2018-2019 Undergraduate Calendar

The information published in this Undergraduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2018-2019 academic year, including the Summer Semester 2018, the Fall Semester 2018 and the Winter Semester 2019.

For your convenience the Undergraduate Calendar is available in PDF format.

If you wish to link to the Undergraduate Calendar please refer to the Linking Guidelines.

The University is a full member of:

• Universities Canada

Contact Information:

University of Guelph
Guelph, Ontario, Canada
N1G 2W1
519-824-4120
http://www.uoguelph.ca

Revision Information:

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 1, 2018</td>
<td>Initial Publication</td>
</tr>
<tr>
<td>July 18, 2018</td>
<td>Second Publication</td>
</tr>
<tr>
<td>September 20, 2018</td>
<td>Third Publication</td>
</tr>
<tr>
<td>October 29, 2018</td>
<td>Fourth Publication</td>
</tr>
</tbody>
</table>
Disclaimer

University of Guelph 2018

The information published in this Undergraduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2018-2019 academic year, including the Summer Semester 2018, the Fall Semester 2018 and the Winter Semester 2019.

The University reserves the right to change without notice any information contained in this calendar, including fees, any rule or regulation pertaining to the standards for admission to, the requirements for the continuation of study in, and the requirements for the granting of degrees or diplomas in any or all of its programs. The publication of information in this calendar does not bind the University to the provision of courses, programs, schedules of studies, or facilities as listed herein.

The University will not be liable for any interruption in, or cancellation of, any academic activities as set forth in this calendar and related information where such interruption is caused by fire, strike, lock-out, inability to procure materials or trades, restrictive laws or governmental regulations, actions taken by faculty, staff or students of the University or by others, civil unrest or disobedience, public health emergencies, or any other cause of any kind beyond the reasonable control of the University.

In the event of a discrepancy between a print version (downloaded) and the Web version, the Web version will apply.

Published by: Enrolment Services
Introduction

Collection, Use and Disclosure of Personal Information

Personal information is collected under the authority of the University of Guelph Act (1964), and in accordance with Ontario's Freedom of Information and Protection of Privacy Act (FIPPA) [http://www.e-laws.gov.on.ca/index.html]. This information is used by University officials in order to carry out their authorized academic and administrative responsibilities and also to establish a relationship for alumni and development purposes. Certain personal information is disclosed to external agencies, including the Ontario Universities Application Centre, the Ministry of Advanced Education and Skills Development, and Statistics Canada, for statistical and planning purposes, and is disclosed to other individuals or organizations in accordance with the Office of Registrarial Services Departmental Policy on the Release of Student Information. For details on the use and disclosure of this information call the Office of Registrarial Services at the University at (519) 824-4120 or see [http://www.uoguelph.ca/Registrar/Registrar/index.cfm?index].

Disclosure of Personal Information to the Ontario Ministry of Advanced Education and Skills Development

The University of Guelph is committed to the integrity of its student records, therefore, each student is required to provide either on application for admission or on personal data forms required for registration, his/her complete, legal name. Any requests to change a name, by means of alteration, deletion, substitution or addition, must be accompanied by appropriate supporting documentation.

Address for University Communication

Depending on the nature and timing of the communication, the University may use one of these addresses to communicate with students. Students are, therefore, responsible for checking all of the following on a regular basis:

Email Address

The University issued email address is considered an official means of communication with the student and will be used for correspondence from the University. Students are responsible for monitoring their University-issued email account regularly. See Section I--Statement of Students' Academic Responsibilities for more information.

Home Address

Students are responsible for maintaining a current mailing address with the University. Address changes can be made, in writing, through Enrolment Services.

Name Changes

The University of Guelph is committed to the integrity of its student records, therefore, each student is required to provide either on application for admission or on personal data forms required for registration, his/her complete, legal name. Any requests to change a name, by means of alteration, deletion, substitution or addition, must be accompanied by appropriate supporting documentation.

Student Confidentiality and Release of Student Information Policy Excerpt

The University undertakes to protect the privacy of each student and the confidentiality of his or her record. To this end the University shall refuse to disclose personal information to any person other than the individual to whom the information relates where disclosure would constitute an unjustified invasion of the personal privacy of that person or of any other individual. All members of the University community must respect the confidential nature of the student information which they acquire in the course of their work.

Learning Outcomes

On December 5, 2012, the University of Guelph Senate approved five University-wide Learning Outcomes as the basis from which to guide the development of undergraduate degree programs, specializations and courses:

1. Critical and Creative Thinking
2. Literacy
3. Global Understanding
4. Communicating
5. Professional and Ethical Behaviour

These learning outcomes are also intended to serve as a framework through which our educational expectations are clear to students and the broader public; and to inform the process of outcomes assessment through the quality assurance process (regular reviews) of programs and departments.

An on-line guide to the learning outcomes, links to the associated skills, and detailed rubrics designed to support the development and assessment of additional program and discipline-specific outcomes, are available for reference on the Learning Outcomes website.

1. Critical and Creative Thinking

Critical and creative thinking is a concept in which one applies logical principles, after much inquiry and analysis, to solve problems with a high degree of innovation, divergent thinking and risk taking. Those mastering this outcome show evidence of integrating knowledge and applying this knowledge across disciplinary boundaries. Depth and breadth of understanding of disciplines is essential to this outcome.

In addition, Critical and Creative Thinking includes, but is not limited to, the following outcomes: Inquiry and Analysis; Problem Solving; Creativity; and Depth and Breadth of Understanding.

2. Literacy

Literacy is the ability to extract information from a variety of resources, assess the quality and validity of the material, and use it to discover new knowledge. The comfort in using quantitative literacy also exists in this definition, as does using technology effectively and developing visual literacy.

In addition, Literacy includes, but is not limited to, the following outcomes: Information Literacy, Quantitative Literacy, Technological Literacy, and Visual Literacy.

3. Global Understanding:

Global understanding encompasses the knowledge of cultural similarities and differences, the context (historical, geographical, political and environmental) from which these arise, and how they are manifest in modern society. Global understanding is exercised as civic engagement, intercultural competence and the ability to understand an academic discipline outside of the domestic context.

In addition, Global Understanding includes, but is not limited to, the following outcomes: Global Understanding, Sense of Historical Development, Civic Knowledge and Engagement, and Intercultural Competence.

4. Communicating

Communicating is the ability to interact effectively with a variety of individuals and groups, and convey information successfully in a variety of formats including oral and written communication. Communicating also comprises attentiveness and listening, as well as reading comprehension. It includes the ability to communicate and synthesize information, arguments, and analyses accurately and reliably.

In addition, Communicating includes, but is not limited to, the following outcomes: Oral Communication, Written Communication, Reading Comprehension, and Integrative Communication.

5. Professional and Ethical Behaviour

Professional and ethical behaviour requires the ability to accomplish the tasks at hand with proficient skills in teamwork and leadership, while remembering ethical reasoning behind all decisions. The ability for organizational and time management skills is essential in bringing together all aspects of managing self and others. Academic integrity is central to mastery in this outcome.

In addition, Professional and Ethical Behaviour includes, but is not limited to, the following outcomes: Teamwork, Ethical Reasoning, Leadership, and Personal Organization and Time Management.
# Table of Contents

<table>
<thead>
<tr>
<th>Program Information (B.Com.)</th>
<th>447</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undeclared (UND)</td>
<td>448</td>
</tr>
<tr>
<td>Accounting (ACCT)</td>
<td>448</td>
</tr>
<tr>
<td>Accounting (Co-op) (ACCT:C)</td>
<td>449</td>
</tr>
<tr>
<td>Food and Agricultural Business (FAB)</td>
<td>449</td>
</tr>
<tr>
<td>Food and Agricultural Business (Co-op) (FAB:C)</td>
<td>450</td>
</tr>
<tr>
<td>Hospitality and Tourism Management (HTM)</td>
<td>450</td>
</tr>
<tr>
<td>Hospitality and Tourism Management Co-op (HTM:C)</td>
<td>452</td>
</tr>
<tr>
<td>Leadership and Organizational Management (LOM)</td>
<td>453</td>
</tr>
<tr>
<td>Management Economics and Finance (MEF)</td>
<td>453</td>
</tr>
<tr>
<td>Management Economics and Finance (Co-op) (MEF:C)</td>
<td>455</td>
</tr>
<tr>
<td>Marketing Management (MKMN)</td>
<td>456</td>
</tr>
<tr>
<td>Marketing Management (Co-op) (MKMN:C)</td>
<td>457</td>
</tr>
<tr>
<td>Public Management (PMGT)</td>
<td>459</td>
</tr>
<tr>
<td>Public Management (Co-op) (PMGT:C)</td>
<td>459</td>
</tr>
<tr>
<td>Real Estate and Housing (REH)</td>
<td>460</td>
</tr>
<tr>
<td>Real Estate and Housing (Co-op) (REH:C)</td>
<td>461</td>
</tr>
</tbody>
</table>
Bachelor of Commerce (B.Comm.)

The University of Guelph offers an eight semester (20.00 credits) honours program leading to a Bachelor of Commerce degree (B.Comm.). The normal course load is 2.50 credits per semester for a full-time student. The program is of an interdisciplinary nature and designed to give students a sound professional management education with a focus on specific industry sectors or management functions which prepare the graduates for positions of responsibility in particular areas of management and business. Elective options enable students to select courses which support or complement their primary field of study.

In their first semester, students may be admitted to one of eight specialized majors or enter as “undeclared”. Students in the undeclared first year, must declare a specialized major by mid-February in semester two in order to gain access to required courses in semester three.

Bachelor of Commerce Majors

Most majors in the Bachelor of Commerce program are also available in the Co-operative Education (Co-op) option.

Undeclared (only available in semesters one and two)

Accounting
Food and Agricultural Business
Hospitality and Tourism Management
Leadership and Organizational Management
Management Economics and Finance
Marketing Management
Public Management
Real Estate and Housing

In addition to specializing in a major area of study, the B.Comm. core ensures that each major also provides a comprehensive commerce education to all students in the program.

The B.Comm. Core includes:

Year 1
- ACCT*1220 [0.50] Introductory Financial Accounting
- ECON*1050 [0.50] Introductory Microeconomics
- ECON*1100 [0.50] Introductory Macroeconomics
- MATH*1030 [0.50] Business Mathematics
- MCS*1000 [0.50] Introductory Programming
- MGMT*1000 [1.00] Introduction to Business

Year 2
- ACCT*2230 [0.50] Management Accounting
- ECON*2560 [0.50] Theory of Finance
- HRDB*2090 [0.50] Individuals and Groups in Organizations
- MCS*2020 [0.50] Information Management
- MGMT*1100 [0.00] Business Career Preparation

Year 3
- MGMT*3020 [0.50] Corporate Social Responsibility
- MGMT*3320 [0.50] Financial Management

Year 4
- MGMT*4000 [0.50] Strategic Management

*MGM*1100 is part of the Career Development Program which is designed to provide students with knowledge and tools to enhance their career readiness skills.

Students who have successfully completed COOP*1100 will be exempted from MGMT*1100.

The following core areas are covered through a choice of courses as determined by your major:

- Law
  - HROB*3050, MCS*3040, REAL*4840
- Operations
  - FARE*3310, HTM*3120
- Statistics
  - ECON*2740, PSYC*1010, STAT*2060

Liberal Education Requirement

Other requirements are accommodated by specialized courses within the major or through specific courses chosen by the major from those available on campus.

Program Information

Academic Counselling

Program Counselling

Students are urged to seek the assistance of the counsellors in the B.Comm. Counselling Office regarding their program and academic regulations, course selection issues, services and resources, and when they are experiencing difficulties that affect their academic progress.

Departmental Advising

On entering the program, all students are assigned to a departmental Faculty Advisor by major. Students should seek the advice of the Faculty Advisor when they have questions or concerns about courses and academic requirements for their program/major. The Faculty Advisor is also knowledgeable about career opportunities which relate to a student’s specific major. The list of Faculty Advisors is available on the Undergraduate Academic Information Centre website: http://www.uoguelph.ca/uaic/students_advisors.shtml or contact the B.Comm. Counselling Office for further information.

Special Expenses

Expenses may include cost of field trips and supplies and, for some majors, laboratory coats and other protective clothing.

Study at Other Universities

Students contemplating study at another university for credit towards a Bachelor of Commerce degree at the University of Guelph should refer to the general regulations governing Letters of Permission in Section VII Degree and Regulations and Procedures in this calendar.

Students must obtain approval for the Letter of Permission prior to undertaking studies at another institution. Approval of the request depends on good standing in the program with a minimum cumulative average of 60%.

The total limit of credits taken on a Letter of Permission is 2.50 based on the University of Guelph’s credit system.

Study Abroad

Global understanding and perspectives are regarded as being of central importance among the university’s learning objectives, as they are, also, in understanding the international business environment. On both of these accounts, students enrolled in the B.Comm. program are urged to participate in one of the several exchange and study abroad programs specifically designed for the Commerce program. Planning for such participation is best undertaken quite early in the course of studies. For more specific information on possible opportunities refer to Section V -- International Study of the calendar or contact the B.Comm. program counsellor.

Continuation of Studies

Students are advised to consult the regulations for Continuation of Study within the program which are outlined in detail in Section VIII -- Undergraduate Degree Regulations and Procedures.

Conditions of Graduation

To qualify for a Bachelor of Commerce degree, the student must satisfy the following conditions:

- The student must successfully complete 1.50 credits from the Liberal Education Requirement list.
- The student must successfully complete a minimum of 20.00 approved credits, in accordance with the Schedule of Studies for the specified major, including the Liberal Education Requirement.
- The student must successfully pass Business Career Preparation [MGMT*1100] or Introduction to Co-operative Education [COOP*1100]
- Students will not be eligible to graduate while on probationary or required-to-withdraw status.

Career Development Program

The Career Development Program provides students with knowledge and tools to enhance their career readiness skills, leading to a greater level of confidence and success when approaching the career search process. Through a series of activities that would span over each year of the Bachelor of Commerce Program, including a mandatory Business Career Preparation Course [MGMT*1100]*, students will be guided through a framework for career management and steps to create a personal “career toolkit”.

*Students who have successfully completed [COOP*1100] will be exempted from [MGMT*1100]

Liberal Education Requirement

The Liberal Education Requirement is designed to provide the student with exposure to and some understanding of a range of disciplines in the Arts, Humanities, Social Sciences, and Mathematical and Natural Sciences.

The Liberal Education Requirement consists of 1.50 credits. The course prefixes listed below cannot be used to satisfy the Liberal Education Requirement:

- ACCT Accounting
- BUS Business
- ECON Economics
- FARE Food, Agricultural and Resource Economics
- HRDB Human Resources and Organizational Behaviour
- HTM Hospitality and Tourism Management
- MGMT Management
- MCS Marketing and Consumer Studies

Last Revision: July 18, 2018

2018-2019 Undergraduate Calendar
REAL Estate and Housing

Free Electives
Free Electives allow students to select courses that support or complement their primary field of study. Students may select undergraduate courses from any department, including Commerce/Business related courses, provided any individual course restrictions and prerequisites are satisfied. These courses can be at any year level.

The total number of Free Electives allowed varies by major (refer to the Schedule of Studies for details). Free Electives cannot be used to fulfill Required Core courses, Restricted Electives or Liberal Education Electives, but they could contribute to the total number of credits required for graduation.

Honours Minor
A minor is a group of courses which provide exposure to and mastery of the fundamental principles of a subject. A minor consists of a minimum of 5.00 credits (normally 10 courses). It may also require certain other courses from other areas to be taken along with the specified courses of the minor. A minor is taken in conjunction with a major. Students cannot earn a minor in the same subject area as their major. Additionally, students in the BComm program are not permitted to earn a minor in Business or Business Economics. For a list of Minors, please see Specializations and Their Degrees.

Given the professional and applied nature of the B.Comm program, there are no double majors associated with the degree.

Double Counting of Credits
A maximum of 2.50 credits required in a major program may be applied to meet the requirements of a minor. Courses used to meet the Liberal Education requirement may not double-count toward the requirements of their major but may double-count towards the completion of a minor.

Schedule of Studies
Courses specified in the schedule of studies are required courses and must be completed successfully. A full course load normally involves 2.50 credits per semester. Part-time study is also possible although students should discuss this option with their Program Counsellor or Faculty Advisor.

Undeclared (UND)

College of Business and Economics
Applicants to the B.Comm program who want a flexible introduction to business studies should consider entering as an unspecialized student. Students must declare one of the 9 majors in order to gain access to required courses. This must be done no later than mid-February in semester two.

Liberal Education Requirement
As part of the graduation requirement all students within the B.Comm Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar.

Major

Semester 1
ECON*1050 [0.50] Introductory Microeconomics
MATH*1030 [0.50] Business Mathematics
MGMT*1000 [1.00] Introduction to Business
One of:
HTM*1070 [0.50] Responsible Tourism Policy and Planning *
HTM*1700 [0.50] Foodservice Management *
MATH*1200 [0.50] Calculus I *
POLS*1400 [0.50] Issues in Canadian Politics *
PSYC*1000 [0.50] Introduction to Psychology
REAL*1820 [0.50] Real Estate and Housing *
0.50 elective

Semester 2
ACCT*1220 [0.50] Introductory Financial Accounting
ECON*1100 [0.50] Introductory Macroeconomics
HRMB*2090 [0.50] Individuals and Groups in Organizations
MCS*1000 [0.50] Introductory Marketing
0.50 elective

Notes:
1. Students interested in choosing the ACCT major should take ACCT*1220 during the Fall semester instead of the 0.50 elective. ACCT*1240 Applied Financial Accounting will then be taken in the Winter semester.
2. Students interested in choosing the FAB Major should take FARE*1400 Economics of the Agri-Food System instead of HRMB*2090 and the 0.50 electives during the Winter Semester.
3. Students who select MATH*1200 do not also need to complete MATH*1030.

Students leaning towards a certain major may use their electives to take courses in that area. Undeclared students are encouraged to meet with a B.Comm, program counsellor for advice on elective selection. Further information on selecting electives for the Undeclared first year can be found on the B.Comm. Program Counselling Office website: https://www.uoguelph.ca/business/bcomm

Accounting (ACCT)

Department of Management, College of Business and Economics
By combining the conceptual and quantitative elements of accounting while promoting the integration of theory and practice, the accounting major provides graduates with the academic requirements for the postgraduate pursuit of a Professional Accounting designation. Students will develop the technical, analytical, evaluative and communication skills needed for a successful career in accounting and related management areas.

The program provides a strong foundation of accounting and general business knowledge while allowing significant opportunity to develop breadth and depth of knowledge in related areas of study.

Students pursuing a professional accounting designation should visit the Department of Management website for links to the requirements.

Elective options enable students to select courses which support or complement their primary field of study.

Degree Requirements (20.00 Total Credits)
13.00 - Required Core Courses
1.00 - Restricted Electives (see semester 7 & 8)
0.00 – MGMT*1100 (Business Career Preparation)
1.50 - Liberal Education Electives
4.50 - Free Electives

The recommended program sequence is outlined below.

Major

Semester 1
ACCT*1220 [0.50] Introductory Financial Accounting
ECON*1050 [0.50] Introductory Microeconomics
MATH*1030 [0.50] Business Mathematics
MGMT*1000 [1.00] Introduction to Business

Semester 2
ACCT*1240 [0.50] Applied Financial Accounting
ECON*1100 [0.50] Introductory Macroeconomics
HRMB*2090 [0.50] Individuals and Groups in Organizations
MCS*1000 [0.50] Introductory Marketing
0.50 electives

Semester 3
ACCT*2230 [0.50] Management Accounting
MCS*2020 [0.50] Information Management
MGMT*1100 [0.00] Business Career Preparation
STAT*2060 [0.50] Statistics for Business Decisions
1.00 electives

Semester 4
ACCT*3330 [0.50] Intermediate Financial Accounting I
ECON*2560 [0.50] Theory of Finance
MCS*3040 [0.50] Business and Consumer Law
MGMT*3320 [0.50] Financial Management
0.50 electives

Semester 5
ACCT*3280 [0.50] Auditing I
ACCT*3340 [0.50] Intermediate Financial Accounting II
ACCT*3350 [0.50] Taxation
HRMB*2290 [0.50] Human Resources Management
0.50 electives

Semester 6
ACCT*3230 [0.50] Intermediate Management Accounting
FARE*3310 [0.50] Operations Management
MGMT*3020 [0.50] Corporate Social Responsibility
1.00 electives

Semester 7 - Fall
ACCT*4220 [0.50] Advanced Financial Accounting

Semester 8 - Winter
ACCT*4230 [0.50] Advanced Management Accounting

Semester 7 or 8 - Fall or Winter
MGMT*4000 [0.50] Strategic Management
Two of:
ACCT*4270 [0.50] Auditing II
ACCT*4290 [0.50] IT Auditing and Data Analytics
ACCT*4340 [0.50] Accounting Theory
Accounting (Co-op) (ACCT:C)

Department of Management, College of Business and Economics

The Co-op program in Accounting is designed to facilitate the transition of students from academic studies to a professional career by enhancing the integration of theory and practice.

The Co-op program in Accounting is a five year program including 4 work terms. Students must follow the academic work schedule as outlined on the Co-operative Education and Career Services website: https://www.recruitguelph.ca/cecs/

In order for students to be eligible to continue in the Co-op program, they must meet a minimum 70% cumulative average requirement after second semester, as well as meet all work term requirements. Please refer to the Co-operative Education Program policy with respect to work term performance grading and work term report grading. For additional program information students should consult with their Co-op Co-ordinator and Co-op Faculty Advisor, listed on the Co-operative Education and Career Services website: https://www.recruitguelph.ca/cecs/

Students pursuing a professional accounting designation should visit the Department of Management website for links to the requirements.

Group/Team work is a significant part of core credit work.

Degree Requirements (20.00 Total Credits)

13.00 - Required Core Courses
1.00 - Restricted Electives (see semester 7 & 8)
1.50 - Liberal Education Electives
4.50 - Free Electives

The recommended program sequence is outlined below.

Major

Semester 1 -- Fall
ACCT*1220 [0.50] Introductory Financial Accounting
ECON*1050 [0.50] Introductory Microeconomics
MATH*1030 [0.50] Business Mathematics
MGMT*1000 [1.00] Introduction to Business

Semester 2 -- Winter
ACCT*1240 [0.50] Applied Financial Accounting
COOP*1100 [0.00] Introduction to Co-operative Education
ECON*1100 [0.50] Introductory Macroeconomics
HROB*2090 [0.50] Individuals and Groups in Organizations
1.00 electives

Semester 3 -- Fall
ACCT*2230 [0.50] Management Accounting
ACCT*3330 [0.50] Intermediate Financial Accounting I
MCS*1000 [0.50] Introductory Marketing
STAT*2060 [0.50] Statistics for Business Decisions
0.50 electives

Winter Semester
COOP*1000 [0.00] Co-op Work Term I

Semester 4 -- Summer
ACCT*3280 [0.50] Auditing I
ACCT*3340 [0.50] Intermediate Financial Accounting II
ACCT*3350 [0.50] Taxation
MCS*2020 [0.50] Information Management
0.50 electives

Semester 5 -- Fall
ECON*2560 [0.50] Theory of Finance
FARE*3310 [0.50] Human Resources Management
1.00 electives

Winter Semester
COOP*2000 [0.00] Co-op Work Term II

Semester 6 -- Summer
ACCT*3230 [0.50] Intermediate Management Accounting
MCS*3040 [0.50] Business and Consumer Law
MGMT*3020 [0.50] Corporate Social Responsibility
MGMT*3320 [0.50] Financial Management
0.50 electives

Fall Semester
COOP*3000 [0.00] Co-op Work Term III

(Eight month work term in conjunction with COOP*4000)

Winter Semester
COOP*4000 [0.00] Co-op Work Term IV

(Eight month work term in conjunction with COOP*3000)

Semester 7 - Fall
ACCT*4220 [0.50] Advanced Financial Accounting

Semester 8 - Winter
ACCT*4230 [0.50] Advanced Management Accounting

Semester 7 or 8 - Fall or Winter
MGMT*4000 [0.50] Strategic Management
Two of:
ACCT*4270 [0.50] Auditing II
ACCT*4290 [0.50] IT Auditing and Data Analytics
ACCT*4340 [0.50] Accounting Theory
ACCT*4350 [0.50] Income Taxation II
ACCT*4440 [0.50] Integrated Cases in Accounting
2.50 electives

Note: ACCT*4270 and ACCT*4350 are offered in the Fall only. ACCT*4290, ACCT*4340 and ACCT*4440 are offered in the Winter only. Students may take MGMT*4000 in either Fall or Winter.

Food and Agricultural Business (FAB)

Department of Food, Agricultural and Resource Economics, Ontario Agricultural College

In this major, students will acquire the management education needed to succeed in the dynamic and innovative food and agribusiness industries. Building on an understanding of economic theory and applied methods in both the Canadian and the global context, the program prepares graduates with technical, entrepreneurial and leadership skills for a variety of professional opportunities in industry, government agencies and non-governmental organizations. The major provides a complete foundation for further studies leading to a graduate degree or professional accounting designation.

The major is administered by the Department of Food, Agricultural and Resource Economics in the Ontario Agricultural College and students are urged to consult the faculty advisor.

Degree Requirements (20.00 Total Credits)

15.50 - Required Core Courses
0.00 – MGMT*1100 (Business Career Preparation)
1.00 - Restricted Electives (from lists)
1.50 - Liberal Education Electives
2.00 - Free Electives

Major

Semester 1
ECON*1050 [0.50] Introductory Microeconomics
MATH*1030 [0.50] Business Mathematics
MCS*1000 [0.50] Introductory Marketing
MGMT*1000 [1.00] Introduction to Business

Semester 2
ACCT*1220 [0.50] Introductory Financial Accounting
ECON*2740 [0.50] Health Economics
ECON*2310 [0.50] International Economics
0.50 electives or restricted electives

Semester 3
ECON*2770 [0.50] Development Economics
ECON*3090 [0.50] Economics of Resource Management
MGMT*3000 [0.50] Introduction to Business

Semester 4
ACCT*2230 [0.50] Management Accounting
ECON*2410 [0.50] Intermediate Macroeconomics
ECON*2770 [0.50] Introduction to Econometrics
0.50 electives or restricted electives

Semester 5
MATH*2700 [0.50] Economic Statistics
MGMT*3000 [0.50] Business Career Preparation

Semester 6
MGMT*3000 [0.50] Management Accounting
ECON*3410 [0.50] Intermediate Macroeconomics
ECON*3740 [0.50] Introduction to Econometrics
0.50 electives or restricted electives

Semester 7
MGMT*3000 [0.50] Management Accounting
ECON*3410 [0.50] Intermediate Macroeconomics

Semester 8
MATH*2700 [0.50] Economic Statistics
MGMT*3000 [0.50] Business Career Preparation

(Eight month work term in conjunction with FAB*4240)
Degree Requirements (20.00 Total Credits)

15.50 - Required Core Courses
1.00 - Restricted Electives (from lists)
1.50 - Liberal Education Electives
2.00 - Free Electives

Major

Semester 1
ECON*1050 [0.50] Introductory Microeconomics
MATH*1030 [0.50] Business Mathematics
MCS*1000 [0.50] Introductory Marketing
MGMT*1000 [1.00] Introduction to Business

Semester 2
ACCT*1220 [0.50] Introductory Financial Accounting
ECON*1100 [0.50] Introductory Macroeconomics
FARE*1400 [1.00] Economics of the Agri-Food System
0.50 electives or restricted electives

Semester 3 - Fall
COOP*1100 [0.00] Introduction to Co-operative Education
ECON*2310 [0.50] Intermediate Microeconomics

ECON*2740 [0.50] Economic Statistics
HROB*2090 [0.50] Individuals and Groups in Organizations
MCS*2020 [0.50] Information Management
0.50 electives or restricted electives

Semester 4 - Winter
ACCT*2230 [0.50] Management Accounting
ECON*2410 [0.50] Intermediate Macroeconomics
ECON*2770 [0.50] Introductory Mathematical Economics
FARE*2410 [0.50] Agrifood Markets and Policy
0.50 electives or restricted electives

Semester 5 - Winter
ECON*2560 [0.50] Theory of Finance
ECON*3740 [0.50] Introduction to Econometrics
FARE*3310 [0.50] Operations Management
FARE*4240 [0.50] Futures and Options Markets
MGMT*3320 [0.50] Financial Management

Semester 6 - Fall
MGMT*3020 [0.50] Corporate Social Responsibility
2.00 electives or restricted electives

Winter Semester
COOP*4000 [0.00] Co-op Work Term IV
(Eight month work term in conjunction with COOP*5000)

Semester 7 - Fall
FARE*3170 [0.50] Cost-Benefit Analysis
FARE*3250 [0.50] Food and International Development
FARE*4210 [0.50] World Agriculture, Food Security and Economic Development
FARE*4290 [0.50] Land Economics
FARE*4310 [0.50] Resource Economics
FARE*4360 [0.50] Marketing Research
FARE*4500 [0.50] Decision Science
FARE*4550 [0.50] Independent Studies I
FARE*4560 [0.50] Independent Studies II

Semester 8 - Winter
FARE*3030 [0.50] The Firm and Markets
FARE*4370 [0.50] Food & Agri Marketing Management
MGMT*4000 [0.50] Strategic Management
One of:
HROB*3050 [0.50] Employment Law
MCS*3040 [0.50] Business and Consumer Law
REAL*4840 [0.50] Housing and Real Estate Law

0.50 electives or restricted electives

Food and Agricultural Business (Co-op) (FAB:C)
Department of Food, Agricultural and Resource Economics, Ontario Agricultural College
A principal aim of the Co-op program in Food and Agricultural Business is to facilitate the transition of students from academic studies to a professional career by enhancing the integration of theory and practice.

The Co-op program in Food and Agricultural Business is a five year program, including 5 work terms. Although the schedule includes 5 work terms, students have the option to complete only 4 of the 5 work terms, but must graduate with a Fall, Winter and Summer work term. Please refer to the Co-operative Education program policy with respect to adjusting the schedule listed below.

Students are urged to consult the faculty advisor. For additional program information students should consult with their Co-op Coordinator and Co-op Faculty Advisor, listed on the Co-operative Education and Career Services website: https://www.recruituguelph.ca/coec.

In order for students to be eligible to continue in the Co-op program, they must meet a minimum 70% cumulative average requirement after second semester, as well as meet all work term requirements. Please refer to the Co-operative Education program policy with respect to work term performance grading and work term report grading.

For additional program information students should consult with their Co-op Coordinator and Co-op Faculty Advisor, listed on the Co-operative Education and Career Services website.

The major is administered by the Department of Food, Agricultural and Resource Economics in the Ontario Agricultural College and students are urged to consult the faculty advisor.

Hospi?ality and Tourism Management (HTM)
School of Hospitality, Food and Tourism Management, College of Business and Economics
The Hospitality and Tourism Management (HTM) major prepares students to assume positions of responsibility within the world’s largest industry.

In the first two years of study, students are introduced to foundational business skills and knowledge; and provided with an in-depth overview of the industry’s three sectors: hotel and lodging; restaurant and foodservice; and tourism.

By the end of the second year, students must choose one of those sectors as their area of emphasis. For the remainder of the program, the courses and learning opportunities that students encounter have one goal: to help them cultivate the knowledge, skills and understanding required of a managerial leader in their chosen area.

2018-2019 Undergraduate Calendar Last Revision: July 18, 2018
Topics of study for all three areas of emphasis includes:

- human resources management;
- marketing;
- accounting;
- communications

The hotel and lodging area includes:

- operations;
- event management;
- design

The restaurant foodservice area includes:

- food systems;
- restaurant management;
- beverage management

The tourism area includes:

- planning and development;
- sustainability;
- international tourism

An integral part of the HTM major is experiential learning, which means that theory is balanced with practice. Students are encouraged to participate in guided learning opportunities outside the conventional classroom, such as independent study courses, study abroad, and numerous networking events with industry leaders.

Additional information:

- 1200 hours of verified work experience in the hospitality and tourism industry is required for students to be eligible for graduation.
- 700 hours of hospitality and tourism work experience must be completed before a student enters Semester 7.

Elective options enable students to select courses that support or complement their area of emphasis. Examples:

1. Students may use a combination of courses from their major, liberal education and free electives to earn the Certificate in Leadership. For information about this certificate and its course requirements, see http://www.leadershipcertificate.com/
2. Students interested in languages and/or participating in study abroad programs may use a combination of their liberal education or free electives to study one or more of the various languages taught at the University or to take courses while abroad.
3. Students interested in independent study courses (e.g. HTM*4130, HTM*4140, HTM*4150, HTM*4500) may use a combination of their restricted or free electives to study one or more of these special topic courses. For more information regarding current offerings, students should consult the Faculty Advisor.

Degree Requirements (20.00 Total Credits)

13.50 - Required Core Courses
3.50 - Area of Emphasis (Restricted Electives)
0.00 – MGMT*1100 (Business Career Preparation)
1.50 - Liberal Education Electives
1.50 - Free Electives

Major

Semester 1
ECON*1050 [0.50] Introductory Microeconomics
HTM*1700 [0.50] Foodservice Management
MCS*1000 [0.50] Introductory Marketing
MGMT*1000 [1.00] Introduction to Business

Semester 2
ACC*1220 [0.50] Introductory Financial Accounting
ECON*1100 [0.50] Introductory Microeconomics
HTM*1160 [0.50] Lodging Operations
MATH*1030 [0.50] Business Mathematics
0.50 electives or areas of emphasis

Semester 3
HTM*1070 [0.50] Responsible Tourism Policy and Planning
MCS*3040 [0.50] Business and Consumer Law
One of:
ECON*2740 [0.50] Economic Statistics
STAT*2060 [0.50] Statistics for Business Decisions

Semester 4
MCS*2020 [0.50] Information Management
MGMT*1100 [0.00] Business Career Preparation

Semester 3 or 4
ACCT*2230 [0.50] Management Accounting
HROB*2290 [0.50] Individuals and Groups in Organizations
HTM*2010 [0.50] Hospitality and Tourism Business Communications

Semester 5 or 6
ECON*2560 [0.50] Theory of Finance
HROB*2290 [0.50] Human Resources Management
HTM*3080 [0.50] Marketing Strategy for Hospitality Managers
HTM*3120 [0.50] Service Operations Analysis
MGMT*3020 [0.50] Corporate Social Responsibility
MGMT*3320 [0.50] Financial Management
2.00 electives or areas of emphasis

Semester 7 or 8
HTM*4080 [0.50] Experiential Learning and Leadership in the Hospitality and Tourism Industry
HTM*4190 [0.50] Hospitality and Tourism Industry Consultation
HTM*4250 [0.50] Hospitality Revenue Management
MGMT*4000 [0.50] Strategic Management
3.00 electives or areas of emphasis

Areas of Emphasis

Students in the Hospitality and Tourism Management (HTM) major choose one of the three areas of emphasis: Hotel and Lodging; Restaurant and Foodservice; or Tourism. Students should declare an area of emphasis by semester 4 in order to facilitate course selection for their chosen area. See the HTM Academic Advisor to declare your area of emphasis.

Hotel and Lodging

Semester 4, 6 or 8
HTM*2070 [0.50] Event Management

Semester 5 or 7
HTM*3060 [0.50] Lodging Management

Semester 7
HTM*4090 [0.50] Hospitality Development, Design and Sustainability

Semester 8
HTM*4060 [0.50] Advanced Lodging Management
1.50 credits of:
ECON*2200 [0.50] Industrial Relations
EDRD*3160 [0.50] International Communication
FARE*4360 [0.50] Marketing Research
HTM*3160 [0.50] Destination Management and Marketing
HTM*3180 [0.50] Casino Operations Management
MGMT*4260 [0.50] International Business
REAL*1820 [0.50] Real Estate and Housing
REAL*2820 [0.50] Real Estate Finance
REAL*3810 [0.50] Real Estate Market Analysis
REAL*3890 [0.50] Property Management
REAL*4820 [0.50] Real Estate Appraisal
REAL*4840 [0.50] Housing and Real Estate Law

Restaurant and Foodservice

Semester 4, 5 or 6
HTM*2700 [0.50] Understanding Foods

Semester 5 or 6
HTM*3090 [1.00] Restaurant Operations Management

Semester 8
HTM*4110 [0.50] Advanced Food Service Operations
1.50 credits of:
FOOD*3700 [0.50] Sensory Evaluation of Foods
HROB*3010 [0.50] Managing and Rewarding Performance
HROB*3070 [0.50] Attracting and Acquiring Talent
HROB*3090 [0.50] Developing Talent
HROB*4060 [0.50] Workforce Optimization
HTM*2070 [0.50] Event Management
HTM*2740 [0.50] Cultural Aspects of Food
HTM*3030 [0.50] Beverage Management
HTM*3780 [0.50] Managing Food in Canada
HTM*4050 [0.50] Wine and Oenology
MGMT*3010 [0.50] Quality Management
NUTR*1010 [0.50] Introduction to Nutrition

Tourism

Semester 6
GEOG*3490 [0.50] Tourism and Environment
HTM*3160 [0.50] Destination Management and Marketing

Semester 8
FARE*4360 [0.50] Marketing Research
HTM*4110 [0.50] International Tourism
1.50 credits of:
ECON*2100 [0.50] Economic Growth and Environmental Quality

Last Revision: July 18, 2018
2018-2019 Undergraduate Calendar
<table>
<thead>
<tr>
<th>Winter Semester</th>
<th>Semester 5 or 6 - Fall or Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*3000 [0.00] Co-op Work Term III</td>
<td></td>
</tr>
<tr>
<td>ECON*2560 [0.50] Theory of Finance</td>
<td></td>
</tr>
<tr>
<td>HROB*2290 [0.50] Human Resources Management</td>
<td></td>
</tr>
<tr>
<td>HTM*3080 [0.50] Marketing Strategy for Hospitality Managers</td>
<td></td>
</tr>
<tr>
<td>HTM*3120 [0.50] Service Operations Analysis</td>
<td></td>
</tr>
<tr>
<td>MGMT*3020 [0.50] Corporate Social Responsibility</td>
<td></td>
</tr>
<tr>
<td>MGMT*3320 [0.50] Financial Management</td>
<td></td>
</tr>
<tr>
<td>2.00 electives or areas of emphasis</td>
<td></td>
</tr>
<tr>
<td>Semester 7 or 8 - Fall or Winter</td>
<td></td>
</tr>
<tr>
<td>HTM*4080 [0.50] Experiential Learning and Leadership in the Hospitality and Tourism Industry</td>
<td></td>
</tr>
<tr>
<td>HTM*4190 [0.50] Hospitality and Tourism Industry Consultation</td>
<td></td>
</tr>
<tr>
<td>HTM*4250 [0.50] Hospitality Revenue Management</td>
<td></td>
</tr>
<tr>
<td>MGMT*4000 [0.50] Strategic Management</td>
<td></td>
</tr>
<tr>
<td>3.00 electives or areas of emphasis</td>
<td></td>
</tr>
</tbody>
</table>

### Areas of Emphasis

Students in the Hospitality and Tourism Management (HTM) major choose one of the three areas of emphasis: Hotel and Lodging; Restaurant and Foodservice; or Tourism. Students should declare an area of emphasis by semester 4 in order to facilitate course selection for their chosen area. See the HTM Academic Advisor to declare your area of emphasis.

### Hotel and Lodging

**Semester 4, 6 or 8 - Winter**

| HTM*2070 [0.50] Event Management |
| Semester 5 or 7 - Fall |
| HTM*3060 [0.50] Lodging Management |
| Semester 7 - Fall |
| HTM*4090 [0.50] Hospitality Development, Design and Sustainability |
| Semester 8 - Winter |
| HTM*4060 [0.50] Advanced Lodging Management |

1.50 credits of:

- ECON*2200 [0.50] Industrial Relations
- EDRD*3160 [0.50] International Communication
- FARE*4360 [0.50] Marketing Research
- HTM*3160 [0.50] Destination Management and Marketing
- HTM*3180 [0.50] Casino Operations Management
- MGMT*4260 [0.50] International Business
- REAL*1820 [0.50] Real Estate and Housing
- REAL*2820 [0.50] Real Estate Finance
- REAL*3810 [0.50] Real Estate Market Analysis
- REAL*3890 [0.50] Property Management
- REAL*4820 [0.50] Real Estate Appraisal
- REAL*4840 [0.50] Housing and Real Estate Law

### Restaurant and Foodservice

**Semester 4, 5 or 6 - Fall or Winter**

| HTM*2700 [0.50] Understanding Foods |
| Semester 5 or 6 - Fall or Winter |
| HTM*3090 [1.00] Restaurant Operations Management |
| Semester 8 - Winter |
| HTM*4110 [0.50] Advanced Food Service Operations |

1.50 credits of:

- FOOD*3700 [0.50] Sensory Evaluation of Foods
- HROB*3010 [0.50] Managing and Rewarding Performance
- HROB*3070 [0.50] Attracting and Acquiring Talent
- HROB*3090 [0.50] Developing Talent
- HROB*4060 [0.50] Workforce Optimization
- HTM*2070 [0.50] Event Management
- HTM*2740 [0.50] Cultural Aspects of Food
- HTM*3030 [0.50] Beverage Management
- HTM*3780 [0.50] Managing Food in Canada
- HTM*4050 [0.50] Wine and Oenology
- MCS*3010 [0.50] Quality Management
- NUTR*1010 [0.50] Introduction to Nutrition

### Tourism

**Semester 6 - Winter**

| GEOG*3490 [0.50] Tourism and Environment |
| HTM*3160 [0.50] Destination Management and Marketing |

### Semester 8 - Winter

| FARE*4360 [0.50] Marketing Research |
| HTM*4170 [0.50] International Tourism |

1.50 credits of:

- ECON*2100 [0.50] Economic Growth and Environmental Quality
Leadership and Organizational Management (LOM)

Department of Management, College of Business and Economics

The major in Leadership and Organizational Management provides a balanced foundation of management knowledge and strategic leadership competencies that will enable graduates to one day work as professional managers and organizational leaders. Courses extend beyond the traditional lecture based format to include community based group projects, guest lectures, in-class simulations and case-based learning to help link academic expertise and theory with industry practice. Experiential learning is an integral part of the major, and occurs through the integration of industry examples in the classroom, and a required course in evidence-based management, in which students conduct research in organizations under the direction of a faculty member. Our faculty are highly skilled and committed educators who encourage students to become actively involved in their own education, both within and outside the classroom. In addition, the Leadership and Organizational Management Student Association (LOMSA) is active in providing access to professional associations, networking opportunities with industry professionals, leadership conferences, guest speakers and social events to help students build relationships with other students, faculty, and the business community. Graduates of the Leadership and Organizational Management major will leave the University of Guelph equipped with a range of knowledge and competencies that prepare them to meet the leadership and management needs of the future in such roles as management consultant, human resource practitioner, talent management specialist or as future general managers. Successful completion of the courses within the Leadership and Organizational Management major will qualify graduates for potential certification by the Human Resources Professionals Association (HRPA) as a Certified Human Resources Professional (CHRP).

Degree Requirements (20.00 Total Credits)

14.50 - Required Core Courses
0.00 – MGMT*1100 (Business Career Preparation)
1.50 - Liberal Education Electives
4.00 - Free Electives

The recommended program sequence is outlined below.

Major

Semester 1

ECON*1050 [0.50] Introductory Microeconomics
MCS*1000 [0.50] Introductory Marketing
MGMT*1000 [1.00] Introduction to Business
0.50 electives

Semester 2

ECON*1100 [0.50] Introductory Macroeconomics
HROB*2090 [0.50] Individuals and Groups in Organizations
MATH*1030 [0.50] Business Mathematics
1.00 electives

Semester 3

ACCT*1220 [0.50] Introductory Financial Accounting
ECON*2200 [0.50] Industrial Relations
HROB*2100 [0.50] Foundations of Leadership
One of:
  - ECON*2740 [0.50] Economic Statistics
  - STAT*2060 [0.50] Statistics for Business Decisions
0.50 electives

Semester 4

ACCT*2230 [0.50] Management Accounting
HROB*2290 [0.50] Human Resources Management
MCS*2020 [0.50] Information Management
MGMT*1100 [1.00] Business Career Preparation
1.00 electives

Semester 5

ECON*2560 [0.50] Theory of Finance
HROB*3010 [0.50] Human Resources Management
MGMT*3050 [0.50] Information Management
HROB*3070 [0.50] Attracting and Acquiring Talent
0.50 electives

Semester 6

HROB*3030 [0.50] Workplace Health and Safety
HROB*3090 [0.50] Developing Talent
HROB*3100 [0.50] Developing Management and Leadership Competencies
FARE*3310 [0.50] Operations Management
MGMT*3320 [0.50] Financial Management

Semester 7

HROB*4100 [1.00] Evidence-Based People Management
MGMT*4000 [0.50] Strategic Management
1.00 electives

Semester 8

HROB*4000 [0.50] Leadership and Organizational Management Capstone
HROB*4060 [0.50] Workforce Optimization
MGMT*3020 [0.50] Corporate Social Responsibility
1.00 electives

Management Economics and Finance (MEF)

Department of Economics and Finance, College of Business and Economics

The Management Economics and Finance major is designed to offer students an appreciation of business and economic problems particularly in the area of finance. The major provides a suitable education for a career in the business world or in the public service. It also constitutes a useful preparation for more advanced studies, including graduate studies in Economics, Finance, Business Administration, Accounting, Industrial Relations, Law, and Public Policy. The major is administered by the Department of Economics and Finance and students are urged to consult the faculty advisor.

Degree Requirements (20.00 Total Credits)

10.50 - Required Core Courses
6.00 - Restricted Electives (from lists)
0.00 – MGMT*1100 (Business Career Preparation)
1.50 - Liberal Education Electives
2.00 - Free Electives

Major

Semester 1

ECON*1050 [0.50] Introductory Microeconomics
MGMT*1000 [1.00] Introduction to Business
One of:
  - MATH*1030 [0.50] Business Mathematics
  - MATH*1200 [0.50] Calculus I
0.50 electives

*Note: MATH*1200 is recommended for the Finance Area of Emphasis.

Semester 2

ACCT*1220 [0.50] Introductory Financial Accounting
ECON*1100 [0.50] Introductory Macroeconomics
HROB*2090 [0.50] Individuals and Groups in Organizations
MGMT*1000 [0.50] Introductory Marketing
0.50 electives

Semester 3

ACCT*2230 [0.50] Management Accounting
ECON*2310 [0.50] Intermediate Microeconomics
ECON*2740 [0.50] Economic Statistics
ECON*2770 [0.50] Introductory Mathematical Economics
MCS*2020 [0.50] Information Management
MGMT*1100 [0.00] Business Career Preparation

Note: Students who wish to take the Statistics courses listed under the Finance Area of Emphasis may select STAT*2040 in place of ECON*2740.

Semester 4

ECON*2410 [0.50] Intermediate Macroeconomics
ECON*2560 [0.50] Theory of Finance
MGMT*3340 [0.50] Business and Consumer Law **
MGMT*3320 [0.50] Financial Management
0.50 electives or restricted electives in an area of emphasis

*Note: Students may select HROB*3050 or REAL*4840 in place of MCS*3040. Both are Fall semester courses and can be completed in any Fall semester, provided the prerequisites are completed.

Semester 5

ECON*3740 [0.50] Introduction to Econometrics
MGMT*3020 [0.50] Corporate Social Responsibility
1.50 electives or restricted electives

Note: ECON*3710 is required for the Finance Area of Emphasis.

Semester 6

ECON*3710 [0.50] Introduction to Econometrics
MGMT*3020 [0.50] Corporate Social Responsibility
2.00 electives or restricted electives

Note: ECON*3810 is required for the Finance Area of Emphasis.

Last Revision: July 18, 2018

2018-2019 Undergraduate Calendar
Semester 7
2.50 electives or restricted electives

Semester 8
2.00 electives or restricted electives

Areas of Emphasis
Students choose either Finance or Management as an area of emphasis in the MEF major. This choice should be made by semester 6. See the Economics and Finance departmental advisor to declare an area of emphasis.

FINANCE Area of Emphasis

- **[0.50]** ECON*3710 Advanced Microeconomics
- **[0.50]** ECON*3810 Advanced Macroeconomics
- **[0.50]** ECON*4560 Advanced Topics in Finance

1.50 credits from the following Finance courses:

- **[0.50]** ECON*3360 The Strategy of Mergers and Acquisitions
- **[0.50]** ECON*3660 Economics of Equity Markets
- **[0.50]** ECON*3760 Fundamentals of Derivatives **
- **[0.50]** ECON*3860 International Finance
- **[0.50]** ECON*3960 Money, Credit and the Financial System

** Note that FARE*4240 may be substituted for this course.

1.50 Economics credits at the 3000 or 4000 level

In addition to the required credits listed above, students must take a minimum of 1.5 credits in restricted electives. Restricted electives are listed below and have been grouped in major topical areas which are related to, or are an extension of, the professional interests of the major. Students may, however, choose restricted electives from any of those listed without regard to the categories, which are intended to be suggestive.

Courses toward a professional designation as a Chartered Financial Analyst (CFA)

- **[0.50]** ACCT*3330 Intermediate Financial Accounting I
- **[0.50]** ACCT*3340 Intermediate Financial Accounting II
- **[0.50]** ECON*3660 Economics of Equities Markets
- **[0.50]** ECON*3760 Fundamentals of Derivatives **
- **[0.50]** ECON*4660 Risk Management in Finance and Insurance
- **[0.50]** ECON*4760 Topics in Monetary Economics

Courses in Quantitative Finance

- **[0.50]** ECON*3100 Game Theory
- **[0.50]** ECON*4640 Applied Econometrics I
- **[0.50]** ECON*4700 Advanced Mathematical Economics
- **[0.50]** ECON*4840 Applied Econometrics II
- **[0.50]** MATH*1160 Linear Algebra I
- **[0.50]** MATH*1210 Calculus II
- **[0.50]** STAT*3100 Introductory Mathematical Statistics I
- **[0.50]** STAT*3110 Introductory Mathematical Statistics II

Courses in preparation for post-graduate work in Economics (MA)

- **[0.50]** ECON*4640 Advanced Econometrics I
- **[0.50]** ECON*4710 Advanced Topics in Microeconomics
- **[0.50]** ECON*4810 Advanced Topics in Macroeconomics

Community Engagement Courses

- **[0.50]** MGMT*4050 Business Consulting
- **[0.50]** MGMT*4350 Business Case Competition Preparation
- **[0.50]** MGMT*4350 Business Case Competition Preparation

Courses for Computational Finance

- **[0.50]** CIS*1910 Discrete Structures in Computing I
- **[0.50]** CIS*2500 Intermediate Programming
- **[0.50]** CIS*2520 Data Structures
- **[0.75]** CIS*2750 Software Systems Development and Integration
- **[0.75]** CIS*3750 System Analysis and Design in Applications

MANAGEMENT Area of Emphasis

1.50 credits from the following Finance courses:

- **[0.50]** ECON*3360 The Strategy of Mergers and Acquisitions
- **[0.50]** ECON*3660 Economics of Equities Markets
- **[0.50]** ECON*3760 Fundamentals of Derivatives **
- **[0.50]** ECON*3860 International Finance
- **[0.50]** ECON*3960 Money, Credit and the Financial System

** Note that FARE*4240 may be substituted for this course.

One of:

- **[0.50]** ECON*4400 Economics of Organizations and Corporate Governance
- **[0.50]** ECON*4780 Topics in Industrial Organization
- **[0.50]** ECON*4800 Competitiveness and Strategic Advantage

2.50 additional credits in economics of which at least 0.50 must be at the 4000 level and at most 0.50** may be at the 2000 level.

** May be replaced with a 4000 level 0.50 credits in Accounting.

In addition to the economics credits listed above, students must take a minimum of 1.50 credits in restricted electives listed below. These courses have been grouped in major topical areas which are related to various professional interests. Students may, however, choose restricted electives from any of those listed without regard to the categories.

Courses toward a professional accounting designation Chartered Professional Accountants (CPA)


- **[0.50]** ACCT*3230 Intermediate Management Accounting
- **[0.50]** ACCT*3280 Auditing I
- **[0.50]** ACCT*3330 Intermediate Financial Accounting I
- **[0.50]** ACCT*3340 Intermediate Financial Accounting II
- **[0.50]** ACCT*3350 Taxation
- **[0.50]** ACCT*4220 Advanced Financial Accounting
- **[0.50]** ACCT*4230 Advanced Management Accounting
- **[0.50]** ACCT*4270 Auditing II
- **[0.50]** ACCT*4290 IT Auditing and Data Analytics
- **[0.50]** ACCT*4340 Accounting Theory
- **[0.50]** ACCT*4350 Income Taxation II
- **[0.50]** ACCT*4440 Integrated Cases in Accounting

Courses to prepare for the Certified Human Resource Professional (CHRP) designation:

(see [http://www.uoguelph.ca/business/academic-advisor-careers-chrp.shtml](http://www.uoguelph.ca/business/academic-advisor-careers-chrp.shtml) for more information)

- **[0.50]** ECON*2200 Industrial Relations
- **[0.50]** HROB*3010 Managing and Rewarding Performance
- **[0.50]** HROB*3030 Workplace Health and Safety
- **[0.50]** HROB*3070 Attracting and Acquiring Talent
- **[0.50]** HROB*3090 Developing Talent
- **[0.50]** HROB*4060 Workforce Optimization

Courses to prepare for a post-graduate program in Industrial Relations:

- **[0.50]** ECON*3400 The Economics of Personnel Management
- **[0.50]** ECON*3520 Labour Economics
- **[0.50]** ECON*3620 International Trade
- **[0.50]** ECON*4790 Topics in Labour Market Theory
- **[0.50]** HROB*3010 Managing and Rewarding Performance
- **[0.50]** HROB*3030 Workplace Health and Safety
- **[0.50]** HROB*3070 Attracting and Acquiring Talent
- **[0.50]** HROB*3090 Developing Talent
- **[0.50]** HROB*4060 Workforce Optimization

Courses toward the Leadership Certificate:

(see [http://www.leadershipcertificate.com/](http://www.leadershipcertificate.com/) for more information)

- **[0.50]** HROB*2010 Foundations of Leadership
- **[0.50]** HROB*4010 Leadership Certificate Capstone
- **[0.50]** HROB*4030 Advanced Topics In Leadership and Organizational Management
- **[1.00]** HROB*4100 Evidence-Based People Management
- **[0.50]** POLS*2250 Public Administration and Governance
- **[0.50]** POLS*3440 Corruption, Scandal and Political Ethics

Courses in Public Administration:

- **[0.50]** ECON*3610 Public Economics
- **[0.50]** POLS*2250 Public Administration and Governance
- **[0.50]** POLS*2300 Canadian Government and Politics
- **[0.50]** POLS*3210 The Constitution and Canadian Federalism
- **[0.50]** POLS*3250 Public Policy: Challenges and Prospects
- **[0.50]** POLS*3270 Local Government in Ontario
- **[0.50]** POLS*3470 Business-Government Relations in Canada

Courses in Real Estate and Housing:

- **[0.50]** ECON*3500 Urban Economics **
- **[0.50]** REAL*1820 Urban Economics **
- **[0.50]** REAL*2820 Real Estate Finance
- **[0.50]** REAL*3890 Property Management
- **[0.50]** REAL*4820 Real Estate Appraisal **

** These courses count towards the Post Graduate Valuation Certificate offered by UBC, part of the requirements to obtain an Accredited Appraiser Canadian Institute designation.

Courses in Corporate Social Responsibility:

- **[0.50]** BUS*4550 Applied Business Project I
- **[0.50]** BUS*4560 Applied Business Project II
- **[0.50]** ECON*2650 Introductory Development Economics
- **[0.50]** ECON*3300 Economics of Health and the Workplace
- **[0.50]** ECON*4930 Environmental Economics
- **[0.50]** HROB*3030 Workplace Health and Safety
- **[0.50]** REAL*2850 Service Learning in Housing
- **[0.50]** MGMT*4050 Business Consulting
- **[0.50]** MGMT*4060 Business Consulting
Courses in Marketing:
- MCS*2600 [0.50] Fundamentals of Consumer Behaviour
- MCS*3000 [0.50] Advanced Marketing
- MCS*3010 [0.50] Quality Management
- MCS*3620 [0.50] Marketing Communications
- MCS*4400 [0.50] Pricing Management

Courses in Food and Agribusiness:
- FARE*2410 [0.50] Agrifood Markets and Policy
- FARE*3030 [0.50] The Firm and Markets
- FARE*3170 [0.50] Cost-Benefit Analysis
- FARE*4000 [0.50] Agricultural and Food Policy
- FARE*4220 [0.50] Advanced Agribusiness Management

Management Economics and Finance (Co-op) (MEF:C)

Department of Economics and Finance, College of Business and Economics

A principal aim of the Co-op program in Management Economics and Finance is to facilitate the transition of students from academic studies to a professional career by enhancing the integration of theory and practice. The Co-op program in Management Economics and Finance is a five year program including 5 work terms. Though the schedule includes 5 work terms, students have the option to complete only 4 of the 5 work terms, but must graduate with a Fall, Winter, and Summer work term.

Students are eligible to participate in a maximum two (2) summer employment processes and must follow the academic work schedule as outlined on the Co-operative Education and Career Services website: https://www.recruitguelph.ca/cecs/. Please refer to the Co-operative Education program policy with respect to the schedule listed below. In order for students to be eligible to continue in the Co-op program, they must meet a minimum 70% cumulative average requirement after second semester, as well as meet all work term requirements. Please refer to the Co-operative Education program policy with respect to work term performance grading and work term report grading.

For additional information students should consult their Co-op Coordinator and Co-op Faculty Advisor, listed on the Co-operative Education and Career Services website.

Degree Requirements (20.00 Total Credits)

10.50 - Required Core Courses
- 6.00 - Restricted Electives (from lists)
- 1.50 - Liberal Education Electives
- 2.00 - Free Electives

Major

Semester 1 - Fall
- ECON*1050 [0.50] Introductory Microeconomics
- MGMT*1000 [1.00] Introduction to Business
- One of:
  - MATH*1030 [0.50] Business Mathematics
  - MATH*1200 [0.50] Calculus I
- 0.50 electives

Semester 2 - Winter
- ACCT*1220 [0.50] Introductory Financial Accounting
- ECON*1100 [0.50] Intermediate Macroeconomics
- HROB*2090 [0.50] Individuals and Groups in Organizations
- MCS*1000 [0.50] Introductory Marketing
- 0.50 electives

Semester 3 - Fall
- ACCT*2230 [0.50] Management Accounting
- COOP*1100 [0.00] Introduction to Co-operative Education
- ECON*2310 [0.50] Intermediate Microeconomics
- ECON*2740 [0.50] Economic Statistics
- ECON*2770 [0.50] Introductory Mathematical Economics
- MCS*2020 [0.50] Information Management

Note: Students who wish to take the Statistics courses listed under the Finance Area of Emphasis may select STAT*2040 in place of ECON*2740.

Semester 4 - Winter
- ECON*2410 [0.50] Intermediate Macroeconomics
- ECON*2560 [0.50] Theory of Finance
- MCS*3040 [0.50] Business and Consumer Law *
- MGMT*3320 [0.50] Financial Management
- 0.50 electives or restricted electives in an area of emphasis

* Note: Students may select HROB*3050 or REAL*4840 in place of MCS*3040. Both are Fall semester courses and can be completed in any Fall semester, provided the prerequisites are completed.

Semester Summer
- COOP*1000 [0.00] Co-op Work Term I

Fall Semester
- COOP*2000 [0.00] Co-op Work Term II

Semester 5 - Winter
- ECON*3740 [0.50] Introduction to Econometrics
- FARE*3310 [0.50] Operations Management

1.50 electives or restricted electives

Note: ECON*3810 is required for the Finance Area of Emphasis

Summer Semester
- COOP*3000 [0.00] Co-op Work Term III

Semester 6 - Fall
- MGMT*3020 [0.50] Corporate Social Responsibility

2.00 electives or restricted electives

Note: If in the Finance Area of Emphasis take ECON*3710.

Winter Semester
- COOP*4000 [0.00] Co-op Work Term IV

(Eight month work term in conjunction with COOP*5000)

Summer Semester
- COOP*5000 [0.00] Co-op Work Term V

(Eight month work term in conjunction with COOP*4000)

Semester 7 - Fall
- 2.50 electives or restricted electives

Semester 8 - Winter
- MGMT*4000 [0.50] Strategic Management

2.00 electives or restricted electives

Areas of Emphasis

Students choose either Finance or Management as an area of emphasis in the MEF major. This choice should be made by semester 6. See the Economics and Finance departmental advisor to declare an area of emphasis.

FINANCE Area of Emphasis

- ECON*3710 [0.50] Advanced Microeconomics
- ECON*3810 [0.50] Advanced Macroeconomics
- ECON*4560 [0.50] Advanced Topics in Finance

1.50 credits from the following Finance courses:
- ECON*3360 [0.50] The Strategy of Mergers and Acquisitions
- ECON*3660 [0.50] Economics of Equity Markets
- ECON*3760 [0.50] Fundamentals of Derivatives *
- ECON*3860 [0.50] International Finance
- ECON*3960 [0.50] Money, Credit and the Financial System

** Note that FARE*4240 may be substituted for this course.

1.50 Economics credits at the 3000 or 4000 level

In addition to the required credits listed above, students must take a minimum of 1.50 credits in restricted electives. Restricted electives are listed below and have been grouped in major topical areas which are related to, or are an extension of, the professional interests of the major. Students may, however, choose restricted electives from any of those listed without regard to the categories, which are intended to be suggestive.

Courses toward a professional designation as a Chartered Financial Analyst (CFA):
- ACCT*3330 [0.50] Intermediate Financial Accounting I
- ACCT*3340 [0.50] Intermediate Financial Accounting II
- ECON*3660 [0.50] Economics of Equity Markets
- ECON*3760 [0.50] Fundamentals of Derivatives
- ECON*4660 [0.50] Risk Management in Finance and Insurance
- ECON*4760 [0.50] Topics in Monetary Economics
- MGMT*4350 [0.50] Business Case Competition Preparation

Courses in Quantitative Finance:
- ECON*3100 [0.50] Game Theory
- ECON*4640 [0.50] Applied Econometrics I
- ECON*4700 [0.50] Advanced Mathematical Economics
- ECON*4840 [0.50] Applied Econometrics II
- MATH*1160 [0.50] Linear Algebra I
- MATH*1210 [0.50] Calculus II
- STAT*3100 [0.50] Introductory Mathematical Statistics I
- STAT*3110 [0.50] Introductory Mathematical Statistics II

Courses in preparation for post-graduate work in Economics (MA):
- ECON*4640 [0.50] Applied Econometrics I
- ECON*4710 [0.50] Advanced Topics in Microeconomics
- ECON*4810 [0.50] Advanced Topics in Macroeconomics

Community Engagement Courses
- MGMT*4050 [0.50] Business Consulting
- MGMT*4350 [0.50] Business Case Competition Preparation
- MGMT*4350 [0.50] Business Case Competition Preparation

Courses for Computational Finance
- CIS*1910 [0.50] Discrete Structures in Computing I
- CIS*2500 [0.50] Intermediate Programming
- CIS*2520 [0.50] Data Structures
### Courses in Public Administration:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*3610</td>
<td>Public Economics</td>
<td>0.50</td>
</tr>
<tr>
<td>POLS*2250</td>
<td>Public Administration and Governance</td>
<td>0.50</td>
</tr>
<tr>
<td>POLS*2300</td>
<td>Canadian Government and Politics</td>
<td>0.50</td>
</tr>
<tr>
<td>POLS*3210</td>
<td>The Constitution and Canadian Federalism</td>
<td>0.50</td>
</tr>
<tr>
<td>POLS*3250</td>
<td>Public Policy: Challenges and Prospects</td>
<td>0.50</td>
</tr>
<tr>
<td>POLS*3270</td>
<td>Local Government in Ontario</td>
<td>0.50</td>
</tr>
</tbody>
</table>

### Courses in Real Estate and Housing:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*3500</td>
<td>Urban Economics</td>
<td>0.50</td>
</tr>
<tr>
<td>REAL*1820</td>
<td>Real Estate and Housing</td>
<td>0.50</td>
</tr>
<tr>
<td>REAL*2820</td>
<td>Real Estate Finance</td>
<td>0.50</td>
</tr>
<tr>
<td>REAL*3890</td>
<td>Property Management</td>
<td>0.50</td>
</tr>
<tr>
<td>REAL*4820</td>
<td>Real Estate Appraisal</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Note:** These courses count towards the Post Graduate Valuation Certificate offered by UBC, part of the requirements to obtain an Accredited Appraiser Canadian Institute designation.

### Courses in Corporate Social Responsibility:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS*4550</td>
<td>Applied Business Project I</td>
<td>0.50</td>
</tr>
<tr>
<td>BUS*4560</td>
<td>Applied Business Project II</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*2650</td>
<td>Introductory Development Economics</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*3300</td>
<td>Economics of Health and the Workplace</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*4930</td>
<td>Environmental Economics</td>
<td>0.50</td>
</tr>
<tr>
<td>HROB*3030</td>
<td>Workplace Health and Safety</td>
<td>0.50</td>
</tr>
<tr>
<td>REAL*2850</td>
<td>Service Learning in Housing</td>
<td>0.50</td>
</tr>
<tr>
<td>MGMT*4050</td>
<td>Business Consulting</td>
<td>0.50</td>
</tr>
<tr>
<td>MGMT*4060</td>
<td>Business Consulting</td>
<td>0.50</td>
</tr>
</tbody>
</table>

### Courses in Marketing:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FARE*2410</td>
<td>Agrifood Markets and Policy</td>
<td>0.50</td>
</tr>
<tr>
<td>FARE*3030</td>
<td>The Firm and Markets</td>
<td>0.50</td>
</tr>
<tr>
<td>FARE*3170</td>
<td>Cost-Benefit Analysis</td>
<td>0.50</td>
</tr>
<tr>
<td>FARE*4000</td>
<td>Agricultural and Food Policy</td>
<td>0.50</td>
</tr>
<tr>
<td>FARE*4220</td>
<td>Advanced Agribusiness Management</td>
<td>0.50</td>
</tr>
</tbody>
</table>

### Marketing Management (MKMN)

**Department of Marketing and Consumer Studies, College of Business and Economics**

The Marketing Management major is interdisciplinary, follows a liberal education philosophy, and is built on the Department’s expertise in the field of marketing and consumer research.

The Department of Marketing and Consumer Studies prepares students for a career in marketing but also for educating them so that they can be active and engaged citizens. This is achieved from a balanced curriculum of marketing and liberal education courses that provide students with an understanding of the world they will work and live in. Students will gain knowledge in creating, communicating, and delivering product offerings to create value to stakeholders in a global and connected economy. Students completing this major will be prepared to pursue a variety of marketing career paths and diverse leadership roles.

Elective options enable students to select courses which support or complement their primary field of study. Examples: (1) students can use a combination of restricted, Liberal Education, and free electives to earn the Certificate in Leadership. See [http://www.leadershipcertificate.com/](http://www.leadershipcertificate.com/) for information about this certificate and its course requirements. (2) Students interested in languages and/or going on exchange can use their Liberal Education and free electives to study one or more of the various languages taught at the University. Note: students also can take courses of interest as electives without concern for categories.

### Degree Requirements (20.00 Total Credits)

- **13.00 - Required Core Courses**
  - 2.50 - Restricted Electives (from lists)
  - 0.00 – MGMT*1100 (Business Career Preparation)

- **1.50 - Liberal Education Electives**

- **3.00 - Free Electives**

### Major

#### Semester 1 - Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*1050</td>
<td>Introductory Microeconomics</td>
<td>0.50</td>
</tr>
<tr>
<td>MGMT*1000</td>
<td>Introduction to Business</td>
<td>1.00</td>
</tr>
</tbody>
</table>

#### Semester 2 - Winter

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT*1220</td>
<td>Introductory Financial Accounting</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*1100</td>
<td>Introductory Macroeconomics</td>
<td>0.50</td>
</tr>
<tr>
<td>MCS*1000</td>
<td>Introductory Marketing</td>
<td>0.50</td>
</tr>
</tbody>
</table>

#### Semesters 1 or 2 - Fall or Winter

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH*1030</td>
<td>Business Mathematics</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*1000</td>
<td>Introduction to Psychology</td>
<td>0.50</td>
</tr>
</tbody>
</table>

0.50 Marketing Environment electives (see List E1)
### Marketing Courses

Marketing majors must take one [0.50 credits] of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*2740</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*1010</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*2060</td>
<td>0.50</td>
</tr>
</tbody>
</table>

### Marketing Environment Elective - List E1

To supplement the knowledge students gain in MCS*1000 about the socio-cultural, economic, political/legal, and technological "environmental" factors that must be taken into consideration in marketing decision-making, marketing management majors must take one [0.50 credits] of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH*1150</td>
<td>0.50</td>
</tr>
<tr>
<td>EDRD*1400</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*1010</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*1200</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*1220</td>
<td>0.50</td>
</tr>
<tr>
<td>NUTR*1010</td>
<td>0.50</td>
</tr>
<tr>
<td>PHIL*2070</td>
<td>0.50</td>
</tr>
<tr>
<td>POLS*1400</td>
<td>0.50</td>
</tr>
<tr>
<td>POLS*2250</td>
<td>0.50</td>
</tr>
<tr>
<td>POLS*2300</td>
<td>0.50</td>
</tr>
<tr>
<td>SOC*1100</td>
<td>0.50</td>
</tr>
</tbody>
</table>

### History/Global Elective - List E2

To help marketing majors develop a sense of the fundamental relativity of knowledge and understanding over time and/or to help them gain the global perspective needed in senior marketing courses, marketing management majors must take one [0.50 credits] of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH*2490</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*1500</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*2030</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*1150</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*1250</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*2070</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*2250</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*2300</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*2510</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*2910</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*2930</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*3070</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*3150</td>
<td>0.50</td>
</tr>
<tr>
<td>ISS*2000</td>
<td>0.50</td>
</tr>
<tr>
<td>POLS*1500</td>
<td>0.50</td>
</tr>
<tr>
<td>POLS*2080</td>
<td>0.50</td>
</tr>
</tbody>
</table>

### Marketing Management (Co-op) (MKMN:C)

**Degree Requirements (20.00 Total Credits)**

13.00 - Required Core Courses

2.50 - Restricted Electives (from lists)

1.50 - Liberal Education Electives

3.00 - Free Electives

**Major**

Semester 1 - Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*1050</td>
<td>0.50</td>
</tr>
</tbody>
</table>
Marketing Environment Elective - List E1
To supplement the knowledge students gain in MCS*1000 about the socio-cultural, economic, political/legal, and technological "environmental" factors that must be taken into consideration in marketing decision-making, marketing management majors must take one [0.50 credits] of:

- ANTH*1150 [0.50] Introduction to Anthropology
- EDRD*1400 [0.50] Introduction to Design
- FRHD*1010 [0.50] Human Development
- GEOG*1200 [0.50] Society and Space
- GEOG*1220 [0.50] Human Impact on the Environment
- GEOG*2510 [0.50] Canada: A Regional Synthesis
- NUTR*1010 [0.50] Introduction to Nutrition
- PHIL*2070 [0.50] Philosophy of the Environment
- POLS*1400 [0.50] Issues in Canadian Politics
- POLS*2250 [0.50] Public Administration and Governance
- POLS*2300 [0.50] Canadian Government and Politics
- SOC*1100 [0.50] Sociology

History/GLOBAL Elective - List E2
To help marketing majors develop a sense of the fundamental relativity of knowledge and understanding over time and/or to help them gain the global perspective needed in senior marketing courses, marketing management majors must take one [0.50 credits] of:

- ARTH*2490 [0.50] History of Canadian Art
- BIOL*1500 [0.50] Humans in the Natural World
- GEOG*2300 [0.50] Environment and Development
- HIST*1150 [0.50] The Modern World
- HIST*1250 [0.50] Science and Technology in a Global Context
- HIST*2070 [0.50] World Religions
- HIST*2250 [0.50] Environment and History
- HIST*2300 [0.50] The United States Since 1776
- HIST*2510 [0.50] Modern Europe Since 1789
- HIST*2910 [0.50] Modern Asia
- HIST*2930 [0.50] Women and Cultural Change
- HIST*3070 [0.50] Modern India
- HIST*3150 [0.50] History and Culture of Mexico
- ISS*2000 [0.50] Asia
- POLS*1150 [0.50] World Politics
- POLS*2080 [0.50] Development and Underdevelopment
- POLS*2200 [0.50] International Relations

Leadership/Professionalism Elective - List E3
To help prepare senior marketing management majors for leadership positions in organizations, they must take one [0.50 credits] of:

- ECON*2310 [0.50] Intermediate Microeconomics
- ECON*2410 [0.50] Intermediate Macroeconomics
- EDRD*3160 [0.50] International Communication
- EDRD*4120 [0.50] Leadership Development in Small Organizations
- HROB*2010 [0.50] Foundations of Leadership
- MCS*4260 [0.50] International Business
- PHIL*2100 [0.50] Critical Thinking
- PHIL*2120 [0.50] Ethics
- PHIL*2600 [0.50] Business and Professional Ethics

Advanced Marketing Elective - List E4
To address the University Learning Objective of “Depth and Breadth of Learning” and to enhance the knowledge of product development, placement strategies, and the integration of societal influences on thinking, senior marketing management majors must take one [0.5 credits] of:

- MCS*3010 [0.50] Quality Management
- MCS*4020 [0.50] Research in Consumer Studies
- MCS*4040 [0.50] Management in Product Development
- MCS*4060 [0.50] Retail Management
- MCS*4300 [0.50] Marketing and Society
- MCS*4400 [0.50] Pricing Management
- MCS*4910 [0.50] Topics in Consumer Studies
- MGMT*4350 [0.50] Business Case Competition Preparation

Experiential Learning Capstone Electives - List E5
To enhance their understanding of marketing in terms of application, senior marketing management majors must take one [0.50 credits] of:

- HROB*4010 [0.50] Leadership Certificate Capstone
- MCS*4100 [0.50] Entrepreneurship
- MCS*4920 [0.50] Topics in Consumer Studies
- MCS*4950 [0.50] Consumer Studies Practicum
- MGMT*4020 [0.50] Interdisciplinary Food Product Development I
- MGMT*4030 [0.50] Interdisciplinary Food Product Development II
- MGMT*4050 [0.50] Business Consulting
- MGMT*4060 [0.50] Business Consulting
Public Management (PMGT)

Department of Economics and Finance, College of Business and Economics

The Public Management program is designed to lead to an understanding of public sector administration and management from the "inside" - as an integrated enterprise - as well as from the outside - as a series of policy decisions and outcomes. Characterized by a multi-disciplinary approach employing political, economic and business-oriented analysis, students will confront questions of why politicians and public servants behave the way they do, and how their policy choices and processes can be optimized. Management of public entities features a unique set of challenges that arise from and interact with basic political issues like democracy, accountability, equity, fairness, and justice. At the same time it necessarily faces concerns common to all organizations, such as efficiency, human and capital resource management, morale, planning, and adaptation to change.

The program will appeal to students interested in the public service, public sector businesses or business-government relations.

Students enrolled in the PMGT major can choose to complete three of the five required courses for the Certificate in Leadership as part of their requirements for the program if they choose the appropriate restricted electives. If you would like to graduate both with a BComm degree and the Certificate in Leadership you should use two of your free electives to enroll in HROB*1010 in either Semester 3 or 6 and HROB*4010 in semester 8. In addition to the five degree-credit courses selected from the above list, 120 hours of leadership practice are required to obtain the undergraduate Certificate in Leadership. See http://www.leadershipcertificate.com/ for information regarding this Certificate and its course requirements.

Degree Requirements (20.00 Total Credits)

12.00 - Required Core Courses
5.00 - Restricted Electives (from lists)
0.00 – MGMT*1100 (Business Career Preparation)
1.50 - Liberal Education Electives
1.50 - Free Electives

Major

Semester 1
ECON*1050 [0.50] Introductory Microeconomics
MCS*1000 [0.50] Introductory Marketing
MGMT*1000 [1.00] Introduction to Business
POL*1400 [0.50] Issues in Canadian Politics

Semester 2
ECON*1100 [0.50] Introductory Macroeconomics
HROB*2090 [0.50] Individuals and Groups in Organizations
MATH*1030 [0.50] Business Mathematics
POL*2300 [0.50] Canadian Government and Politics
0.50 electives

Semester 3
ACCT*1220 [0.50] Introductory Financial Accounting
ECON*2310 [0.50] Intermediate Microeconomics
ECON*2740 [0.50] Economic Statistics
POL*3250 [0.50] Public Policy: Challenges and Prospects
One of:
ECON*2100 [0.50] Economic Growth and Environmental Quality
ECON*2200 [0.50] Industrial Relations
ECON*2650 [0.50] Introductory Development Economics

Semester 4
ACCT*2230 [0.50] Management Accounting
ECON*2410 [0.50] Intermediate Macroeconomics
MGMT*1100 [0.00] Business Career Preparation
POL*2250 [0.50] Public Administration and Governance
One of:
PHIL*2120 [0.50] Ethics
PHIL*2600 [0.50] Business and Professional Ethics
PHIL*3040 [0.50] Philosophy of Law *
0.50 electives
* This course may be offered in the fall and can be taken later in the program.

Semester 5
ECON*2560 [0.50] Theory of Finance
FARE*3310 [0.50] Operations Management
MGMT*3320 [0.50] Financial Management
One of:
MCS*3040 [0.50] Business and Consumer Law
HROB*3050 [0.50] Employment Law
REAL*4840 [0.50] Housing and Real Estate Law
0.50 electives

Semester 6
ECON*3610 [0.50] Public Economics

Semester 7
MGMT*3020 [0.50] Corporate Social Responsibility
POL*3470 [0.50] Business-Government Relations in Canada

Semester 8
MGMT*4000 [0.50] Strategic Management

Electives

One of:
ECON*3300 [0.50] Economics of Health and the Workplace
ECON*3400 [0.50] The Economics of Personnel Management
ECON*3520 [0.50] Labour Economics
ECON*3580 [0.50] Economics of Regulation
ECON*3620 [0.50] International Trade
One of:
POL*3210 [0.50] The Constitution and Canadian Federalism
POL*3130 [0.50] Law, Politics and Judicial Process
POL*3270 [0.50] Local Government in Ontario
POL*3670 [0.50] Comparative Public Policy and Administration
0.50 electives***

*** If a 1.00 credit POLS is taken in either semester 7 or 8 this will meet the restricted elective requirement for both semesters POLS*4250 is recommended

** The number of electives will change if a 1.00 credit POLS course is taken in semester 7 or 8

Public Management (Co-op) (PMGT:C)

Department of Economics and Finance, College of Business and Economics

A principal aim of the Co-op program in Public Management is to facilitate the transition of students from academic studies to a professional career by enhancing the integration of theory and practice.

The Co-op program in Public Management is a five year program, including 5 work terms. Although the schedule includes 5 work terms, students have the option to complete only 4 of the 5 work terms, but must graduate with a Fall, Winter and Summer work term. Students are eligible to participate in a maximum two (2) summer employment processes and must follow the academic work schedule as outlined on the Co-operative Education and Career Services website: https://www.recruitguelph.ca/cecs/.

In order for students to be eligible to continue in the Co-op program, they must meet a minimum 70% cumulative average requirement after second semester, as well as meet all work term requirements. Please refer to the Co-operative Education program policy with respect to work term performance grading and work term report grading.

For additional program information students should consult with their Co-op Co-ordinator and Co-op Faculty Advisor, listed on the Co-operative Education and Career Services web site.

Last Revision: July 18, 2018
Students enrolled in the PMGT major may choose to complete three of the five required courses for the Certificate in Leadership as part of their required courses for the program if they select the appropriate restricted electives. If you would like to graduate both with a BComm degree and the Certificate in Leadership you should use two of your four free electives to enroll in HROB*2010 in either semester 3 or 6 and HROB*4010 in semester 8. In addition to the five degree-credit courses selected from the above list, 120 hours of leadership practice are required to obtain the undergraduate Certificate in Leadership. See http://www.leadershipcertificate.com/ for information regarding this Certificate and its course requirements.

### Degree Requirements (20.00 Total Credits)

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Semester 3</th>
<th>Semester 4 - Winter</th>
<th>Summer Semester</th>
<th>Fall Semester</th>
<th>Semester 5 - Winter</th>
<th>Semester 6 - Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*1050 [0.50] Introductory Microeconomics</td>
<td>ECON*1100 [0.50] Introductory Macroeconomics</td>
<td>ACCT*1220 [0.50] Introductory Financial Accounting</td>
<td>ECON*3610 [0.50] Public Economics</td>
<td>COOP*4000 [0.00] Co-op Work Term I</td>
<td>COOP*2000 [0.00] Co-op Work Term II</td>
<td>ECON*4310 [0.50] Operations Management</td>
<td>MGMT*3020 [0.50] Corporate Social Responsibility</td>
</tr>
<tr>
<td>MCS*1000 [0.50] Introductory Marketing</td>
<td>HROB*2090 [0.50] Individuals and Groups in Organizations</td>
<td>COOP*1100 [0.00] Introduction to Co-operative Education</td>
<td>FARE*3310 [0.50] Operations Management</td>
<td>ECON*3300 [0.50] Economics of Health and the Workplace</td>
<td></td>
<td>MCS*2020 [0.50] Intermediate Microeconomics</td>
<td>POLS*3470 [0.50] Business-Government Relations in Canada</td>
</tr>
<tr>
<td>MGMT*1000 [1.00] Introduction to Business</td>
<td>MATH*1030 [0.50] Business Mathematics</td>
<td>ECON*2310 [0.50] Intermediate Microeconomics</td>
<td>MCG*1000 [0.50] Financial Management</td>
<td>POLS*3000 [0.00] Co-op Work Term III</td>
<td></td>
<td>ECON*3520 [0.50] Labour Economics</td>
<td>One of:</td>
</tr>
<tr>
<td>POLS*1400 [0.50] Issues in Canadian Politics</td>
<td>POLS*2300 [0.50] Canadian Government and Politics</td>
<td>ECON*2740 [0.50] Economic Statistics</td>
<td>ECON*3300 [0.50] The Economics of Personnel Management</td>
<td>ECON*3300 [0.50] Economics of Health and the Workplace</td>
<td></td>
<td>POLS*2550 [0.50] Philosophy of Law</td>
<td>One of:</td>
</tr>
<tr>
<td>Semester 7 - Fall</td>
<td>Semester 8 - Winter</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MGMT*4000 [0.50] Strategic Management</td>
<td>POLS*4160 [1.00] Multi-Level Governance in Canada</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>POLS*4250 [1.00] Topics in Public Management</td>
<td>POLS*4270 [0.50] Advanced Lecture in Public Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>POLS*4970 [0.50] Honours Political Science Research I</td>
<td>POLS*4980 [0.50] Honours Political Science Research II</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.50 credits at the 3000 or 4000 level in Economics or 4000 level in Political Science</td>
<td>0.50 credits at the 4000 level in Economics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Winter Semester

- **COOP*4000 [0.00]** Co-op Work Term IV (Eight month work term in conjunction with COOP*5000)

### Summer Semester

- **COOP*5000 [0.00]** Co-op Work Term V (Eight month work term in conjunction with COOP*4000)

### Real Estate and Housing (REH)

#### Department of Marketing and Consumer Studies, College of Business and Economics

The Real Estate and Housing major in the B.Comm. program is one of only a few undergraduate programs in Canada that specialize in the real estate sector. It takes a multi-disciplinary approach to the study of residential and commercial/investment real estate. Topics such as the development, financing, valuation, market analysis and management of real estate are taught in the context of economic, legal, political and social factors affecting this large and growing field of business in Canada and the world.

The purpose of this major is to develop the conceptual, analytical and management skills required for careers in real estate and housing. Students graduate with a degree that can lead to a variety of professional positions in the private or public sectors of the Canadian real estate industry or they can continue on to graduate work in business, planning or the social sciences.

Elective options enable students to select courses which support or complement their primary field of study. Examples: (1) students can use Liberal Education and free electives to earn the Certificate in Leadership. See http://www.leadershipcertificate.com/ for information regarding this Certificate and its course requirements; (2) students interested in languages and/or going on exchange can use their Liberal Education and free electives to study one or more of the various languages taught at the University. (3) Students interested in obtaining their Accredited Appraiser Canadian Institute (AACI) designation should consider taking some of the additional 4 required courses through University of British Columbia distance education by letter of permission to count as electives in their degree, once they have completed REAL*4820.

Students may consult the REH Faculty Advisor or B.Comm. Program Counsellor for additional information.

### Degree Requirements (20.00 Total Credits)

- 16.00 - Required Core Courses
- 0.00 – MGMT*1100 (Business Career Preparation)
- 1.50 - Liberal Education Electives
- 2.50 - Free Electives

---

2018-2019 Undergraduate Calendar

Last Revision: July 18, 2018
In order for students to be eligible to continue in the Co-op program, they must meet a minimum 70% cumulative average requirement after second semester, as well as meet all work term requirements. Please refer to the Co-operative Education programs policy with respect to work term performance grading and work term report grading.

Elective options enable students to select courses which support or complement their primary field of study. Examples: (1) students can use Liberal Education and free electives to earn the Certificate in Leadership. See http://www.leadershipcertificate.com/ for information regarding this Certificate and its course requirements; (2) students interested in languages and/or going on exchange can use their Liberal Education and free electives to study one or more of the various languages taught at the University. (3) Students interested in obtaining their Accredited Appraiser Canadian Institute (AACI) designation should consider taking some of the additional 4 required courses through University of British Columbia distance education by letter of permission to count as electives in their degree, once they have completed REAL*4820.

For additional program information students should consult with the B.Comm Program Counsellors or their Co-op Co-ordinator and Co-op Faculty Advisor, listed on the Co-operative Education and Career Services web site.

Degree Requirements (20.00 Total Credits)
16.00 - Required Core Courses
1.50 - Liberal Education Electives
2.50 - Free Electives

Major

Semester 1
ECON*1050 [0.50] Introductory Microeconomics
REAL*1820 [0.50] Real Estate and Housing
MGMT*1000 [1.00] Introduction to Business
0.50 electives

Semester 2
ACCT*1220 [0.50] Introductory Financial Accounting
ECON*1100 [0.50] Introductory Macroeconomics
MCS*1000 [0.50] Introductory Marketing
MATH*1030 [0.50] Business Mathematics
0.50 electives

Semester 3
ACCT*2230 [0.50] Management Accounting
ECON*2310 [0.50] Intermediate Microeconomics
MGMT*1100 [0.00] Business Career Preparation
REAL*2850 [0.50] Service Learning in Housing
One of:
ECON*2740 [0.50] Economic Statistics
STAT*2060 [0.50] Statistics for Business Decisions
0.50 electives

Semester 4
ECON*2560 [0.50] Theory of Finance
HROB*2090 [0.50] Individuals and Groups in Organizations
MCS*2020 [0.50] Information Management
REAL*2820 [0.50] Real Estate Finance
0.50 electives

Semester 5
ECON*2410 [0.50] Intermediate Macroeconomics
FARE*3310 [0.50] Operations Management
REAL*4820 [0.50] Real Estate Appraisal
REAL*4840 [0.50] Housing and Real Estate Law
0.50 electives

Semester 6
ECON*3960 [0.50] Money, Credit and the Financial System
LARC*2820 [0.50] Urban and Regional Planning
MGMT*3020 [0.50] Corporate Social Responsibility
MGMT*3320 [0.50] Financial Management
REAL*3890 [0.50] Property Management
0.50 electives

Semester 7
ECON*3500 [0.50] Urban Economics
MGMT*4000 [0.50] Strategic Management
REAL*3810 [0.50] Real Estate Market Analysis
REAL*4870 [0.50] Sustainable Real Estate
0.50 electives

Semester 8
POLS*3270 [0.50] Local Government in Ontario
REAL*4830 [1.00] Real Estate Development Project
1.00 electives

Real Estate and Housing (Co-op) (REH:C)

Department of Marketing and Consumer Studies, College of Business and Economics

The Real Estate and Housing major in the B.Comm. program is one of only a few undergraduate programs in Canada that specialize in the real estate sector. It takes a multi-disciplinary approach to the study of residential and commercial/investment real estate.

The purpose of this major is to develop the conceptual, analytical and management skills required for careers in real estate and housing. Students graduate with a degree, once they have completed REAL*4820.

In order for students to be eligible to continue in the Co-op program, they must meet a minimum 70% cumulative average requirement after second semester, as well as meet all work term requirements. Please refer to the Co-operative Education programs policy with respect to work term performance grading and work term report grading.

Elective options enable students to select courses which support or complement their primary field of study. Examples: (1) students can use Liberal Education and free electives to earn the Certificate in Leadership. See http://www.leadershipcertificate.com/ for information regarding this Certificate and its course requirements; (2) students interested in languages and/or going on exchange can use their Liberal Education and free electives to study one or more of the various languages taught at the University. (3) Students interested in obtaining their Accredited Appraiser Canadian Institute (AACI) designation should consider taking some of the additional 4 required courses through University of British Columbia distance education by letter of permission to count as electives in their degree, once they have completed REAL*4820.

For additional program information students should consult with the B.Comm Program Counsellors or their Co-op Co-ordinator and Co-op Faculty Advisor, listed on the Co-operative Education and Career Services web site.

Degree Requirements (20.00 Total Credits)
16.00 - Required Core Courses
1.50 - Liberal Education Electives
2.50 - Free Electives

Major

Semester 1 - Fall
ECON*1050 [0.50] Introductory Microeconomics
REAL*1820 [0.50] Real Estate and Housing
MGMT*1000 [1.00] Introduction to Business
0.50 electives

Semester 2 - Winter
ACCT*1220 [0.50] Introductory Financial Accounting
ECON*1100 [0.50] Introductory Macroeconomics
MGMT*1000 [0.50] Business Career Preparation
REAL*2850 [0.50] Service Learning in Housing
One of:
ECON*2740 [0.50] Economic Statistics
STAT*2060 [0.50] Statistics for Business Decisions
0.50 electives

Semester 3 - Fall
ACCT*2230 [0.50] Management Accounting
ECON*2310 [0.50] Intermediate Microeconomics
MGMT*3020 [0.50] Corporate Social Responsibility
MGMT*3320 [0.50] Financial Management
REAL*3890 [0.50] Property Management
0.50 electives

Semester 4 - Winter
ECON*2410 [0.50] Intermediate Macroeconomics
FARE*3310 [0.50] Operations Management
REAL*4820 [0.50] Real Estate Appraisal
REAL*4840 [0.50] Housing and Real Estate Law
0.50 electives

Semester 5 - Fall
ECON*3960 [0.50] Money, Credit and the Financial System
LARC*2820 [0.50] Urban and Regional Planning
MGMT*3020 [0.50] Corporate Social Responsibility
MGMT*3320 [0.50] Financial Management
REAL*3890 [0.50] Property Management
0.50 electives

Semester 6 - Winter
ECON*3500 [0.50] Urban Economics
MGMT*4000 [0.50] Strategic Management
REAL*3810 [0.50] Real Estate Market Analysis
REAL*4870 [0.50] Sustainable Real Estate
0.50 electives

Semester 7 - Fall
POLS*3270 [0.50] Local Government in Ontario
REAL*4830 [1.00] Real Estate Development Project
1.00 electives

Real Estate and Housing (Co-op) (REH:C)

Department of Marketing and Consumer Studies, College of Business and Economics

The Real Estate and Housing major in the B.Comm. program is one of only a few undergraduate programs in Canada that specialize in the real estate sector. It takes a multi-disciplinary approach to the study of residential and commercial/investment real estate.

The purpose of this major is to develop the conceptual, analytical and management skills required for careers in real estate and housing. Students graduate with a degree, once they have completed REAL*4820.

In order for students to be eligible to continue in the Co-op program, they must meet a minimum 70% cumulative average requirement after second semester, as well as meet all work term requirements. Please refer to the Co-operative Education programs policy with respect to work term performance grading and work term report grading.

Elective options enable students to select courses which support or complement their primary field of study. Examples: (1) students can use Liberal Education and free electives to earn the Certificate in Leadership. See http://www.leadershipcertificate.com/ for information regarding this Certificate and its course requirements; (2) students interested in languages and/or going on exchange can use their Liberal Education and free electives to study one or more of the various languages taught at the University. (3) Students interested in obtaining their Accredited Appraiser Canadian Institute (AACI) designation should consider taking some of the additional 4 required courses through University of British Columbia distance education by letter of permission to count as electives in their degree, once they have completed REAL*4820.

For additional program information students should consult with the B.Comm Program Counsellors or their Co-op Co-ordinator and Co-op Faculty Advisor, listed on the Co-operative Education and Career Services web site.

Degree Requirements (20.00 Total Credits)
16.00 - Required Core Courses
1.50 - Liberal Education Electives
2.50 - Free Electives

Major
<table>
<thead>
<tr>
<th>Semester 7 - Fall</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*3500</td>
<td>[0.50]</td>
<td>Urban Economics</td>
<td></td>
</tr>
<tr>
<td>MGMT*4000</td>
<td>[0.50]</td>
<td>Strategic Management</td>
<td></td>
</tr>
<tr>
<td>REAL*3810</td>
<td>[0.50]</td>
<td>Real Estate Market Analysis</td>
<td></td>
</tr>
<tr>
<td>REAL*4870</td>
<td>[0.50]</td>
<td>Sustainable Real Estate</td>
<td></td>
</tr>
</tbody>
</table>

0.50 electives

<table>
<thead>
<tr>
<th>Semester 8 - Winter</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LARC*2820</td>
<td>[0.50]</td>
<td>Urban and Regional Planning</td>
<td></td>
</tr>
<tr>
<td>POLS*3270</td>
<td>[0.50]</td>
<td>Local Government in Ontario</td>
<td></td>
</tr>
<tr>
<td>REAL*4830</td>
<td>[1.00]</td>
<td>Real Estate Development Project</td>
<td></td>
</tr>
</tbody>
</table>

0.50 electives