Welcome to the Department of Landscape Architecture. This manual is designed to familiarize new and already enrolled students with the way that the Department and the Masters program operate. It is intended primarily for use by Pre-Masters (PM) and Masters (MLA) students. Copies will also be available to ED3 students taking the Landscape Option. It is designed to supplement and amplify the material on the Department Web site (www.umanitoba.ca/faculties/architecture/la).

The Department of Landscape Architecture is a graduate department in the Faculty of Architecture. It offers courses and a graduate program leading to the degree "Master of Landscape Architecture" (MLandArch). The program is accredited by the Canadian Society of Landscape Architects (CSLA) and the Landscape Architecture Accreditation Board (LAAB) of the American Society of Landscape Architects (ASLA). Successful completion of a program accredited by the CSLA/ASLA plus a minimum of 3 years appropriate professional practice qualifies graduates, upon application, for full membership of the Manitoba Association of Landscape Architects (MALA) and to sit the Landscape Architecture Registration Exam (LARE) the North America-wide qualification for professional registration.

There are three other graduate programs in the Faculty: Architecture, City Planning and Interior Design. The Faculty also has a three-year baccalaureate program in Environmental Design - the third year of which specializes in one of the graduate disciplines.

Students entering the MLA program will have a previous undergraduate degree in Landscape Architecture or Environmental Design or will have successfully completed the Pre-Masters course offered in this Department. Students entering the three-year Masters program, which includes the PM year, must have a previous undergraduate degree from an accredited University recognized by the Faculty of Graduate Studies.

The Design Studio is the core of the program. The fields of theory, ecology, history and technology and communications are taught in lecture courses and are developed and applied in the studio. The 6 credit hour studio courses take place as three morning or afternoon seminars. Attendance during studio times is mandatory. Intersections studios in the PM and Masters Year One (M1) years (Studios 3 and 6 respectively) take place during May and early June each year.

Registration
Graduate students in the Faculty are required to register by Web registration. Students can only register for major courses by telephone or web registration. A full listing of required courses along with a list of electives offered by the Faculty of Architecture is on the next two pages.

You may also obtain advice on registration and similar program-related issues from Yvonne Halden, the Graduate Student Advisor for the Departments of City Planning, Interior Design and Landscape Architecture at (204) 474 8769 or email at haldenyl@cc.umanitoba.ca.
NB: Students may take electives from all Faculty of
Architecture departments, as well as other approved
university courses (See Graduate Student Advisor for
further details). Schedules subject to change up to and
including the first week of class.

<table>
<thead>
<tr>
<th>Pre-Master's</th>
<th>COURSE</th>
<th>Cr Hrs</th>
<th>Term</th>
<th>Instructor</th>
<th>Time</th>
<th>Location</th>
</tr>
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<tr>
<td>LARC 6160</td>
<td>L.A. Studio 1</td>
<td>6</td>
<td>1</td>
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<td>M/W/F 8:30-12:30</td>
<td>Russell Bldg.</td>
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<tr>
<td>LARC 6150</td>
<td>L.A. Communication</td>
<td>3</td>
<td>1</td>
<td>Lucas</td>
<td>Mon 1:30-4:30</td>
<td>320 JAR</td>
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<tr>
<td>EVLA 3240</td>
<td>Plants, Landsc &amp; Design</td>
<td>3</td>
<td>1</td>
<td>McLachlan</td>
<td>Tues 9-11:30 &amp; 1-4:30</td>
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<td>EVLA 3730</td>
<td>Intro LA Ecology</td>
<td>3</td>
<td>1</td>
<td>TBA</td>
<td>Wed 1:30-4:30</td>
<td>211 JAR</td>
</tr>
<tr>
<td>EVLA 3220</td>
<td>Site Grading</td>
<td>3</td>
<td>1</td>
<td>TBA</td>
<td>Thurs 2:30-5:30</td>
<td>211 JAR</td>
</tr>
<tr>
<td>LARC 6140</td>
<td>Princ of Site Planning</td>
<td>3</td>
<td>2</td>
<td>Trottier</td>
<td>Wed 1:30-4:30</td>
<td>211 JAR</td>
</tr>
<tr>
<td>LARC 6170</td>
<td>L.A. Studio 2</td>
<td>6</td>
<td>2</td>
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<td>M/W/F 8:30-12:30</td>
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<tr>
<td>LARC 6152</td>
<td>LA CAD</td>
<td>3</td>
<td>2</td>
<td>TBA</td>
<td>Mon 1:30-4:30</td>
<td>116 Arch2</td>
</tr>
<tr>
<td>EVLA 3750</td>
<td>LA History</td>
<td>3</td>
<td>2</td>
<td>Tate</td>
<td>Thurs 8:30-11:30</td>
<td>210 JAR</td>
</tr>
<tr>
<td>EVLA 3720</td>
<td>Intro LA Theory</td>
<td>3</td>
<td>2</td>
<td>Perron</td>
<td>Thurs 1:30-4:30</td>
<td>210 JAR</td>
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</table>

<table>
<thead>
<tr>
<th>Intersession</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>LARC 6180</td>
<td>L.A. Studio 3</td>
<td>6</td>
<td>IS</td>
<td>TBA</td>
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</table>

<table>
<thead>
<tr>
<th>M1 &amp; M2</th>
<th></th>
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<tr>
<td>LARC 7160</td>
<td>L.A. Field Ecology</td>
<td>3</td>
<td>1</td>
<td>TBA</td>
<td>Aug 27-Sept 01</td>
<td>Delta Marsh, Sept 4-8 Star Lake</td>
</tr>
<tr>
<td>LARC 7250</td>
<td>LA Theory 2</td>
<td>3</td>
<td>1</td>
<td>Eaton</td>
<td>Tues 1:30-4:30</td>
<td>110 Arch 2</td>
</tr>
<tr>
<td>LARC 7270</td>
<td>LA Construction</td>
<td>3</td>
<td>1</td>
<td>McLachlan</td>
<td>Thurs 1:30-4:30</td>
<td>110 Arch 2</td>
</tr>
<tr>
<td>LARC 7190</td>
<td>L.A. Studio 4</td>
<td>6</td>
<td>1</td>
<td>Trottier</td>
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<td>Russell Bldg.</td>
</tr>
<tr>
<td>LARC 7210</td>
<td>L.A. Studio 7 (M2 )</td>
<td>6</td>
<td>1</td>
<td>Tate</td>
<td>M/W/F 1:30-5:30</td>
<td>Russell Bldg.</td>
</tr>
<tr>
<td>LARC 7230</td>
<td>Prof. Practice</td>
<td>3</td>
<td>2</td>
<td>Tate</td>
<td>Tues 8:30-11:30</td>
<td>209 JAR</td>
</tr>
<tr>
<td>LARC 7240</td>
<td>Research Meth.in L.A.</td>
<td>3</td>
<td>2</td>
<td>Wilson Baptist</td>
<td>Wed 1:30-4:30</td>
<td>312S JAR</td>
</tr>
<tr>
<td>LARC 7130</td>
<td>GIS</td>
<td>3</td>
<td>2</td>
<td>TBA</td>
<td>Thurs/Fri/Sat Jan.11/12/13, Feb.1/2/3, Mar.9/10</td>
<td>111 Arch 2</td>
</tr>
<tr>
<td>LARC 7200</td>
<td>L.A. Studio 5</td>
<td>3</td>
<td>2</td>
<td>Perron</td>
<td>M/W/F 8:30-12:30</td>
<td>Russell Bldg.</td>
</tr>
<tr>
<td>LARC 7260</td>
<td>Second LA History</td>
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<td>N/A</td>
<td>Not offered</td>
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</tr>
<tr>
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<td>Ecology in Design</td>
<td>3</td>
<td>N/A</td>
<td>Not Offered</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Intersession</th>
<th></th>
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<th></th>
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<tbody>
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<td>6</td>
<td>IS</td>
<td>TBA</td>
<td>TBA</td>
<td>TBA</td>
</tr>
</tbody>
</table>

| GRAD 7000    | Thesis                          |        |      |                 |                   | All Faculty       |
| GRAD 7030    | Practicum                       |        |      |                 |                   | All Faculty       |
Facilities and Resources
Each student will be able to claim a space in the Landscape Architecture studio, in the South-West corner on the top floor 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. Equipment & Supplies information is included further on in the manual.

A mandatory computer purchase policy is implemented at the ED2 level in the undergraduate program. The same requirements apply for students entering the MLA Program. (System Specifications included with equipment and supplies information)

The Faculty Library is on the main floor of the Russell Building; the Product Catalogue Library is in the Architecture 2 Building, and the Computing Laboratories (CADLab) are on the lower level of the Architecture 2 Building. The Woodshop is on the lower level of the Russell Building.

Communications
All students should set up an Architecture network account and obtain an e-mail network account and address. The network account enables you to access software stored on the Faculty server. E-mail accounts are obtained through the CLAIMID procedure, which will be explained to you at the start of the term. Increasing amounts of communication with students are by e-mail and some courses may require network access and e-mail access. Accounts can be set up in Room 124 in the Architecture 2 Building. Your user ID will probably be your last name and first initial (e.g. Joan Smith would be smithj). Your password will be given to you in class. CADLab Teaching Assistants are available in the Architecture 2 Building to give more computer help.

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.

Advisors
All incoming PM and M1 students will be allocated an Advisor on entering the program. They may choose to remain with that Advisor for their Thesis / Practicum and other academic matters or elect to change to another Advisor whose academic interests may be closer to their own. Once you have agreed to a change with your proposed new Advisor, you should inform the Head of the Department, your original Advisor and the Graduate Student Advisor for the Department.
Awards
Each year there is a competition for University of Manitoba Graduate Fellowships. Completed applications are normally required in early February. They are for full-time students entering the M1 or M2 year. Students who are interested in applying for the Fellowship should inquire at the Faculty of Graduate Studies for application packages and definite deadlines, and should consult with the Head of the Department. Awards are generally subject to achieving a minimum Grade Point Average (GPA) of 3.75.

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.

In particular, students should be aware of the following scholarships / fellowships that are offered to students who are enrolled full-time in the Masters program in the Department of Landscape Architecture:

- Barkman Concrete Scholarship
- Carl R. Nelson Travelling Fellowship in Landscape Architecture
- Alexander E. Rattray Scholarship in Landscape Architecture (Master or Pre-master)

Further scholarship information can be found at: http://webapps.cc.umanitoba.ca/gradawards/

The Manitoba Association of Landscape Architects gives an Annual Award to the student with the highest academic standing in each year of the program and a gold medal 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 May to the graduating student who has submitted the most accomplished Thesis / Practicum during the preceding 12 months.

The Corrigill Scholarship is presented each Fall to the student in each Masters program in the Faculty having an outstanding performance during the previous academic year.

Students in advanced study may apply for TA positions which are available on-line at: http://umanitoba.ca/employment/

Speakers and Events
The Faculty Cultural Events Committee sponsors numerous 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. Jean Trottier is the Department representative on the Committee. Please address him direct if you wish to recommend particular speakers.
References
Students should become familiar with the University of Manitoba Graduate Calendar and Registration Guide. Hard-copies are available for returning students, from University of Manitoba Student Records Office, 400 University Centre. They are available on-line at: http://webapps.cc.umanitoba.ca/regguide07/faculties/graduate_studies/departments/

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 and, in particular; Responsibilities of Academic Staff, Sexual Harassment, University Ombudsman, Student Advocate.

The Faculty of Graduate Studies Academic Guide is available from the Faculty of Graduate Studies or can be viewed at their Web site www.umanitoba.ca/faculties/graduate_studies/publications/newacademicguide.pdf

A Guide for Students at the University of Manitoba is available from the Faculty of Graduate Studies.

The Department of Landscape Architecture General Guidelines for Conducting a Thesis or Practicum are included as an Appendix to this Manual.

Reading Lists
Reading Lists are issued by instructors for each individual course. General introductory/reference books that incoming students might find helpful to refer to include:

1. Jellicoe, Susan and Geoffrey. The Landscape of Man (Thames & Hudson)
2. Corner, James (Editor). Recovering Landscape (Princeton Architectural Press)
3. Lippard, Lucy The Lure of the Local (New Press)
4. Jackson, J. B. A sense of place, a sense of time (Yale University Press)
5. Rogers, Elizabeth Barlow Landscape Design: A Cultural and Architectural History (Harry N. Abrams)
7. Weilacher Udo. Between Landscape Architecture and Land Art (Birkhauser)
8. Ching, Frank (Francis D.) Space, Form and Order and Design Drawing (Van Norstrand Reinhold)
9. Dines, Nicholas T; and Harris, Charles W. Time Saver Standards for Landscape Architecture (McGraw Hill)
10. Dines, Nicholas T; Brown, Kyle and Blenkinship, Jeffrey D. Landscape Architects’ Portable Handbook (McGraw Hill)

Local Reading: Friesen, Gerald. The Canadian Prairies: A History; (U of TPress)
Introduction
The Pre-Masters (PM) year is an introductory year designed for students entering the program with a previous university degree but with no formal design education. It is a demanding year of study and requires the completion of three studios (six credit hours each) and a further eight lecture courses of three credit hours each. It addresses an array of often unfamiliar ideas and knowledge, and challenges students to develop new skills. Because the (PM) year is tailored to a broad range of backgrounds the department head will meet with each (PM) student early in the term to go over their program of study.

Aim
The PM year is designed to enable students to develop their knowledge and skills to the point where they are prepared to enter the Masters program. The means of achieving this aim are:

• exposure to a rich and intense curriculum consisting of history, theory, graphic communication, technology, ecology, biology, computing and design

• discussion of historical precedents and theoretical issues which explore how paradigms of thought, ideologies, culture and technology have influenced and continue to influence the form and structure of the human-made environment

• development of spatial perception and the ability to understand spatial order and ordering principles within the built environment

• development of the ability to transform ideas into three dimensional/spatial design in a biophysical, social and cultural context

• development of written, verbal and graphic communication skills. Students are expected to develop graphic skills in their PM year and to gain an understanding of the scope and potential of digital media.
**Studios**
The 3 studios in the PM year are

*Studio 1* in the Fall Term is an introduction to the basic principles and formal properties of design.

*Studio 2* (pre-requisite: Studio 1) in the Winter Term explores landscapes as a function of natural and cultural factors, and the act of design intervention as a thoughtful, intentional and meaningful process.

*Studio 3* (pre-requisite: Studio 2 and admission to the MLA program) takes place in Intersession, during May and early June. Students have the opportunity to synthesize the experience and knowledge from the preceding two terms in carrying out a series of design exercises and/or a comprehensive design project.

**Curriculum**
The Pre-Masters curriculum comprises:

- **5-9 September**  
  Sketch Camp

- **LARC 6152**  
  CAD  
  3

- **EVLA 3750**  
  Landscape Architecture History to 1900  
  3

- **EVLA 3220**  
  Site Grading Technology  
  3

- **EVLA 3720**  
  Landscape Architecture Theory I  
  3

- **EVLA 3730**  
  Landscape Architecture Ecology 1  
  3

- **EVLA 3240**  
  Plants, Landscape and Design  
  3

- **LARC 6140**  
  Site Planning  
  3

- **LARC 6150**  
  Communications  
  3

- **LARC 6160**  
  LA Studio 1  
  6

- **LARC 6170**  
  LA Studio 2  
  6

- **LARC 6180**  
  LA Studio 3  
  May/June (Intersession)  
  6

  **Total**  
  42

**Application to Masters Program**
Canadian/US students in the Pre-Masters year must apply by **February 1st** for admission to the Masters program in order to ensure timely registration for the Intersession studio. International students in the PM year must apply by **1st December**. These are Faculty of Graduate Studies requirements in order to ensure that applications can be processed in time for the LA Studio 3. Acceptance, at that time, can only be provisional subject to satisfactory completion of all PM courses.

The Department Head will meet with the PM group early in the Winter Term to discuss this procedure. It is advisable that all students 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.
General
Students entering the Masters program in the 2006-2007 academic year must complete 54 credit hours of coursework plus a Thesis or Practicum in order to be eligible for graduation.

Studios
Of these 54 credit hours, 24 hours must comprise successful completion of the four (4) studios of six (6) credit hours each – Studios 4, 5, 6 and 7. This sequence introduces design investigations of increasing scope and complexity.

Studio 4 has a pre-requisite of successfully completing Studio 3 from the Pre-Masters year or completing the Environmental Design program or an equivalent. The studio explores the design of landscapes as social and natural constructs at varying scales.

Studio 5 This studio has a regional landscape scale, and explores issues of land use, land cover, landscape systems, ecological connectivity, carrying capacity and regional identity. Digital technology is used relatively extensively.

Studio 6 normally has an expectation of successful completion of Studio 4. It is an 'open studio'. Normally, the Department offers an Interession studio based in Winnipeg and, occasionally, overseas. Students may also take a studio offered by one of the other graduate departments in the Faculty, or a studio offered at another university. Students are reminded in this connection of the existence of reciprocal Fee Waiver Agreements between the Deans of Western Canadian Universities and between the Province of Manitoba and the State of Minnesota.

Studio 7 has a pre-requisite of successful completion of Studio 4. This final studio is a synthesis of theoretical and technical knowledge applied through a series progressively smaller scales from framework planning to construction details.
Curriculum
The Masters curriculum for students entering the MLA program comprises:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>LARC 7130</td>
<td>GIS in landscape architecture</td>
<td>3</td>
</tr>
<tr>
<td>LARC 7160</td>
<td>Field Ecology (Aug 27 – Sept 1)</td>
<td>3</td>
</tr>
<tr>
<td>LARC 7230</td>
<td>Landscape Professional Practice</td>
<td>3</td>
</tr>
<tr>
<td>LARC 7240</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>LARC 7250</td>
<td>Advanced LA Theory</td>
<td>3</td>
</tr>
<tr>
<td>LARC 7260</td>
<td>LA History since 1900 (08R)</td>
<td>3</td>
</tr>
<tr>
<td>LARC 7270</td>
<td>Landscape Construction</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>21</strong></td>
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
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<td>6</td>
</tr>
<tr>
<td>LARC 7200</td>
<td>Studio 5</td>
<td>6</td>
</tr>
<tr>
<td>LARC 7180</td>
<td>Studio 6 (Intersession)</td>
<td>6</td>
</tr>
<tr>
<td>LARC 7210</td>
<td>Studio 7</td>
<td>6</td>
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<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

Electives: 9

Students must choose one of the following:
- GRAD 7000 Thesis
- GRAD 7030 Practicum

TOTAL 54

Students entering the MLA program from the PM program will be required to take a minimum of one elective course plus Studio 3 to make up their 54 credit hour total.

Thesis / Practicum
The Thesis / Practicum is the final requirement after the successful completion of all courses. Students should read the Department of Landscape Architecture General Guidelines for Conducting a Thesis or Practicum (copy attached).

A required course in Research Methods is offered in the Winter Term of the M1 year. This is designed to help students to develop an acceptable Thesis / Practicum Research Proposal for presentation in April.
### Student Costs 2005-2006

**Master of Landscape Architecture Program**

Please be aware this is an *estimate* of costs over and above tuition cost. Please note some of the costs below are *optional* and students may find supplies at a lower cost.

<table>
<thead>
<tr>
<th></th>
<th>YEAR 1 PMQ</th>
<th>YEAR 2 M1</th>
<th>YEAR 3 M2</th>
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<tr>
<td>Program Start/End Dates</td>
<td>September to June</td>
<td>September to June</td>
<td>September to August</td>
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<tr>
<td>BOOKS</td>
<td>696</td>
<td>409</td>
<td>579</td>
</tr>
<tr>
<td>SUPPLIES (paper, drafting supplies, film, CD's printing, cartridge costs etc)</td>
<td>2893</td>
<td>1754</td>
<td>1754</td>
</tr>
<tr>
<td>INSTRUMENTS (SPECIFY)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Laptop computer</td>
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<td>*2000</td>
<td></td>
</tr>
<tr>
<td>Computer peripherals and supplies</td>
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<tr>
<td><strong>OPTIONAL FIELD TRIPS</strong></td>
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</tr>
<tr>
<td>Labash – optional trip</td>
<td>600</td>
<td>600</td>
<td></td>
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<tr>
<td><strong>OTHER</strong></td>
<td></td>
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<td></td>
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<tr>
<td>Foreign Studio – optional</td>
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<tr>
<td>Thesis/Practicum Printing</td>
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<td>725</td>
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</table>

Information on supplies and equipment specifications continue on the next page. *It is strongly recommended that students purchase a laptop computer.*

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5. Cost, Equipment & Supplies
PM Student Supplies:
PM students will require these supplies for their courses and studio work.

Supplies & Equipment
It is advisable to purchase your supplies before the first day of school. We will expect to set up our studio equipment the first day of Studio, Friday September 08. Students are encouraged to bring with them any art supplies, drafting supplies and general office supplies (i.e. staplers, hole punches, erasers, pens, pencils, cutting knife & blades) that you already own.

The bookstore has assembled a complete package of all the equipment and supplies that you will need to set up your studio. The list will be posted online August 15 and kits will be available for sale after August 15th. The bookstore is open until 7:00 PM on Thursday September 7th. Extra staff will be on hand to help you. We have consulted with the U of M Bookstore to ensure quality equipment at competitive prices for students of the Faculty of Architecture. The ED Studio One Kit costs approximately $580 dollars and represents a 42% discount from the list price on the items separately sold. There are some separate items that will be listed in the requirements but are not part of the kit. The “Pick-Up Items”, which are also discounted, must be purchased separately (from the kit). The cost of equipment and supplies (including the discounts) for the First Year Studio is approximately $900 dollars and does not include the cost of a camera, which many students may have already. Students should wait to make a decision on a camera, if they don’t already have one, until after they start their courses.

Drafting Equipment/supplies:

<table>
<thead>
<tr>
<th>Leads Lumograph 2H/tube 2</th>
<th>Watercolours—Grumbacher Academy Watercolours including:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set Square with ink riser 14” 30/60</td>
<td>Cadmium Yellow Medium A001</td>
</tr>
<tr>
<td>Template Metric Circles</td>
<td>Ultramarine Blue A219</td>
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<tr>
<td>Template Metric Odd Ellipse</td>
<td>Cadmium Red Medium A029</td>
</tr>
<tr>
<td>Dusting Brush</td>
<td>Lemon Yellow A118</td>
</tr>
<tr>
<td>Push Pins Clear Pkg 30</td>
<td>Yellow Ochre A 242</td>
</tr>
<tr>
<td>Scale Triangle 300mm Eng ISO</td>
<td>Hooker’s Green Deep Hue A106</td>
</tr>
<tr>
<td>Erasing Shield</td>
<td>Burnt Umber A024</td>
</tr>
<tr>
<td>Dry Cleaning Pad</td>
<td>Alizarin Crimson A001</td>
</tr>
<tr>
<td>Scale Triangle 12” Architecture 31</td>
<td>Burnt Sienna A023</td>
</tr>
<tr>
<td>Scale Triangle Metric</td>
<td>Cerulean</td>
</tr>
<tr>
<td>Lead Holder 2MM Mars Tech (qty 2)</td>
<td>Water Colour Block 15x20 Strathmore</td>
</tr>
<tr>
<td>Sharpener Double Hole Metal</td>
<td>Plastic Palette 11.5x15.2 Holbein</td>
</tr>
<tr>
<td>18”x24” newsprint pad</td>
<td>Cardboard Portfolio (Qty 2)</td>
</tr>
<tr>
<td>Staedtler Mars plastic eraser</td>
<td>Brush Watercolour Red Sable Rnd. #8</td>
</tr>
<tr>
<td>koh-i-noor 9600 ink eraser</td>
<td>Brush Watercolour Red Sable Rnd # 12</td>
</tr>
</tbody>
</table>

| Pencils Staedtler HB,B,2B,4B | U of M Sketchbook 9.5 x 12 |
| Kneadable Eraser | Glue Stick 21g |
| Lead Pointer | Graph Paper |
| French Curve 3Pc set | Fat Albert /6BLead |
| Prismacolor Pencils | Westcott Ruler 24” |
| Cutting Mat 12x18 | Westcott Ruler 6” |
| Small Olfa knife with snap off blades | V 5 Rollerball pen black |
| Large Olfa knife and extra blades | Sanford Sharpie |
| Trace Paper roll 12 x 50yd | 18” x 24” cartridge paper pad |
| Standard Knife 180 | 42” Parallel Rule*** |
| Blade AB-10B | Fold Back Clips 2” (Qty 2) |
| Quick Bow Compass w/extension | India Ink 30ml |
| Triangle Adjustable 10” | Pentel “Tradio” Pen and 1 refill |
| Charcoal and Conte sticks | Drafting Tape Pro Art 1” x 36 |
| Graphite stick | Drawing Board with clip |
Pick –Up Items

**Drawing board:** There are several options

1. Bring from home a 3/4" plywood board (good one side) 30” x 42"
2. Buy a 30” x 42” drafting board from a drafting supply store make sure it is not particle board.
3. Buy a 30” x 42” plywood board in the workshop when classes begin.
4. Buy a used board - check the bulletin boards in the faculty

**Vinyl Board Cover ("Borco")**

**Mayline 42" Parallel Rule -** check the faculty bulletin board for used

**Drafting lamp**

**Technical pen set (Disposable pens sizes .3,.5,.7)**

**Drafting stool (optional)**

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**Model Making Equipment/supplies:**

- glues – white
- cutting knife Heavy Duty Olfa or similar and a supply of cutting blades
- multi-bit screwdriver
- hammer
- metric and imperial tape measure
- small aluminum (model making size—not workshop size) mitre box and saw handle and blades to fit mitre box.
- soldering iron (pencil type – electrical) and non-lead solder
- any small handtools (saw (metal and wood), jigsaw, drill, needle nose pliers, wire cutters, staple gun etc.)
- Dremel Tool set (very helpful for model making)
- tool box (preferably one which is lockable) - to hold all these items
- First Aid Kit Small basic kit
- Steel toed boots for admission to construction sites and the woodshop

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**Stationery And Art Equipment/ Supplies:**

- regular stapler
- hole punch (3 ring)
- paper clips
- cutting mat (self healing)
Camera
Photography is a standard method of recording information and documenting projects in the studio courses. There is a wide range of body/lenses options, brands and prices. In addition, you can use either a film or a digital camera. In all cases, your equipment must meet the minimum requirements below:

Film cameras
- camera body: 35mm single lens reflex (SLR) body. Please note: if your camera has automatic modes, it must also provide a full manual override mode to complete the course assignments.
- lens: a 28-200 zoom (28-105mm or 28-80mm zooms are acceptable) with integrated macro capability or, alternately, a regular zoom with a true 50mm macro lens.
- blue filter

Digital cameras
- camera body: – 4 megapixels minimum. Please note: your camera must have a full manual override mode. Also, most digital cameras have small, clumsy viewfinders which are inappropriate for effective photography. LCD panels are also unreliable. Your camera must have a quality viewfinder that shows most of the actual picture frame (typically 90-95% in a film camera). Other required features include: a cable-release contact or self-release timer, a tripod mount, an integrated flash or, better, a flash shoe.
- lens: 35-105mm optical zoom (3X) with macro capability. Cameras that allow you to attach a wide angle lens converter (i.e. a 28mm) are preferable.
- software to download, process, and print your pictures from a computer.

Optional accessories
- tripod and cable release
- lights: (2) 500 watt portable halogen lights and stands (i.e. Quality Craft Halogen Works Lights available in hardware stores).
- a grey card

Cameras can be purchased new, used (in camera stores, newspaper classifieds or on Internet auction sites), or rented from specialized stores. If you are uncertain about what to buy, or do not live in 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 or www.dpreview.com or call 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 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.

Computers on Campus - University of Manitoba Bookstore
Ask for Peter and identify yourself.

Digital Cameras and supplies
Photo Central
499 Notre Dame Avenue
Telephone: 774-4343
Contact: Glen Worke or Bill Bremner
Glen or Bill 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
Phone: 942-8335
410 Portage (Portage & Kennedy)
Phone: 942-3143
London Drugs

OR

Black’s Photography
Polo Park Shopping Mall ph. 783-5183
Portage Place Shopping Mall ph.956-0390
Other locations at Kildonan Place, Eaton Place, Grant Park and St. Vital Mall
Equipment purchased under this program is to be used solely by the student for their personal education. It provides no direct or indirect benefit to the University of Manitoba or the Faculty of Architecture.

All software required for the Environmental Design program will run on both Windows and Macintosh. The Interior Design (Masters) program requires Autodesk Revit, which is only available on Windows.

**Minimum System Specifications**

<table>
<thead>
<tr>
<th>Windows</th>
<th>Macintosh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows XP Home</td>
<td>Apple MacBook 13-Inch</td>
</tr>
<tr>
<td>1.83 GHz Intel Core Duo</td>
<td>1.83 GHz Intel Core Duo</td>
</tr>
<tr>
<td>13.3” Wide Display (1280x800)</td>
<td>13.3” Wide Display (1280x800)</td>
</tr>
<tr>
<td>DVD+/-RW, CD-RW</td>
<td>Superdrive (DVD+/-RW, CD-RW)</td>
</tr>
<tr>
<td>1024MB RAM</td>
<td>1024MB RAM</td>
</tr>
<tr>
<td>80GB Hard Drive</td>
<td>80GB Hard Drive</td>
</tr>
<tr>
<td>802.11g Wireless</td>
<td>AirPort Extreme (802.11g)</td>
</tr>
<tr>
<td>Gigabit Ethernet</td>
<td>Gigabit Ethernet</td>
</tr>
<tr>
<td>USB 2.0 (High Speed)</td>
<td>USB 2.0 (High Speed)</td>
</tr>
<tr>
<td>Firewire (IEEE 1394)</td>
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</tr>
</tbody>
</table>

(Ex. Acer Aspire 5670)

**Recommended System Specifications**

<table>
<thead>
<tr>
<th>Windows</th>
<th>Macintosh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows XP Pro</td>
<td>Apple MacBook Pro 15.4-Inch</td>
</tr>
<tr>
<td>2.16Ghz Intel Core Duo</td>
<td>2.16Ghz Intel Core Duo</td>
</tr>
<tr>
<td>15.4” Wide Display 1680x1050</td>
<td>15.4” Wide Display 1440x900</td>
</tr>
<tr>
<td>ATI Mobility Radeon OR</td>
<td>ATI Mobility Radeon X1600 256MB</td>
</tr>
<tr>
<td>NVIDIA GeForce Go w/256MB</td>
<td>Superdrive (DVD+/-RW, CD-RW)</td>
</tr>
<tr>
<td>DVD+/-RW Dual Layer, CD-RW</td>
<td>2048 MB RAM</td>
</tr>
<tr>
<td>2048 MB RAM</td>
<td>100 GB Hard Drive</td>
</tr>
<tr>
<td>100 GB Hard Drive</td>
<td>AirPort Extreme (802.11g)</td>
</tr>
<tr>
<td>802.11g Wireless</td>
<td>Gigabit Ethernet</td>
</tr>
<tr>
<td>USB 2.0 (High Speed)</td>
<td>USB 2.0 (High Speed)</td>
</tr>
<tr>
<td>Firewire (IEEE 1394)</td>
<td>Firewire (IEEE 1394)</td>
</tr>
</tbody>
</table>

(Ex. Acer Travelmate 8200)

**Required Software:**

- Adobe Creative Suite (CS2)
- Microsoft Office
- Form-Z*

*Form-Z is a yearly lease. For details, visit: http://www.arch.umanitoba.ca/services/formz.html

**Recommended Software:**

- Vectorworks or AutoCAD*

*Note: AutoCAD is only available for Windows

If you require additional information please contact CADLab at 204-474-7482 or e-mail cadlab@arch.umanitoba.ca
Web Site
Students should review the Department of Landscape Architecture Web site for information on the research interests and projects of members of department faculty: http://umanitoba.ca/faculties/architecture/site/landscape.php

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