

Architectural Professional Practice 1

EVDA 661 H(3-0)

Tang G. Lee (Course manager) E-mail: lee@ucalgary.ca Tel: 403-220-6608 PF-3194

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Katherine Wagner (Sessional) E-mail: kwagner@designdialog.ca, Tel: 403-541-5408

Jade Getz (Teaching Assistant) getzj252@gmail.com

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: 12 September 2013

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: 19 September 2013

STRUCTURE OF THE PROFESSION

Len Rodrigues, Architect, AAA, FRAIC,
Senior Principal, Stantec Architecture Ltd

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: 26 September 2013

CONSTRUCTION METHODOLOGIES

Chris Roberts, Architect, AAA, MRAIC, LEED AP™
Partner, Simpson Roberts Architecture and Interior Design

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

CLASS 4: 3 October 2013

CLIENTS + SERVICES

Jaydan Fait, MCIP, MEDES
General Manager, Calgary Infill, Brookfield Residential
Katherine Wagner, Architect, AAA, FRAIC, LEED AP™
Associate, DIALOG

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: 10 October 2013

BUILDING PROCESS + REGULATION

Kim Karn
Code, Fire & Life Safety Specialist
Riddell Kurczaba Architecture Engineering Interior Design Ltd
Tang Lee, Architect, AAA
Professor, EVDS, University of Calgary

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

17 October 2013

BLOCK WEEK – CLASSES CANCELLED

CLASS 6: 24 October 2013

CONSTRUCTION CONTRACT + COST CONTROL

Katherine Wagner, Architect, AAA, FRAIC, LEED AP™
Associate, DIALOG
Graeme Hackett, Intern Architect, AAA, LEED AP™
DIALOG

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: 31 October 2013

STRUCTURE OF THE PROFESSION

Mike Feeney

President, Quadrant Insurance Services

Ralf Pagenkopf, PEng, LEED AP

Director, Business Development, Stuart Olson Dominion

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

Associate, DIALOG

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: 7 November 2013

PRACTICE MANAGEMENT + BUSINESS OF ARCHITECTURE

Robert Adamson, Architect, AAA, FRAIC

Principal, DIALOG

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: 14 November 2013

ALLIED PROFESSIONS

Alan Collyer, Architect, AAA, FRAIC, LEED AP™

Principal, DIALOG

Mark Wallace, PEng

Principal, DIALOG

Craig More, PEng

Associate, Stantec

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

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: 21 November 2013

ARCHITECTURAL PRACTICE FROM CLIENT PERSPECTIVE + PROJECT ACQUISITION

Russ Golightly, PEng, LEED BD+C™.
Sustainable Project Manager, City of Calgary
Kevin Mullin, Architect AAA
Senior Facilities Planner, City of Calgary

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: 28 November 2013

STRUCTURE OF THE PROFESSION

David Down, Architect, AAA, LEED AP™
Senior Architect, City of Calgary

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: 5 December 2013

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>
Total	100%

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 may be penalized with the loss of a grade (e.g.: A- to B+) for each day late.

Grading Scale

Grade	Grade Point Value	4-Point Range	Percent	Description
A+	4.00	4.00	92.5-100	Outstanding - evaluated by instructor
A	4.00	3.85-4.00	85-92.49	Excellent - superior performance showing comprehensive understanding of the subject matter
A-	3.70	3.50-3.84	80-84.99	Very good performance
B+	3.30	3.15-3.49	76-79.99	Good performance
B	3.00	2.85-3.14	73-75.99	Satisfactory performance
B-	2.70	2.50-2.84	70-72.99	Minimum pass for students in the Faculty of Graduate Studies
C+	2.30	2.15-2.49	66-69.99	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	63-65.99	
C-	1.70	1.50-1.84	60-62.99	
D+	1.30	1.15-1.49	56-59.99	
D	1.00	0.50-1.14	50-55.99	
F	0.00	0-0.49	0-49.99	

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, 2nd 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.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. It is the student's responsibility to request academic accommodations. If you are a student with a documented disability who may require academic accommodation and have not registered with the Student Accessibility Services, please contact their office at 220-8237. (<http://www.ucalgary.ca/access>) Students who have not registered with the Student Accessibility Services are not eligible for formal academic accommodation. You are also required to discuss your needs with your instructor no later than fourteen (14) days after the start of this course.
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>).