



March 8, 2013

To: Vancouver Senate

From: Senate Curriculum & Admissions Committees

Re: **New Degree Program Proposal for a Master of Urban Design**

The Senate Curriculum and Admissions Committees have reviewed the material forwarded to them by the Faculty of Graduate Studies (Faculty of Applied Science) and are pleased to recommend the following:

“That Senate approve the new Master of Urban Design, and its associated courses and new course code UDES.”

Respectfully Submitted,

Dr. Robert Sparks, Chair, Senate Admissions Committee
Dr. Peter Marshall, Chair, Senate Curriculum Committee

The University of British Columbia
School of Architecture and Landscape Architecture

New Professional Program Proposal

Master of Urban Design

MUD

February 4, 2013

Senate Sub-Committee Graduate Curriculum
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1. EXECUTIVE SUMMARY

Title: Master of Urban Design (Abbreviation: MUD)

Faculty: Faculty of Applied Science (APSC)
Faculty of Graduate Studies (FoGS)

School: School of Architecture and Landscape Architecture (SALA)

Location: The University of British Columbia (UBC), Point Grey Campus

Start Date: September 2014

1.1. Program Description and Overview

The new Master of Urban Design (MUD) aims to be *the* urban design program recognized internationally for excellence in urban design innovation and sustainability. It is administered by SALA within the Faculty of Applied Science. The MUD program targets individuals with professional practice experience as architects, landscape architects or planners who wish to develop critical skills in urban design.

1.2. Objectives

- Equip tomorrow's urban design leaders with the critical thinking and practical skills necessary to make positive and meaningful contributions to the creation of cities of the future.
- Capitalize on the Vancouver region's reputation as an international leader in urban sustainability and urban design by providing a unique and rich learning laboratory for post-professional students from British Columbia, other Canadian provinces and abroad.
- Link the research foci of SALA to the concerns of extra-university partners by offering students a distinctive, project-based curriculum that explores cutting edge urban design concepts in collaboration with stakeholders in the Vancouver region and beyond.
- Foster and enhance the shared teaching and learning experiences among faculty and students from the architecture, landscape architecture and related disciplines, such as planning and civil engineering, by drawing upon the expertise and reputation of the SALA faculty and associated faculty within the Faculty of Applied Science.
- Emerge as a magnet to attract the world's top urban design students and thinkers to engage in a critical discourse on the Vancouver region that spawns new strategies for international dissemination.
- Continue to develop a high profile faculty with international expertise in the theory and practice of urban design.

1.3. Contribution to UBC Mandate and Strategic Plan

Central to the UBC mission is the advancement of a civil and sustainable society. With its emphasis on social, economic and environmental issues, this principle lies at the core of the MUD program's mandate. The MUD program supports the university's aim to foster global citizenship by attracting the best and brightest post-professional students. It offers students the opportunity to work with renowned teachers, practitioners and researchers addressing diverse and emergent forms of urbanism and sustainability.

1.4. Delivery Methods

The MUD program requires students to complete 36 credits over twelve months as follows: 27 credits of required graduate courses and 9 credits of approved elective courses, including a 3-credit history-theory elective. The MUD core courses are a combination of both community-based studio courses and theoretical and practice-skills courses. Each semester the core courses are interwoven and delivered in parallel so that students can continually synthesize material. In the terminal summer term, students complete a graduating design project.

1.5. Links Between Learning Outcomes and the Curriculum Design

Pedagogical Strategy

Studio courses are design-focused variants on the "problem-based learning" model. As such, students are required to take an active role in defining the problem to be attacked, the methodologies to be deployed and the knowledge base required to arrive at an appropriate solution. Foundational theory is supplied through lectures and required readings; however, the appropriate knowledge base and the correlating design solution are arrived at collectively. In this model, the course instructor often acts as both facilitator and enabler.

In the project-based components of the core courses, the role of University/Community partnerships is also central. The policy framework, the cultural informants and the technical requirements for any project are derived from the problem at hand, as are the methodologies and knowledge base inherent to the problem.

The University/Community partnership feature of the MUD program presumes that projects may endure for more than one studio term, and in some cases for more than one year. Students who participate in multi-year projects by necessity adopt and adapt methods and partial design solutions from previous studios and/or those already adopted as planning/urban design policy by partner entities.

To maintain a robust commitment to the program's learning objectives, elective courses are carefully selected to enhance student learning about urban design and related topics.

1.6. Program Strengths

UBC's commitment to sustainability and a focus on regenerative, ecological and sustainable urbanism distinguishes the MUD from other urban design programs. Prospective students are

attracted to the program's ability to harness the Vancouver region as a living and working laboratory. Faculty members provide consistency through the core curriculum and are complimented by the expertise of prestigious local and international urban design professionals and affiliated faculty. The MUD program is delivered as an intensive one-year program. This format is favorable to post-professional students already in the workplace.

1.7. Policies on Program Assessment

No formal organization now exists to evaluate academic urban design programs. In parallel to internal reviews used to evaluate professional degrees conducted according to the SALA, Faculty of Applied Science and UBC governance guidelines, the MUD program is evaluated and developed based on the recommendations of the SALA Advisory Committee. This expert panel of outside professionals and academics meets three times a year.

1.8. Level of Support and Recognition from Other Post-secondary Institutions

Given the strong reputations of each of the core programs (Architecture and Landscape Architecture), there is reason to anticipate a high level of support and recognition for the MUD program.

1.9. Demand for the Program

Demand for urban design graduates is growing internationally. In the United States, graduate-level urban design education is strong and offered by a number of leading universities. Although graduate-level urban design education exists in Eastern Canada, currently there are no urban design degree programs offered in Western Canada.

1.10. Related programs at UBC or other BC Post-secondary Institutions

1.10.1. The University of British Columbia

The MUD program is born from the discussions between architecture, landscape architecture and their allied programs.

1.10.2. Other British Columbia universities

No universities in British Columbia offer a dedicated Master of Urban Design program. The only dedicated urban design program available is a mid-career, certificate program offered by the City Program at SFU.

1.11. Contact Person(s)

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1.12. Program Resources (for internal UBC purposes only)

1.12.1. Program Budget – removed for curriculum review

The MUD degree is revenue generating or revenue neutral, with all resources required for the program paid from program tuition.

1.12.2. Space

The MUD program requires design studio facilities for 24 students, a dedicated seminar/review/team workroom, a computer/printing/production room and office space for academic and administrative hires. The total estimated need is 239 square meters (2,573 sq. ft.) This space is carved from existing SALA space. There is a need for internal adjustments within SALA until such time as the new SALA/SCARP building is built. At that time, we anticipate a prominent position for MUD students within the new facility, along with the existing SALA and SCARP programs.

1.12.3 Library

The MUD program does not necessitate a major commitment to new acquisitions, as key urban design journals and a considerable collection of urban design books are available in the Art + Architecture + Planning library in the I.K. Barber Learning Centre.

2. PROGRAM RATIONALE

2.1. Background

Since 2008, the School of Architecture and Landscape Architecture (SALA) has been engaged in an initiative to first frame, and then elaborate, the potential for urban design education at The University of British Columbia (UBC). This discussion has highlighted multiple research interests and numerous teaching synergies within SALA and between SALA and other allied programs. This robust exchange has resulted in this proposal for a new post-professional Master of Urban Design (MUD) program to be located academically within the Faculty of Applied Science (APSC) and administered by SALA.

2.1.1. Defining Urban Design

Urban design, the artful and purposeful shaping of cities and their parts, is both a product and a process. Over the past fifty years, urban design as an academic discipline and profession has matured and evolved radically. Initially a sub-focus of architecture, landscape architecture and planning, it is now widely recognized as an important independent discipline that binds the three traditional disciplines together through the process of city building. Evolving in response to increasingly complex demands for expertise in the accommodation of growth in challenging geographical contexts, urban design has developed a strong theoretical foundation and gained mainstream acceptance in practice.

At once a field of public policy, professional practice and academic enquiry, urban design integrates many related but diverse types of disciplinary knowledge, theory, method and skill spanning the social sciences, applied sciences, humanities and arts. Urban design draws from history, sociology, psychology, economics, public policy, geography, architecture, landscape architecture, planning and civil engineering, among others.

2.2. Program Objectives

2.2.1. Mission

The new MUD program aims to be *the* urban design program nationally and internationally recognized for excellence in urban design innovation and sustainability.

2.2.2. Objectives

- Equip tomorrow's urban design leaders with the critical thinking and practical skills necessary to make positive and meaningful contributions to the creation of cities of the future.
- Capitalize on the Vancouver region's reputation as an international leader in urban sustainability and urban design by providing a unique and rich learning laboratory for post-professional students from British Columbia, other Canadian provinces and abroad.
- Link the research foci of SALA to the concerns of extra-university partners by offering students a distinctive, project-based curriculum that explores cutting edge urban design concepts in collaboration with stakeholders in the Vancouver region and beyond.
- Foster and enhance the shared teaching and learning experiences among faculty and students from the architecture, landscape architecture and related disciplines, such as planning and civil engineering, by drawing upon the expertise and reputation of the SALA faculty and associated faculty within the Faculty of Applied Science.
- Emerge as a magnet to attract the world's top urban design students and thinkers to engage in a critical discourse on the Vancouver region that spawns new strategies for international dissemination.
- Continue to develop a high profile faculty with international expertise in the theory and practice of urban design.

2.3. Contribution to UBC Mandate and Strategic Plan

The advancement of a civil and sustainable society is central to the UBC mission. With its emphasis on social, economic and environmental issues, this principle lies at the very core of the new MUD program's mandate. The MUD program supports the university's aim to foster global citizenship by attracting the best and brightest post-professional students from around the world to study in the Vancouver region laboratory. It offers students the opportunity to work with renowned teachers, practitioners and researchers addressing diverse and emergent forms of urbanism and sustainability.

The MUD program addresses many of the goals outlined in *Place and Promise: The UBC Plan*:

Student Learning

- *Enhance the quality and impact of teaching for all students.*

The MUD program offers an innovative curriculum that draws upon the expertise of faculty in SALA, as well as cutting edge, urban design professionals throughout our region. The MUD program synthesizes theory and practice through a challenging, project-based learning experience that both addresses and tests real-world problems with communities.

Innovation Excellence

- *Increase the quality and impact of UBC's research and scholarship.*

The MUD program brings the most current thinking in urban design locally and from around the world to a program which innovates by bringing together architecture and landscape architecture with their allied disciplines. The aim of this program is to foster and test urban design theories in multiple places and cultures. One of the intended outcomes is to produce cutting edge practitioners who are in demand around the globe.

The program aims to be a catalyst for interdisciplinary innovation in urban design and a forum for examining sustainable urbanism in its broadest sense. As part of this objective, SALA intends to attract a new full time faculty member and adjuncts with stellar scholarly and professional records and exemplary teaching credentials. The already impressive record of research on urban design related topics at SALA is exploited to attract top, post-professional graduate students. Ultimately, the program stimulates pioneering design scholarship that is in demand around the globe.

Community Engagement

- *Dedicate University resources to public understanding of societal issues and stimulate action for positive change.*
- *Be a leader in fostering student, faculty, staff and alumni engagement within the wider community.*

Engaging with community stakeholders on ideas for change in the built environment is one of the key objectives of the MUD program's teaching and learning agenda. With a curriculum grounded in collaborative community projects, a reciprocal and experiential learning environment is created between students and community stakeholders, both in the Vancouver region and beyond. This critical founding concept for the new program builds upon an impressive lineage of courses already offered at SALA that are grounded in community service learning and community-based projects.

Intercultural Understanding

- *Increase awareness and experience of the benefits of intercultural learning.*

The MUD degree is marketed as a post-professional program for architects, landscape architects and planners. One of main objectives of the program is as a magnet for professionals from all over the world. MUD Students benefit not only from the teaching and research excellence of SALA, but also from the diverse cultural and professional experiences of their peers.

Outstanding Work Environment

- *Be the place of choice for outstanding faculty and staff.*

The MUD program potentially attracts the very best faculty and staff. UBC and the Vancouver region provide a healthy academic environment for inquisitive scholars who wish to critically engage with a community of leading researchers studying the most critical aspects of urbanism.

Sustainability

- *Make UBC a living laboratory in environmental sustainability by combining its sustainability leadership in teaching, research and operations.*

The MUD program makes a lasting and significant contribution to UBC's sustainability goals. Like the university itself, the core mission of the program is conceptualized through a sustainability lens. SALA envisages the MUD program as a place of critical and thought-provoking enquiry about environmental sustainability and as an incubator for the next generation of leaders in sustainable urbanism and city building.

2.4. Relationship to Established Programs

2.4.1. The University of British Columbia

One of the primary objectives of the MUD program is to “foster and enhance the shared teaching and learning experiences among faculty and students” (Objective 4). The teaching synergies are primarily forged through existing relationships with programs already offered in SALA. Where appropriate to further enhance the MUD program, additional relationships are formed with programs in other faculties and departments in the wider UBC community.

Bachelor of Environmental Design

The Bachelor of Environmental Design program (ENDS) offers a four-year, undergraduate honors degree (BENDS). It is intended as a preparatory degree for students interested in pursuing a professional graduate degree in architecture or landscape architecture, and for those who simply wish to gain a greater understanding of the role design plays in shaping the environment. Students studying in the BENDS program cannot apply directly to study in the MUD program; they must first complete a graduate-level professional program in architecture, landscape architecture or planning. The presence of the MUD program in SALA gives ENDS students greater exposure to issues of sustainable urbanism.

Master of Architecture

The Master of Architecture (MArch) program offers a 3.5-year first professional degree accredited by the Canadian Architectural Certification Board (CACB <http://www.cacb-ccca.ca/>). The program endeavors to prepare students to be informed and active stakeholders in the built environment. The curriculum offers the requisite knowledge base and opportunities for direct engagement outside the academy. The MUD program shares some elective courses with the MArch program. Students who complete the MArch are eligible to apply for admission to MUD program.

Master of Advanced Studies in Architecture

The Master of Advanced Studies in Architecture (MASA) program offers students the opportunity to conduct advanced, independent research supervised by a faculty member with a closely aligned area of research. In accordance with MUD program Objectives 3. and 4., MASA and MUD students develop relationships where there are shared Teaching Assistant assignments and/or research interests.

Master of Landscape Architecture

The Master of Landscape Architecture (MLA) degree is a three-year, first professional degree designed to prepare individuals for practice in the profession. The program, accredited by the Canadian Society of Landscape Architects (CSLA <http://www.csla-aapc.ca/>), aims to cultivate enduring professional, environmental and aesthetic knowledge and values; intellectual, creative and technical skills; and the lifelong commitment to learning and leadership necessary to design sustainable, beautiful, resilient landscapes with the power to transform society. The MUD program shares some elective courses with the MLA program. Students who complete the MLA are eligible to apply for admission to the MUD program.

Master of Advanced Studies in Landscape Architecture

The Master of Advanced Studies in Landscape Architecture (MASLA) program offers students the opportunity to conduct advanced, independent research supervised by a faculty member in a closely aligned area of research. In accordance with MUD program Objectives 3. and 4., MASA and MUD students develop relationships where there are shared Teaching Assistant assignments and/or research interests.

PhD options in Architecture and Landscape Architecture

SALA does not directly offer PhD study options in the disciplines of Architecture or Landscape Architecture. However, students can undertake PhD work, either as an extension of the MASA or MASLA programs or from genesis, through UBC's Interdisciplinary Studies Graduate Program. In accordance with MUD program Objectives 3. and 4., MASA and MUD students develop relationships where there are shared Teaching Assistant assignments and/or research interests.

Other UBC Faculties and Programs

The MUD program serves to strengthen connections between SALA and other academic units at UBC with shared concerns about the design of cities and the impact of city building upon the economic, social and physical health of citizens. These faculties and departments include among others: the School of Community and Regional Planning, the Department of Civil Engineering, Faculty of Medicine, School of Nursing, Department of Geography, Department of Sociology and the Sauder School of Business.

2.4.2. Other British Columbia Universities

UBC is the only university in British Columbia to offer a dedicated Master of Urban Design program and accredited professional programs in architecture and landscape architecture. Simon Fraser University (SFU) offers a graduate program in planning, however it focuses on rural planning and resource management. The SFU program does not offer a dedicated *urban* design curriculum at the graduate level. The University of Northern British Columbia (UNBC) offers an

undergraduate program in planning which focuses on planning issues in small communities and in the North, but they do not offer a graduate planning program.

Urban Design Certificate Program : Simon Fraser University

The only dedicated urban design program available to students of any academic level in British Columbia is a mid-career, certificate program in urban design offered by the City Program at SFU. This is a part-time course of study that has some curricular overlap with the new MUD program. However, the program's course offerings do not include intensive semester-long design studios, a key component of the MUD curriculum that allows students to undertake applied learning executed in the form of a design proposal. As this is a continuing studies certificate program, the credits are not transferable to a degree program. Although the certificate program does not provide the same breadth of curriculum or intensity of teaching as the proposed MUD program, there may be opportunities for collaboration.

2.4.3. Other Canadian Institutions

Two Canadian universities, the University of Toronto and McGill University, currently offer dedicated graduate-level programs in urban design. Both universities offer two programs, both provide cross-disciplinary teaching by planning and architecture faculty, and both engage professional practice instructors.

Master of Urban Design (MUD) : John H. Daniels Faculty of Architecture, Landscape and Design,
The University of Toronto

The Master of Urban Design (MUD) program at the University of Toronto's Daniels School is a two-year, post-professional commitment available for students holding a professional undergraduate or graduate degree in architecture or landscape architecture. The mission of the program is to prepare architects and landscape architects for design-based research and professional practice at the urban and regional scales.

Master of Urban Design Studies (MUDS) : Department of Geography and Program in Planning,
The University of Toronto

The Master of Urban Design Studies (MUDS) program at the University of Toronto's Department of Geography and Program in Planning is a one-year, graduate-level program available for students from a broad range of disciplines. The admission criteria make the MUDS program distinct from the MUD program offered at the Daniel's School, which requires prior design expertise.

Master of Architecture (Urban Design and Housing) : School of Architecture, McGill University

The Master of Architecture (Urban Design and Housing) (MArch) program at McGill University's School of Architecture is a one-year, post-professional, graduate-level program. It offers a traditional urban design education and is open to students with a professional degree in architecture; applicants with a degree in a related field are considered in special cases.

Master of Urban Planning (Urban Design) : School of Architecture, McGill University

The Master of Urban Planning (Urban Design) (MUP) concentration at McGill University's School of Architecture is a two-year program open to students that are registered in the school's Master of Urban Planning program. It becomes a dedicated urban design program after the first year. Students entering the urban design concentration must hold an undergraduate or graduate degree in architecture, landscape architecture, environmental design, urban planning or a related field. Students must also demonstrate proficiency and interest in an area of specialization.

2.4.4. Level of support and recognition from other post-secondary institutions

Given the strong reputations of each of the core participating programs (Architecture and Landscape Architecture), there is reason to anticipate a high level of support and recognition for the MUD program.

2.5. Demand for Program

The demand for post-professional urban design graduates is growing internationally and urban design is surging as an academic discipline. In Canada, graduate level urban design education is well represented in Ontario and Quebec by the four programs at the University of Toronto and McGill University. In the United States, graduate level urban design education is also strong and offered by a number of leading universities including (but not limited to): the Graduate School of Design at Harvard University; the Graduate School of Architecture, Planning and Preservation at Columbia University; and the College of Environmental Design at the University of California, Berkeley. The demand for graduate urban design education has yet to be fully exploited in Canada, especially in the Western provinces.

Furthermore, several academic journals that offer an exclusive urban design focus were founded in the past twenty years including the *Journal of Urban Design*¹ and *Urban Design International* in 1996, and most recently, the *Journal of Urbanism* in 2008. These journals have significantly increased the prominence of urban design in the academy. Indeed, the *International Bibliography of the Social Science* recorded that prior to 1990 there were only 26 urban design-focused publications in academic journals. In 2006, this number had increased to 4072.

The combination of SALA's teaching and research focus on sustainability and UBC's location in a thriving metropolitan region renowned for its commitment to urban design and sustainable policymaking, makes the new MUD degree uniquely qualified to fill a niche in the market for the growing number of architects, landscape architects and planners keen to undertake post-professional, graduate-level study in urban design.

2.5.1. Enrolment Predictions and Capacity

Significant demand is anticipated for the MUD program. To maintain a vibrant learning environment and admit the best and brightest applicants, the cohort size is purposely limited. The

¹ Madanipour, A. (2006). Roles and Challenges of Urban Design. *Journal of Urban Design*, 11 (2), pp. 173-193.

program cohort begins with 12 new students in 2014-2015, increasing to 18 in 2015-2016 and reaching a steady state of 24 new students per year in 2016-2017.

2.5.2. Tuition Rationale – removed for curriculum review

2.5.3. Potential Sectors of Employment for Graduates

Urban design is emerging as a prominent component of local, regional and national urban policy agendas, especially as cities address the complexities of sustainable growth management. A growing preference for walkable communities, increased density and mixed-use development has increased the demand for qualified urban design professionals the world over. Many sectors of government, especially at the municipal and regional levels, now employ urban designers as key members of their urban policymaking teams. Private practice has also experienced a significant growth in firms that practice urban design exclusively and an increasing number of traditional architecture, landscape architecture and planning practices offering urban design consultation as part of their wider design portfolio. Our program offers a *post professional* design focused degree in Urban Design. This program operates within the norm of this emerging discipline. Urban design degrees are typically, as in our case, offered only to students who already have a professionally accredited degree in either planning, architecture or landscape architecture. In this way our urban design degree does not compete with our own or other architecture, planning, or landscape architecture degrees, but rather compliments them.

Graduates of the MUD program are the urban design leaders of the future as academics, formidable senior public administrators and private practitioners who can offer innovative design solutions for the ecologically healthy, socially equitable and culturally robust growth of cities.

2.5.4. Opportunities for Further Study

The MUD program is well-suited for the post-professional market. It is predicted that a potentially significant proportion of graduating students will return to professional practice. However, MUD provides a robust foundation for continuing study. It is anticipated that a small number of students may continue on to PhD-level study at UBC or elsewhere.

3. PROGRAM DESCRIPTION AND SPECIFICATIONS

3.1. Admission Requirements

As a minimum standard, applicants to the post-professional MUD program must hold a professional degree in architecture, landscape architecture or planning. While it is expected that the majority of applicants applying to the program already have a graduate-level degree, it is also recognized that a proportion of applicants have achieved the minimum requirements through an accredited professional undergraduate program. In such cases, applicants are evaluated on a case-by-case basis. All applicants must meet the admission requirements of the [Faculty of Graduate Studies](#).

In addition to the minimum academic and professional qualifications required for admission to the MUD program, applicants are required to provide a portfolio that demonstrates their creative aptitude and ability to solve problems through design.

3.2. Curriculum

The core curriculum of the MUD program is grounded in the program's sustainability mandate and its commitment to applied learning through design-based projects. The MUD curriculum synthesizes urban design theory and practice. It provides a foundation in the seminal works of urban design theory and offers a myriad of opportunities to test and critique theory through community-based projects and design studios. The curriculum gives students the necessary space to think freely and openly about urban design problems and equips them with the skills essential for producing innovative and creative solutions. In parallel, the MUD curriculum exposes students to the realities of urban policymaking and property development, forcing them to address the challenges that impact the urban design process. This dynamic, yet structured, curriculum capitalizes on the Vancouver region's international reputation as a leader in sustainable urban design policymaking and implementation and offers a constructive forum for critical analysis, review and reflection.

3.2.1. Learning Outcomes

Students who complete the post-professional MUD program are able to:

- Think spatially and holistically about the design of neighbourhoods, cities and regions.
- Think critically about urban design theory and apply it to the process of city building.
- Analyze local conditions and contexts and adapt sustainable urban design solutions accordingly.
- Approach the design of cities imaginatively and creatively.
- Respond to local political, economic, and bureaucratic externalities effectively and innovatively.
- Collaborate with diverse communities and neighbourhoods.
- Exercise a wide range of communication skills, including graphic, written and verbal.
- Emerge as critical thinkers who can challenge the status quo and offer urban design solutions that bridge the theoretical and practical gaps between the disciplines of architecture, landscape architecture and planning.

3.2.2. Distinctive Characteristics

UBC's commitment to sustainability and focus on sustainable urbanism is shared by SALA and this distinguishes the MUD program from other urban design programs offered in Canada and abroad. Students in the MUD program harness the potential of the Vancouver region as a living and working laboratory. Full-time faculty provide consistency through the core curriculum; they are complemented by the expertise of prestigious local and international urban design professionals and affiliated faculty in the UBC community.

3.3. Program Requirements

The MUD program is delivered as an intensive one-year program. This condensed format is favorable to post-professional students already in the workplace. The MUD program requires students to complete 36 credits: 27 credits of required graduate courses, 6 credits of unrestricted electives and 3 credits of history-theory electives.

3.3.1. Delivery and Core Courses

The MUD core courses are a combination of both community-based studio courses and theoretical and practice-skills courses. The core courses are unique to the MUD program and are restricted to students enrolled in the program. To maintain a robust commitment to the program learning objectives, elective courses are carefully approved to enhance student learning about urban design and related topics. In the terminal summer term, students complete a studio project with a collaborative, community-based, team-learning component and a focused, issues-based, independent component.

3.3.2. Courses offered in the MUD Curriculum (New Courses)

A new course code of UDES is requested to differentiate core courses in MUD from core courses in SALA.

<i>MUD Studio Courses (Required Core)</i>	<i>Credits</i>	<i>Term</i>	<i>Instructor</i>
UDES 501: Design Studio: Ecological Regional Design	6	W1	MUD Chair + Adjunct or SALA faculty
UDES 502: Design Studio: Sustainable Neighbourhood Design	6	W2	MUD Assistant Professor + Adjunct or SALA faculty
UDES 503: Design Studio: The Urban Block Design	6	S	MUD Assistant Professor + Adjunct or SALA faculty
<i>MUD Lecture and Seminar Courses (Required Core)</i>			
UDES 504: History and Theory of Urban Design	3	W1	MUD Assistant Professor
UDES 505: Urban Design as Public Policy: Policymaking for a Sustainable Region	3	W1	Adjunct
UDES 506: Real Estate Economics: Development Feasibility and Financing	3	S	Adjunct
<i>Total Core Course Credits</i>	<i>27</i>		

History-Theory Elective Course	3		
Unrestricted Elective Courses	6		
<i>Program Total</i>	<i>36</i>		

3.3.3. Outline of Program for a Typical Student

The MUD program's emphasis on core courses means that each student cohort follows a consistent timetable. Students take three studio-based courses, each examining urban design at a different scale. Significant opportunities exist for faculty from SALA to take the lead in a particular studio. There are three opportunities for students to take electives, once in each term. An outline of the MUD program delivery and core courses for a typical student is shown below:

<i>Course</i>	<i>Credits</i>
<i>Winter Session – Term 1 (September – December)</i>	
UDES 501: Design Studio: Ecological Regional Design (CORE)	6
UDES 504: History and Theory of Urban Design (CORE)	3
Elective	3
<i>Winter Session – Term 2 (January – April)</i>	
UDES 502: Design Studio: Sustainable Neighbourhood Design (CORE)	6
UDES 505: Urban Design as Public Policy: Policymaking for a Sustainable Region (CORE)	3
Elective	3
<i>Summer Session – Term 1 (May – June)</i>	
UDES 503: Design Studio: The Urban Block Design (CORE)	6
UDES 506: Real Estate Economics: Development Feasibility and Financing (CORE)	3
Elective	3
TOTAL CREDITS	36

3.4 Supervision

Once admitted to the MUD program, the Chair works with each incoming student to find an appropriate advisor from within the SALA faculty. The selection of an advisor is based on the interests, goals and objectives of the student. Students are required to meet their advisor twice each semester. That said, much supervision is provided by MUD studio instructors who maintain day-to-day contact. This is particularly true during the final Design Studio (UDES 503).

3.5. Student Evaluation

SALA has decades of experience setting standards for evaluations. Studio work forms the core of our curriculum. Studio work is both individually tutored and tutored in problem-solving teams. Final grades are assessed based on clear criteria. Faculty collaboration to insure even-handed grading has always been a feature of studio evaluation. Coursework is evaluated through design reviews, written and graphic assignments and exams. Expectations of students are formalized in individual course syllabi.

3.6. Policies on Program Management and Assessment

No formal organization now exists to evaluate academic urban design programs. In parallel to internal reviews used to evaluate professional degrees conducted according to the SALA, Faculty of Applied Science and UBC governance guidelines, the MUD program is evaluated and developed based on the recommendations of the SALA Advisory Committee. This expert panel of outside professionals and academics meets three times a year.

4. CALENDAR STATEMENT - PROGRAM

Proposed Calendar Entry:

Degree Offered: MUD

Program Overview

The Master of Urban Design (MUD) program curriculum synthesizes urban design theory and practice. It provides a foundation in the seminal works of urban design theory and offers a myriad of opportunities to test and critique theory through community-based projects and design studios. Students have the necessary space to think freely and openly about urban design problems and become equipped with the skills essential for producing innovative and creative solutions. In parallel, students are exposed to the realities of urban policymaking and property development, forcing them to address the challenges that impact the urban design process. This dynamic, yet structured, curriculum capitalizes on the Vancouver region's international reputation as a leader in sustainable urban design policymaking and implementation, offering a constructive forum for critical analysis, review and reflection.

Admission Requirements

All applicants must meet the admission requirements of the [Faculty of Graduate Studies](#).

To be eligible for admission to the MUD program, students must hold a professional degree in architecture, landscape architecture or planning.

The minimum admission requirement for students with graduate-level degrees is an overall average of 76% (UBC-equivalency).

Applicants who do not meet the admissions minimum, but who have sufficient formal training and relevant professional experience to offset the academic deficiency, will be evaluated on a case-by-case basis.

Candidates are evaluated on the following components of the application: academic transcripts, statement of research interest, biographical statement, portfolio of professional or academic work, letters of reference, and an acceptable English test score where required. The portfolio must demonstrate the applicant's creative aptitude and ability to solve problems through design.

Transfer Credit

Courses taken as an Access Studies or non-degree student may be approved for transfer towards the MUD program with the permission of the program Chair and the Faculty of Graduate Studies.

Consistent with standard transfer credit regulations, students in the MUD program are limited to transferring a maximum of 9 credits towards the MUD program elective requirements. In order to be eligible for transfer, the course(s):

- must be completed with a minimum B standing (74% UBC-equivalency)
- must not have been counted toward the completion of another degree or program
- must have been completed no more than five years prior to the time the student commences the degree program
- must not be used as a basis for admission to the graduate program

Program Requirements

The MUD program requires completion of at least 36 credits: a minimum of 27 core course credits in the program area at the 500-level and 9 elective credits, 3 of which must be in history/theory.

A maximum of 6 credits of 500-level directed studies courses may be counted toward the program requirements.

Contact Information

MUD Program Office
404 - 6333 Memorial Road
Vancouver BC V6T 1Z2
Tel: 604.822.6404
Email: reception@sala.ubc.ca
Web: www.sala.ubc.ca
Hanne Bartlett, Manager

5. PROGRAM RESOURCES – *removed for curriculum review*

5.6. Contact Information

School of Architecture and Landscape Architecture, Faculty of Applied Science
Leslie Van Duzer (Professor and Director)
Tel: 604-822-8222 Email: lvanduzer@sala.ubc.ca

Faculty of Applied Science Dean's Office
Deborah Feduik (Manager, MEng & Graduate Programs)
Tel: 604-822-8386 Email: gradprog@apsc.ubc.ca

6. APPENDICES

APPENDIX 2: SALA Faculty

APPENDIX 3: UBC Curriculum – Calendar Excerpts, Supporting Materials for New Courses

APPENDIX 2: SALA FACULTY

Professors

Ray Cole

As Professor in the School of Architecture and Landscape Architecture, Dr. Cole has been teaching environmental issues in building design in the Architecture program for the past thirty years. He was co-founder of the Green Building Challenge - an international collaborative effort to benchmark progress in green building performance and environmental assessment - and has served on numerous national and international committees related to buildings and the environment.

Patrick Condon

Professor Patrick M. Condon has over 25 years of experience in sustainable urban design, first as a professional city planner and then as a teacher and researcher. He joined the University of British Columbia in 1992, acting first as the Director of the Landscape Architecture program and later as the James Taylor Chair in Landscape and Livable Environments. He is now senior researcher with the Design Centre for Sustainability at UBC, a sustainable urban design think tank that evolved from the original efforts of the Chair. In that capacity he has worked to advance sustainable urban design in scores of jurisdiction, both here in Canada and abroad.

Ronald Kellett

Ronald Kellett is a Professor of Landscape Architecture whose work has focused around issues of environmental quality and urban form and the development of form-based decision support tools for urban design. His research, consulting and writing has influenced patterns of urban growth and development in several Canadian and US cities and contributed to the adoption of 'green' urban design processes, plans, codes, standards, guidelines and prototypes. He is co-author (with Cynthia Girling) of the book *Skinny Streets & Green Neighbourhoods: Design for Environment and Community* (Island Press, 2005) and *elementsdb*, a web application of measured, case-based data for urban design. In 2010 he was appointed a University Sustainability Initiative Teaching and Learning Fellow and is a 2011 recipient of a UBC Killam Teaching Prize.

Stephen Sheppard

Dr. Stephen Sheppard teaches in sustainable landscape planning, aesthetics and visualization in the Landscape Architecture program and Department of Forest Resources Management at UBC. He directs the Collaborative for Advanced Landscape Planning (CALP), a research group using perception-testing and interactive 3D visualization tools to support public awareness-building, policy change and collaborative planning on climate change and sustainability issues. His recent research projects lie in visioning and communicating local climate change futures, public perceptions of sustainability, and ethical visualization techniques.

Associate Professors

John Bass

Professor John Bass's teaching and research address contested landscapes using visual tools that describe relationships between their physical and historical events, spatial and social practices, and political and economic structures. He is currently co-editing *The Chandigarh Catalogues*, a book that analyzes the evolving form of the city. He was a co-investigator with the Coastal Communities Project, a multi-disciplinary research initiative of UBC and partner communities along the Pacific coast of BC to map the physical changes of the settlement of Fort Rupert. Professor Bass is also the director of the Delta National Park project, a research and design project and blog dedicated to the Sacramento-San Joaquin River Delta area of California.

Sherry McKay

Dr. Sherry McKay contributes to the history and theory components of the MArch, MASA and ENDS programs. Her research emphasizes architectural history that is responsive to the complex contemporary entanglements of different, plural and contested, pasts and places. Dr. McKay's exploration has taken many forms, including research and preparation for exhibitions and publications, studies abroad and devising of representational venues.

Douglas Paterson

Professor Douglas Paterson is a former director of the Landscape Architecture Program at UBC. He is also past-president of the Canadian Society of Landscape Architects, a Fellow and past chair of the CSLA College of Fellows, and a past regional director of the North America Council of Educators in Landscape Architecture. He has served on the editorial advisory boards of *Landscape Architecture Magazine*, the *Journal of Landscape and Urban Planning*, and *Landscapes/Paysages*. Locally, he has served as a member of the Vancouver Urban Design Panel, a member and chair of the Vancouver Planning Commission and the citizen-at-large representative on the Hasting's Park Restoration Committee in Vancouver. He is currently a member of the national Vimy Memorial Restoration Advisory Committee.

Assistant Professors

Mari Fujita

Professor Mari Fujita is a designer and educator. Professor Fujita's research is focused on the spatial and cultural effects of globalism. Her design studios and seminars explore emergent forms of urbanism with a focus on Vancouver and other cities experiencing rapid growth. Her design practice, FUJITAWORK, pursues a diverse range of projects. Work to date includes projects that range from material studies to small-scale gallery installations, building designs and urban proposals.

Matthew Soules

Professor Matthew Soules is a licensed architect in Canada and the United States and is the director of Matthew Soules Architecture (MSA) Inc. (www.msaprojects.com) - the Vancouver based architecture, urban planning and research firm. His research interests include the intersection of ecology and design, the Metropolitan Project, and questions of architecture's relationship with popular culture and politics.

AnnaLisa Meyboom

Professor AnnaLisa Meyboom is an engineer and graduate architect. Her research and teaching focuses on the integration of engineering and architecture. Current research topics include public infrastructures and responsive environments. In all applications of engineering, the interaction with people and the integration of the engineering into the environment are becoming increasingly important. This can clearly be seen in the application of digital technologies including robotics and mechatronics to the field of architecture.

Adjunct Faculty

Larry Beasley

Larry Beasley is the retired Director of Planning for the City of Vancouver. He is now the “Distinguished Practice Professor of Planning” at the University of British Columbia and the founding principal of Beasley and Associates. He is also vice president for planning of Aquilini Development. Over thirty years of civic service, Mr. Beasley achieved land use and transportation plans along with careful development management that have dramatically reshaped Vancouver’s inner city. He also led the revitalization of neighbourhoods, a strong heritage preservation program, and the City’s urban design studio. He now teaches and advises the private sector and governments around the world. He chairs the National Advisory Committee on Planning, Design and Realty of Ottawa’s National Capital Commission; he is the Chief Advisor on Urban Design for the City of Dallas, Texas; and he is the Special Advisor on City Planning to the government of Abu Dhabi in the United Arab Emirates.

Ann McAfee

Dr. Ann McAfee is the former Co-Director of Planning, Director of City Plans and Senior Housing Planner for the City of Vancouver. She was responsible for Strategic Planning including guiding the extensive public process leading to adoption of "CityPlan" – Vancouver’s first city-wide plan since 1930. Dr. McAfee was also responsible for City input to regional planning; co-managing with Engineering and Finance city-wide plans for industry, transportation, financing growth, and sustainability; plans for sustainable suburbs; and Vancouver’s Business Improvement Program. She has also taught courses in planning, urban land economics, geography, and municipal management at UBC, Queens, Technical University Sydney, and Simon Fraser University.

Scot Hein

An architect who studied and worked in the US, Scot Hein moved to Vancouver in 1981. Hein is now head of the City of Vancouver’s Urban Design Studio, which holds a variety of design, advocacy, planning and management roles. Hein is proud of the design excellence in Olympic Village and the way the process fostered innovative thinking. Hein has taught urban design studios for SCARP and collaborated with SALA in combined studios.

**APPENDIX 3: UBC CURRICULUM – CALENDAR EXCERPTS, SUPPORTING
MATERIALS FOR NEW COURSES**

Category: 1 – New Course Code

<p>Faculty: Faculty of Applied Science (APSC)</p> <p>School: School of Architecture and Landscape Architecture (SALA)</p> <p>Faculty Approval Date: Sept. 18, 2012</p> <p>Effective Session: Winter, Term 1</p> <p>Year: 2014</p>	<p>Date: January 28, 2013</p> <p>Contact Person: Faculty of Applied Science Dean's Office Deborah Feduik (Manager, MEng & Graduate Programs) Tel: 604-822-8386 Email: gradprog@apsc.ubc.ca</p>
<p>CAT 1</p> <p>Proposed Calendar Entry:</p> <p>UDES</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=name</p> <p>Present Calendar Entry: None</p> <p>Type of Action: New Course Code</p> <p>Rationale: The new Master of Urban Design (MUD) program aims to be <i>the</i> urban design program recognized internationally for excellence in urban design innovation and sustainability. There are 27 credits of required core courses and 9 credits of elective courses to complete the program.</p> <p>A new course code of UDES is requested to differentiate the MUD core courses from others offered in SALA that are available to the students in existing degree programs.</p> <p>Document ID# Sep12-C-2 U/G: G</p>

Category: 1 – New Program Statement

<p>Faculty: Faculty of Applied Science (APSC)</p> <p>School: School of Architecture and Landscape Architecture (SALA)</p> <p>Faculty Approval Date: Sept. 18, 2012</p> <p>Effective Session: Winter, Term 1</p> <p>Year: 2014</p>	<p>Date: February 4, 2013</p> <p>Contact Person: Faculty of Applied Science Dean's Office Deborah Feduik (Manager, MEng & Graduate Programs) Tel: 604-822-8386 Email: gradprog@apsc.ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>Degree Offered: MUD</p> <p>Program Overview</p> <p>The Master of Urban Design (MUD) program curriculum synthesizes urban design theory and practice. It provides a foundation in the seminal works of urban design theory and offers a myriad of opportunities to test and critique theory through community-based projects and design studios. Students have the necessary space to think freely and openly about urban design problems and become equipped with the skills essential for producing innovative and creative solutions. In parallel, students are exposed to the realities of urban policymaking and property development, forcing them to address the challenges that impact the urban design process. This dynamic, yet structured, curriculum capitalizes on the Vancouver region's international reputation as a leader in sustainable urban design policymaking and implementation, offering a constructive forum for critical analysis, review and reflection.</p> <p>Admission Requirements</p> <p>All applicants must meet the admission requirements of the Faculty of Graduate Studies.</p>	<p>URL: Faculty of Graduate Studies section of the Academic Calendar</p> <p>Present Calendar Entry: None</p> <p>Type of Action: New Program</p> <p>Rationale: The new MUD program aims to be <i>the</i> urban design program recognized internationally for excellence in urban design innovation and sustainability.</p> <p>Urban design, the artful and purposeful shaping of cities and their parts, is both a product and a process. Over the past fifty years, urban design as an academic discipline and profession has matured and evolved radically. Initially a sub-focus of architecture, landscape architecture and planning, it is now widely recognized as an important independent discipline that binds the three traditional disciplines together through the process of city building. Evolving in response to increasingly complex demands for expertise in the accommodation of growth in challenging geographical contexts, urban design has developed a strong theoretical foundation and gained mainstream acceptance in practice.</p> <p>At once a field of public policy, professional</p>

<p>To be eligible for admission to the MUD program, students must hold a professional degree in architecture, landscape architecture or planning.</p> <p>The minimum admission requirement for students with graduate-level degrees is an overall average of 76% (UBC-equivalency).</p> <p>Applicants who do not meet the admissions minimum, but who have sufficient formal training and relevant professional experience to offset the academic deficiency, will be evaluated on a case-by-case basis.</p> <p>Candidates are evaluated on the following components of the application: academic transcripts, statement of research interest, biographical statement, portfolio of professional or academic work, letters of reference, and an acceptable English test score where required. The portfolio must demonstrate the applicant's creative aptitude and ability to solve problems through design.</p> <p>Transfer Credit</p> <p>Courses taken as an Access Studies or non-degree student may be approved for transfer towards the MUD program with the permission of the program Chair and the Faculty of Graduate Studies.</p> <p>Consistent with standard transfer credit regulations, students in the MUD program are limited to transferring a maximum of 9 credits towards the MUD program elective requirements. In order to be eligible for transfer, the course(s):</p> <ul style="list-style-type: none"> • must be completed with a minimum B standing (74% UBC-equivalency) • must not have been counted toward the completion of another degree or program 	<p>practice and academic enquiry, urban design integrates many related but diverse types of disciplinary knowledge, theory, method and skill spanning the social sciences, applied sciences, humanities and arts. Urban design draws from history, sociology, psychology, economics, public policy, geography, architecture, landscape architecture, planning and civil engineering, among others.</p> <p>X Not available for Cr/D/F grading. (Check the box if the course is NOT eligible for Cr/D/F grading. Note: Not applicable to graduate-level courses.)</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading (Check one of the above boxes if the course will be graded on a P/F or H/P/F basis. Default grading is percentage.)</p> <p>Document ID# Sep12-C-2 U/G: G</p> <p>The transfer credit is limited to the 9 credits of electives.</p> <p>No 300/400 level courses are permitted for the 9 credits of electives.</p>
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- must have been completed no more than five years prior to the time the student commences the degree program
- must not be used as a basis for admission to the graduate program

Program Requirements

The MUD program requires completion of at least 36 credits: a minimum of 27 core course credits in the program area at the 500-level and 9 elective credits, 3 of which must be in history/theory.

A maximum of 6 credits of 500-level directed studies courses may be counted toward the program requirements.

Contact Information

MUD Program Office
404 - 6333 Memorial Road
Vancouver BC V6T 1Z2
Tel: 604.822.6404
Email: reception@sala.ubc.ca
Web: www.sala.ubc.ca
Hanne Bartlett, Manager

Category: 2 - New Program – SALA listing

<p>Faculty: Faculty of Applied Science (APSC)</p> <p>School: School of Architecture and Landscape Architecture (SALA)</p> <p>Faculty Approval Date: Sept. 18, 2012</p> <p>Effective Session: Winter, Term 1</p> <p>Year: 2014</p>	<p>Date: January 10, 2013</p> <p>Contact Person: Faculty of Applied Science Dean's Office Deborah Feduik (Manager, MEng & Graduate Programs) Tel: 604-822-8386 Email: gradprog@apsc.ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>Master of Urban Design</p> <p>For information on the M.U.D. degree program, visit Master of Urban Design.</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,196,0,0</p> <p>Present Calendar Entry: None</p> <p>Type of Action: New Program listing under SALA.</p> <p>Rationale: The link in SALA goes to the Faculty of Graduate Studies Calendar listing so that there is only one program entry, with a pointer in the Calendar where students may otherwise look.</p> <p>Document ID# Sep12-C-3 U/G: G</p>

UDES 501 (6) Design Studio: Ecological Regional Design
Category: 1

<p>Faculty: Faculty of Applied Science (APSC)</p> <p>School: School of Architecture and Landscape Architecture (SALA)</p> <p>Faculty Approval Date: Sept. 18, 2012</p> <p>Effective Session: Winter, Term 1</p> <p>Year: 2014</p>	<p>Date: January 28, 2013</p> <p>Contact Person: Faculty of Applied Science Dean's Office Deborah Feduik (Manager, MEng & Graduate Programs) Tel: 604-822-8386 Email: gradprog@apsc.ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>UDES 501 (6) Design Studio: Ecological Regional Design <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=name</p> <p>Present Calendar Entry: None</p> <p>Type of Action: New Course</p> <p>Rationale: This course provides the regional frame for the finer scale problems to be explored in subsequent studios. This core course is included in the 27 credits of required core courses.</p> <p>Core Design Studio course.</p> <p>This course provides an interactive and experiential learning environment intended to animate and make accessible the issues pertaining to regional urban design with a particular emphasis on regional urban sustainability. Students have the opportunity to work with stakeholders on portions of multi-year partnership projects with regional impact.</p> <p>As a studio course, this course is a design-focused variant on the "problem-based learning" model.</p> <p>University/Community partnerships are maintained with partners operating in and out of government at the regional scale. Students participate in problem based learning/design</p>

	<p>studio settings, working both in teams and individually on studio projects. Students are required to successfully communicate, in text and in drawings, at the regional scale.</p> <p>Learning Outcomes</p> <p>At the end of this course students are able to:</p> <ul style="list-style-type: none"> ▪ Critically analyze regional scale urban and ecological systems. ▪ Investigate historical, social and ecological antecedents. ▪ Apply urban design theory to transportation, housing, employment, natural systems preservation, public recreation and other issues. ▪ Understand regional natural and cultural systems, and how they work together. ▪ Work collaboratively on complex regional scale issues. ▪ Know how to write coherently on the broad issue of sustainable community design. <p>X Not available for Cr/D/F grading. (Check the box if the course is NOT eligible for Cr/D/F grading. Note: Not applicable to graduate-level courses.)</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading (Check one of the above boxes if the course will be graded on a P/F or H/P/F basis. Default grading is percentage.)</p> <p>Document ID# Sep12-O-1 U/G: G</p>
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UDES 502 (6) Design Studio: Sustainable Neighbourhood Design

Category: 1

<p>Faculty: Faculty of Applied Science (APSC)</p> <p>School: School of Architecture and Landscape Architecture (SALA)</p> <p>Faculty Approval Date: Sept. 18, 2012</p> <p>Effective Session: Winter, Term 1</p> <p>Year: 2014</p>	<p>Date: January 28, 2013</p> <p>Contact Person: Faculty of Applied Science Dean's Office Deborah Feduik (Manager, MEng & Graduate Programs) Tel: 604-822-8386 Email: gradprog@apsc.ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>UDES 502 (6) Design Studio: Sustainable Neighbourhood Design <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=name</p> <p>Present Calendar Entry: None</p> <p>Type of Action: New Course</p> <p>Rationale: The new MUD program aims to be <i>the</i> urban design program recognized internationally for excellence in urban design innovation and sustainability.</p> <p>This core course is included in the 27 credits of required core courses.</p> <p>Core Design Studio course.</p> <p>This course provides an interactive and experiential learning environment intended to animate and make accessible the issues pertaining to neighbourhood and district scale urban design with a particular emphasis on sustainability of natural systems. Students have the opportunity to work with stakeholders on portions of multi-year partnership projects with municipal and resident representatives.</p> <p>The Pedagogy is a problem-based learning/design studio format with students working in teams and individually on applied</p>

	<p>issues at the scale of the neighbourhood. Community partners are a feature of this course and integral to learning outcomes expected. Required readings and lectures are tailored to current problems.</p> <p>Learning outcomes include an ability to:</p> <ul style="list-style-type: none"> ▪ Critically analyze neighbourhood-scale systems of block, network, parcel, and building typologies. ▪ Understand the interaction of these component systems on the places that exist and the places that could exist. ▪ Investigate the historical, social and ecological antecedents leading up to an understanding of how the urban landscape evolved. ▪ Apply urban design theory and practice to neighbourhood and district scale issues, including but not be limited to: movement, housing, job sites, green infrastructure, recreational opportunities, sense of place. <p>Students participate in studio sessions, work collaboratively and independently, communicate orally and with drawings, and apply urban design theory to produce comprehensive and practical design solutions.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading. (Check the box if the course is NOT eligible for Cr/D/F grading. Note: Not applicable to graduate-level courses.)</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading (Check one of the above boxes if the course will be graded on a P/F or H/P/F basis. Default grading is percentage.)</p> <p>Document ID# Sep12--O2 U/G: G</p>
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UDES 503 (6) Design Studio: The Urban Block Design
Category: 1

<p>Faculty: Faculty of Applied Science (APSC)</p> <p>School: School of Architecture and Landscape Architecture (SALA)</p> <p>Faculty Approval Date: Sept. 18, 2012</p> <p>Effective Session: Winter, Term 1</p> <p>Year: 2014</p>	<p>Date: January 28, 2013</p> <p>Contact Person: Faculty of Applied Science Dean's Office Deborah Feduik (Manager, MEng & Graduate Programs) Tel: 604-822-8386 Email: gradprog@apsc.ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>UDES 503 (6) Design Studio: The Urban Block Design <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=name</p> <p>Present Calendar Entry: None</p> <p>Type of Action: New Course</p> <p>Rationale: This course provides an interactive and experiential learning environment intended to animate and make accessible the issues pertaining to the block scale urban design, with a particular emphasis on building and district energy use, livability, and affordability. Students have the opportunity to work with stakeholders on portions of multiyear partnership projects with municipal and resident representatives on walkable area/block scale issues, issues that connect to district and municipal scale imperatives.</p> <p>This core course is included in the 27 credits of required core courses.</p> <p>Core Design Studio course.</p> <p>As a studio course, this course is a design focused variant on the "problem based learning" model. As such, students are required to take an active role in defining the problem to be attacked, the methodologies to be deployed, and the knowledge base required</p>

	<p>to arrive at an appropriate solution. Community partnerships are a fundamental part of the pedagogy.</p> <p>By course end students are able to:</p> <ul style="list-style-type: none"> ▪ Critically analyze neighbourhood-scale systems of block, network, parcel, and building typologies. ▪ Understand the interaction of these component systems ▪ Investigate historical, social and ecological antecedents informing urban design at this scale. ▪ Apply urban design theory and practice to the block and parcel scale issues. ▪ Display an ability to independently conceptualize and represent a viable, practical, and evocative urban design proposal, fully rendered and described. <p>Students participate in problem based studio classroom settings, participating in team and individual projects. Students successfully communicate orally, in text, and in visual representations. Students are required to demonstrate capability to synthesize design theory and case study information at the block scale.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading. (Check the box if the course is NOT eligible for Cr/D/F grading. Note: Not applicable to graduate-level courses.)</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading (Check one of the above boxes if the course will be graded on a P/F or H/P/F basis. Default grading is percentage.)</p> <p>Document ID# Sep12--O3 U/G: G</p>
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UDES 504 (3) History and Theory of Urban Design
Category: 1

<p>Faculty: Faculty of Applied Science (APSC)</p> <p>School: School of Architecture and Landscape Architecture (SALA)</p> <p>Faculty Approval Date: Sept. 18, 2012</p> <p>Effective Session: Winter, Term 1</p> <p>Year: 2014</p>	<p>Date: January 28, 2013</p> <p>Contact Person: Faculty of Applied Science Dean's Office Deborah Feduik (Manager, MEng & Graduate Programs) Tel: 604-822-8386 Email: gradprog@apsc.ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>UDES 504 (3) History and Theory of Urban Design <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=name</p> <p>Present Calendar Entry: None</p> <p>Type of Action: New Course</p> <p>Rationale: The new MUD program aims to be <i>the</i> urban design program recognized internationally for excellence in urban design innovation and sustainability.</p> <p>This core course is included in the 27 credits of required core courses.</p> <p>Core course.</p> <p>This course provides an interactive and experiential learning environment intended to animate and make accessible the major threads in the history and theory of urban design. Students practice interpreting the built environment in a number of international cities using theoretical and historical lenses collaboratively developed with fellow students. This is a seminar and lecture style course in which students refine their capacity for informed and engaging discourse on historically grounded and theoretically analyzed contemporary urban design projects. Students explore multiple opportunities to improve their verbal and written</p>

	<p>communication.</p> <p>This course is a "support course" for the studio classes. Studio classes reside at the intellectual centre of the program. Studio classes are by definition and design a variant of the problem based learning model of pedagogy. As such support courses, which run parallel with studio courses, are custom designed to provide critical insights, not just to static theories of urban design, but also theories relevant to course work occurring in studio. Lectures provide a consistent framework in theory, while seminar sessions are tailored to align with studio work.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading. (Check the box if the course is NOT eligible for Cr/D/F grading. Note: Not applicable to graduate-level courses.)</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading (Check one of the above boxes if the course will be graded on a P/F or H/P/F basis. Default grading is percentage.)</p> <p>Document ID# Sep12--O4 U/G: G</p>
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UDES 505 (3) Urban Design as Public Policy: Policymaking for a Sustainable Region
Category: 1

<p>Faculty: Faculty of Applied Science (APSC)</p> <p>School: School of Architecture and Landscape Architecture (SALA)</p> <p>Faculty Approval Date: Sept. 18, 2012</p> <p>Effective Session: Winter, Term 1</p> <p>Year: 2014</p>	<p>Date: January 28, 2013</p> <p>Contact Person: Faculty of Applied Science Dean's Office Deborah Feduik (Manager, MEng & Graduate Programs) Tel: 604-822-8386 Email: gradprog@apsc.ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>UDES 505 (3) Urban Design as Public Policy: Policymaking for a Sustainable Region <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=name</p> <p>Present Calendar Entry: None</p> <p>Type of Action: New Course</p> <p>Rationale: The new MUD program aims to be <i>the</i> urban design program recognized internationally for excellence in urban design innovation and sustainability.</p> <p>This core course is included in the 27 credits of required core courses.</p> <p>Core course.</p> <p>Public policy is the most crucial instrument of urban design, yet this fact is seldom recognized. This seminar and project class explores this relationship, examining the relationship between public policy and urban form. Students have the opportunity to exchange with experts from the region and beyond about this poorly understood issue, and explore opportunities to use policy tools as a means to more effective urban design ends.</p> <p>This course is a "support course" for the studio classes. Studio classes reside at the</p>

	<p>intellectual centre of the program. Studio classes are by definition and design a variant of the problem based learning model of pedagogy. As such support courses, which run parallel with studio courses, are custom designed to provide critical insights, not just to static theories of urban design, but also theories relevant to course work occurring in studio. Lectures provide a consistent framework in theory, while seminar sessions are tailored to align with studio work.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading. (Check the box if the course is NOT eligible for Cr/D/F grading. Note: Not applicable to graduate-level courses.)</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading (Check one of the above boxes if the course will be graded on a P/F or H/P/F basis. Default grading is percentage.)</p> <p>Document ID# Sep-O-5 U/G: G</p>
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UDES 506 (3) Real Estate Economics: Development Feasibility and Financing
Category: 1

<p>Faculty: Faculty of Applied Science (APSC)</p> <p>School: School of Architecture and Landscape Architecture (SALA)</p> <p>Faculty Approval Date: Sept. 18, 2012</p> <p>Effective Session: Winter, Term 1</p> <p>Year: 2014</p>	<p>Date: January 28, 2013</p> <p>Contact Person: Faculty of Applied Science Dean's Office Deborah Feduik (Manager, MEng & Graduate Programs) Tel: 604-822-8386 Email: gradprog@apsc.ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>UDES 506 (3) Real Estate Economics: Development Feasibility and Financing <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=name</p> <p>Present Calendar Entry: None</p> <p>Type of Action: New Course</p> <p>Rationale: The new MUD program aims to be <i>the</i> urban design program recognized internationally for excellence in urban design innovation and sustainability.</p> <p>This core course is included in the 27 credits of required core courses.</p> <p>Core course.</p> <p>Real estate economics is a crucial aspect of successful urban design, yet this fact is seldom recognized. This lecture/seminar and project course explores this relationship, examining the relationship between current and historical real estate economics and urban form. Students have the opportunity to exchange with experts from the region and beyond about this poorly understood issue, and explore opportunities to use real estate development models as a means to more effective urban design ends.</p> <p>This course provides a thorough introduction</p>

	<p>to financial analysis and market analysis for urban development projects and for applications in urban/regional planning. There is an emphasis on quantitative analysis of the market forces that shape the growth and development of urban areas and that determine the potential for, and viability of, new urban design/development projects. The course examines the application of financial analysis to understanding the impacts of development levies, density bonusing, and community amenity contributions. The course also teaches tools for forecasting and analyzing urban development patterns as well as basic and advanced techniques in financial and market analysis. The material is heavily quantitative, but the aim is to ensure that all students gain confidence and competence in the course content, even those students whose math skills may be weak.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading. (Check the box if the course is NOT eligible for Cr/D/F grading. Note: Not applicable to graduate-level courses.)</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading (Check one of the above boxes if the course will be graded on a P/F or H/P/F basis. Default grading is percentage.)</p> <p>Document ID# Sep-O-6 U/G: G</p>
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