Area of Interest: Construction and Skilled Trades

Bachelor of Applied Science (Building Conservation) (Honours) (Co-op)

Honours Degree

4 Years

Perth Campus

Program Code: 6900X03FPT

Our Program

Revitalize the past to craft a sustainable future.

The Bachelor of Applied Science (Building Conservation) (Honours) program, within the Algonquin College Heritage Institute, prepares you for a career as a specialized professional promoting the understanding, stewardship and sustainability of our built environment and cultural heritage resources, while reflecting on the knowledge, skills and techniques of the crafts and trades people who created them. This degree affords you flexibility in your career path through application of these rigorous standards in a heritage setting or in the broader fields of renovation, rehabilitation, or general construction. In this program you develop:

- technical proficiency and craft in skilled trades, focusing on techniques and practices used in the care of traditional and heritage buildings

- a comprehensive understanding of the theory, principles and practices of heritage conservation (including preservation, restoration and rehabilitation), that is contemporary, holistic, respectful of the environment, people-centered and inclusive of all cultures

- critical skills for research and analysis, including practice-based methodologies

Explore traditional and contemporary techniques incorporating a variety of media and materials, including traditional bench joinery, masonry, timber framing, and log building. Develop hand and digital drawing techniques and fundamental business practices with professional standards. Apply theory, planning and conservation practices while exploring the social, environmental, legal and ethical aspects of the field. Take advantage of multiple opportunities to work with industry partners during applied theory and practical research projects, guest lectures and site visits.

Students also gain real-world experience through a paid co-operative education (co-op) work term (s) (see Additional Information for more details). Please note that places in the co-op work term(s) are subject to availability and academic eligibility. **Please note admission to a co-op program does not guarantee a co-op placement.**

Graduates may find employment in a variety of public/private, profit/not-for-profit areas including, but not limited to:

- heritage consultancy, government and conservation organizations

- materials-based craftwork such as carpentry and millwork in high-end custom carpentry fields

- stewardship, conservation, and interpretation of cultural heritage

- the renovation and construction industry

Graduates may also choose to pursue masters-level education in Building Conservation or a related field.

SUCCESS FACTORS

This program is well-suited for students who:

- Have an appreciation and respect for history, traditional building and crafts, and cultural diversity.

- Are willing to work as a member of interprofessional teams.

- Have strong observation and analytical skills.

- Enjoy using creative, strategic, and critical thinking skills to solve problems.

- Are detail-oriented without losing sight of the big picture.

- Value the economic, social, and environmental benefits of sustainable practices.

- Wish to combine the fulfillment of constructing and creating with one`s hands, with academic pursuits.

Employment

Graduates of the program may pursue opportunities as a cultural heritage specialist, heritage carpenter, materials conservator, historic site supervisor, heritage conservation consultant, conservation contractor, restoration artisan, cultural heritage researcher, cultural resource manager or support, Main Street/Business Improvement Area staff member.

Learning Outcomes

The graduate has reliably demonstrated the ability to:

- Research, analyze, and apply craftsmanship theory and best practices to ensure that projects are informed by past interventions and reflect current interdisciplinary innovations and practices.

- Document and communicate the values of cultures, places and communities informed by oral and written historical research, empirical investigations of heritage resources and the crafts and trades that created them.

- Restore, repair, recreate, construct, and install elements related to structures and resources according to regulations, standards and guidelines, local and historical practices and traditional and contemporary construction and craft techniques.

- Select and apply artisanal techniques using traditional and contemporary materials and methods to support conservation, revitalization, and renovation projects.

- Apply critical thinking and research skills to solve problems, formulate strategies, and interventions for the conservation and re-use of structures and resources.

- Prepare and defend proposals and decisions using clear messages, research, and technical presentations in multiple formats appropriate to external and internal stakeholders.

- Contribute to the on-going economic viability of conservation and renovation projects through the application of principles of estimating, accounting, finance, and cost controls to keep projects on time and within budget.

- Guide client and stakeholder expectations and respond to emerging challenges for projects, in alignment with regulations, standards and guidelines, conservation principles and practices, and ethical and professional standards.

- Organize, coordinate, complete, and communicate information to ensure all projects comply with health and safety practices and procedures; established professional and technical standards; and, applicable cultural practices, legislation, and regulations.

- Manage the progression of projects and sites by applying basic principles and strategies of project management and risk management in collaboration with interprofessional partners and stakeholders.

- Develop strategies for lifelong learning to adapt to changes in the field, in cultures and societies to ensure relevance and foster inter-disciplinary and inter-professional collaboration.

2

- Use leadership skills to promote and advance the body of knowledge in the field through research, partnerships, and on-going dialogue with stakeholders.

- Identify and apply discipline-specific practices that contribute to the local and global community through social responsibility, economic commitment and environmental stewardship.

Program of Study

Level: 01	Courses	Hours
CON9111	Carpentry: Foundations, Floors, Walls and Basic Roofs	84.0
CSV9100	Introduction to Heritage Conservation	42.0
DSN1100	Technical Drawings	42.0
MAT9105	Mathematics for the Craftsperson	42.0
WOO9254	Joinery Fundamentals	112.0
Level: 02	**Courses**	**Hours**
CSV9200	Heritage Conservation in Practice: Past, Present, and Future	42.0
ENL1100	Communications and Academic Writing	42.0
WOO9226	Joinery: Architectural Millwork	84.0
WOO9228	Carpentry: Roofs and Finishes	154.0
Level: 03	**Courses**	**Hours**
CAD2300	Building Modelling I	28.0
CSV9300	Traditional Materials Science	56.0
CSV9310	Contextualizing Heritage	42.0
GEP1001	Cooperative Education and Job Readiness	18.0
PHI1000	Logic and Critical Thinking	56.0
WOO9306	Traditional Joinery: Doors and Windows	168.0
Level: 04	**Courses**	**Hours**
CSV9400	Existing Buildings: Re-Use, Repair, and Maintenance	56.0
CSV9410	Business Fundamentals for Building Conservation Professionals	42.0
LAW9400	Heritage Planning: an Introduction to Law, Policy, and Process	42.0
PHI2000	Introduction to Research	42.0
WOO9334	Traditional Joinery: Staircasing	126.0
Co-op: 01	**Courses**	**Hours**
WKT9400	Co-Op Work Term 1	
Level: 05	**Courses**	**Hours**

ARC9505	History and Philosophy of Canadian Architecture	42.0
BSC1100	Building Science I	42.0
CSV9500	Inventory and Evaluation Methodologies	42.0
PHI9500	Ethics and Professional Practice	42.0
Elective: choose 2	**Courses**	**Hours**
BIO2200	Botany	56.0
ENL2025	Interpersonal Communication	42.0
FLS3101	French as a Second Language-Beginner 1	42.0
FLS3102	French as a Second Language-Beginner 2	42.0
GED2300	Indigenous Self-Representation in Contemporary Canadian Culture	42.0
GEO2300	Principles of Urban Planning	56.0
LAN3101	Spanish-Beginner 1	42.0
LAN3102	Spanish-Beginner 2	42.0
LAW2014	Law	42.0
PHI2002	Ethical Decision Making	42.0
PSI2000	Navigating Canada's Political Landscape	56.0
PSY2100	Introductory Psychology	42.0
SCI2000	Environmental Science	42.0
SOC2000	Introduction to Sociology	56.0
SOC2001	Anti-Racism: Theory and Practice	42.0
Co-op: 02	**Courses**	**Hours**
WKT9500	Co-Op Work Term 2	
Level: 06	**Courses**	**Hours**
CAD2400	Building Modelling II	28.0
CSV9600	Project Management, Scheduling, and Estimating	42.0
QUA2000	Statistics	42.0
WOO9303	Traditional Carpentry: Timber Framing	70.0
Elective: choose 1	**Courses**	**Hours**
BIO2200	Botany	56.0
ENL2025	Interpersonal Communication	42.0
FLS3101	French as a Second Language-Beginner 1	42.0
FLS3102	French as a Second Language-Beginner 2	42.0

GED2300	Indigenous Self-Representation in Contemporary Canadian Culture	42.0
GEO2300	Principles of Urban Planning	56.0
LAN3101	Spanish-Beginner 1	42.0
LAN3102	Spanish-Beginner 2	42.0
LAW2014	Law	42.0
PHI2002	Ethical Decision Making	42.0
PSI2000	Navigating Canada's Political Landscape	56.0
PSY2100	Introductory Psychology	42.0
SCI2000	Environmental Science	42.0
SOC2000	Introduction to Sociology	56.0
SOC2001	Anti-Racism: Theory and Practice	42.0
Co-op: 03	**Courses**	**Hours**
WKT9600	Co-Op Work Term 3	
Level: 07	**Courses**	**Hours**
CSV9700	Heritage and Site Management	42.0
CSV9710	Building Conservation Project 1	42.0
CSV9720	Heritage Conservation Plans	42.0
WOO9402	Traditional Carpentry: Log Building	56.0
Elective: choose 1	**Courses**	**Hours**
BIO2200	Botany	56.0
ENL2025	Interpersonal Communication	42.0
FLS3101	French as a Second Language-Beginner 1	42.0
FLS3102	French as a Second Language-Beginner 2	42.0
GED2300	Indigenous Self-Representation in Contemporary Canadian Culture	42.0
GEO2300	Principles of Urban Planning	56.0
LAN3101	Spanish-Beginner 1	42.0
LAN3102	Spanish-Beginner 2	42.0
LAW2014	Law	42.0
PHI2002	Ethical Decision Making	42.0
PSI2000	Navigating Canada's Political Landscape	56.0
PSY2100	Introductory Psychology	42.0
SCI2000	Environmental Science	42.0

SOC2000	Introduction to Sociology	56.0
SOC2001	Anti-Racism: Theory and Practice	42.0
Level: 08	**Courses**	**Hours**
CSV9800	Building Conservation Project 2	70.0
CSV9810	Capstone Research Seminar	28.0
ENL9800	Technical Writing for Reports and Grant Proposals	42.0
Elective: choose 1	**Courses**	**Hours**
CUL4000	Global Citizenship	42.0
ENL4016	World Literature	42.0
ENL4100	Creative Writing	42.0
ENL4200	New Worlds and Alternative Realities: Speculative Fiction	42.0
ENL4300	The Brave New Worlds of Dystopian Fiction	45.0
PHI4000	Philosophy and Popular Culture	42.0
PHI4002	The Philosophy of Drugs	42.0
PHI4003	The Philosophy of Love and Sex	42.0
PHI4004	Technology, Society and the Environment	42.0
PHI4100	Survival in the Information Age: Risk and the Media	42.0
PHY4000	Black Holes, Big Bangs and the Cosmos	42.0
SOC4000	Criminology	42.0
SOC4001	Global Perspectives	42.0
BIO2200	Botany	56.0
CUL4000	Global Citizenship	42.0
ENL2025	Interpersonal Communication	42.0
ENL4016	World Literature	42.0
ENL4100	Creative Writing	42.0
ENL4200	New Worlds and Alternative Realities: Speculative Fiction	42.0
ENL4300	The Brave New Worlds of Dystopian Fiction	45.0
FLS3101	French as a Second Language-Beginner 1	42.0
FLS3102	French as a Second Language-Beginner 2	42.0
GED2300	Indigenous Self-Representation in Contemporary Canadian Culture	42.0
GEO2300	Principles of Urban Planning	56.0
LAN3101	Spanish-Beginner 1	42.0

LAN3102	Spanish-Beginner 2	42.0
LAW2014	Law	42.0
PHI2002	Ethical Decision Making	42.0
PHI4000	Philosophy and Popular Culture	42.0
PHI4002	The Philosophy of Drugs	42.0
PHI4003	The Philosophy of Love and Sex	42.0
PHI4004	Technology, Society and the Environment	42.0
PHI4100	Survival in the Information Age: Risk and the Media	42.0
PHY4000	Black Holes, Big Bangs and the Cosmos	42.0
PSI2000	Navigating Canada's Political Landscape	56.0
PSY2100	Introductory Psychology	42.0
SCI2000	Environmental Science	42.0
SOC2000	Introduction to Sociology	56.0
SOC2001	Anti-Racism: Theory and Practice	42.0
SOC4000	Criminology	42.0
SOC4001	Global Perspectives	42.0

Fees for the 2024/2025 Academic Year

Tuition and related ancillary fees for this program can be viewed by using the Tuition and Fees Estimator tool at https://www.algonquincollege.com/fee-estimator .

Further information on fees can be found by visiting the Registrar`s Office website at https://www.algonquincollege.com/ro .

Fees are subject to change.

Additional program related expenses include:

- Books and academic supplies cost approximately $1,000 in the first year and $400 in the second year.

- In addition, students are required to purchase trade-specific personal protective equipment and tools at a cost of $800 - $1,500 in the first year and $300 - $500 in the second year.

- Books for the third and fourth year cost $450 - $750 each year.

- Students are advised not to purchase tools before attending class.

- Students are required to have safety footwear and eye and ear protection on the first day of classes.

Admission Requirements for the 2025/2026 Academic Year

College Eligibility

- Ontario Secondary School Diploma (OSSD) or equivalent.

- Mature students status (19 years of age or older and without a high school diploma at the start of the program). Mature students applying for Degree programs satisfy College Eligibility by having demonstrated academic abilities equivalent to those of Ontario high school graduates, verified by successful completion of at least one full-time term at the post-secondary level (minimum five courses taken concurrently in an academic program of study).

Program Eligibility

Direct entry and or mature student applicants for the proposed program must demonstrate achievement of the admission requirements outlined in the table below as per the benchmarks.

- Six Grade 12 university (U) or university/college (M) courses with a minimum of 60% in each course and a minimum 65% average including: - One Grade 12 U English course, with a minimum grade of 65%.

- Additionally, applicants require: Grade 12 C mathematics.

- Applicants with international transcripts must provide proof of the subject-specific requirements noted above and may be required to provide proof of language proficiency. Domestic applicants with international transcripts must be evaluated through the International Credential Assessment Service of Canada (ICAS) or World Education Services (WES).

- IELTS-International English Language Testing Service (Academic) Overall band of 6.5 with a minimum of 6.0 in each band; OR TOEFL-Internet-based (iBT)-overall 88, with a minimum of 22 in each component: Reading 22; Listening 22; Speaking 22; and Writing 22; OR Duolingo English Test (DET) Overall 120, minimum of 120 in Literacy and no score below 105.

Admission Requirements for 2024/2025 Academic Year

College Eligibility

- Ontario Secondary School Diploma (OSSD) or equivalent.

- Mature students status (19 years of age or older and without a high school diploma at the start of the program). Mature students applying for Degree programs satisfy College Eligibility by having demonstrated academic abilities equivalent to those of Ontario high school graduates, verified by successful completion of at least one full-time term at the post-secondary level (minimum five courses taken concurrently in an academic program of study).

Program Eligibility

- Direct entry and or mature student applicants for the proposed program must demonstrate achievement of the admission requirements outlined in the table below as per the benchmarks.

- Six Grade 12 university (U) or university/college (M) courses with a minimum of 60% in each course and a minimum 65% average including: One Grade 12 U English course, with a minimum grade of 65%.

Additionally, applicants require:

- Grade 12C mathematics

- Applicants with international transcripts must provide proof of the subject specific requirements noted above and may be required to provide proof of language proficiency. Domestic applicants with international transcripts must be evaluated through the International Credential Assessment Service of Canada (ICAS) or World Education Services (WES).

- IELTS-International English Language Testing Service (Academic) Overall band of 6.5 with a minimum of 6.0 in each band. OR

- TOEFL-Internet-based (iBT)-overall 88, with a minimum of 22 in each component: Reading 22; Listening 22; Speaking 22; and Writing 22. OR

- Duolingo (DET) - Overall 115, minimums of 115 in Literacy and 90 in Production

Application Information

BACHELOR OF APPLIED SCIENCE (BUILDING CONSERVATION) (HONOURS) (CO-OP)
Program Code 6900X03FPT

Applications to full-time day programs must be submitted with official transcripts showing completion of the academic admission requirements through:

ontariocolleges.ca
60 Corporate Court
Guelph, Ontario N1G 5J3
1-888-892-2228

Students currently enrolled in an Ontario secondary school should notify their Guidance Office prior to their online application at https://www.ontariocolleges.ca/ .

Applications for Fall Term and Winter Term admission received by February 1 will be given equal consideration. Applications received after February 1 will be processed on a first-come, first-served basis as long as places are available.

International applicants please visit this link for application process information: https://algonquincollege.force.com/myACint/ .

For further information on the admissions process, contact:

Registrar`s Office
Algonquin College Heritage Institute
7 Craig Street
Perth, ON K7H 1X7
Local: 613-267-2859
Toll-free: 1-800-565-4723
TTY: 1-866-620-3845
Fax: 613-267-3950
www.algonquincollege.com/perth

Additional Information

Algonquin College has been granted consent by the Minister of Colleges and Universities to offer this applied degree for a seven-year term starting March 17, 2023. The College shall ensure that all students admitted to the above-named program during the period of consent have the opportunity to complete the program within a reasonable timeframe.

The Bachelor of Applied Science (Building Conservation) (Honours) program is a physically demanding program of study. Students can expect to spend extended blocks of time in both shop and outdoor environments with controlled exposure to noise and dust.

CO-OP INFORMATION:
Co-operative education (Co-op) allows students to integrate their classroom learning with a real-world experience through paid work terms. Two academic terms prior to the cooperative education work term, students are required to actively participate in and successfully complete the self-directed co-op course, readiness activities and workshops.

Students must actively conduct a guided, self-directed job search and are responsible for securing approved program-related paid co-op employment. Students compete for co-op positions alongside students from Algonquin College and other Canadian and international colleges and universities. Algonquin College`s Co-op Department provides assistance in developing co-op job opportunities and guides the overall process, but does not guarantee that a student will obtain employment in a co-op work term. Co-op students may be required to relocate to take part in the co-op employment opportunities available in their industry and must cover all associated expenses; e.g., travel, work permits, visa applications, accommodation and all other incurred expenses.

Co-op work terms are typically 14 weeks in duration and are completed during a term when students are not taking courses. For more information on your program`s co-op level(s), visit the courses tab on your program`s webpage.

International students enrolled in a co-op program are required by Immigration, Refugees and Citizenship Canada (IRCC) to have a valid Co-op/Internship Work Permit prior to commencing their work term. Without this document International students are not legally eligible to engage in work in Canada that is part of an academic program. The Co-op/Internship Work Permit does not authorize international students to work outside the requirements of their academic program.

9

For more information on co-op programs, the co-op work/study schedule, as well as general and program-specific co-op eligibility criteria, please visit https://www.algonquincollege.com/coop .

Successful completion of all courses, including mandatory cooperative education (Co-op) Work Terms, is a requirement for graduation.

Contact Information

Program Coordinator(s)

- Jack Hollinger, mailto:hollinj@algonquincollege.com , 613-267-2859

Course Descriptions

ARC9505 History and Philosophy of Canadian Architecture

Architecture is not neutral; it can reflect important aspects of our society. Students explore the different styles, technological changes and influences on Canadian architecture (including indigenous and community-specific types) and analyze the symbolism and power dynamics associated with these ideas. Students critique and apply these ideas through in-class discussions, movies, guest lectures, case studies, and site visits.

Prerequisite(s): none
Corerequisite(s):none

BIO2200 Botany

Biologists with an interest in plant life may choose to specialize in botany. Beginning with the organic features of life, focusing on plants, students investigate the diversity of plant life and the basis for distinction amongst various species. With a deeper knowledge of plant structures and variability, students consider the impact of plants in the modern world, including human interactions such as food production, building materials and medicine.

Prerequisite(s): none
Corerequisite(s):none

BIO2200 Botany

Biologists with an interest in plant life may choose to specialize in botany. Beginning with the organic features of life, focusing on plants, students investigate the diversity of plant life and the basis for distinction amongst various species. With a deeper knowledge of plant structures and variability, students consider the impact of plants in the modern world, including human interactions such as food production, building materials and medicine.

Prerequisite(s): none
Corerequisite(s):none

BIO2200 Botany

Biologists with an interest in plant life may choose to specialize in botany. Beginning with the organic features of life, focusing on plants, students investigate the diversity of plant life and the basis for distinction amongst various species. With a deeper knowledge of plant structures and variability, students consider the impact of plants in the modern world, including human interactions such as food production, building materials and medicine.

Prerequisite(s): none
Corerequisite(s):none

BIO2200 Botany

Biologists with an interest in plant life may choose to specialize in botany. Beginning with the organic features of life, focusing on plants, students investigate the diversity of plant life and the basis for distinction amongst various species. With a deeper knowledge of plant structures and

10

variability, students consider the impact of plants in the modern world, including human interactions such as food production, building materials and medicine.

Prerequisite(s): none
Corerequisite(s):none

BSC1100 Building Science I

Students explore buildings and the inter-connectedness of the constituent features and systems that make up a building. In addition, to the scientific principles students learn about the methodologies and approaches used in this field of study while they broadedn their use of disciplinary concepts and vocabulary. The theoretical and methodological framework developed in this course carries through the program striving for building performance optimization by promoting energy efficiency, structural durability, low environmental impact and a healthy living environment.

Prerequisite(s): none
Corerequisite(s):none

CAD2300 Building Modelling I

Concepts come to life when shared and discussed with others. Students use AutoCAD to create computer-aided drafting. Focus is placed on the drawing and editing commands required to produce two-dimensional architectural drawings.

Prerequisite(s): DSN1100
Corerequisite(s):none

CAD2400 Building Modelling II

Being able to leverage technology to clearly represent detailed building models is necessary in clearly communicating project details. Through the introduction of Revit Architecture, students learn basic creation, editing commands, annotation and view controls in dealing with residential buildings. Students create an elementary residential model and drawing set employing basic concepts of Building Information Modeling (BIM).

Prerequisite(s): CAD2300 and DSN1100
Corerequisite(s):none

CON9111 Carpentry: Foundations, Floors, Walls and Basic Roofs

Built structures require a solid foundation, walls and roofs. Students develop basic carpentry and building skills. Emphasis is on developing the skills and knowledge necessary to lay out and construct a foundation and floor-system including differential levelling, location of building hubs, batter boards and footing formwork, foundation walls, columns, beams, joists and subfloors. Students frame wall and basic roof systems including wood stud framing, lintels,openings, sheathing, bracing and common rafters for a small building. Projects are constructed according to plans, schedules, and Ontario and National Building Codes.

Prerequisite(s): none
Corerequisite(s):none

CSV9100 Introduction to Heritage Conservation

Heritage conservation specialists from a wide variety of disciplines work with diverse communities to steward, conserve and revitalize buildings, sites, structures, districts, landscapes and other types of heritage resources around the world. Changing demographics, politics, wars, shifting cultural, social justice, legal, economic, and environmental forces all impact the conservation of tangible and intangible cultural resources. Students examine evolving conservation definitions, principles, and practices with a social justice lens, and a values-based approach to heritage conservation while balancing issues of integrity, authenticity and future uses. Discussions, guest lectures and site visits bring to light contemporary issues in the heritage conservation field.

Prerequisite(s): none
Corerequisite(s):none

CSV9200 Heritage Conservation in Practice: Past, Present, and Future

Lessons from the past inform both evolving contemporary heritage conservation practices and the future stewardship of cultural resources. A critical analysis of earlier decisions can shift perspectives about current and future interventions to conserve buildings, sites, monuments, structures, districts, and landscapes, both urban and rural. Students explore the impacts of evolving conservation philosophies, principles and practices on heritage conservation projects in local, national, and global contexts. Students examine approaches to conservation in relation to the experience and interpretation of historical events as well as cultural, social, political, legal, economic, and technological changes. Through case studies, guest lectures, site visits and in-class discussions, students discover the contexts in which the conservation of cultural resources continue to evolve.

Prerequisite(s): CSV9100
Corerequisite(s):none

CSV9300 Traditional Materials Science

Craftspeople require an understanding of the properties, performance and applications of materials and how they have been used in the past. Focus is on the physical, chemical and functional properties of traditional materials. Wood qualities such as grain orientation, workability, colour, moisture resistance and movement are examined at a practical and cellular level. Students explore mortar elements and ratios of binder components, aggregates and water and the implications for application and use. Other heritage media such as iron, glass, ceramics and finishing materials are explored. Through case studies, heritage research, experiments and practical applications, students examine how to identify, compare, select and incorporate traditional and contemporary materials for heritage projects.

Prerequisite(s): none
Corerequisite(s):none

CSV9310 Contextualizing Heritage

Tangible and intangible cultural resources have a profound impact on understanding heritage significance as well as stewardship and sustainability. Students examine context as both a physical and philosophical issue, considering a wide range of interrelated concepts beyond physical conditions including cultural, social, environmental, economic, technical, political, legal, regulatory, ethical, and moral aspects. Social justice and inclusivity are highlighted as students investigate a range of cultural resources and their surroundings from both a values-centered and community-based perspective. Group site visits, visual observations, interviews, and discussions encourage an exploration of the multi-dimensional context in which heritage conservation projects evolve.

Prerequisite(s): CSV9200
Corerequisite(s):none

CSV9400 Existing Buildings: Re-Use, Repair, and Maintenance

Any project on an existing building begins with a visual inspection and a condition assessment. Through the identification and analysis of a variety of common building deficiencies and hazards, students investigate repair strategies, and apply traditional and contemporary solutions. Risk management issues as result of man-made or natural disaster, and hazardous materials are examined. Hazardous materials include but are not limited to asbestos and lead identification and abatement; mould eradication; and knob and tube wiring removal and replacement. Conservation standards are explored and students perform hands-on restoration techniques covering many facets of conservation work. Students examine inspection reports, permits, site documents and contracts, combined with visual observation and condition analyses to develop a conservation plan.

Prerequisite(s): WOO9228 and WOO9306
Corerequisite(s):none

CSV9410 Business Fundamentals for Building Conservation Professionals

Conservation practitioners must understand the business aspects of the field to make informed and practical decisions. Students examine tools and strategies for delivering projects on time and within budget, as well as what to do when issues arise. Students explore the role of the proforma and the importance of interpreting and responding to bid documents including RFPs, RPQs, and RFIs. Operation and control concepts such as cash flow, billing, payment, change orders, insurance and bonding, material costs, human resources, business strategy, decision-making, ethics and social responsibility are discussed. Practical processes for recording, documenting, and as-built reporting are introduced.

Prerequisite(s): none
Corerequisite(s):none

CSV9500 Inventory and Evaluation Methodologies

The processes of inventory and evaluation are important tools for understanding cultural heritage resources. Rigorous and critical analysis is key to effectively identifying and managing change to cultural heritage resources, including condition-related issues. Students critique and apply a variety of inventory and evaluative methods through case studies, discussions, property tours, exploration and reflection, and guest lectures.

Prerequisite(s): none
Corerequisite(s):none

CSV9600 Project Management, Scheduling, and Estimating

A proper estimate is fundamental to the financial viability of a building conservation project and facilitates successful planning and execution of a plan. Students prepare project estimates with varying levels of detail to support reasonable and achievable plans. Emphasis is placed on condition assessments, accuracy of measurement, appropriate material take-off, addressing unexpected situations, and sound estimating principles. Strategies for responding to discrepancies between technical drawings and "as found" conditions are explored. Students develop plans to ensure that required elements for a project phase are in the right place at the right time. Using common project management tools, students coordinate the planning and scheduling of tasks faced in the workplace to support completion of projects on time and within budget.

Prerequisite(s): none
Corerequisite(s):none

CSV9700 Heritage and Site Management

Heritage Conservation Specialists often find themselves managing different types of heritage sites. Students examine diverse aspects of site management, including risk assessment and management, asset management, facilities management, financial management, and visitor management specific to the stewardship of cultural resources. Students develop condition assessment and site management skills while drawing upon their existing knowledge and skills through heritage site visits and analyse, case studies, scenario discussions and comparative analysis of different site types.

Prerequisite(s): CSV9310
Corerequisite(s):none

CSV9710 Building Conservation Project 1

Before starting any conservation project work, an evidence-based, detailed plan must be created. Working individually, students select a study site, and complete a survey and condition report including documentation of history, craft styles, materials and building evolution. Students design a research project, conduct preliminary research, and develop a project proposal. A formal proposal and plan, including reference to conservation guidelines and philosophies, cost estimates, timelines, drawings and other required documents is developed.

Prerequisite(s): none
Corerequisite(s):none

13

CSV9720 Heritage Conservation Plans

Cultural resource management is based on thoughtful and continuous planning and stewardship. A Conservation Plan is an essential planning and management tool for the long-term conservation of cultural resources. The conservation plan includes condition assessment, research methods, documentation, and project management to retain a cultural resource's significance. The plan also includes guidance for long-term viability, ongoing maintenance and repairs, and compliance with building codes, including accessibility. Students analyze conservation planning methodologies, statements on tangible and intangible heritage values along with contextual research and their own visual observations. Through in-class discussions, an analysis of case studies, research, interviews, and site visits, students will develop and present their own conservation plan for a cultural resource.

Prerequisite(s): CSV9310 and LAW9400
Corerequisite(s):none

CSV9800 Building Conservation Project 2

Building conservation projects are based on research and detailed planning. Students complete and execute a project based on an approved proposal. A final project submission documents the restoration, process, results of the intervention, and any 'next steps' or maintenance plans needed. Completed projects are incorporated into the student's personal portfolio of work to share with industry professionals and peers.

Prerequisite(s): CSV9710
Corerequisite(s):CSV9810

CSV9810 Capstone Research Seminar

The Building Conservation field requires practitioners with strong analytic and interpretive skills, who can conduct independent research and succinctly present synthesized ideas. Students consolidate theoretical and skills-based knowledge through a capstone study project in consultation with a supervisor. Students integrate, reflect upon, and apply knowledge essential to deep, purposeful learning experiences that contributes to the body of knowledge in building and heritage conservation. Projects may take various forms based on student's experience, area(s) of interest, and professional aspirations. Through the completion, presentation, and reflection of the project, students facilitate their transition from student to practitioner and lifelong learner.

Prerequisite(s): PHl2000
Corerequisite(s):CSV9800

CUL4000 Global Citizenship

Informed citizens in today's world appreciate the meaning of civic life at the local, national and global level. Students reflect on and develop a personal awareness of the meaning of freedoms, rights and obligations in a diverse global community and consider the political, social and economic drivers that influence patterns of human behaviour and the health of the planet. Based on general principles of global citizenship, students look beyond national borders to assess personal responsibilities related to the health and well-being of the planet and inhabitants. Students critically evaluate information related to environmental and social health, equipped with attitudes and behaviours that foster global environmental and social responsibility.

Prerequisite(s): ENL1100 and PHI1000
Corerequisite(s):none

CUL4000 Global Citizenship

Informed citizens in today's world appreciate the meaning of civic life at the local, national and global level. Students reflect on and develop a personal awareness of the meaning of freedoms, rights and obligations in a diverse global community and consider the political, social and economic drivers that influence patterns of human behaviour and the health of the planet. Based on general principles of global citizenship, students look beyond national borders to assess personal

responsibilities related to the health and well-being of the planet and inhabitants. Students critically evaluate information related to environmental and social health, equipped with attitudes and behaviours that foster global environmental and social responsibility.

Prerequisite(s): ENL1100 and PHI1000
Corerequisite(s):none

DSN1100 Technical Drawings

Effective communication through fundamentals of the design documentation process is key to a successful building project and solid technical drawings are the cornerstone of such communication. Students develop the skills to complete basic hand drawing techniques providing the ability to present the building related ideas and to read drawings from other sources. The specific skills include studies of forms and shapes using lines, textures and light sources. These skills are used to create first the plans and later a feeling of multi-dimensional spaces with the axonometry and perspective, both essential in their professional practice. Students also develop skills in scale drawing, basic geometric construction, and composition, assisted by modeling of simple forms and leading to a better understanding of the creation and reading of conceptual sketches, design development and working drawings of buildings and basic site plans within the urban context.

Prerequisite(s): none
Corerequisite(s):none

ENL1100 Communications and Academic Writing

Effective communication is an integral component of success in the workplace and in lifelong learning. Students review communication theory and its connection to expository writing. Frequent writing exercises encourage the development of content that is coherent, well organized and correct. Students consider and use strategies to generate ideas, to collect and organize information, to acknowledge sources, to identify and develop a thesis and to adapt format, style and tone for different purposes and audiences.

Prerequisite(s): none
Corerequisite(s):none

ENL2025 Interpersonal Communication

Effectively communicating with others, both professionally and personally, is an art that requires conscious development. Students address the techniques related to interpersonal communication challenges in the diverse workplace. Focus is on communication barriers, verbal and non-verbal communication, listening, team work, and relational dynamics. Through role play, analysis, and case studies, students engage in simulated and authentic interpersonal communication situations.

Prerequisite(s): ENL1100
Corerequisite(s):none

communication, listening, team work, and relational dynamics. Through role play, analysis, and case studies, students engage in simulated and authentic interpersonal communication situations.

Prerequisite(s): ENL1100
Corerequisite(s):none

ENL2025 Interpersonal Communication

Effectively communicating with others, both professionally and personally, is an art that requires conscious development. Students address the techniques related to interpersonal communication challenges in the diverse workplace. Focus is on communication barriers, verbal and non-verbal communication, listening, team work, and relational dynamics. Through role play, analysis, and case studies, students engage in simulated and authentic interpersonal communication situations.

Prerequisite(s): ENL1100
Corerequisite(s):none

ENL4016 World Literature

Exposure to broad sources of literature promotes an open-minded perspective on today's global society and encourages an appreciation of diversity and human differences. In World Literature, students explore key literary works from around the world and examine the socio-historical and cultural contexts in which authors wrote and set these texts. Students learn to identify common themes and apply literary and cultural theory to these works towards expanding critical thinking skills and developing an analytical vocabulary. Through seminar presentations, group discussions, debates, journaling, and creative writing, students grapple with literary representations of social, political, and cultural issues from around the world, gaining an appreciation of what it means to be responsible global citizens and possess the ability to listen to, question, and value diverse perspectives.

Prerequisite(s): ENL1100
Corerequisite(s):none

ENL4016 World Literature

Exposure to broad sources of literature promotes an open-minded perspective on today's global society and encourages an appreciation of diversity and human differences. In World Literature, students explore key literary works from around the world and examine the socio-historical and cultural contexts in which authors wrote and set these texts. Students learn to identify common themes and apply literary and cultural theory to these works towards expanding critical thinking skills and developing an analytical vocabulary. Through seminar presentations, group discussions, debates, journaling, and creative writing, students grapple with literary representations of social, political, and cultural issues from around the world, gaining an appreciation of what it means to be responsible global citizens and possess the ability to listen to, question, and value diverse perspectives.

Prerequisite(s): ENL1100
Corerequisite(s):none

ENL4100 Creative Writing

Whether for personal or public consumption, many people enjoy writing short fiction to express their creative energy while improving upon their overall writing abilities. Working with professional short stories as models, students examine the stylistic components that contribute to the excitement, atmosphere, and overall readability of short fiction. Students share their work and provide formal feedback on the work of others.

Prerequisite(s): ENL1100
Corerequisite(s):none

ENL4100 Creative Writing

Whether for personal or public consumption, many people enjoy writing short fiction to express

their creative energy while improving upon their overall writing abilities. Working with professional short stories as models, students examine the stylistic components that contribute to the excitement, atmosphere, and overall readability of short fiction. Students share their work and provide formal feedback on the work of others.

Prerequisite(s): ENL1100
Corerequisite(s):none

ENL4200 New Worlds and Alternative Realities: Speculative Fiction

Speculative fiction gathers together all those works of fiction in which new worlds or alternative realities are envisioned. Within this category of prose, students have the opportunity to explore the various sub-genres that present readers with new ways of thinking about some of the issues that face society. Students also develop skills in critical analysis using a variety of approaches and methodologies from literary studies.

Prerequisite(s): none
Corerequisite(s):none

ENL4300 The Brave New Worlds of Dystopian Fiction

Over the last century, dystopian fiction has become a remarkably popular genre in literature and film, particularly among young adults. Dystopian fiction often features oppressive totalitarian regimes, political dissent, environmental degradation and technological manipulation. In order to understand what a dystopia is, one must first understand what it is not. Through the study of representative works of literature and film, students examine the relationship between dystopic and utopic societies, and discover how dystopian fiction often functions as a creative outlet for authors and filmmakers to express the social, political, cultural, and technological anxieties of contemporary society. Students reflect on issues in the world around them, and develop an appreciation for how these concerns are mirrored in dystopian fiction.

Prerequisite(s): none
Corerequisite(s):none

ENL9800 Technical Writing for Reports and Grant Proposals

Clear and concise written and oral presentations are essential communication skills for the design,

development, construction, and financing of heritage conservation projects within the public, private and non-profit sectors. Students synthesize technical information for a variety of informed audiences to plan, write and present a technical report and a grant proposal to support a heritage conservation project. Students examine writing methodologies and create text tailored to project descriptions, regulatory agency briefs, specifications, financial evaluations, requests for proposals, grant applications, and clients' needs. Through case studies, discussions and in-class presentations, students consider the different perspectives of diverse audiences who often adjudicate proposals and approve projects.

Prerequisite(s): none
Corerequisite(s):none

FLS3101 French as a Second Language-Beginner 1

The French language is an asset when communicating in the workplace. Students with no prior knowledge of French acquire basic forms and structures to interact and communicate in a simple way with French speakers. Class instruction and practice, repeated feedback, and exposure to a variety of language samples support students to gain basic oral expression and comprehension using simple phrases that develop vocabulary, pronunciation, and comprehension. Students begin to appreciate cultural and linguistic differences when French is used in the workplace.

Prerequisite(s): none
Corerequisite(s):none

FLS3102 French as a Second Language-Beginner 2

The workplace benefits from having professionals with knowledge of the French language.

Students with basic knowledge of French gain more control over forms and structures to interact and communicate in a simple way with French speakers. Class instruction and practice, repeated feedback, and exposure to a variety of language samples provide students with opportunities to enhance their basic oral expression and comprehension using simple phrases that further develop vocabulary, pronunciation, and comprehension. Students deepen their knowledge of cultural and linguistic differences of French in the workplace.

Prerequisite(s): none
Corerequisite(s):none

FLS3102 French as a Second Language-Beginner 2

The workplace benefits from having professionals with knowledge of the French language. Students with basic knowledge of French gain more control over forms and structures to interact and communicate in a simple way with French speakers. Class instruction and practice, repeated feedback, and exposure to a variety of language samples provide students with opportunities to enhance their basic oral expression and comprehension using simple phrases that further develop vocabulary, pronunciation, and comprehension. Students deepen their knowledge of cultural and linguistic differences of French in the workplace.

Prerequisite(s): none
Corerequisite(s):none

GED2300 Indigenous Self-Representation in Contemporary Canadian Culture

Historically, Indigenous peoples and their cultures have been dramatically misrepresented and stereotyped in Canadian literature, music, visual arts, film, and television as a result of ongoing attempts to colonize, marginalize, romanticize, and assimilate them. Starting with an historical overview of the oppressive act of misrepresenting, appropriating, and stereotyping Indigenous peoples and their cultures in Canada, students explore how contemporary Indigenous artists have responded to these misrepresentations by subverting, critiquing, challenging, and changing the representations of Indigenous peoples and their cultures in their own artistic works. Significant works of contemporary literature, music, visual arts, film, and television created by contemporary Indigenous artists who give voice to their experiences in Canada serve as the basis for critical analysis and creative reflection on the processes of self-representation and cultural reclamation of Indigenous voices and identity in Canada.

Prerequisite(s): none

19

Corerequisite(s):none

GED2300 Indigenous Self-Representation in Contemporary Canadian Culture

Historically, Indigenous peoples and their cultures have been dramatically misrepresented and stereotyped in Canadian literature, music, visual arts, film, and television as a result of ongoing attempts to colonize, marginalize, romanticize, and assimilate them. Starting with an historical overview of the oppressive act of misrepresenting, appropriating, and stereotyping Indigenous peoples and their cultures in Canada, students explore how contemporary Indigenous artists have responded to these misrepresentations by subverting, critiquing, challenging, and changing the representations of Indigenous peoples and their cultures in their own artistic works. Significant works of contemporary literature, music, visual arts, film, and television created by contemporary Indigenous artists who give voice to their experiences in Canada serve as the basis for critical analysis and creative reflection on the processes of self-representation and cultural reclamation of Indigenous voices and identity in Canada.

Prerequisite(s): none
Corerequisite(s):none

GED2300 Indigenous Self-Representation in Contemporary Canadian Culture

Historically, Indigenous peoples and their cultures have been dramatically misrepresented and stereotyped in Canadian literature, music, visual arts, film, and television as a result of ongoing attempts to colonize, marginalize, romanticize, and assimilate them. Starting with an historical overview of the oppressive act of misrepresenting, appropriating, and stereotyping Indigenous peoples and their cultures in Canada, students explore how contemporary Indigenous artists have responded to these misrepresentations by subverting, critiquing, challenging, and changing the representations of Indigenous peoples and their cultures in their own artistic works. Significant works of contemporary literature, music, visual arts, film, and television created by contemporary Indigenous artists who give voice to their experiences in Canada serve as the basis for critical analysis and creative reflection on the processes of self-representation and cultural reclamation of Indigenous voices and identity in Canada.

Prerequisite(s): none
Corerequisite(s):none

GED2300 Indigenous Self-Representation in Contemporary Canadian Culture

Historically, Indigenous peoples and their cultures have been dramatically misrepresented and stereotyped in Canadian literature, music, visual arts, film, and television as a result of ongoing attempts to colonize, marginalize, romanticize, and assimilate them. Starting with an historical overview of the oppressive act of misrepresenting, appropriating, and stereotyping Indigenous peoples and their cultures in Canada, students explore how contemporary Indigenous artists have responded to these misrepresentations by subverting, critiquing, challenging, and changing the representations of Indigenous peoples and their cultures in their own artistic works. Significant works of contemporary literature, music, visual arts, film, and television created by contemporary Indigenous artists who give voice to their experiences in Canada serve as the basis for critical analysis and creative reflection on the processes of self-representation and cultural reclamation of Indigenous voices and identity in Canada.

Prerequisite(s): none
Corerequisite(s):none

GEO2300 Principles of Urban Planning

Increasingly cities and communities are feeling the pressure of expansion, and people from all walks of life feel disconnected from the processes, procedures, and decisions that are affecting everyday life. Students consider urban transformation with a focus on practicing sustainability by exploring innovations in land use, transportation, resource planning and economic development, resulting in employment opportunities, as well as healthy and vibrant cities. Students use local and regional activities as a starting point for developing a knowledge base for future social and community involvement. Research projects and assignments encourage students to identify the gaps between theoretical approaches to urban planning and the practical applications as evidenced in their local surroundings.

Prerequisite(s): none
Corerequisite(s):none

GEO2300 Principles of Urban Planning

Increasingly cities and communities are feeling the pressure of expansion, and people from all walks of life feel disconnected from the processes, procedures, and decisions that are affecting everyday life. Students consider urban transformation with a focus on practicing sustainability by exploring innovations in land use, transportation, resource planning and economic development, resulting in employment opportunities, as well as healthy and vibrant cities. Students use local and regional activities as a starting point for developing a knowledge base for future social and community involvement. Research projects and assignments encourage students to identify the gaps between theoretical approaches to urban planning and the practical applications as evidenced in their local surroundings.

Prerequisite(s): none
Corerequisite(s):none

GEP1001 Cooperative Education and Job Readiness

Students are guided through a series of activities that prepare them to conduct a professional job search and succeed in the workplace. Through a detailed orientation students learn the cooperative education program policies and procedures related to searching and securing a work term opportunity. Students identify their strengths and transferable skills and participate in workshop-style sessions that focus on cover letter and resume development, interview techniques and job search strategies. Students learn how to navigate a web-based resource centre, which is used to post employment and cooperative education job opportunities. Students reflect on workplace success, ethics and responsibilities.

Prerequisite(s): none
Corerequisite(s):none

LAN3101 Spanish-Beginner 1

The Spanish language is an asset when communicating in the workplace. Students with no prior knowledge of Spanish acquire basic forms and structures to interact and communicate in a simple way with Spanish speakers. Class instruction and practice, repeated feedback, and exposure to a variety of language samples support students to gain basic oral expression and comprehension using simple phrases that develop vocabulary, pronunciation, and comprehension. Students begin to appreciate cultural and linguistic differences when Spanish is used in the workplace.

Prerequisite(s): none
Corerequisite(s):none

LAN3101 Spanish-Beginner 1

The Spanish language is an asset when communicating in the workplace. Students with no prior knowledge of Spanish acquire basic forms and structures to interact and communicate in a simple way with Spanish speakers. Class instruction and practice, repeated feedback, and exposure to a variety of language samples support students to gain basic oral expression and comprehension using simple phrases that develop vocabulary, pronunciation, and comprehension. Students begin to appreciate cultural and linguistic differences when Spanish is used in the workplace.

Prerequisite(s): none
Corerequisite(s):none

LAN3101 Spanish-Beginner 1

The Spanish language is an asset when communicating in the workplace. Students with no prior knowledge of Spanish acquire basic forms and structures to interact and communicate in a simple way with Spanish speakers. Class instruction and practice, repeated feedback, and exposure to a variety of language samples support students to gain basic oral expression and comprehension using simple phrases that develop vocabulary, pronunciation, and comprehension. Students begin to appreciate cultural and linguistic differences when Spanish is used in the workplace.

Prerequisite(s): none
Corerequisite(s):none

LAN3101 Spanish-Beginner 1

The Spanish language is an asset when communicating in the workplace. Students with no prior knowledge of Spanish acquire basic forms and structures to interact and communicate in a simple way with Spanish speakers. Class instruction and practice, repeated feedback, and exposure to a variety of language samples support students to gain basic oral expression and comprehension using simple phrases that develop vocabulary, pronunciation, and comprehension. Students begin to appreciate cultural and linguistic differences when Spanish is used in the workplace.

Prerequisite(s): none
Corerequisite(s):none

LAN3102 Spanish-Beginner 2

The workplace benefits from having professionals with knowledge of the Spanish language. Students with basic knowledge of Spanish gain more control over forms and structures to interact and communicate in a simple way with Spanish speakers. Class instruction and practice, repeated feedback, and exposure to a variety of language samples provide students with opportunities to enhance their basic oral expression and comprehension using simple phrases that further develop vocabulary, pronunciation, and comprehension. Students deepen their knowledge of cultural and linguistic differences of Spanish in the workplace.

Prerequisite(s): none
Corerequisite(s):none

LAN3102 Spanish-Beginner 2

The workplace benefits from having professionals with knowledge of the Spanish language. Students with basic knowledge of Spanish gain more control over forms and structures to interact and communicate in a simple way with Spanish speakers. Class instruction and practice, repeated feedback, and exposure to a variety of language samples provide students with opportunities to enhance their basic oral expression and comprehension using simple phrases that further develop vocabulary, pronunciation, and comprehension. Students deepen their knowledge of cultural and linguistic differences of Spanish in the workplace.

Prerequisite(s): none
Corerequisite(s):none

LAN3102 Spanish-Beginner 2

The workplace benefits from having professionals with knowledge of the Spanish language. Students with basic knowledge of Spanish gain more control over forms and structures to interact and communicate in a simple way with Spanish speakers. Class instruction and practice, repeated feedback, and exposure to a variety of language samples provide students with opportunities to enhance their basic oral expression and comprehension using simple phrases that further develop vocabulary, pronunciation, and comprehension. Students deepen their knowledge of cultural and linguistic differences of Spanish in the workplace.

Prerequisite(s): none
Corerequisite(s):none

LAW2014 Law

The reach of the rule of law extends into our lives on a daily basis. As much as it is present in our lives, very few people are aware of the processes, procedures and theories that guide and underpin the development and maintenance of a functional legal system. With attention to key historical figures and events, students explore the scope, jurisdiction, and key concepts of the sub-disciplines within the field of law. Through an introduction to legal arguments and methodologies, students distinguish between various legal systems and wrestle with the difference between law and justice.

Prerequisite(s): none
Corerequisite(s):none

LAW2014 Law

The reach of the rule of law extends into our lives on a daily basis. As much as it is present in our lives, very few people are aware of the processes, procedures and theories that guide and underpin the development and maintenance of a functional legal system. With attention to key historical figures and events, students explore the scope, jurisdiction, and key concepts of the sub-disciplines within the field of law. Through an introduction to legal arguments and methodologies, students distinguish between various legal systems and wrestle with the difference between law and justice.

Prerequisite(s): none
Corerequisite(s):none

LAW9400 Heritage Planning: an Introduction to Law, Policy, and Process

Many aspects of the heritage conservation field are highly regulated. Emphasis is on the theoretical and practical aspects of heritage conservation planning, with a particular focus on Ontario and Canada. Students explore and engage with a variety of topics including the legal aspects of heritage planning; regulated evaluation processes; permit applications and review processes; how to address conflicts between different legislation; and some of the practical management challenges of the field. Drawing upon the framework of "understand, plan, do" these topics are explored through a variety of guest speakers, tours, practical scenarios, films, discussions, and group work.

Prerequisite(s): none
Corerequisite(s):none

MAT9105 Mathematics for the Craftsperson

Fundamental trades calculations, applied mathematics, and geometric constructions have been used by tradespeople for centuries and are the basis of all our built heritage. Topics include imperial measurement, fundamentals of perimeter, area and volume measurement, principles of ratio and proportion, basic trigonometry and geometry. Linear constructions, layout using geometric principles, the golden mean and classical moulding profiles are explored. Students develop the problem-solving skills necessary for success in the trades with mathematical exercises that are used daily by practicing carpenters.

Prerequisite(s): none
Corerequisite(s):none

PHI1000 Logic and Critical Thinking

Logic and critical-thinking skills play an important role in both daily life and ongoing academic studies. As foundational skills, they support both the development and assessment of ideas, concepts and courses of action that are presented on a daily basis. Approaching the subject from both a practical and theoretical perspective, students hone their skills in analysis, argumentation, reasoning and persuasion. A range of topics and thinkers provide material with which students can exercise and apply their skills.

Prerequisite(s): none
Corerequisite(s):none

PHI2000 Introduction to Research

Academic research requires students to possess a fundamental knowledge of accepted methodologies and practices. An overview of the research process and tools prepares students to engage in scholarly work. Emphasis is on evaluation, selection and documentation of primary and secondary sources, as well as the development of a research project.

Prerequisite(s): ENL1100 and PHI1000
Corerequisite(s):none

PHI2002 Ethical Decision Making

To avoid potential prosecution, companies and their employees are well-advised to engage in ethical decision-making practices in all business situations. Students examine ethical concepts and principles, compare a variety of ethical decision-making models and utilize these principles and models to make ethically sound decisions in a variety of contexts. Students also design a code of ethics, practice making ethically- based decisions and develop the analytical skills required to recognize, evaluate and resolve ethical dilemmas in the workplace.

Prerequisite(s): PHI1000
Corerequisite(s):none

PHI2002 Ethical Decision Making

To avoid potential prosecution, companies and their employees are well-advised to engage in ethical decision-making practices in all business situations. Students examine ethical concepts and principles, compare a variety of ethical decision-making models and utilize these principles and models to make ethically sound decisions in a variety of contexts. Students also design a code of ethics, practice making ethically- based decisions and develop the analytical skills required to recognize, evaluate and resolve ethical dilemmas in the workplace.

Prerequisite(s): PHI1000
Corerequisite(s):none

PHI2002 Ethical Decision Making

To avoid potential prosecution, companies and their employees are well-advised to engage in ethical decision-making practices in all business situations. Students examine ethical concepts and principles, compare a variety of ethical decision-making models and utilize these principles and models to make ethically sound decisions in a variety of contexts. Students also design a code of ethics, practice making ethically- based decisions and develop the analytical skills required to recognize, evaluate and resolve ethical dilemmas in the workplace.

Prerequisite(s): PHI1000
Corerequisite(s):none

PHI2002 Ethical Decision Making

To avoid potential prosecution, companies and their employees are well-advised to engage in ethical decision-making practices in all business situations. Students examine ethical concepts and principles, compare a variety of ethical decision-making models and utilize these principles and models to make ethically sound decisions in a variety of contexts. Students also design a code of ethics, practice making ethically- based decisions and develop the analytical skills required to recognize, evaluate and resolve ethical dilemmas in the workplace.

Prerequisite(s): PHI1000
Corerequisite(s):none

PHI4000 Philosophy and Popular Culture

Many facets of today's popular culture engage, directly or indirectly, with the concerns of a variety

of philosophical traditions. Drawing on a number of examples, students explore both the way popular culture permeates and spreads through society and the way it interprets and presents philosophical questions. Students develop skills and techniques for assessing the soundness and validity of thought experiments.

Prerequisite(s): PHI1000
Corerequisite(s):none

PHI4000 Philosophy and Popular Culture

Many facets of today's popular culture engage, directly or indirectly, with the concerns of a variety of philosophical traditions. Drawing on a number of examples, students explore both the way popular culture permeates and spreads through society and the way it interprets and presents philosophical questions. Students develop skills and techniques for assessing the soundness and validity of thought experiments.

Prerequisite(s): PHI1000
Corerequisite(s):none

PHI4002 The Philosophy of Drugs

Drugs are everywhere: professionals prescribe them to us to make us "better"; we take them recreationally; we give them to our children, pets and other loved ones; we buy them on the streets and in grocery stores. What are "drugs"? Why are some drugs legal and others not? How do drugs get to market? What ethical issues are relevant in a global drug industry? Are current intellectual property regimes appropriate if the goal of drug research is to promote benefits to society? Students critically examine these, and other, questions through the lens of historical and contemporary ethical, philosophical and legal theories and arguments. Students engage in various peer-oriented learning activities throughout the course.

Prerequisite(s): none
Corerequisite(s):none

PHI4003 The Philosophy of Love and Sex

Love and sex are central to the human condition, and have been topics of academic inquiry and controversy throughout history. Various practices surrounding love and sex are celebrated in Western culture, such as monogamy and marriage, while other practices, such as polygamy and pedophilia, are condemned. Why is this? Students critically explore these and other issues surrounding love and sex using examples from popular music, movies and literature, framing those issues with the help of historical and contemporary philosophical theories and arguments. Students engage in various peer-oriented learning activities throughout the course.

Prerequisite(s): none
Corerequisite(s):none

PHI4003 The Philosophy of Love and Sex

Love and sex are central to the human condition, and have been topics of academic inquiry and

26

controversy throughout history. Various practices surrounding love and sex are celebrated in Western culture, such as monogamy and marriage, while other practices, such as polygamy and pedophilia, are condemned. Why is this? Students critically explore these and other issues surrounding love and sex using examples from popular music, movies and literature, framing those issues with the help of historical and contemporary philosophical theories and arguments. Students engage in various peer-oriented learning activities throughout the course.

Prerequisite(s): none
Corerequisite(s):none

PHI4004 Technology, Society and the Environment

Environmental issues have come to occupy a central place in the marketplace, politics, policy, and society at large. Owing largely to the many environmental consequences that have accompanied industrialization, we humans have been forced to rethink the complex relationship between technology, society and the environment. Students investigate philosophical concepts and theories surrounding technology, society and the environment including: the "naturalness" of technology, sustainability and animal rights. Students critically examine course material by focusing on questions such as: What is nature, and what role do/should humans occupy in it? What do we owe non-human organisms? What do we owe future generations? Students engage in various peer-oriented learning activities throughout the course.

Prerequisite(s): none
Corerequisite(s):none

PHI4100 Survival in the Information Age: Risk and the Media

On an almost daily basis, the media, through its various outlets - television, radio, web sites, RSS, and podcasts - reports on issues that address our wellbeing. Through discussions, readings, and assignments, students enhance their ability to interpret and question information presented by the media by better understanding the inherent risks. Issues like alternative medicine (i.e. vaccinations) and socio-legal issues (i.e. bullying, hacking, surveillance, privacy) provide grounds for students to use principles from the social science as a means to think critically about real and perceived risks in daily life.

Prerequisite(s): PHI1000
Corerequisite(s):none

Corerequisite(s):none

PHI9500 Ethics and Professional Practice

Ethics and Codes of Practice are critical to professional practice and are designed to promote honesty, integrity, and professionalism. Students explore, analyze, and apply different ethical frameworks, as well as examples of professional codes of practice/conduct as applied to building and heritage conservation projects. This includes but is not limited to research, conservation and professional ethics, as well as ethical management of finances, contracts and hiring practices. Students engage with these topics through ethical scenarios, guest lectures, and films.

Prerequisite(s): none
Corerequisite(s):none

PHY4000 Black Holes, Big Bangs and the Cosmos

The dynamic and exciting field of Cosmology outlines our current understanding of the Universe from its start, at the so-called Big Bang, through the ensuing 13 plus billion years to the present and beyond. Students learn how to discuss our present understanding of the three phases of the Universe as well as its five part make up, with matter making up only 4% of the whole. Students explain our knowledge of the various phases of evolution of the Cosmos and also the latest theories and experiments that are trying to address our uncertainties. Throughout the course, students evaluate and debate many of today's ideas and concepts revolving around cosmology.

Prerequisite(s): none
Corerequisite(s):none

PHY4000 Black Holes, Big Bangs and the Cosmos

The dynamic and exciting field of Cosmology outlines our current understanding of the Universe from its start, at the so-called Big Bang, through the ensuing 13 plus billion years to the present and beyond. Students learn how to discuss our present understanding of the three phases of the Universe as well as its five part make up, with matter making up only 4% of the whole. Students explain our knowledge of the various phases of evolution of the Cosmos and also the latest theories and experiments that are trying to address our uncertainties. Throughout the course, students evaluate and debate many of today's ideas and concepts revolving around cosmology.

Prerequisite(s): none
Corerequisite(s):none

PSI2000 Navigating Canada's Political Landscape

A developed knowledge of government and politics is key to an effective participation in public life. Drawing on current events, students explore the societal, cultural and constitutional context along with the major political parties and institutions that shape the Canadian political landscape. Students develop skills and techniques that allow them to position politicians, parties, and policies, past and present, on the spectrum of political ideology and Canadian political traditions. Working together and individually, students analyze issues from the perspective of various political approaches.

Prerequisite(s): none
Corerequisite(s):none

PSI2000 Navigating Canada's Political Landscape

A developed knowledge of government and politics is key to an effective participation in public life. Drawing on current events, students explore the societal, cultural and constitutional context along with the major political parties and institutions that shape the Canadian political landscape. Students develop skills and techniques that allow them to position politicians, parties, and policies, past and present, on the spectrum of political ideology and Canadian political traditions. Working together and individually, students analyze issues from the perspective of various political approaches.

Prerequisite(s): none
Corerequisite(s):none

PSI2000 Navigating Canada's Political Landscape

A developed knowledge of government and politics is key to an effective participation in public life. Drawing on current events, students explore the societal, cultural and constitutional context along with the major political parties and institutions that shape the Canadian political landscape. Students develop skills and techniques that allow them to position politicians, parties, and policies, past and present, on the spectrum of political ideology and Canadian political traditions. Working together and individually, students analyze issues from the perspective of various political approaches.

Prerequisite(s): none
Corerequisite(s):none

PSI2000 Navigating Canada's Political Landscape

A developed knowledge of government and politics is key to an effective participation in public life. Drawing on current events, students explore the societal, cultural and constitutional context along with the major political parties and institutions that shape the Canadian political landscape. Students develop skills and techniques that allow them to position politicians, parties, and policies, past and present, on the spectrum of political ideology and Canadian political traditions. Working together and individually, students analyze issues from the perspective of various political approaches.

Prerequisite(s): none
Corerequisite(s):none

PSY2100 Introductory Psychology

With its applications to behaviour and personality, psychology extends its reach into many aspects of our personal lives. The broad applications of this social science in both an applied and theoretical context are premised on a number of fundamental principles. Students explore historical breakthroughs that define the current boundaries of the discipline and interact with a number of the foundational concepts that resonate throughout daily life and popular culture. Students develop an introductory knowledge in the various schools of thought within the discipline.

Prerequisite(s): none
Corerequisite(s):none

PSY2100 Introductory Psychology

With its applications to behaviour and personality, psychology extends its reach into many aspects of our personal lives. The broad applications of this social science in both an applied and theoretical context are premised on a number of fundamental principles. Students explore historical breakthroughs that define the current boundaries of the discipline and interact with a number of the foundational concepts that resonate throughout daily life and popular culture. Students develop an introductory knowledge in the various schools of thought within the discipline.

Prerequisite(s): none
Corerequisite(s):none

PSY2100 Introductory Psychology

With its applications to behaviour and personality, psychology extends its reach into many aspects of our personal lives. The broad applications of this social science in both an applied and theoretical context are premised on a number of fundamental principles. Students explore historical breakthroughs that define the current boundaries of the discipline and interact with a number of the foundational concepts that resonate throughout daily life and popular culture. Students develop an introductory knowledge in the various schools of thought within the discipline.

Prerequisite(s): none

29

Corerequisite(s):none

PSY2100 Introductory Psychology

With its applications to behaviour and personality, psychology extends its reach into many aspects of our personal lives. The broad applications of this social science in both an applied and theoretical context are premised on a number of fundamental principles. Students explore historical breakthroughs that define the current boundaries of the discipline and interact with a number of the foundational concepts that resonate throughout daily life and popular culture. Students develop an introductory knowledge in the various schools of thought within the discipline.

Prerequisite(s): none
Corerequisite(s):none

QUA2000 Statistics

Students explore fundamental statistical concepts and use statistical software to summarize, analyze and present both descriptive and inferential statistics. Topics include central tendency, variation, probability, central limit theorem, sampling, estimation, hypothesis testing and simple regression and correlation. These theoretical concepts are explained through practical examples from various sectors. Students develop the required background for further study related to research.

Prerequisite(s): none
Corerequisite(s):none

SCI2000 Environmental Science

Environmental science is an interdisciplinary study of how the earth works, human interaction with the earth and how to address the existing environmental problems. Students explore natural capital and the degradation. Students engage in case studies, critical thinking and analysis of alternatives in exploring solutions and trade-offs in trying to address degradation.

Prerequisite(s): ENL1100 and PHI1000
Corerequisite(s):none

SCI2000 Environmental Science

Environmental science is an interdisciplinary study of how the earth works, human interaction with the earth and how to address the existing environmental problems. Students explore natural capital and the degradation. Students engage in case studies, critical thinking and analysis of alternatives in exploring solutions and trade-offs in trying to address degradation.

Prerequisite(s): ENL1100 and PHI1000
Corerequisite(s):none

SCI2000 Environmental Science

Environmental science is an interdisciplinary study of how the earth works, human interaction with the earth and how to address the existing environmental problems. Students explore natural capital and the degradation. Students engage in case studies, critical thinking and analysis of alternatives in exploring solutions and trade-offs in trying to address degradation.

Prerequisite(s): ENL1100 and PHI1000
Corerequisite(s):none

SCI2000 Environmental Science

Environmental science is an interdisciplinary study of how the earth works, human interaction with the earth and how to address the existing environmental problems. Students explore natural capital and the degradation. Students engage in case studies, critical thinking and analysis of alternatives in exploring solutions and trade-offs in trying to address degradation.

Prerequisite(s): ENL1100 and PHI1000
Corerequisite(s):none

SOC2000 Introduction to Sociology

When working with individuals and groups it is important to understand both the background and influences present. Students develop a familiarity with sociological theories and methodological approaches used to study individual and group behaviours. Students also examine variables that include culture, social class, race, and gender and how these variables may impact work with diverse individuals and groups.

Prerequisite(s): ENL1100
Corerequisite(s):none

SOC2000 Introduction to Sociology

When working with individuals and groups it is important to understand both the background and influences present. Students develop a familiarity with sociological theories and methodological approaches used to study individual and group behaviours. Students also examine variables that include culture, social class, race, and gender and how these variables may impact work with diverse individuals and groups.

Prerequisite(s): ENL1100
Corerequisite(s):none

SOC2000 Introduction to Sociology

When working with individuals and groups it is important to understand both the background and influences present. Students develop a familiarity with sociological theories and methodological approaches used to study individual and group behaviours. Students also examine variables that include culture, social class, race, and gender and how these variables may impact work with diverse individuals and groups.

Prerequisite(s): ENL1100
Corerequisite(s):none

SOC2000 Introduction to Sociology

When working with individuals and groups it is important to understand both the background and influences present. Students develop a familiarity with sociological theories and methodological approaches used to study individual and group behaviours. Students also examine variables that include culture, social class, race, and gender and how these variables may impact work with diverse individuals and groups.

Prerequisite(s): ENL1100
Corerequisite(s):none

SOC2001 Anti-Racism: Theory and Practice

Anti-racism is the practice of identifying, challenging, and changing the values, structures, and behaviours that perpetuate systemic racism. Students explore concepts of anti-oppressive practice, anti-racist pedagogy, diversity, and inclusion at the personal, societal, and institutional levels. Students develop an understanding of historical and present-day groups and figures that challenge oppressive structures in Canadian society. Through various learning activities and discussion boards, students will develop the necessary knowledge, attitude, and skills to become an authentic ally within society.

Prerequisite(s): none
Corerequisite(s):none

SOC2001 Anti-Racism: Theory and Practice

31

Anti-racism is the practice of identifying, challenging, and changing the values, structures, and behaviours that perpetuate systemic racism. Students explore concepts of anti-oppressive practice, anti-racist pedagogy, diversity, and inclusion at the personal, societal, and institutional levels. Students develop an understanding of historical and present-day groups and figures that challenge oppressive structures in Canadian society. Through various learning activities and discussion boards, students will develop the necessary knowledge, attitude, and skills to become an authentic ally within society.

Prerequisite(s): none
Corerequisite(s):none

SOC2001 Anti-Racism: Theory and Practice

Anti-racism is the practice of identifying, challenging, and changing the values, structures, and behaviours that perpetuate systemic racism. Students explore concepts of anti-oppressive practice, anti-racist pedagogy, diversity, and inclusion at the personal, societal, and institutional levels. Students develop an understanding of historical and present-day groups and figures that challenge oppressive structures in Canadian society. Through various learning activities and discussion boards, students will develop the necessary knowledge, attitude, and skills to become an authentic ally within society.

Prerequisite(s): none
Corerequisite(s):none

SOC2001 Anti-Racism: Theory and Practice

Anti-racism is the practice of identifying, challenging, and changing the values, structures, and behaviours that perpetuate systemic racism. Students explore concepts of anti-oppressive practice, anti-racist pedagogy, diversity, and inclusion at the personal, societal, and institutional levels. Students develop an understanding of historical and present-day groups and figures that challenge oppressive structures in Canadian society. Through various learning activities and discussion boards, students will develop the necessary knowledge, attitude, and skills to become an authentic ally within society.

Prerequisite(s): none
Corerequisite(s):none

SOC4000 Criminology

The interdisciplinary study of social science examining the individual and social aspects of crime is known as criminology. Students work through an introduction to the social science perspective on crime. Presentations, discussions, and assignments allow students to investigate the various theoretical positions related to crime and criminal behaviour. Working forward from the types and definitions of crime, students trace some of the links between government policy and the impacts of these policies on both society and the individual.

Prerequisite(s): SOC2000
Corerequisite(s):none

SOC4000 Criminology

The interdisciplinary study of social science examining the individual and social aspects of crime is known as criminology. Students work through an introduction to the social science perspective on crime. Presentations, discussions, and assignments allow students to investigate the various theoretical positions related to crime and criminal behaviour. Working forward from the types and definitions of crime, students trace some of the links between government policy and the impacts of these policies on both society and the individual.

Prerequisite(s): SOC2000
Corerequisite(s):none

SOC4001 Global Perspectives

Sociology, through its exploration of the organization of society and the connections between people and their surroundings, provides new ways of looking at the world. Using fundamental knowledge in the field of sociology, students analyze globalization and its impact on Canadian society. Students take opposing views to debate the opportunities and challenges that come with globalization.

Prerequisite(s): SOC2000
Corerequisite(s):none

SOC4001 Global Perspectives

Sociology, through its exploration of the organization of society and the connections between people and their surroundings, provides new ways of looking at the world. Using fundamental knowledge in the field of sociology, students analyze globalization and its impact on Canadian society. Students take opposing views to debate the opportunities and challenges that come with globalization.

Prerequisite(s): SOC2000
Corerequisite(s):none

WKT9400 Co-Op Work Term 1

Immediately following semester four, the first co-op placement provides students with experiential opportunities within the construction industry and related industries. The first work term centres on attaining entry-level positions that immerse students in a variety of activities allowing them to apply principles and concepts developed over the first two years of study. Students returning from Co-op Placement I bring additional practical considerations to their third year of study.

Prerequisite(s): WOO9228
Corerequisite(s):none

WKT9500 Co-Op Work Term 2

The second co-op placement provides students with experiential opportunities within the construction industry and related industries. Students attain entry-level positions to apply principles and concepts developed over the first three years of study and the previous work term. Students returning from co-op placements bring additional practical considerations to their study.

Prerequisite(s): WKT9400
Corerequisite(s):none

WKT9600 Co-Op Work Term 3

The third co-op placement provides students with experiential opportunities within the construction and heritage industries. Students attain entry-level positions to apply principles and concepts developed over the years of study and the previous work terms. Students returning from co-op placements bring additional practical considerations to their study.

Prerequisite(s): WKT9500
Corerequisite(s):none

WOO9226 Joinery: Architectural Millwork

Millwork provides the finishing touches to a building and helps to define its character. Students learn skills and techniques for turning and bending wood, and for fabricating, reproducing, and installing traditional casings, baseboards, moldings and other millwork pieces. Students are introduced to basic orders of architecture and geometric shapes from which traditional millwork evolved.

Prerequisite(s): DSN1100 and MAT9105 and WOO9254 or DRA9113 and MAT9105 and WOO9254
Corerequisite(s):none

WOO9228 Carpentry: Roofs and Finishes

Wood-framed houses may require complex roof systems and finishes. Students explore traditional gable and hip roof framing including regular and irregular hip, valley, and jack rafters. Various contemporary and traditional exterior finishes are investigated. Working in teams, students complete the layout and installation of siding, roof finishes, windows, doors and exterior trim for a small building. Emphasis is placed on the understanding of traditional practices and techniques.

Prerequisite(s): CON9111 and MAT9105 or CON9111 and MAT9116
Corerequisite(s):none

WOO9254 Joinery Fundamentals

Techniques for joining wood together are rooted in the knowledge and skills that have been passed down for thousands of years. The selection, use and maintenance of hand tools is examined and practiced. Students research and compare woodworking techniques, and expand on their hand drafting fundamentals by reading, interpreting and developing plans and shop drawings. Students also develop procedures for a variety of projects and learn the safe and efficient use of both power hand tools and stationary machinery. By applying traditional joinery in the building of a variety of hands-on projects, students develop a sound base for a future in joinery and woodworking.

Prerequisite(s): none
Corerequisite(s):none

WOO9303 Traditional Carpentry: Timber Framing

Timber framing involves just as much art as science. Students apply specialized and time-honoured layout and joinery techniques to construct a timber frame structure. Restoration and repair techniques are investigated. Through inspections of barns from the 19th and early 20th centuries students develop an appreciation of the history, craft, and the strength and endurance of timber frame structures.

Prerequisite(s): WOO9228 and WOO9262 or DSN1100 and WOO9228
Corerequisite(s):none

WOO9306 Traditional Joinery: Doors and Windows

Doors and windows are an integral part of the aesthetic, design, and character of a building. Students investigate the theory and production of traditional windows and doors. Close examination of these two elements reveals and showcase the skill of the joiner who created them. The ability to select appropriate joinery and construction techniques is essential for the long-term durability and aesthetics of doors and windows. By following comprehensive organizational procedures and practicing various joints, students produce a traditional window and scaled door.

Prerequisite(s): DSN1100 and WOO9226 or WOO9226 and WOO9262
Corerequisite(s):none

WOO9334 Traditional Joinery: Staircasing

Designing and building traditional staircases merges the skills of carpentry and joinery. Students learn how to build a comfortable, safe, building code compliant staircase. Staircase design, stringer layout, balustrade assembly and staircase specific joinery are investigated in practical detail.

Prerequisite(s): WOO9306
Corerequisite(s):none

WOO9402 Traditional Carpentry: Log Building

The rustic elegance and warmth of natural wood, combined with technological innovation come together in the creation of sustainable log buildings. The tools, techniques and materials used to build heritage log buildings are explored in theory and in practice. Heritage log buildings are investigated to explore traditional material preparation, joinery techniques and foundation

34

strategies. Students construct a hand-hewn, dovetailed log building using traditional methods.

Prerequisite(s): DSN1100 and WOO9228 or WOO9228 and WOO9262
Corerequisite(s):none