

## **Architectural Professional Practice 1**

**EVDA 661 H(3-0)**

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**Winter 2016**

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Teaching Assistant: TBA

Classes: Thursday evenings

### **Introduction**

This course discusses the nature of professional practice for architects. It examines the roles of participants in the building industry – their responsibilities and the dynamic relationship among stakeholders. The course will examine the theoretical framework of the architect's role in society and how this is realized in the practical world of managing a practice. Topics will include the structure of the profession, regulation and self-governance, ethics, project management, office administration, industry trends, liability exposure, project control cost analysis and estimating techniques, cost control during design and construction, modes of project delivery and the building regulations.

The nature and detail of architectural practice is changing and evolving. There has been an increasing marginalization of the role the architect has traditionally played in the development of a building, yet the key ingredients of our training and education remain relevant and necessary. The practice of architecture remains a positive influence on our society and on the built environment.

### **Objectives**

- To understand the various instruments used during design, approval, documentation and construction phases of a project.
- To understand the legal and legislative underpinnings of the profession.
- To understand and appreciate the ethical, legal and technical standards of practice.
- To understand the principals and procedures for the management of projects and the ability to apply cost control techniques.
- To develop an awareness of the issues and challenges facing contemporary professional practice
- To explore the meaning and application of ethical conduct in professional and business affairs and its relationship to personal integrity and reputation.
- To understand the application of the Building Code and its impact on design
- To develop an awareness of the many roles and contexts in which architects operate.
- To develop an appreciation for the key role of collaborative thinking and teamwork in the profession

### **Teaching Approach**

The purpose of this class is to introduce the students to practitioners in architecture and the allied professions of Engineering, Landscape Architecture and Interior Design. There will be stimulating discussions and presentations of several collaborative case studies and a challenge to conventional notions of design professional distinctions. The case studies will illustrate the leading roles that are often taken by the allied design professions, as well as their collaboration with architects in the integrated design process.

This is a team-taught course involving a several adjunct professors who are also practicing architects and members of the allied professions. The adjunct professors are part of the Innovative Practice Group in Architecture. Assignments will demonstrate the student's understanding of the building process, its tools and the philosophical underpinning of design methodology and practice. Class presentations will be evaluated on innovation, understanding of the roles of allied professionals,

This course is scheduled for Thursday afternoons from 16:00-18:50, Room PF 2165.

## **Content: Topic Areas & Detailed Class Schedule**

### **CLASS 1: 14 January 2016**

#### **INTRODUCTION TO PROFESSIONAL PRACTICE**

Tang Lee, Architect, AAA  
Professor, EVDS, University of Calgary  
Katherine Wagner, Architect, AAA, FRAIC, LEED AP™  
Associate, DIALOG

##### Professional practice

- Overview of professional practice
- Defining the profession(s)
- Philosophical underpinnings of architectural practice
- Self-governance
- The public interest
- Architects Act and General Regulation
- Ethics and professional judgement

##### *Assignment 1*

*Alberta Architects Act and General Regulations*

### **CLASS 2: 21 January 2016**

#### **STRUCTURE OF THE PROFESSION**

##### Legal and Regulatory Framework

- Alphabet soup – national picture
- Code of ethics, complaint review, practice review
- Structure in the United States

##### Qualification Process

- Professional education
- Canadian Architectural Certification Board
- National Council of Architectural Registration Boards
- Internship and employer/intern relationship
- Professional examinations

### **CLASS 3: 28 January 2016**

#### **CONSTRUCTION METHODOLOGIES**

## The Construction Contract

- Modes of delivery
  - Design Bid Build
  - Design Build
  - Construction Management
  - Private Public Partnership
- Forms of contract and architect's role
  - Royal Architectural Institute of Canada (RAIC)
  - Canadian Construction Documents Committee (CCDC)
- Contract Documents
- Specifications
- Bid process

[http://www.raic.org/practice/contract\\_documents/document6\\_e.htm](http://www.raic.org/practice/contract_documents/document6_e.htm)

### **CLASS 4: 4 February 2016**

## **CLIENTS + SERVICES**

### Clients

- Corporate clients
- Public sector
- Entrepreneurs and developers
- Individual as client
- Communities and citizens as clients

### Architect Responsibility

- Client
- Project team
- Community
- Authorities Having Jurisdiction

### *Assignment 1 DUE*

*Alberta Architects Act and General Regulation*

### *Assignment 2 Building Code Analysis and Solutions*

### **CLASS 5: 11 February 2016**

## **BUILDING PROCESS + REGULATION**

### Development Permit Process

- Land Use Bylaw
- Planning regulations
- Development permit

### Building Permit Process

- Alberta Building Code –objective based
- Authorities having jurisdiction
- Building permit

### Accessibility and the Built Environment

- Principle and rationale

- Authorities having jurisdiction
- Access design standards
- Mobility, vision cognitive, hearing

**18 February 2016**

BLOCK WEEK (February 14-21) – CLASSES CANCELLED

**CLASS 6: 25 February 2016**

**CONSTRUCTION CONTRACT + COST CONTROL**

Scope of Services

- APPEGA AAA defined scope of basic services, additional services
- Traditional breakdown and implications

The Construction Contract

- The Process: change orders, construction communications, site review reports
- Certificate for progress payment
- Commissioning and turnover

Cost control

- Overview of building cost estimating
  - In-house estimating
  - Value engineering process
- Review methodology used to cost a project

*Assignment 2 DUE*

*Building Code Analysis and Solutions*

*Assignment 3*

*Cost Estimating*

**CLASS 7: 3 March 2016**

**STRUCTURE OF THE PROFESSION**

Remuneration, Scope and Liability

- APPEGA AAA Recommended Conditions of Engagement + Schedule of Fees
- Fee negotiation
- Competition and fees
- Effects on practice and professional organization
- Liability exposure and liability insurance
- Why cost matters

**CLASS 8: 10 March 2016**

**PRACTICE MANAGEMENT + BUSINESS OF ARCHITECTURE**

Robert Adamson, Architect, AAA, FRAIC  
Principal, DAIALOG

Practice organization and management

- Modes of Practice; sole proprietorship, partnership, corporate models, joint ventures, joint practice (architecture and engineering)
- Organizational structures
- Operating profitably
- Managing staff

Marketing architectural services

- Politics
- Community involvement

Niche markets

**CLASS 9: 17 March 2016**

### **ALLIED PROFESSIONS**

Working with allied professionals

- Integrated design and collaboration
- Allied professions; landscape architects, urban designers, planners, engineers
- Education of allied professionals
- How allied professionals are governed
- Engaging allied professionals
- Working with allied professionals

*Assignment 3 DUE*

*Cost Estimating*

*Assignment 4*

*Response to Request for Proposal*

**CLASS 10: 24 March 2016**

### **ARCHITECTURAL PRACTICE FROM CLIENT PERSPECTIVE + PROJECT ACQUISITION**

Understanding the role of client

- Client expectations
- Relationships and modes of interaction with client
- Architect responsibilities to project communication
- Client project management responsibilities

Request for Proposal

- Scope of work
- Range of services
- Special considerations

**CLASS 11: 31 March 2016**

### **STRUCTURE OF THE PROFESSION**

The Changing Nature of the Profession and Alternative Modes of Practice

- Various roles for architects
- Information manager

- Para-Professionals and roles
- Overlap and competition for scope

CLASS 12: 7 April 2016

**THE NATURE OF PRACTICE + FUTURE OPPORTUNITIES**

Tang Lee, Architect, AAA  
 Professor, EVDS, University of Calgary

Katherine Wagner, Architect, AAA, FRAIC, LEED AP™  
 Associate, DIALOG

Team presentations of Assignment 4 in Pecha Kucha format.

*Assignment 4 DUE*  
*Response to Request for Proposal*

**Means of Evaluation**

Alberta Architects Act and General Regulation	25%
Building code analysis and solutions	25%
Cost estimating	25%
Response to Request for Proposal	<u>25%</u>
<b>Total</b>	<b>100%</b>

*Note: A passing grade in all assignments is required in order to pass the course as a whole.*

**Policy for Late Assignments**

Assignments submitted after the deadline will be penalized with the loss of a grade (e.g.: A- to B+). For late submission after one week but not more than 2 weeks late, the loss will be two grades, e.g.: A- to B. Assignments will not be accepted after 3 weeks.

**Grading Scale**

Grade	Grade Point Value	4-Point Range	Percent	Description
A+	4.00	4.00	95-100	Outstanding - evaluated by instructor
A	4.00	3.85-4.00	90-94.99	Excellent - superior performance showing comprehensive understanding of the subject matter
A-	3.70	3.50-3.84	85-89.99	Very good performance
B+	3.30	3.15-3.49	80-84.99	Good performance
B	3.00	2.85-3.14	75-79.99	Satisfactory performance
B-	2.70	2.50-2.84	70-	Minimum pass for students in

			74.99	the Faculty of Graduate Studies
C+	2.30	2.15-2.49	65-69.99	All final grades below B- are indicative of failure at the graduate level and cannot be counted toward Faculty of Graduate Studies course requirements.
C	2.00	1.85-2.14	60-64.99	
C-	1.70	1.50-1.84	55-59.99	
D+	1.30	1.15-1.49	50-54.99	
D	1.00	0.50-1.14	45-49.99	
F	0.00	0-0.49	0-44.99	

Notes:

- A student who receives a "C+" or lower in any one course will be required to withdraw regardless of their grade point average (GPA) unless the program recommends otherwise. If the program permits the student to retake a failed course, the second grade will replace the initial grade in the calculation of the GPA, and both grades will appear on the transcript.

Readings

- Lewis, R. *Architects? A Candid Guide to the Profession*. The MIT Press, Cambridge, Mass.
- Andy Pressman AIA, *Professional Practice 101 A Compendium of Business and Management Strategies in Architecture*, John Wiley and Sons Inc.
- Fisk, E., *Construction Project Administration*. Prentice-Hall Canada Inc.
- *Canadian Handbook of Practice for Architects*, Royal Architectural Institute of Canada, 2<sup>nd</sup> Edition, Ottawa 2009
- *RS Means Building Construction Data*, RS Means Company Inc. Kingston, MA
- *The Architects' Handbook of Professional Practice*, American Institute of Architects, Washington DC
- American Institute of Architects, *Handbook on Project Delivery*, Washington DC
- Darryl Douglas *The Architect's Act, Regulations, & Bylaws*, The Alberta Association of Architects, Edmonton 2003
- Ralph L. Klein, *The Secret of Successful Project Management*, Wiley & Sons, Inc.

Internet Resources:

[http://www.goodreads.com/book/show/166443.Petra\\_Blaisse\\_Inside\\_Outside](http://www.goodreads.com/book/show/166443.Petra_Blaisse_Inside_Outside)

<http://www.insideoutside.nl/>

<http://www.youtube.com/watch?v=wGaCLWaZLI4&feature=related>

Special Budgetary Requirements

Nil

Notes:

1. Written work, term assignments and other course related work may only be submitted by e-mail if prior permission to do so has been obtained from the course instructor. Submissions must come from an official University of Calgary (ucalgary) email account.
2. Academic Accommodations. Students who require an accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a protected ground other than disability, should communicate this need, preferably in writing, to their Instructor or the designated contact person in EVDS, Jennifer Taillefer ([jtaillef@ucalgary.ca](mailto:jtaillef@ucalgary.ca)). Students who require an accommodation unrelated to their coursework or the requirements for a graduate degree, based on a protected ground other than disability, should communicate this need, preferably in writing, to the Vice-Provost (Student Experience). For additional information on support services and accommodations for students with disabilities, visit [www.ucalgary.ca/access/](http://www.ucalgary.ca/access/)
3. Plagiarism - Plagiarism involves submitting or presenting work in a course as if it were the student's own work done expressly for that particular course when, in fact, it is not. Most commonly plagiarism exists when:(a) the work submitted or presented was done, in whole or in part, by an individual other than the one submitting or presenting the work (this includes having another impersonate the student or otherwise substituting the work of another for one's own in an examination or test),(b) parts of the work are taken from another source without reference to the original author,(c) the whole work (e.g., an essay) is copied from another source, and/or,(d) a student submits or presents work in one course which has also been submitted in another course(although it may be completely original with that student) without the knowledge of or prior agreement of the instructor involved. While it is recognized that scholarly work often involves reference to the ideas, data and conclusions of other scholars, intellectual honesty requires that such references be explicitly and clearly noted. Plagiarism is an extremely serious academic offence. It is recognized that clause (d) does not prevent a graduate student incorporating work previously done by him or her in a thesis. Any suspicion of plagiarism will be reported to the Dean, and dealt with as per the regulations in the University of Calgary Graduate Calendar.
4. Information regarding the Freedom of Information and Protection of Privacy Act (<http://www.ucalgary.ca/secretariat/privacy>) and how this impacts the receipt and delivery of course material
5. Emergency Evacuation/Assembly Points (<http://www.ucalgary.ca/emergencyplan/assemblypoints>)
6. Safewalk information (<http://www.ucalgary.ca/security/safewalk>)
7. Contact Info for: Student Union (<http://www.su.ucalgary.ca/page/affordability-accessibility/contact>); Graduate Student representative(<http://www.ucalgary.ca/gsa/>) and Student Ombudsman's Office (<http://www.su.ucalgary.ca/page/quality-education/academic-services/student-rights>).