



RAIC Syllabus

Serving the Architectural profession nationally since 1978

National Office

Suite 210 – 318 Homer Street Vancouver BC V6B 2V2 Canada
T: 604 669-9830 F: 604 669-5513 info@raic-syllabus.ca www.raic-syllabus.ca

2009-2010 CALENDAR

COURSE CALENDAR, PART I

INTRODUCTION TO ARCHITECTURE

Duration: approximately 2.5 - 3 years

PART 1 COURSE LISTING

(Courses are listed in required order of completion [#] per [Curriculum Sequence Chart](#))

	Course Type	ID	Name
# 01	Theory	TH1	Introduction to Ideas
# 02	Design Studio	D1	Foundations of Design
# 03	History	H1	History of Ideas in Architecture – Ancient
# 04	Design Studio	D2	Foundations of Architectural Design – Elements
# 05	Technology	TE1	Materials, Properties & Applications
# 06	Design Studio	D3	Foundations of Architectural Design – Simple Habitat
# 07	Theory	TH2	Design Theory Fundamentals
# 08	History	H2	History of Ideas in Architecture – Medieval
# 09	Technology	TE2	Introduction to Structures
# 10	Design Studio	D4	Foundations of Architectural Design – Collective Habitat

WORK EXPERIENCE REQUIREMENT

Although recommended, work experience not required during Part 1 studies.

TERM 1

COURSE # 01 THEORY: TH1 Introduction to Ideas

Pre-requisite: High School Matriculation

Credit Value: 1

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Marcelo Graca, MRAIC, OAA, AIBC

DESCRIPTION: An introduction to the acknowledgement of history as a non-scientific area of the human universe. The course will demonstrate the fact that interpretation, subjectivity and the importance of the inter-connection of facts and events and their direct influence on historical and cultural patterns and instances are an intrinsic part of what is considered of "historic" importance. In summary, we will attempt to demonstrate the magnitude of relevance of historic developments and milestones of cultural evolution patterns as they correspond with how these elements affect others.

OBJECTIVES: To introduce students to the presence of deeper layers of reality than the ones commonly and possibly associated with their particular fields of expertise and their everyday life; to augment their exposure to the inter-connectedness and causality of human action (politics, economics, philosophy, religion, sociology, etc.), climate and geography, and many times, why not, sheer mystery or chance. This is an introductory course that will necessarily sacrifice detail and comprehensiveness for an overall understanding of the relationships between man, the universe, the passage of time, and the way culture evolves, letting other more specific curriculum subjects study in depth each particular area.

COURSE # 02 DESIGN STUDIO: D1 Foundations of Design

Pre-requisite or co-requisite: TH1

Credit Value: 2

Fee: \$400.00

Course Delivery: Design Studio Workshop

Workshop Locations: Vancouver, Victoria, Calgary, Edmonton, Regina, Saskatoon, Winnipeg, London, Ottawa, Thunder Bay, Toronto

DESCRIPTION: An exploration of the fundamental qualities and processes of design through a series of creative and analytical exercises. The course begins the process of establishing a basis in original thinking and ideation as an alternative to conventional solution and response. Meaning and creative technique in design and artistic expression are investigated through projects and studies involving the interactions of form, material, colour and light, and their application in non-architectural design.

OBJECTIVES: To gain experience in fundamental thinking in design and the generation of ideas; to embark upon a critical understanding of visual ideas and meaning; to acquire skills in the communication and representation of ideas and concepts.

TERM 2

COURSE # 03 HISTORY: H1 History of Ideas in Architecture - Ancient

Pre-requisite: High School Matriculation

Credit Value: 1

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Prof. Martin Segger, Director, Maltwood Art Museum, University of Victoria

DESCRIPTION: This course is organized around individual monuments. Each monument makes or reinforces a point about the principles and ideas that shaped architecture and cities in the ancient worlds of Mesopotamia, Egypt, and megalithic Europe, and in some later survivals of them in Meso-America; how those principles were altered after c.600 B.C. in classic Greece, Israel, Persia and India; how the climax and collapse of the Ancient world can be read in the architecture of Imperial Rome and Ch'in (later Han) China.

OBJECTIVES: Upon successful completion of this course, students should understand something about how architecture was used to convey ideas in the Ancient world. Its forms have been adapted and used for various social purposes for many centuries since, and those who understand how Ancient architecture worked in and for society can make good use of it still today.

COURSE # 04 DESIGN STUDIO: D2 Foundations of Architectural Design - Elements

Pre-requisite: D1, TH1

Pre-requisite or co-requisite: H1

Credit Value: 2

Fee: \$400.00

Course Delivery: Design Studio Workshop

Workshop Locations: Vancouver, Victoria, Calgary, Edmonton, Regina, Saskatoon, Winnipeg, London, Ottawa, Thunder Bay, Toronto

DESCRIPTION: The concept of establishing original and fundamental rather than conventional thinking is extended to architectural design. A series of projects focusing on specific aspects and elements of architecture, provide the vehicle for exploring the basis of conceptual thinking in architecture, and acquiring insight into the characteristics and qualities of architectonic components.

OBJECTIVES: To develop fundamental and imaginative thinking in elements of architectural design such as walls, roofs, openings, light and space; develop abilities in different media as both design tools and means of communication; to introduce the relationship of materials and structure to architectural expression; to develop theoretical understanding of these subjects.

TERM 3

COURSE # 05 TECHNOLOGY: TE1 Materials, Properties & Applications

Pre-requisite: High School Matriculation

Credit Value: 1

Fee: \$400.00

Course Delivery: Correspondence

Examiner: John Souleles, MRAIC, MAA, LEED A.P.

DESCRIPTION: The purpose of this course is to develop an understanding of the properties of materials and their behaviour when subjected to cyclical environmental conditions and stresses. Knowledge of the performance of the building enclosure allows for more accurate prediction of the probable service life of the assembly.

OBJECTIVES: To acquire a basic understanding of building enclosures as it pertains to its function as an environmental separator; to understand the behaviour of building elements and their assemblies under differential temperature and pressure stresses; to acquire an understanding of the function, properties, economics and availability of building materials; to develop a capability to perceive the responses of building materials to climatic cycles – radiation, precipitation, heating and cooling through systematic analysis of the probable arrangement and conditions; to understand the philosophy, history and reasons for building regulations and rules governing the selection, use and arrangement of building materials.

COURSE # 06 DESIGN STUDIO: D3 Foundations of Architectural Design – Simple Habitat

Pre-requisite: D2, TH1, H1

Pre-requisite or co-requisite: TE1

Credit Value: 2

Fee: \$400.00

Course Delivery: Design Studio Workshop

Workshop Locations: Vancouver, Victoria, Calgary, Edmonton, Regina, Saskatoon, Winnipeg, London, Ottawa, Thunder Bay, Toronto

DESCRIPTION: An introduction to the holistic nature of architectural design through the integration of multiple criteria in the design of a simple habitat. The application of fundamental thinking in design is extended to complete architectural projects, where a greater range of architectural parameters have to be

combined. Projects present non-conventional situations and programmes where standard solutions cannot be employed.

OBJECTIVES: To understand and formulate a building programme incorporating qualitative and theoretical criteria; to introduce the considerations of design in a natural context; to understand appropriate materials and structure as formative elements in architectural expression; the further development of techniques in communication and media (e.g. models, verbal presentation); to introduce case study as an analytical and theoretical tool.

TERM 4

COURSE # 07 THEORY: TH2 Design Theory Fundamentals

Pre-requisite: TH1

Credit Value: 1

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Ivan Martinovic, MRAIC, OAA, AIA

DESCRIPTION: The architectural theory courses are seen as fundamental to understanding architecture as a means of creating meaningful form and integral to the design studio sequence. It is expected that issues raised in the theory sequence will be integrated with the design studio work. Students will receive a list of required reading materials together with a detailed course outline and assignments. Through individual study and reflection on the readings, students will be required to provide critical and informed responses in textual and graphic forms. Three assignments (written, drawn and/or built) together with a final exam form the basis for student evaluation.

OBJECTIVES: The goals of this course are to understand how the architect conveys the ideas and values of society in built form, and to understand the purpose of architecture as a cultural artifact. These goals are met by the introduction of architectural design vocabulary and language, elements and principles of architecture, design process and methods and aesthetic issues and values.

COURSE # 08 HISTORY: H2 History of Ideas in Architecture - Medieval

Pre-requisite: H1

Credit Value: 1

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Prof. Martin Segger, Director, Maltwood Art Museum, University of Victoria

DESCRIPTION: This course is organized around individual monuments. Each monument makes or reinforces a point about the principles and ideas that shaped architecture and cities by and for world religions (Buddhism, Christianity, Hinduism) across Eurasia from c.300 – c.1450.

OBJECTIVES: Upon successful completion of this course, students should understand something about how architecture was used to convey ideas in Medieval times; how space, materials, and structure were combined to produce effects of awe through combinations of hierarchical and transcendental effects. Many contemporary applications are possible. Also the course should induce reflections about the nature of the culture we live in.

TERM 5

COURSE # 09 TECHNOLOGY: TE2 Introduction to Structures

Pre-requisite: TE1

Credit Value: 1

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Jeffrey Price M. A. Sc., P.Eng.

DESCRIPTION: This course is intended to be a general qualitative and quantitative survey of the forces acting upon the structural components of buildings.

OBJECTIVES: To provide the student with enough analytical skills to make quantitative computation on typical building components; to provide the student with an appreciation of the visual and expressive potentials of structural components in architectural design.

COURSE # 10 DESIGN STUDIO: D4 Foundations of Architectural Design – Collective Habitat

Pre-requisite: D3, TH2, H2

Pre-requisite or co-requisite: TE2

Credit Value: 2

Fee: \$400.00

Course Delivery: Design Studio Workshop

Workshop Locations: Vancouver, Victoria, Calgary, Edmonton, Regina, Saskatoon, Winnipeg, London, Ottawa, Thunder Bay, Toronto

DESCRIPTION: The application of the principles of fundamental thinking in design to a project of greater scale and complexity, which approaches more typical situations but is still non-conventional. This project, or series of projects, provides the vehicle for the introduction of more complex considerations into architectural design, involving issues of community, amenity and urban context.

OBJECTIVES: To introduce the consideration of design in an urban context; to develop pragmatic requirements of both practical and qualitative (theoretical) nature for multiple activities of small groups of people; to investigate considerations of amenity, spatial quality, light, view, privacy, interaction with climate and neighbourhood; to encounter organizational and qualitative issues of access, circulation, multi-use and limited use space.

“CERTIFICATE OF COMPLETION – PART I – RAIC SYLLABUS”

issued when all courses within Part I have been successfully completed.

COURSE CALENDAR, PART II

SKILL DEVELOPMENT, KNOWLEDGE ACQUISITION & UNDERSTANDING

Duration: approximately 2.5 - 3 years

PART 2 COURSE LISTING

(Courses are listed in required order of completion [#] per [Curriculum Sequence Chart](#))

	Course Type	ID	Name
# 11	History	H3	History of Ideas in Architecture – Post-Medieval
# 12	Technology	TE3	Advanced Structures
# 13	Technology	TE4	Architectural Applied Sciences
# 14	Design Studio	D5	Architectural Design – Cultural & Recreational
# 15	Theory	TH3	Theory of Modernism
# 16	History	H4	History of Ideas in Architecture - Modern
# 17	Technology	TE5	Building Envelope & Assemblies
# 18	Design Studio	D6	Architectural Design – Workplace
# 19	Theory	TH4	Contemporary Architectural Theory
# 20	Technology	TE6	Mechanical Equipment of Buildings

WORK EXPERIENCE REQUIREMENT

Registration as a Student Associate with Provincial Association and begin Canadian Experience Record Book (CERB) logging work experience gained under the direct supervision of a practising, Canadian Registered Architect for 2/3rds of the time it takes to complete Part 2 studies. (2/3rds or 67 weeks over a period of approximately 2.5 - 3 years, at 20 hours per week = 1340 logged hours)

TERM 6

COURSE # 11 HISTORY: H3 History of Ideas in Architecture – Post-Medieval

Pre-requisite: H2

Credit Value: 1

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Prof. Martin Segger, Director, Maltwood Art Museum, University of Victoria

DESCRIPTION: This course is organized around individual monuments, each making or reinforcing points about principles and ideas behind civilization and architecture of the period across Eurasia c.1400 – c.1750 (from the end of the Middle Ages to the early Modern era); how architecture was used to promote and sustain states structured along hereditary class lines, and later their dissolution.

OBJECTIVES: Upon successful completion of this course, students should have learned something about how architecture was used to define and support a society based upon hereditary class distinctions. Since these are principles our present society professes to abhor, this knowledge might seem to lack immediate practical application. Yet most architecture before Modernism was built upon these principles, and is incomprehensible without being aware of them. And perhaps they are not so entirely obsolete in our times as they are declared to be, either.

COURSE # 12 TECHNOLOGY: TE3 Advanced Structures

Pre-requisite: TE2

Credit Value: 1

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Jeffrey Price M. A. Sc., P.Eng.

DESCRIPTION: This course is intended to introduce the student to the basic characteristics of the main structural systems used in architectural design.

OBJECTIVES: To develop an understanding of the basic principles of these normative assemblies; to develop the ability to select structural systems which are consistent with and appropriate to the architectural intent.

TERM 7

COURSE # 13 TECHNOLOGY: TE4 Architectural Applied Sciences

Pre-requisite: TE3

Credit Value: 1

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Dale D. Kerr, M.Eng., P.Eng.

DESCRIPTION: This course is an introduction to the scientific basis of the design and assessment of the building envelope as a separator of differential environments. This course will also stress comprehension of the building materials, components, and assemblies as a function of absolute and differential thermal, hydrostatic and hygrometric conditions. The course will also refer to the impact of the building on its own microclimatic conditions.

OBJECTIVES: To equip the student, at a basic principle level, with the skills to comprehend and analyse the effects of natural environmental conditions on the building performance and conversely the impact of the building on the external environment.

COURSE # 14 DESIGN STUDIO: D5 Architectural Design – Cultural & Recreational

Pre-requisite: All Part I courses; H3, TE3

Pre-requisite or co-requisite: TE4

Credit Value: 2

Fee: \$400.00

Course Delivery: Design Studio Workshop

Workshop Locations: Vancouver, Victoria, Calgary, Edmonton, Regina, Saskatoon, Winnipeg, London, Ottawa, Thunder Bay, Toronto

DESCRIPTION: The first of a series of design courses involving established building types of increasing complexity, which provide vehicles for different theoretical issues in design, imply different design procedures, and extend design experience in different areas. The cultural and recreational building type should provide experience in designing for public assembly, and by being located in a natural site situation could also provide an opportunity for issues of building in landscape and site analysis.

OBJECTIVES: Theoretical and design issues of public assembly, natural context and landscape, and the relationship of programme and character; critical interpretation of a given programme; further communication and media techniques, e.g. portraying landscape concepts, didactics and display, theatres and illusion.

TERM 8

COURSE # 15 THEORY: TH3 Theory of Modernism

Pre-requisite: TH2

Credit Value: 2

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Marc-André Plourde, Lecturer, Cégep du Vieux Montréal

DESCRIPTION: The architectural theory courses are seen as fundamental to understanding architecture as a means of creating meaningful form and integral to the design studio sequence. It is expected that issues raised in the theory sequence will be integrated with the design studio work. Students will receive a list of both required and supplementary recommended reading materials together with a detailed course outline and assignments. Through individual study and reflection on the readings, students will be required to provide critical and informed responses in written and in graphic form. Assignments or a final examination will form the basis for evaluation of the student.

OBJECTIVES: The goals of this course are to comprehend the conditions which brought forth the Modern movement in the early twentieth century, its evolution through the first half of the century, and the rise of Post-Modern theory and architecture. These goals are met by the following: examination of the conditions at the turn of the century which led to the rise of Modern architecture; the various movements which arose in the first two decades of the century; the development of Modern architectural theory; and the reactions to Modern theory which led to Post-Modern theory and architecture.

COURSE # 16 HISTORY: H4 History of Ideas in Architecture - Modernist

Pre-requisite: H3

Credit Value: 1

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Prof. Martin Segger, Director, Maltwood Art Museum, University of Victoria

DESCRIPTION: This course is organized around individual monuments, each making or reinforcing points about how principles and ideas behind civilization and architecture in the West (1750 – 1960) were shaped by ideas behind capitalism, nationalism, scientific materialism, socialism, and manifested in shifts of style from historicist revivals to minimalist design.

OBJECTIVES: Upon completion of this course, students should have learned something about how architecture in the 20th century became increasingly influenced by theories derived from science, and how its forms changed as a result; how individual taste, shaped by media promotion, came to supersede tradition; and something of what has resulted.

TERM 9

COURSE # 17 TECHNOLOGY: TE5 Building Envelope & Assemblies

Pre-requisite: TE4

Credit Value: 1

Fee: \$400.00

Course Delivery: Correspondence

Examiner: John Souleles, MRAIC, MAA, LEED A.P.

DESCRIPTION: This course focuses on the application of building science principles to building structures and enclosures. It examines various types of building elements from footings to roofing systems, in manners appropriate to their intended functions and performances. Each component interacts

with environmental forces, and interrelates with one another. Students will develop an understanding of the building process, from site investigations, contours, excavation and casting of footings to the installation of roofing products and finishes. Consideration for occupant health and safety, fire rating, and building performance are examined. Case studies of building components, especially those that failed to perform its intended function, will be used to illustrate the importance of having a good understanding of building materials, and building processes. Wall sections and other building details are used to identify potential problems.

OBJECTIVES: To develop a sound understanding of building components as they are designed, manufactured, and installed; to develop an understanding of the building process from site investigation to installation of roofing product and finishes, with consideration for occupant safety and building performance; to become familiar with the rules and laws governing selection, use and arrangement of building materials; to acquire the necessary skills to read, design and illustrate certain architectural details as an effective means of communication.

COURSE # 18 DESIGN STUDIO: D6 Architectural Design - Workplace

Pre-requisite: D5, TH3, H4

Pre-requisite or co-requisite: TE5

Credit Value: 2

Fee: \$400.00

Course Delivery: Design Studio Workshop

Workshop Locations: Vancouver, Victoria, Calgary, Edmonton, Regina, Saskatoon, Winnipeg, London, Ottawa, Thunder Bay, Toronto

DESCRIPTION: The study and design of typical building forms and programmes within the general category of workplace, with a view to exposing issues of workplace quality, architectural character, and the imaginative integration of technical aspects into design.

OBJECTIVES: To gain experience in alternative approaches to design techniques; to engage in further theoretical issues including the integration of technical requirements into design, character and context; to develop further applications of communications and media, e.g. computers.

TERM 10

COURSE # 19 THEORY: TH4 Contemporary Architectural Theory

Pre-requisite: TH3

Credit Value: 2

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Carole Scheffer, FRAIC, OAQ

DESCRIPTION: The architectural theory courses are seen as fundamental to understanding architecture as a means of creating meaningful form and integral to the design studio sequence. It is expected that issues raised in the theory sequence will be integrated in the design studio work. Students will receive a list of both required and supplementary recommended reading materials together with a detailed course outline and assignments. Through individual study and reflection on the readings, students will be required to provide critical and informed responses, including one assignment which will focus on a student's own work, in written and graphic form. Assignments or a final examination will form the basis for evaluation of the student.

OBJECTIVES: The goals of this course are to understand current architectural theory and practice directed by that theory. Recent and current theory is driven by philosophical attempts to understand an evolving pluralistic world, and to find appropriate architectural directions that respond to our times. These

goals may be met by examination and study of current thought and experiments in all domains of architecture – buildings, landscapes, and urban; to understand the thought and instruments by which architecture must question past practices and assumptions; and to contemplate and comment upon current speculation in the field.

COURSE # 20 TECHNOLOGY: TE6 Mechanical Equipment of Buildings

Pre-requisite: TE5

Credit Value: 1

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Seymour Levine, P.Eng.

DESCRIPTION: This course will deal with the fundamentals of the design of mechanical systems for plumbing installations, water supply, drainage, disposal and fire protection systems. The student must develop an understanding of thermal comfort conditions, heat loss and transmission co-efficients and the design requirements for air, water, steam, cooling and air conditioning systems. A general knowledge of the basic equipment involved in these systems will also be required.

OBJECTIVES: The objective of this course is to develop within the student a general knowledge of the principles of climate control and sanitary science within the building environment.

“CERTIFICATE OF COMPLETION – PART II – RAIC SYLLABUS”
issued when all courses within Parts I & II have been successfully completed.

COURSE CALENDAR, PART III

SYNTHESIS & APPLICATION

Duration: approximately 5 - 6 years

PART 3 COURSE LISTING

(With the exception of Management Courses, which may be taken any time during progress through the full curriculum, courses are listed in required order of completion [#] per [Curriculum Sequence Chart](#))

	Course Name	ID	Title
# 21	Technology	TE7	Lighting
# 22	Technology	TE8	Acoustics
# 23	Design Studio	D7	Architectural Design – Institutional – Technology & Design
# 24	Theory	TH5	Urban Theory
# 25	Technology	TE9	Building Systems
# 26	Design Studio	D8	Urban & Environmental Design
<i>Management Courses may be taken prior to, concurrent with, or following completion of D9A/D9B</i>			
# 27	Management	MG1	External Context
# 28	Management	MG2	Professional Responsibility
# 29	Management	MG3	Managing Projects
# 30	Management	MG4	Managing Liability
# 31	Management	MG5	Business Development
# 32	Management	MG6	Business Systems & Management
<i>Approval of Thesis Topic required prior to D9A</i>			
# 33	Design Studio	D9A	Thesis: Research
# 34	Design Studio	D9B	Thesis: Program & Design Development

WORK EXPERIENCE REQUIREMENT

Registration as a Student Associate with Provincial Association and continue Canadian Experience Record Book (CERB) logging work experience gained under the direct supervision of a practising, Canadian Registered Architect for 4/5ths of the time it takes to complete Part 3 studies. (4/5ths or 200 weeks over a period of approximately 5 years, at 20 hours per week = 4000 logged hours)

TERM 11

COURSE # 21 TECHNOLOGY: TE7 Lighting

Pre-requisite: TE6

Credit Value: 0.5

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Maninder Dhaliwal, M.A.Sc., P.Eng., LC, LEED AP

DESCRIPTION: Architecture is experienced through all the senses but the primary mode is visual. Both natural and artificial lighting play essential roles in shaping this experience. This course will develop an understanding of these sources of illumination as part of the broader visual design processes in architecture.

OBJECTIVES: To develop an understanding of vision as a psychological and physical process; to gain knowledge of practices, issues and trends in lighting design; to gain knowledge of performance criteria in the selection of systems; to develop the ability to design artificial and natural illumination of spaces, both uniform and non-standard schemes, and sustainable lighting; to develop ability in computer modeling techniques.

COURSE # 22 TECHNOLOGY: TE8 Acoustics

Pre-requisite: TE7

Credit Value: 0.5

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Dr. Al D. Lightstone

DESCRIPTION: The purpose of this course is to acquaint the student with methods used in the design of spaces for listening, noise control, sound separation systems and control of environmental noise.

OBJECTIVES: To develop an understanding of hearing as a physical and psychological phenomenon; to develop a knowledge of systems and techniques used to create effective spaces for listening; to develop a knowledge of factors affecting noise control in buildings; to develop a knowledge of environmental noise control techniques; to gain an ability in application of separation systems for noise control.

COURSE # 23 DESIGN STUDIO: D7 Architectural Design – Institutional – Technology & Design

Pre-requisite: D6, TH4

Pre-requisite or co-requisite: TE7, TE8

Credit Value: 2

Fee: \$400.00

Course Delivery: Design Studio Workshop

Workshop Locations: Vancouver, Victoria, Calgary, Edmonton, Regina, Saskatoon, Winnipeg, London, Ottawa, Thunder Bay, Toronto

DESCRIPTION: The continuation of the study and design of significant building types with the investigation into the nature of institutions. The course focuses on larger fairly complex buildings with significant organizational demands, and which present issues of the cultural and symbolic role of public buildings and their historic role in society.

OBJECTIVES: Alternative approaches to design technique, e.g. integration of organizational, cultural and symbolic requirements into design; development and application of further communication and media, e.g. involvement of clients, statement of theoretical position; further theoretical issues including the cultural and symbolic role of buildings, typology; further experience of building types.

TERM 12

COURSE # 24 THEORY: TH5 Urban Theory Pre-requisite: TH4

Credit Value: 2

Fee: \$400.00

Course Delivery: Correspondence

Examiners: Frank Ducote, B.Arch., MCIP and Marta Farevaag, MA, MCIP, MPIBC

DESCRIPTION: This course consists of a broadly based analysis of urban theory across a number of substantive areas of study including the city as historic artifact, processes of urbanization, urban problems and potentials, the intellectual framework for urbanism and the contemporary urban development process.

OBJECTIVES: To acquire a general knowledge of the content in each of the substantive areas, e.g. (1) the history of cities and urbanization, (2) the city as environment, (3) urban problems, issues and potentialities, (4) social and intellectual framework for urbanism, and (5) the urban development process; to acquire the ability to synthesize knowledge across all substantive areas.

COURSE # 25 TECHNOLOGY: TE9 Building Systems

Pre-requisite: TE8

Credit Value: 1

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Prof. Tang G. Lee, MRAIC

DESCRIPTION: The purpose of this course is to focus on the integration of building systems and to develop an understanding of the role of these technical systems in the formation of architectural concepts.

OBJECTIVES: To understand the functions and characteristics of environmental control systems and their place in the development of architectural concepts; to understand these systems in design, e.g. (1) visual, (2) spatial, and (3) performance.

TERM 13

COURSE # 26 DESIGN STUDIO: D8 Urban & Environmental Design

Pre-requisite: D7, TH5, TE9

May take Management Courses concurrently

Credit Value: 3

Fee: \$400.00

Course Delivery: Design Studio Workshop

Workshop Locations: Vancouver, Victoria, Calgary, Edmonton, Regina, Saskatoon, Winnipeg, London, Ottawa, Thunder Bay, Toronto

DESCRIPTION: The investigation and design of urban communities, involving principles of urban theory, environmental considerations and design of multiple housing types. As the final major building type of the series to be studied, housing is considered in the context of the urban structure in which it is located, and therefore prefaced by a major study of urban theory and design of an urban area. It is thus not arbitrary, nor zoning or developer driven, but informed by a full range of theoretical and design criteria. A significant aspect of design of the urban habitat is considered to be environmental concerns, including the design of landscape.

OBJECTIVES: To develop the student's attitudes and powers of observation and interpretation, their critical approach to unconventional thinking on the question of what makes the city, and create an understanding of urban design that incorporates a sophisticated reading of the urban condition and the development of skills to implement creative and viable solutions to real problems.

COURSE # 27 MANAGEMENT: MG1 External Context

Pre-requisite: High School Matriculation; + for Diploma Students: All Part I and II Courses

Co-requisite: MG2 Professional Responsibility

Credit Value: 0.5

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Linus Murphy, Dipl.Arch., MRAIC, AAA

DESCRIPTION: This course develops awareness and understanding of those factors, external to the practitioner's office, which influence successful conductance of a professional practice. This course is an integral part of the six management courses, MG1 through MG6 and is to be completed with MG2 Professional Responsibility.

OBJECTIVES: To demonstrate knowledge and understanding of the relationship of the practice of architecture to social, legal and political issues in which the practice exists.

COURSE # 28 MANAGEMENT: MG2 Professional Responsibility

Pre-requisite: High School Matriculation; + for Diploma Students: All Part I and II Courses

Co-requisite: MG1 External Context; (waived for CACB Referrals)

Credit Value: 0.5

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Linus Murphy, Dipl.Arch., MRAIC, AAA

DESCRIPTION: This course addresses awareness of the ethical standards which underlie architectural practice, the needs for continuing professional development, as well as opportunities for the architect to contribute to the community, are developed as models to enhance professional success. This course is an integral part of the six management courses, MG1 through MG6 and is to be completed with MG1 External Context.

OBJECTIVES: To demonstrate knowledge and understanding of professional responsibilities and professional ethics.

TERM 14

COURSE # 29 MANAGEMENT: MG3 Managing Projects

Pre-requisite: MG1, MG2; (waived for CACB Referrals)

Co-requisite: MG4 Managing Liability; (waived for CACB Referrals)

Credit Value: 0.5

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Stephan Namisniak, Dipl.Arch., MRAIC, OAA, NCARB

DESCRIPTION: Contract administration and management procedures as well as construction cost estimating and life cycle costing techniques are presented during this course. Content and presentation of this course is specifically linked with Management Course MG4 – Managing Liability. This course is an integral part of the six management courses, MG1 through MG6 and is to be completed with MG4 Managing Liability.

OBJECTIVES: To demonstrate knowledge and understanding of professional contracts and management of a construction project.

COURSE # 30 MANAGEMENT: MG4 Managing Liability

Pre-requisite: MG1, MG2; (waived for CACB Referrals)

Co-requisite: MG3 Managing Projects; (waived for CACB Referrals)

Credit Value: 0.5

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Stephan Namisniak, Dipl.Arch., MRAIC, OAA, NCARB

DESCRIPTION: Matters associated with professional liability and damage control are presented, including a review of typical case studies to better prepare the architectural practitioner when providing services to the public. Content and presentation of this course is linked specifically with Management Course MG3 Managing Projects. This course is an integral part of the six management courses, MG1 through MG6 and is to be completed with MG3 Managing Projects.

OBJECTIVES: To demonstrate knowledge and understanding of professional and legal liability and the control thereof.

TERMS 15 - 18

COURSE # 31 MANAGEMENT: MG5 Business Development

Pre-requisite: MG1, MG2, MG3, MG4; (waived for CACB Referrals)

Co-requisite: MG6 Business Systems & Management; (waived for CACB Referrals)

Credit Value: 0.5

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Linus Murphy, Dipl.Arch., MRAIC, AAA

DESCRIPTION: Developing a successful professional practice is dependent upon a consistent, manageable flow of business opportunities. Techniques and skills associated with marketing professional services are presented during this course. This course is an integral part of the six management courses, MG1 through MG6 and is to be completed with MG6 Business Systems & Management.

OBJECTIVES: To demonstrate knowledge and understanding of marketing a professional practice.

COURSE # 32 MANAGEMENT: MG6 Business Systems & Management

Pre-requisite: MG1, MG2, MG3, MG4; (waived for CACB Referrals)

Co-requisite: MG5 Business Development; (waived for CACB Referrals)

Credit Value: 0.5

Fee: \$400.00

Course Delivery: Correspondence

Examiner: Stephan Namisniak, Dipl.Arch., MRAIC, OAA, NCARB

DESCRIPTION: Management and administrative aspects of the professional office are presented during this course. This course is an integral part of the six management courses, MG1 through MG6 and is to be completed with MG5 Business Development.

OBJECTIVES: To demonstrate knowledge and understanding of the business skills and office management techniques needed to conduct a professional practice.

COURSE # 33 DESIGN STUDIO: D9A Thesis Research

Pre-requisite: D8, all Theory, History, Technology courses, approved Thesis Topic

May take Management Courses concurrently

Credit Value: 3

Fee: \$500.00 per term

Course Delivery: Design Studio Workshop

Workshop Locations: Vancouver, Victoria, Calgary, Edmonton, Regina, Saskatoon, Winnipeg, London, Ottawa, Thunder Bay, Toronto

DESCRIPTION: The Thesis is the culmination of the Syllabus Program in which students undertake a major work of their own choice. There are two stages to the Thesis described under separate courses – D9A and D9B. The Thesis project usually will result in an architectural solution to a stated theoretical

position, but may also be a major analysis of issues in architectural theory, history or other fields of enquiry related to architecture. D9A includes selection of Thesis Committee (Mentor, External Advisor, and Second Advisor); Thesis Proposal Outline (statement, literature search, methodology, submission); Research Report.

OBJECTIVES: To develop the research component of the thesis, i.e.: a literature search and review of documented material that is relevant to the issue selected, including precedents in the field of both theoretical and built forms, critically analysed and used to establish intentions and approach to the selected theoretical position and project.

COURSE # 34 DESIGN STUDIO: D9B Thesis Program & Design Development

Pre-requisite: D9A

May take Management Courses concurrently

Credit Value: 9

Fee: \$500.00 per term

Course Delivery: Design Studio Workshop

Workshop Locations: Vancouver, Victoria, Calgary, Edmonton, Regina, Saskatoon, Winnipeg, London, Ottawa, Thunder Bay, Toronto

DESCRIPTION: The Thesis is the culmination of the Syllabus Program in which students undertake a major work of their own choice. There are two stages to the Thesis described under separate courses – D9A and D9B. The Thesis project usually will result in an architectural solution to a stated theoretical position, but may also be a major analysis of issues in architectural theory, history or other fields of enquiry related to architecture. D9B includes the architectural program, data analysis, initial presentation, schematic design, interim presentation, final development, submission and presentation, and formal documentation and submission to the Director.

OBJECTIVES: Final development, presentation and documentation of a design solution or major analytic study in theory, history or other fields of enquiry.

**“THE ROYAL ARCHITECTURAL INSTITUTE OF CANADA
PROFESSIONAL DIPLOMA IN ARCHITECTURE”**
issued upon Completion of RAIC Syllabus Part III

© RAICS 2007-2009
E&oe