@umanitoba.ca</a></td>
<td>474 6436</td>
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</table>
APPENDIX A: MLA COURSE SUMMARIES

LANDSCAPE + URBANISM / MLA 1 + 2 COURSES

EVLU 3000 – History of Designed Environments (not offered 2017-18)
3 Credit Hours
A critical examination and appraisal of design for dwelling in the context of settlement with emphasis on representation of diverse positions on key issues in design practice. Studies will include consideration of cross cultural precedents and lessons from around the world.

EVLU 3002 – Site Planning
3 Credit Hours
An investigation of the relationship between natural and cultural processes in the formation of the built environment, including a review of the methods and strategies employed for site programming, inventory, analysis, and development at different scales of intervention.

EVLU 3004 – Ecology and Design 2
3 Credit Hours
This course will focus on an examination of ecological and technological perspectives on the planning, design and making of the physical environment. This will include a meshing of prediction and advocacy concerning new models of sustainable urbanization, focusing on green technology and infrastructure. Key theories and their application to landscapes at varied scales will be considered along with salient literature, current issues, design precedents and potentials for creative expression and interpretation. Course EVDS 2200 is a pre-requisite.

EVLU 3006 – Studio 3: Dwelling / Precinct / Everyday Life
9 Credit Hours
A studio/lecture course that examines the notion of dwelling through spatial design with a concentration at the scale of the precinct in the private to semi-private realm focusing on the needs of the individual, on spatial qualities, materials, and site design detail. Theoretical, analytical, conceptual, design, planning and communication skills in landscape + urbanism will be developed and applied in distinct projects. Emphasis is on habitat by design, issues of contested space, ecological design and sustainability. May include a mandatory field studies trip; location and cost to be determined on a yearly basis.

EVLU 3008 – Studio 4: Networks and Infrastructure
9 Credit Hours
A critical exploration of analytical, conceptual, and developmental aspects of design of the public realm in an experimental studio setting, social, political, economic, communication, and ecological networks will be studied at the scale of neighborhood and community in the urban realm.
EVLU 3010 – Landscape and Urbanism Theory

3 Credit Hours

An examination through lectures, readings, seminars and essay assignments, of twentieth and twenty first century philosophical thinking, which has been influential in the theory and practice of landscape architecture, planning and urbanism. Emphasis is on ideas, paradigms, and manifestos. This will include a study of the social, political, religious, cultural, technological, and aesthetic forces behind landscape and urbanism, and the forms that they have generated.

EVLU 3012 – Site Morphology and Grading

3 Credit Hours

An examination of the means and methods used to create landscapes that are shaped by earthwork grading. This will include the study of the forces, principles, and techniques in the modelling and manipulation of the ground plane and the resolution of cultural, ecological and hydrological design considerations implicit in landform design.

EVLU 4000 – Philosophy, Ethics and Aesthetics (Course EVLU 3010 is a pre-requisite)

3 Credit Hours

An examination of philosophical issues and debates regarding ethics and aesthetics, and their influence and potential upon urban design and urban form in the past and present, and to speculate upon the future.

EVLU 4002 – Construction Materials (Course EVLU 3012 is a pre-requisite)

3 Credit Hours

A comprehensive introduction to construction materials, methods and processes. Examination of regulatory issues of human safety and techniques for communicating construction proposals with application to how this information is incorporated into contracts. Field trips to nurseries, quarries, lumber yards, and urban sites where students can observe materials transformed to comply with the requirements of designers.

EVLU 4008 – Plants, Ecosystems and Design

3 Credit Hours

The examination of cultural and technical aspects of designing with plants will be explored in an urban context through field investigations, lectures, seminars and assignments. Issues of plant identification, planting design types, their application to contemporary landscape architecture, technical requirements, planting details and ecological integration in the urban environment will be included.

EVLU 4012 – Studio 5: Possible Urbanism(s)

9 Credit Hours

A radical exploration of analytical, conceptual, and socio-political aspects of urban public place in an experimental studio setting. An emphasis will be placed on design as mediation between competing demands. The studio incorporates the theory and application of three dimensional simulation technology in design.
**EVLU 4014 – Studio 6: Emergent Futures**

*9 Credit Hours*

This studio integrates planning and design from the scale of urban infrastructure through to design detail in the context of landscape and urbanism. An emphasis is placed on the challenges of relevant equitable environmental and social design in the post-industrial world. The studio incorporates the theory and application of GIS technology in design.

**EVLU 4016 – History of Landscape and Urbanism**

*3 Credit Hours*

An historical survey of human-made landscapes and urban settlement form, patterns, and types, including major themes and movements. Course EVLU 3000 is a pre-requisite.

**EVLU 4018 – Principles of Urban Design (not offered 2017-18)**

*3 Credit Hours*

This course examines urban design principles, practices, and applications including political and social systems, and their impacts on contemporary urban conditions.

**MLA STUDIOS**

**LARC 7110 – LA Studio 1 (M1 First Studio)**

*9 Credit Hours*

An introductory study of structure and order within nature and the built environment. Instruction in the principles of design, the basic elements of graphic and spatial composition, and the vocabulary and methods of approach to landscape architectural design within a variety of contexts.

**LARC 7222 – LA Studio 2**

*9 Credit Hours*

Studio-based study that explores analytical, conceptual, and developmental aspects of urban public places in an experimental studio-based setting. An emphasis is placed on design as mediation between competing demands. The studio incorporates the application of three-dimensional simulation technologies in design.

**LARC 7330 – LA Studio 3**

*9 Credit Hours*

Studio-based study and analysis of design issues resulting from human use, responses to, and adaptation of areas and sites. Development of proposals for planning of context and proposals for site specific design interventions that mediate between intrinsic site qualities and human demands and expectations of them in that particular locale.

**LARC 7340 – LA Studio 4**

*9 Credit Hours*

Studio-based study and analysis of resource conservation and other issues resulting from human demands on the natural environment. Development of proposals for planning of context and proposals for regionally specific design interventions that seek to protect intrinsic regional qualities while accommodating reasonable human demands on them. Particular attention will be paid to detailed meso and macro scaled site resolution.
MLA LECTURE + SEMINAR COURSES

LARC 6150 – Landscape Architecture Communication
3 Credit Hours
The objectives of this course are to promote an awareness of the diversity of graphic expression and to encourage experimentation. Students are given the opportunity to practice drawing and graphic communication skills and techniques through studio exercises.

LARC 7002 – Landscape Construction and Professional Practice
3 Credit Hours
Lecture-based course including visits to local offices and addressing legal context and circumscriptions on professional practice; responsibilities with respect to human health, safety and welfare; professional ethics; the modus operandi of professional design organizations, including office and project management, letting and running of construction contracts; detailed design and documentation exercises including preparation of construction documents.

LARC 7020 – Field Studies
3 Credit Hours
Field studies to Canadian or international locations and sites of specific interest to the discipline. Work during the visits will include presentation by students of previously prepared site introductions and the keeping of visual records in a variety of media with a view to preparing an exhibition of their findings. Work in the Field studies course will be informed by the selected topics for the winter term LA Studio 3 and LA Studio 4.

LARC 7040 – Design Research
3 Credit Hours
Seminar-based course that introduces a variety of approaches to the collection, evaluation, and application of data pertinent to the development of design-based responses to a wide range of landscape, environmental, and social issues.

LARC 7120 – Special Topics in Landscape Architecture
3 Credit Hours
An assignment and conference course. A detailed study of some special topics in landscape architecture, including environmental sustainability, urban landscape technology, and housing form.

LARC 7160 – Landscape Architectural Field Ecology
3 Credit Hours
Field study of plant taxonomy and ecology. Approximately two weeks’ duration immediately prior to the beginning of fall term. For Landscape Architecture students or with consent of Department Head.
LARC 7250 – Landscape Architecture Theory
3 Credit Hours
Investigation of the theoretical foundations of landscape architecture in order to understand the complex nature of its practice, to identify its disciplinary boundaries, understand its multidisciplinary nature and to investigate assumptions and myths that permeate its limited discourse.

LARC 7310 – Landscape Design Seminar 1
3 Credit Hours
A cross-cultural overview of significant discourses influencing design thinking and the resulting landscapes.

LARC 7320 – Landscape Design Seminar 2
3 Credit Hours
An examination of how ideas are expressed in / through design with a focus on modes of communication, representation and engagement.

LARC 7400 – Landscape Topics
3 Credit Hours
Critical examination of an individual topical study of relevance to contemporary landscape architecture. This course will lead to the completion of a practicum or thesis proposal.
APPENDIX B: SUPPLIES AND EQUIPMENT

This Appendix contains relevant excerpts from requirements for all students entering the ED2 Year. It is provided here on an advisory basis for students entering the first year of the MLA program.

Students are encouraged to bring with them any art supplies, drafting supplies and general office supplies (eg staplers, hole punchers, erasers, pens, pencils, cutting knife & blades) that they already own. The University Bookstore assembles complete packages of the equipment and supplies that are needed to set up a studio. The Faculty consults with the Bookstore to ensure quality equipment at competitive prices for students in the Faculty of Architecture.

The ED Studio One Kit costs approximately $650 and represents a +/– 40% discount from the list price on the items if they were to be sold separately. Some other “pick-up items” are listed that are not part of the kit. The “pick-up items”, which are also discounted, must be purchased separately from the kit. The total cost of equipment and supplies (including the discounts) for the ED Studio is approximately $900 EXCLUDING the cost of a camera, which many students may have already. Students should wait to make a decision on a camera, if they do not already have one, until after they start their courses.

PICK-UP ITEMS (in addition to the Drafting Kit Lists given below):

- technical pen set or disposable pens (sizes 0.3, 0.5, 0.7 mm)
- drafting lamp
- drawing board (there are several options) - bring one from home 30” x 42” x 3/4” plywood board (one good smooth side) OR buy a 30” x 42” drafting board from a drafting supply store (not particle board) OR buy a 30” x 42” plywood board in the workshop when classes begin OR buy a used board (check the bulletin boards in the Faculty). If you only bring or purchase the plywood and not a fully assembled drawing board, you will also need to purchase a Vinyl Board Cover (“Borco”) and Mayline 42” Parallel Rule
- Moleskine brand dot grid sketchbook
- model making equipment as required for specific assignments
- First Aid Kit – small basic kit

ENVIRONMENTAL DESIGN PROGRAM DRAFTING KIT:

Package #1:

- Leads Lumograph Tube 2B
- Leads Lumograph Tube 2HB
- Leads Lumograph Tube 2H
- Leads Lumograph Tube 4H
- Adjustable Triangle 10” (250 mm)
- Template Metric Circles
- Template Imperial Odd Ellipse
- Dusting Brush
- Erasing Shield
- Dry Cleaning Bag
- Scale Triangle Mech Eng / Arch
- Scale Architecture 12”
- Push pins clear 30-pack
- Tracing paper canary 12” x 50 yards
- Lettering Guide
- Lead Holder 2mm Mars Technical (2)
- 2” Fold Back Clips (2)
- Eraser Pencil / Ink Combo
- Pencil Faber 9000 HB
- Pencil Faber 9000 B
- Pencil Faber 9000 2B
- Pencil Faber 9000 4B
- Lead Pointer
- French Curve 3-piece Set
• Quick Bow Compass w/extension
• 6” Ruler Metal
• 180 Knife
• Blades for 180 Knife

• Knife L-1 Heavy Duty Cutter
• L-1 Knife Blades Heavy Duty
• Sanford Sharpie Markers Black
• Pen V5 Hi-Tech

Package #2:
• Set Square 14” [350 mm] 30/60 degrees
• Set Square 14” [350 mm] 45/90 degrees
• Cutting Mat 18” x 24”
• Westcott Ruler 24”
• Cardboard Portfolio

SITE SAFETY EQUIPMENT
for site visits:
• hard hat
• steel toe boots
• site safety glasses
• high-visibility vest

CAMERA PURCHASE
Photography is a standard method of recording information and documenting projects in studio courses. There is a wide range of options, brands, and prices. You will require a digital camera that meets the minimum requirements below:

**Camera Body:** Digital SLR, 10 megapixels *minimum*. Please note: your camera must have a full manual override mode. Other required features include: an IR remote or self-release timer, a tripod mount, an integrated flash or, better, a flash shoe.

**Camera Lens:** 18-105mm optical zoom (3X) with macro capability is preferred. Various inter-changeable lenses are preferred (but not required)

**Software:** To download, process, and print your pictures from a computer.

**Optional accessories:** Tripod and cable release.

Grey card.

The CADLab has several lenses that can be borrowed by students. Their inventory is listed here: [http://umanitoba.ca/faculties/architecture/cadlab/cadlab_equipment_loans.html](http://umanitoba.ca/faculties/architecture/cadlab/cadlab_equipment_loans.html)

Cameras can be purchased new, used (in camera stores, newspaper classifieds or on Internet auction sites), or rented from specialist stores. If you are uncertain about what to buy, or do not live in an area with a competitive camera market, we suggest you purchase your camera in Winnipeg. If you need information about digital cameras features and specifications you can check the following web sites: [www.imaging-resource.com](http://www.imaging-resource.com), [www.dpreview.com](http://www.dpreview.com), or telephone the contacts below.

There are several camera shops in Winnipeg if you are purchasing new equipment, most of them offer the standard brands – Canon, Nikon, Olympus, Pentax, and Sony – and are competitive in price. We suggest that you do price comparisons and purchase from a dealer who seems knowledgeable about the product (operation, warranty, flexibility) and will provide good follow-up service.
CAMERA STORES

**Photo Central**, 957 Portage Avenue
Telephone: 204 774 4343
Contact: Andrew Toews or Chris Insull
Andrew or Chris will advise individuals on a one to one basis or in small groups, concerning camera purchase to suit personal long-term needs. They provide good follow-up service. Call before you go and identify yourselves as Faculty of Architecture students. They also carry second hand equipment.

**Don’s Photo**, 1839 Main Street
Telephone: 204 942 8335
410 Portage Avenue (Portage & Kennedy) Telephone: 204 942 3143
845 Dakota Street Telephone: 204 254 9075

**Henry’s Winnipeg**, 1580 Kenaston Blvd., Unit 120
Telephone: (204) 477-0000

*Stores such as London Drugs, Best Buy, and Future Shop also sell cameras, but not necessarily by experienced photographers.*

COMPUTER PURCHASE

CADLab is the main provider of computer support for the Faculty of Architecture. They provide equipment loans, maintain the computer laboratory, the printing and scanning facilities, as well as providing technical help to students and staff. CADLab has worked with all the departments to establish these specifications.

All students are responsible for installing and configuring the software on their personal laptops. CADLab provides only very basic assistance with troubleshooting student-owned equipment. But if you have questions or concerns please contact Chris Leigh, CADLab Coordinator, at 204 474 9945 or by e-mail chris.leigh@umanitoba.ca. You can also visit the CADLab site at www.umanitoba.ca/architecture/cadlab.

**CADLab Recommended Laptop Configurations for 2017-18 are:**

**Macintosh:**
Apple MacBook Pro 15” Retina display
2.8 Ghz Core i7 or better
16 GB RAM
Radeon Pro 555 w/2GB
512 GB SSD or larger
*Approximately $3250*

Note:

a) MacBook and MacBook Air laptops are NOT suitable
b) MacBook Pro models that do not have dedicated graphics hardware are NOT suitable

**Personal Computer:**
7th Generation Intel Core i7
16 GB RAM
1920 x 1080 display
AMD or NVIDIA Graphics
512 GB SSD or larger
Examples: Dell Inspiron 15 5000 gaming (approximately $1800) / Asus ROG GL553 Gaming Laptop (approximately $1675) / MSI GL 62M Gaming laptop

Note:
4K/UHD is NOT recommended because many of the required programs – e.g. GIS, Rhino, Revit and AutoCAD are problematic at higher resolutions

Software Requirements for Landscape Architecture

Required:
• Adobe Creative Cloud
• Microsoft Office
• Vectorworks 2017
• ArcGIS* (Senior Years Only)
* indicates programs that require Microsoft Windows.

Recommended:
• Cinema 4D Studio R17
• Vue xStream 2015
• Rhinoceros 3D v5
• AutoCAD

Note about use of Windows software on Macintosh Computers:
It is possible to run Windows software on Macintosh laptops, it is technically cumbersome to do so and students are responsible for installing and configuring their own copy of Microsoft Windows on their Macintosh should they require it. This can be done with either VMWare or Boot Camp BUT see comparison (below) of these two methods:

The advantages and disadvantages of each are:

VMWare:
Advantages:
• allows you to use Windows and Macintosh applications at the same time
• no need to reboot to switch between Macintosh and Windows
• easy to share files between Macintosh and Windows

Disadvantages:
• applications operate about 15-40% slower in VMWare than in Boot Camp
• programs that depend heavily on 3-D graphics may be especially slow or exhibit compatibility problems

Boot Camp:
Advantages:
• runs Windows programs at full speed
• is effectively the same as using a real PC, which eliminates any compatibility issues there might be with VMWare

Disadvantages:
• Macintosh programs are not available while using Windows
• must reboot to switch between Mac and Windows
• uses more disk space
Windows and VMWare are available from CADLab at no charge. For performance reasons, CADLab recommends Boot Camp over VMWare.

Please see table below or visit the CADLab web site for information on where to obtain required and recommended software:

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>OBTAIN FROM</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3ds Max</td>
<td>students.autodesk.com</td>
<td>Free download</td>
</tr>
<tr>
<td>Adobe Creative Cloud</td>
<td>umanitoba.onthehub.com</td>
<td>$26.90 per month</td>
</tr>
<tr>
<td>ArcGIS ArcInfo</td>
<td>Faculty of Architecture Software*</td>
<td>Free download</td>
</tr>
<tr>
<td>AutoCAD</td>
<td>students.autodesk.com</td>
<td>Free download</td>
</tr>
<tr>
<td>Cinema 4D Studio</td>
<td>Faculty of Architecture Software*</td>
<td>Free download</td>
</tr>
<tr>
<td>Trimble Sketchup</td>
<td><a href="http://www.sketchup.com/products/sketchup-make">www.sketchup.com/products/sketchup-make</a></td>
<td>Free download</td>
</tr>
<tr>
<td>Microsoft Office</td>
<td>umanitoba.ca/computing/ist/email/office365faqs.html</td>
<td>Free download</td>
</tr>
<tr>
<td>Rhinoceros 3D</td>
<td>Computers on Campus (Bookstore)</td>
<td>$270 one time</td>
</tr>
<tr>
<td>Vectoworks</td>
<td>student.myvectorworks.net</td>
<td>Free download</td>
</tr>
<tr>
<td>Vue xStream</td>
<td>Faculty of Architecture Software*</td>
<td>Free download</td>
</tr>
<tr>
<td>VMWare Fusion</td>
<td>Faculty of Architecture Software*</td>
<td>Free download</td>
</tr>
<tr>
<td>Microsoft Windows</td>
<td>Faculty of Architecture Software*</td>
<td>Free download</td>
</tr>
</tbody>
</table>

NOTE: Software marked* is available without charge via a student licence program administered by the Faculty. Please visit manitoba.ca/faculties/architecture/cadlab/cadlab_student_avail_software.html for instructions.
## APPENDIX C:

**DRAFT SCHEDULE OF EVENTS FOR DEPARTMENT OF LANDSCAPE ARCHITECTURE 2017-18**

<table>
<thead>
<tr>
<th>TIME / DATE</th>
<th>EVENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday 29 August to Friday 02 Sept</td>
<td>MLA 1 / L+U 3 Drawing Workshop</td>
</tr>
<tr>
<td>Thursday 31 August 2017</td>
<td>Submission to FGS of Final Thesis / Practicum by MLA students intending to graduate in October 2017</td>
</tr>
<tr>
<td>Thursday 31 August 2017</td>
<td>Welcome / Orientation Event for incoming MLA and L+U 3 Students</td>
</tr>
<tr>
<td>Monday 04 September 2017</td>
<td>LABOUR DAY</td>
</tr>
<tr>
<td>Tuesday 05 to Thursday 21 September</td>
<td>MLA 1 / L+U 3 European Field Studies</td>
</tr>
<tr>
<td>Thursday 07 September 2017</td>
<td>First Day of Fall Term Classes</td>
</tr>
<tr>
<td>TBC September 2017</td>
<td>MALA Golf Tournament</td>
</tr>
<tr>
<td>Thursday 05 / Friday 06 Oct 2017</td>
<td>Fall Term Break</td>
</tr>
<tr>
<td>Monday 09 October 2017</td>
<td>THANKSGIVING DAY</td>
</tr>
<tr>
<td>Sunday 15 October 2017</td>
<td>Department and FGS Deadline for Submission to Committee of Draft Final Thesis / Practicum by MLA students intending to graduate in February 2018</td>
</tr>
<tr>
<td>Tuesday 17 to Thursday 19 Oct 2017</td>
<td>Fall Convocation</td>
</tr>
<tr>
<td>Friday 03 November 2017</td>
<td>Examination of Thesis / Practicums by MLA students intending to graduate in February 2018</td>
</tr>
<tr>
<td>Monday 13 November 2017</td>
<td>REMEMBRANCE DAY</td>
</tr>
<tr>
<td>Friday 17 November 2017</td>
<td>Final Date for Voluntary Withdrawal from regular Fall Term Classes</td>
</tr>
<tr>
<td>Monday 04 December 2017*</td>
<td>Design Research Thesis / Practicum Proposals</td>
</tr>
<tr>
<td>Friday 01 December 2017</td>
<td>Department Deadline for Submission of Corrected Thesis/Practicum to Adviser and/or Internal Examiner by MLA students intending to graduate in February 2017</td>
</tr>
<tr>
<td>Friday 08 December 2016</td>
<td>Last Day of Fall Term Classes</td>
</tr>
<tr>
<td>Monday 11 to Thursday 21 Dec 2017</td>
<td>Examination Period</td>
</tr>
<tr>
<td>Tuesday 12 December 2017</td>
<td>Presentation of L+U Studio 4 / EVLU 3006 / LARC 7110 Studio 1 (225 Architecture 2)</td>
</tr>
<tr>
<td>Wednesday 13 December 2017</td>
<td>Presentation of L+U Studio 5 / EVLU 4012 / LARC 7222 Studio 2 (Centrespace)</td>
</tr>
<tr>
<td>Thursday 14 December 2017</td>
<td>Presentation of MLA Studio 3 / LARC 7330 (Centrespace)</td>
</tr>
<tr>
<td>22 December 2017 to 02 January 2018</td>
<td>WINTER HOLIDAY</td>
</tr>
<tr>
<td>Wednesday 04 January 2018</td>
<td>FGS Deadline for Receipt of Corrected Thesis / Practica / MSpace submission by MLA students intending to graduate in February 2018</td>
</tr>
<tr>
<td>Wednesday 03 January 2018</td>
<td>First Day of Winter Term Classes</td>
</tr>
<tr>
<td>Friday 19 January 2018</td>
<td>Department Deadline for Submission to Committee of Draft Final Thesis / Practicum by MLA students intending to graduate in May 2017</td>
</tr>
<tr>
<td>Thursday 01 to Saturday 03 February</td>
<td>ATMOSPHERE SYMPOSIUM</td>
</tr>
<tr>
<td>Monday 19 to Friday 23 February 2018</td>
<td>READING WEEK</td>
</tr>
<tr>
<td>Friday 02 March 2018*</td>
<td>Ditchball</td>
</tr>
<tr>
<td>Friday 02 March 2018 (PM only)</td>
<td>Examination of Thesis / Practicums by MLA Students intending to graduate in May 2017*</td>
</tr>
<tr>
<td>Friday 16 March 2018</td>
<td>Department Deadline for Submission of Corrected Thesis / Practicum to Adviser and/or Internal Examiner by MLA students intending to graduate in May 2017</td>
</tr>
<tr>
<td>Friday 16 March 2018</td>
<td>Final Date for Voluntary Withdrawal from regular Winter Term Courses</td>
</tr>
<tr>
<td>Tuesday 03 April 2018</td>
<td>FGS Deadline for Receipt of Corrected Thesis / Practica / MSpace submission by MLA students intending to graduate in May 2018</td>
</tr>
<tr>
<td>Friday 06 April 2018</td>
<td>Last Day of Winter Term Classes</td>
</tr>
<tr>
<td>Monday 09 to Monday 23 April 2018</td>
<td>Examination Period</td>
</tr>
<tr>
<td>Tuesday 10 April 2018</td>
<td>Presentation of L+U Studio 4 / EVLU 3008 (Centrespace)</td>
</tr>
<tr>
<td>Wednesday 11 April 2018</td>
<td>Presentation of L+U Studio 6 / EVLU 4014 (225 Architecture 2)</td>
</tr>
<tr>
<td>Thursday 12 April 2018</td>
<td>Presentation of MLA Studio 3 / LARC 7340 (Centrespace)</td>
</tr>
<tr>
<td>TBC March 2018</td>
<td>CELA Conference (in Blacksburg, Virginia)</td>
</tr>
<tr>
<td>Friday 30 March 2018</td>
<td>GOOD FRIDAY</td>
</tr>
<tr>
<td>Friday 20 April 2018*</td>
<td>End of Year Exhibition</td>
</tr>
<tr>
<td>Monday 07 May 2018</td>
<td>Department Deadline for Submission of Draft Thesis / Practicum to Adviser and/or Internal Examiner by MLA students intending to graduate in October 2017</td>
</tr>
<tr>
<td>Monday 21 May 2018</td>
<td>VICTORIA DAY</td>
</tr>
<tr>
<td>Wed 23 and Thursday 24 May 2017*</td>
<td>Examination of Thesis by MLA students intending to graduate in October 2018</td>
</tr>
<tr>
<td>Monday 04 to Friday 08 June 2018</td>
<td>Spring Convocation</td>
</tr>
<tr>
<td>Monday 11 June 2018</td>
<td>Department Deadline for Submission of Corrected Thesis / Practicum to Adviser and/or Internal Examiner by MLA students intending to graduate in October 2018</td>
</tr>
<tr>
<td>Thursday 30 August 2018*</td>
<td>FGS Deadline for Receipt of Corrected Thesis / Practica / MSpace submission by MLA students intending to graduate in October 2018</td>
</tr>
</tbody>
</table>

**NOTE***

This schedule is for guidance only and should be cross-checked elsewhere to ascertain dates.