1. **Administration**

School of Dietetics and Human Nutrition  
Room MS2-039  
Macdonald Stewart Building  
Macdonald Campus  
21,111 Lakeshore Road  
Sainte-Anne-de-Bellevue, QC H9X 3V9  
Telephone: (514) 398-7842  
E-Mail: DIETSTAGE@AGRADM.LAN.MCGILL.CA

1.1 **Administrative Officers**

DEBORAH J.I. BUSZARD, B.Sc.(Bath), Ph.D.(Lond.)  
Dean, Faculty of Agricultural & Environmental Sciences  

MARCEL J. COUTURE, B.Sc.(Agr.)(McG.), M.Sc.(Guelph)  
Associate Dean (Community Relations)  

ERIC R. NORRIS, B.S.A.(Tor.), M.Sc.(Guelph), Ph.D.(Mich. St.)  
Associate Dean (Academic and Student Affairs)  

DIANE E. MATHER, B.Sc.(Agr.)(McG.), M.Sc., Ph.D.(Guelph)  
Associate Dean (Research)  

PETER J.H. JONES, B.Sc.(U.B.C.), M.Sc.(U.B.C.), Ph.D.(Tor.)  
Director, School of Dietetics and Human Nutrition

2. **Academic Staff**

**Emeritus Professor**  
HELEN R. NEILSON; M.B.E., B.H.S., M.Sc.(McG.), P.Dt.

**Professor**  
JONES, PETER J.H.; B.Sc.(U.B.C.), M.Sc.(U.B.C.), Ph.D.(Tor.)  
KUHNLEIN, HARRIET V.; B.S.(Penn. St.), M.S.(Oregon),  
Ph.D.(Calif.Berkeley)

**Associate Professors**  
GRAY-DONALD, KATHERINE; B.Sc., Ph.D.(McG.)  
JOHNS, TIMOTHY A.; B.Sc.(McM.), M.Sc.(U.B.C.), Ph.D.(Mich.)  
KOSKI, KRISTINE G.; B.S., M.S.(Wash) Ph.D.(Calif.,Davis)  
KUBOW, STAN; B.Sc.(McG.), M.Sc.(Tor.), Ph.D.(Guelph)  
THIBAULT, LOUISE; B.Sc., M.Sc., Ph.D.(Laval)

**Assistant Professors**  
BISSONETTE, DAVID; B.Sc.(F.Sc.)(McG.), Ph.D.(Tor.)  
CHAN, LAURIE H.M.; B.Sc., M.Phil.(Hong Kong), Ph.D.(London)  
RECEVEUR, OLIVIER; B.Sc., M.P.H., Ph.D.(Cal-Berkeley)  
WYKES, LINDA; B.Sc., M.Sc., Ph.D.(Toronto)

**Lecturers**  
JACOBS STARKEY, LINDA; B.Sc.(H.Ec.)(Mt.St.Vin.), M.Sc.(McG.),FCDA  
JOURDAN, CHRISTINE [Part-time]  
KESTENBAUM-RAM, MARGARET; B.Sc.(F.Sc.),M.B.A.(McG.)  
LUCAS, MAUREEN; B.Sc.(F.Sc.), M.Ed.(McG.)  
MAYRAND ROUTHIER, JOANE; B.Sc.(F.Sc.)(McG.)  
PHILLIPS, SANDRA; B.Sc.(F.Sc.)McG.), B.A.(Queen's)  
PLOURDE, HUGUES; B.Sc.(Nutr.Sc.)(McG.), M.Sc.(Nutri.)(Mtrl.)  
SCHAFTER, DONNA; B.Sc., M.Sc.(Nutr.Sc.)(McG.)  
R. Stojak [Part-Time]

**Cross-Appointed Staff**  
GOUGEON, REJEANNE; B.Sc.(Laval), M.Sc.(Col.), Ph.D.(Montr.)  
(Medicine)  
HOFFER, L. JOHN; B.Sc., M.D., C.M.(McG.), Ph.D.(M.I.T.)  
(Medicine)

3. **General Information**

3.1 **School of Dietetics and Human Nutrition**

The School of Dietetics and Human Nutrition is part of the Faculty of Agricultural and Environmental Sciences which is located on the Macdonald Campus of McGill University. The Macdonald Campus is in Sainte-Anne-de-Bellevue at the western end of the island of Montreal, 32 kilometres west of the city of Montreal and can be reached by city bus and train service.

The School offers a B.Sc.,(Nutr.Sc.) through programs in dietetics and nutrition. Professional Practice experiences in the dietetics major are provided in the McGill teaching hospitals and in a wide variety of health, education, business, government and community agencies. The dietetics major leads to membership in professional dietetics associations.

Health and well-being of individuals in relation to food choices and physiological status prevails as the unifying theme of the programs in the School. The availability and preparation of food, normal and clinical nutrition, community nutrition at the local and international level, the evaluation of nutritional products and their use in nutrition, and the communication of information about food and health form the core of academic programs.
Laboratory and lecture rooms are well supplied with modern and efficient teaching facilities, while the reference section of the Macdonald Campus Library and the research laboratories are equipped to permit the vigorous investigation of problems at both the undergraduate and postgraduate level.

3.2 Degrees Offered

Bachelor of Science in Nutritional Sciences – B.Sc.(Nutr.Sc.)

Two undergraduate degree programs are offered by the School. The Dietetics major leads to professional qualification. The Nutrition major offers three study options: Nutritional Biochemistry, Nutrition and Populations, or Nutrition of Food.

M.Sc. and Ph.D.

Graduate study is also offered at both the Master’s and Doctoral levels. For further information, contact the School or refer to the Agricultural and Environmental Sciences section of the calendar of the Faculty of Graduate Studies and Research.

4. Admission and Entrance Requirements

4.1 Admission

The academic year at McGill is made up of two sessions, the fall/winter or regular session, and the summer session. These are subdivided into the fall semester (September to December), the winter semester (January to April) and the four months of the summer session (May, June, July, and August). While most students enter in September, it is possible to be considered for admission to most of the Agricultural and Environmental Studies undergraduate programs in January.

The deadlines for submission of applications are: January 15 (applicants studying outside of Canada), February 1 (applicants from Canadian high schools outside of Quebec), March 1 (all other applicants). A non-refundable application fee of $60 (Can) must accompany the application form.

Application to the School of Dietetics and Human Nutrition can now be made using the McGill electronic application which can be downloaded directly from the Web (http://www.aro.mcgill.ca/admissions), click on "Request/ Download Application Kits". A printed application kit can also be ordered from that site. Those without easy access to the Web may obtain an electronic copy on diskette, or the application kit, by e-mailing, writing, or telephoning the Admissions and Registrar’s Office.

The same Application Form used to request admission to Agricultural and Environmental Sciences, Arts, Education, Engineering, Management, Nursing, Physical and Occupational Therapy, and Science. A second choice of program may be entered on the intended program of studies will be assessed for advanced standing credits, up to a maximum of 30 credits.

Application forms are returned to the Admissions and Registrar’s Office, McGill University, James Administration Building, 847 Sherbrooke Street W., Montreal, QC H3A 3N6. Telephone: (514) 398-3910. E-mail: admissions@aro.lan.mcgill.ca.

4.2 Entrance Requirements

Applicants whose mother tongue is not English, and who have not completed both a high school and a CEGEP program in the provincia of Quebec, must submit acceptable evidence of facility in English before their application for admission can be considered. See the General Information Section, page 4.

Quebec CEGEP Students

Applicants must have completed a two-year Quebec post-secondary Collegial program (CEGEP) in the Pure and Applied Sciences or the Health Sciences or its equivalent. (Applicants who have completed the DEC en sciences, lettres et arts are also eligible for admission. Applicants who have completed a DEC in a technical area will be considered on an individual basis.)

Applicants whose mother tongue is not English, and who have not completed both a high school and a CEGEP program in the provincia of Quebec, must submit acceptable evidence of facility in English before their application for admission can be considered. See the General Information Section, page 4.

Applicants must have completed a high school diploma with a grade of "C" or better in each, and five appropriate G.C.S.E. subjects at the Ordinary Level, including biology and English.

Advanced Level examination results which are appropriate to the intended program of studies will be assessed for advanced standing credit when the results are received directly from the appropriate Examination Board. A maximum of 30 credits are granted for Advanced Level papers and a maximum of 10 credits for papers in Mathematics. Credit is normally granted only for grades of "C" or better.

Applicants who have completed Advanced Placement Examinations in appropriate subjects with a grade of "3" or better will be granted some advanced standing, up to a maximum of 30 credits.

Students who are accepted on the basis of a high school diploma enter a program which is extended by one year to include the 30 credits which comprise the Freshman Year.

Applicants from Other Countries

The normal basis for review of a file is completion of the credentials which lead to university admission in the applicant’s country of study.

Students from the United Kingdom and Commonwealth countries may be admitted if they have completed Advanced Level examinations in chemistry, physics, and mathematics with a grade of "C" or better in each, and five appropriate G.C.S.E. subjects at the Ordinary Level, including biology and English.

Advanced Level examination results which are appropriate to the intended program of studies will be assessed for advanced standing credit when the results are received directly from the appropriate Examination Board. A maximum of 30 credits are granted for Advanced Level papers and a maximum of 10 credits for papers in Mathematics. Credit is normally granted only for grades of "C" or better.

Students who have a very good academic record in Lower Form VI and excellent results in at least five G.C.S.E. subjects at the Ordinary Level may be considered for admission to a program requiring the completion of a minimum of 120 credits.

For students applying on the basis of the French Baccalaureate, the minimum requirement is the Diploma in Series S in the "Première Group" with "Mention passable".

Applicants with the International Baccalaureate

Applicants should have completed Higher or Subsidiary Level mathematics and normally two of biology, chemistry, or physics. Ten advanced standing credits may be granted for mathematics and science Higher Level subjects completed within the IB Diploma, up to the maximum of 30 credits, while 6 credits will be given for non-science Higher Level examinations taken as part of the Diploma or for Higher Level Certificate subjects.

Transfer Students – Other

Students wishing to transfer from other universities and colleges are considered for admission on the basis of both their university work and previous studies. A minimum of 60 credits of work must be completed at McGill if a degree is to be granted. Students must...
also fulfill the requirements of a degree program. Credits are determined only once a formal application and all the necessary supporting documents are received.

Basic science requirements are: one semester of biology; two semesters of general chemistry, with labs; two semesters of physics (including mechanics, electricity and magnetism, and waves and optics), with labs, and one semester in each of differential and integral calculus. A minimum of two semesters of calculus plus two semesters of biology, chemistry or physics (four courses in all) are normally required for admission. A grade of B or better is expected in prerequisite mathematics and science courses.

This same policy is applicable to holders of undergraduate degrees.

Transfer Students - Inter-Faculty
Students wishing to transfer from one faculty to another must complete an inter-faculty transfer form. The deadline for submitting a transfer form for admission to the School is June 1 for admission in September and November 1 for admission in January.

Mature Student Admission
Residents of Canada who will be 23 years of age or older by September 1 (for admission for the fall session) or January 1 (for admission for the winter session) and who lack the academic background normally required for admission may apply for entrance as mature students. Individuals interested in being considered for entrance under this policy should contact the Admissions and Registrar’s Office for complete details.

5. Student Services
The information provided below is specific to Macdonald Campus. Students are also advised to consult the General University Information Section.

Students with temporary or permanent physical disabilities may obtain information concerning special support services from the office of the Associate Dean (Student Affairs).

The Macdonald Campus Student Services Office is located in Rowles House, telephone 398-7992. Available at that location are offices of the Counselling Services, Health Services, Off-Campus Housing, Student Aid, and Career and Placement Services.

Counselling Services – Professional counselling for vocational, time management or personal problems is available by appointment.

Student Health Service – McGill has two student health clinics, one on the Macdonald Campus and the other on the Downtown Campus. A referral service on the Macdonald Campus is available Monday through Friday. A nurse/health educator is on Campus two days a week and a physician may be seen by appointment on specified dates. Consultations with either a nurse or a physician can be arranged by calling 398-7992.

Off-Campus Housing – The Macdonald Campus service is available from June 1 to August 31 each year.

Student Financial Aid – A counsellor is available twice a month and a Student Aid Clerk is available Monday to Friday in the Macdonald Campus branch of McGill’s Student Aid and Scholarships Office. For additional information, call 398-7992.

Career and Placement Service (CAPS) – Student Services, in cooperation with the Faculty, has established a CAPS on Campus to bring together graduating students and potential employers. In addition to permanent employment, the Service also endeavours to assist both undergraduates and employers interested in summer employment and part-time work. CAPS operates on a year-round basis. Its services are available to currently registered students and those who have been away from the Campus for less than one year.

Athletics – Facilities available to Macdonald students are a gymnasium, pool, weight room, an indoor arena, tennis courts and large expanses of green space.

The athletics program is designed to help students relax in their spare time. It also allows the students to learn, practice or use a skill which they have developed during one of the many programs offered. Four types of programs are offered: instructional, recreational, intramural and intercollegiate. There are over 60 programs in all. A handbook, with complete information on all programs, is available at the Athletics Office in the Stewart Athletic Complex, telephone 398-7789.

Macdonald Campus Residence
Laird Hall, with a capacity of more than 250 students, is arranged on a co-educational basis and provides accommodation for both undergraduate and graduate students. Residents enjoy comfortable rooms, modern kitchens, cozy lounge facilities, and other amenities which help make their residence life a complete and meaningful part of their university experience.

Residence Fees for the 1997-98 session were Double occupancy – $1,816 and Single occupancy – $2,024. Residence fees cover the period September 1 to April 30. Only under exceptional circumstances will a student be granted permission to arrive prior to September 1 or remain in residence during the summer months. In any such case specific permission must be requested from the Campus Housing Office and an additional fee would be charged.

The Macdonald Campus Residence operation does not offer a Boarding Plan. Meals are on a cash basis and may be obtained from the Snack Bar facility of the Centennial Centre. The Snack Bar is open for breakfast and lunch only, 5 days per week, exclusive of Saturday, Sunday and holidays designated by the University. Students may buy individual meals on a cafeteria basis. Should a Laird Hall resident wish to arrange for a meal plan which would include dinner on a Monday to Friday basis, this service could be provided by the Snack Bar. For budgeting purposes the approximate cost of meals per person per session might be considered to be $3,000.

Application for Residence Accommodation
The Application for Admission package contains a form for applying for residence accommodation. Applications for residence and inquiries concerning the residence should be addressed to the Campus Housing Office.

Student Parking
Students who hold parking permits will be allowed to park on Campus provided they observe the parking regulations and other applicable rules.

Extracurricular Activities
All undergraduate, postgraduate, and Farm Management and Technology students are members of the Macdonald Campus Students’ Society. MCSS, through the 19-member Students’ Council, is involved in numerous campus activities such as social events, academic affairs, and the coordination of clubs and organizations. All B.Sc.(Nutr.Sc.) students are also members of the Dietetics and Human Nutrition Undergraduate Society (DHNUS). Students in the Dietetics Major may become student members of the professional association. Student life is informal and friendly and student groups range from the Outdoor Adventure Club to the Photography Society.

The Centennial Centre is the students’ building and the centre of student life, offering facilities for student activities, such as meeting rooms, a Yearbook room, a pool table, a café, great places to relax, listen to music and meet friends. Also located in the C.C. are the Students’ Council offices, an information desk, and the campus store, the Robber’s Roost.

6. Academic Information and Regulations
Students in the B.Sc.(Nutr.Sc.) program are governed by the rules and regulations of the Faculty of Agricultural and Environmental Sciences, excerpts of which are given below. Additional information regarding the credit and grading system, examination regula-
6.1 Academic Credit Transfer

Transfer of credits (maximum of 30) based on courses taken at other institutions before entrance to this Faculty is made by the Admissions Committee prior to entrance.

Transfer of credits may be made for work at other educational institutions during a student’s attendance at McGill University. Permission to apply such credits to a McGill program must be secured by the student from the Academic Adviser of their program before the work is undertaken. Forms are available in the Student Affairs Office (Macdonald Campus). Grades obtained in such courses do not enter into calculations of grade point averages (GPA) in this Faculty.

Exemption from a Required or Complementary course on the basis of work completed at another institution must be approved by both the Academic Adviser and the instructor of the appropriate McGill course.

Full-time students may, with the written permission of the Associate Dean of the Faculty, register for 3 credits, or exceptionally 6 credits, in each semester at any university in the province of Quebec. These courses successfully completed with a minimum grade of C (according to the standards of the university giving the course), will be recognized for the purpose of the degree but the grades obtained will not enter into calculations of GPA in this Faculty.

6.2 Standing

The program for the degree with a Major in Nutrition will normally be completed in three academic years or six semesters (following the Freshman Year, if one is required). The degree with a Major in Dietetics will normally be completed in three and one-half academic years or seven semesters. For the purpose of student classification, the years will be termed U1, U2 and U3.

U1 to be used during the first 12 months following each admission to a degree program in which the student is required to complete 72 or more credits at the time of admission.

U2 to be used for all students who are not U1 or U3.

U3 to be used during the session in which it is expected the student will qualify to graduate.

ACADEMIC ADVISERS

Before registration, all students must select a Major program of study. They must consult with the Academic Adviser of their chosen program for the selection and timetabling of Required, Complementary, and Elective courses. The Academic Adviser will continue to act in this capacity during the whole of the student’s studies in the Faculty.

6.3 Degree Requirements

To be eligible for a degree, students must have passed all required and complementary courses and also any specified electives recommended by their advisor. They must have accumulated at least 90 credits for the Nutrition Major and at least 115 credits for the Dietetics Major including four levels of professional formation. At least 60 credits must be taken at McGill. A CGPA of at least 2.00 is required for graduation.

7. Academic Programs

7.1 Freshman Entry Program

Students entering the four year (or longer) programs take the following courses and 2 credits of electives in their first year at McGill.

7.2 Major in Dietetics

Academic Advising Coordinator: Linda Jacobs Starkey

Dietitians are qualified for challenging professional and leadership positions related to food and health. The designations “Dietitian” and “Nutritionist” are reserved titles in the province of Quebec. As clinical nutritionists, dietitians may work in health and food service centres and hospitals, nutrition counselling centres, clinics and private practice. As community nutritionists, dietitians are involved in nutrition education programs through schools, sports centres and local and international health service agencies. The dietitian in the food service sector, industry or private sector participates in all aspects of management to assure quality food products. Postgraduate programs are available to qualified graduates.

The duration of the program is three and one-half years following the DEC. Successful graduates are qualified for membership in the Dietitians Canada and the Ordre professionnelle des diététistes du Québec. Forty weeks supervised professional experience in clinical and community nutrition and food service systems management are included.

A compulsory immunization program exists at McGill which is required by the teaching hospitals before they will permit Dietetics students to practice. Students should complete their immunization before arriving at Macdonald. Medical/health documentation must be received prior to commencement of each level of Stage. There are no exceptions possible.

Students are reminded that unethical conduct on Professional Practice (stage) rotations is considered a serious offence. The Faculty reserves the right to require the withdrawal of any student at any time if (Faculty) feels the student has displayed unprofessional conduct or demonstrates incompetence.

Required Courses: 103 credits.

Complementary Courses: 6 credits.

Electives: 6 credits; selected in consultation with an Academic Adviser, to meet the minimum 115-credit requirement for the degree.

All required and complementary courses must be passed with a minimum grade of C.

<p>| CREDITS |
|------------------|---|
| Term 1           |   |
| 333-211A Biochemistry I  | 3 |
| 333-212A Biochemistry Laboratory  | 2 |
| 336-251A Microcomputer Applications  | 3 |
| 382-214A Food Fundamentals  | 3 |
| 334-242A Management Theories and Practices  | 3 |
| One Elective or Complementary  | 3 |
| Term 2           |   |
| 342-234B Biochemistry II  | 3 |
| 362-230B The Microbial World  | 3 |
| 382-217B Application of Food Fundamentals  | 3 |
| 382-207A.B.C Nutrition and Health  | 3 |
| 382-208J* Professional Practice (Stage) in Dietetics Level I  | 4 |
| One Elective or Complementary  | 3 |
| Term 3           |   |
| 342-323A Mammalian Physiology  | 4 |
| 342-330A Fundamentals of Nutrition  | 3 |
| 360-310A.B Statistical Methods I  | 3 |
| 382-345D Food Service Systems Mgmt  | 5 |
| 382-322A Instructional Communications  | 2 |
| One Elective or Complementary  | 3 |</p>
<table>
<thead>
<tr>
<th>Term 4</th>
<th>342-424B Metabolic Endocrinology</th>
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<tr>
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<td>334-343B Accounting and Cost Control</td>
<td>3</td>
</tr>
<tr>
<td>382-337B</td>
<td>Nutrition Through Life</td>
<td>3</td>
</tr>
<tr>
<td>382-310B*</td>
<td>Professional Practice (Stage)</td>
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<td>in Dietetics Level II a</td>
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<td>382-311C*</td>
<td>Professional Practice (Stage)</td>
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<td>in Dietetics Level II b</td>
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<td>382-344B</td>
<td>Clinical Nutrition I</td>
<td>3</td>
</tr>
<tr>
<td>Term 5</td>
<td>382-436A Nutritional Assessment</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>382-445A Clinical Nutrition II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>382-446A Personnel Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>382-450A Research Methods in Human Nutrition</td>
<td>3</td>
</tr>
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<td></td>
<td>One Elective or Complementary</td>
<td>3</td>
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<td>Term 6</td>
<td>382-403B Community Nutrition</td>
<td>3</td>
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<td></td>
<td>382-409B* Professional Practice (Stage)</td>
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<tr>
<td></td>
<td>in Dietetics Level III</td>
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<td></td>
<td>382-438B Interviewing and Counselling</td>
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</tr>
<tr>
<td>Term 7</td>
<td>382-410A* Professional Practice (Stage)</td>
<td>14</td>
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<tr>
<td></td>
<td>in Dietetics Level IV</td>
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</table>

*Successful completion of all component parts of each level of Professional Practice (Stage) in Dietetics courses is a prerequisite for the next level and must be passed with a minimum grade of C. All required and complementary courses must be passed with a grade of C or better. Undergraduate registration is restricted to students in the Dietetics Major, CGPA greater than or equal to 2.5. Visiting students contact the Advising Coordinator (Dietetics).

**Complementary Courses (6 credits)**

<table>
<thead>
<tr>
<th>Credits</th>
<th>Course Description</th>
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<tbody>
<tr>
<td>6</td>
<td>Social Processes and Social Institutions (3)</td>
</tr>
<tr>
<td></td>
<td>Comparative Cultures and Societies (3)</td>
</tr>
<tr>
<td></td>
<td>Psychology (3) or equivalent courses from another faculty.</td>
</tr>
</tbody>
</table>

**Electives (6 credits)**

Elective courses should be chosen in consultation with the academic adviser. The following courses most often fit the timetable; elective choice is not limited to these courses.

<table>
<thead>
<tr>
<th>Credits</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Introduction to Food Science (3)</td>
</tr>
<tr>
<td></td>
<td>Principles of Microeconomics (3)</td>
</tr>
<tr>
<td></td>
<td>Cellular Biology (3)</td>
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<td></td>
<td>Academic and Scientific Writing (3)</td>
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<td></td>
<td>French Aliments (3)</td>
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<td></td>
<td>Ecology of Human Nutrition (3)</td>
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<tr>
<td></td>
<td>Directed Studies in Dietetics/Nutrition I (3)</td>
</tr>
<tr>
<td></td>
<td>Nutrition Research (3)</td>
</tr>
<tr>
<td></td>
<td>Nutrition in Developing Countries (3)</td>
</tr>
<tr>
<td></td>
<td>Herbs, Foods and Phytochemicals (3)</td>
</tr>
</tbody>
</table>

### 7.3 Major in Nutrition

**Academic Advising Coordinator:** Kristine G. Koski

This Major covers the many aspects of human nutrition and food and gives first, an education in the scientific fundamentals of these disciplines and second, an opportunity to develop specialization in nutritional biochemistry, nutrition and populations, or nutrition of food. Graduates normally will continue on to further studies preparing for careers in research, medicine or as specialists in nutrition. Research nutritionists, aside from working as university teachers and researchers, may be employed by some government and health protection agencies, in world development programs, or by the food sector.

**Required Courses:** 52 credits.

**Option Required and Complementary Courses:** 12 credits.

**Electives:** selected in consultation with Academic Adviser, to meet the minimum 90-credit requirement for the degree.

### 7.4 Minor in Human Nutrition

A Minor in Human Nutrition is available for students in other programs within the Faculty of Agricultural and Environmental Sciences, or in other faculties at McGill. It cannot be taken by students in the B.Sc.(Nutr.Sc.) program.

The six required courses for the Minor provide the nutrition, metabolism and foods base required for the student to have a strong fundamental knowledge in human nutrition. The additional five credits will allow the student to develop a more extensive background in a more specialized area of nutrition (i.e., nutrition and metabolism, cultural and behavioural aspects of nutrition, community and international nutrition).

**Required Courses:** 19 credits.

**Complementary Courses:** 5 credits, minimum.
Required Courses: 16

- 342-234B Biochemistry II 3
- 342-323A Mammalian Physiology 4
- 382-214A Food Fundamentals 3
- 382-337B Nutrition Through Life 3

Complementary Courses: min 8

- 342-330A (3) Fundamentals of Nutrition
- 382-207A,B,C (3) Nutrition and Health
- 382-307B (3) Human Nutrition

To obtain one of the Minors offered by the Faculty, students must complete the credits specified for the Minor (normally 24 credits) with a grade of C or higher. Not more than 6 credits may be counted for both the Major and the Minor programs, with the exception of Elective Courses in the Major program. As most courses listed at the 300 level and higher have prerequisites, students are urged to prepare their program of study well before their final year.

Students are advised to consult their Major Program adviser and the Academic Adviser of the Minor in their first year. At the time of registration for their penultimate year, students wishing to obtain a Minor must declare their intent. With the agreement of their Major Program adviser they must submit their program of courses already taken, and to be taken in their final year, to the Academic Adviser of the Minor. The Academic Adviser for the Minor will then certify which courses the student will apply toward the Minor and that the student’s program conforms with the requirements of the Minor.

8. Courses

The course credit weight appears in parentheses (#) after the name.

8.1 Nutrition and Dietetics

Successful completion of all components parts of each level of Professional Practice (Stage) in Dietetics is a prerequisite for the next level. All required and complementary courses listed in semesters prior to or with a Stage are prerequisites for that level. Undergraduate registration is restricted to students in the Dietetics Major, CGPA greater than or equal to 2.5. Visiting students contact the advising Coordinator.

Students are reminded that unethical conduct on Professional Practice (stage) rotations is considered a serious offence. The Faculty reserves the right to require the withdrawal of any student at any time if it (Faculty) feels the student has displayed unprofessional conduct or demonstrates incompetence.

382-202A COMPARATIVE CULTURES AND SOCIETIES (3)

(3 lectures) (Not open to students who have taken 151-202A.) The comparison of human societies at different levels of scale and complexity: hunting bands, horticultural and pastoral tribes, agrarian states and industrial states. Differences in the scale and complexity of social organization and cultural systems and their relation to different modes of subsistence. Offered in cooperation with the Department of Anthropology.

382-345D FOOD SERVICE SYSTEMS MANAGEMENT (5)

(2 hour lecture and 1 to 5-hour lab) (Prerequisite: 382-214A, 382-217B) An introductory course applying the principles of organization and

lems. This course is suitable for students who wish a course in human nutrition in their program. Professors Wykes and Kubow

382-208J PROFESSIONAL PRACTICE (STAGE) IN DIETETICS — LEVEL I. (4) (Six weeks directed experience: 2 weeks equivalent during the winter and 4 weeks in the summer) Two modules, consisting of 3 weeks directed experience each, in the areas of nutrition and food service administration. Clinical experience to be provided on campus and in participating health and food service centres.

Mrs. Jacobs Starkey

382-214A FOOD FUNDAMENTALS. (3) (2 lectures and 1 4-h. lab) (Prerequisite: 333-230A/B; Coreq: 333-211A/B and 333-212A/B) Study of composition, structure and chemical and physical properties of foods. To understand the scientific principals underlying chemical and physical phenomena that occur during the preparation of food. Laboratory emphasis on developing skills in handling and preparing food, and food assessment by sensory evaluation.

Professor Thibault

382-217B APPLICATION OF FOOD FUNDAMENTALS. (3) (2 lectures and 1 4-h. lab) (Prerequisite: 382-214A) A more intensive study of food and complex food mixtures, including their chemical and physical properties. Learning how to control the changes that take place during the preparation of food to obtain palatable, nutritious and safe food. An introduction to culturally determined food habits. Laboratory emphasis on acquiring new knowledge and application to basic food preparation and cooking principles.

Professor Thibault

382-301A PSYCHOLOGY. (3) (2 lectures and one conference) A study of the general characteristics of physical, social, emotional and intellectual development, the psychology of learning, and the growth and development of personality.

Dr. Stejek

382-307B HUMAN NUTRITION. (3) (3 lectures and 1 project; not open to students who have taken 382-207A,B) (Pre- or co-req: 177-201B, 507-311A) Cellular and organismal aspects of nutrition with emphasis on biochemical and physiological roles of carbohydrates, lipids, proteins, minerals and vitamins in disease prevention and promotion of optimum health.

Professor Jones

382-310B PROFESSIONAL PRACTICE (STAGE) IN DIETETICS — LEVEL IIA. (1) (1 2-hour conference/week) Human food intake assessment and evaluation will be practiced including modules on dietary interviewing, nutrition education teaching plans and documentation for the medical record. Practical aspects of health and food service administration will be addressed.

Mrs. Jacobs Starkey

382-311C PROFESSIONAL PRACTICE (STAGE) IN DIETETICS — LEVEL IIB. (5) (7 weeks) Two interrelated modules of directed experience in normal and clinical nutrition and foodservice management, in health care settings and the private sector.

Mrs. Jacobs Starkey

382-322A INSTRUCTIONAL COMMUNICATIONS. (2) (2 lectures, 1 lab) (Prerequisite: 382-207B) Instructional communication principles and techniques as applied to individuals and groups; from children to seniors and from non-professionals to professionals. Using nutrition principles, effective public speaking; development and use of audiovisual aids, brochures and handouts; writing for the media; non-verbal communication; giving and receiving feedback; group management techniques will be covered.

M. Lucas and Clinical Coordinators

382-337B NUTRITION THROUGH LIFE. (3) (3 lectures, 1 conference) (Prerequisite: 342-350A) Emphasis on applied quantitative aspects of human nutrition. Nutrient utilization, evaluation and requirements, as related to dietary standards.

Professor Kubow

382-344B CLINICAL NUTRITION I. (3) (2-2 hour lectures) (Pre/co-req: 342-323A, 382-337B, 342-424B) Clinical nutrition assessment and dietary modification of pathological conditions including hypertension, lipid disorders and cardiovascular disease, obesity, diverticulosis, cancer, COPD, anorexia nervosa and bulimia.

Professor Koski

382-345D FOOD SERVICE SYSTEMS MANAGEMENT. (5) (2 hour lecture and 1 to 5-hour lab) (Prerequisite: 382-214A, 382-217B) An introductory course applying the principles of organization and
management in the direction of a food service department. Emphasis on establishing standards to control and measure performance of the system and evaluate performance against standards. Students learn quantity food production principles and sanitation and safety regulations involved in operation of a food service establishment.

**Professor Bissonnette**

382-361B ENVIRONMENTAL TOXICOLOGY. (3) (3 lectures) Basic principles of environmental toxicology. Effects of pollutants including inorganic ions and anions, metals, hydrocarbons, polychlorinated biphenyls and polychlorodibenzo-p-dioxins, insecticides, herbicides, rodenticides, detergents, organometallic compounds, radioactive isotopes and air pollutants on individual organisms, populations, communities and ecosystems. Paradigms for measurement, evaluation and regulation. (Awaiting University Approval).

**Professor Chan**

382-403B COMMUNITY NUTRITION. (3) (3 hour conference) (Prerequisite: 382-337B) A study of the characteristics and prevention aspects of community health problems. Methods of nutritional assessment, dietary surveys and program planning will be examined. Opportunity to plan a nutrition program for a target population will be provided.

**Professor Gray-Donald**

382-406A ECOLOGY OF HUMAN NUTRITION. (3) (3 lectures) (Prerequisite: 382-214A, 342-337B). Not open to students who have taken 382-502A,B. The scientific basis of contemporary food selection for human nutrition; change in North American food availability and use patterns; sociological, behavioural, and economic influences on food choice; topics on the interaction of environment and food availability, quality and consumption.

**Professor Kuhnlein**

382-409B PROFESSIONAL PRACTICE (STAGE) IN DIETETICS – LEVEL III. (8) (ten weeks) Four interrelated modules of directed experience in clinical nutrition, foodservice management, normal nutrition education and community nutrition, in health care settings and the private sector.

**Mrs. Jacobs Starkey**

382-410A PROFESSIONAL PRACTICE (STAGE) IN DIETETICS – LEVEL IV. (14) (16 weeks) (Prerequisite: 382-409B) Interrelated modules of directed experience in clinical nutrition, foodservice management, normal nutrition education and community nutrition, in health care settings and the private sector.

**Mrs. Jacobs Starkey**

382-420A FOOD TOXICANTS AND HEALTH RISKS. (3) (3 lectures) (Prerequisite: 333-211A,B) The course provides an overview of the basic principles of food toxicology. The occurrence of health effects of the following toxicants will be discussed; food additives and preservatives; natural toxins in plants and marine foods; food borne molds and mycotoxins, heavy metals and pesticides; and products of food processing. Methods for safety evaluation, risk assessment and basis for current Canadian law and regulatory procedures.

**Professor Chan**

382-430A,B DIRECTED STUDIES IN DIETETICS/NUTRITION I. (3) An individualized course of study in dietetics/human nutrition under the supervision of a staff member with expertise on a topic not otherwise available in a formal course. A written agreement between student and staff member must be made before registration and filed with the student’s adviser.

**Staff**

382-431D,N DIRECTED STUDIES IN DIETETICS/NUTRITION II. (3) An individualized course of study in dietetics/human nutrition under the supervision of a staff member with expertise on a topic not otherwise available in a formal course. A written agreement between student and staff member must be made before registration and filed with the student’s adviser.

**Staff**

382-432A,B DIRECTED STUDIES IN DIETETICS/NUTRITION III. (3) An individualized course of study in dietetics/human nutrition under the supervision of a staff member with expertise on a topic not otherwise available in a formal course. A written agreement between student and staff member must be made before registration and filed with the student’s adviser.

**Staff**

382-433A,B,C DIRECTED STUDIES IN DIETETICS/NUTRITION IV. (3) (3 lectures) (Prerequisite: registration in 382-409B or equivalent; restricted to students in the Dietetics Major or documentation of requirement for professional association) An individualized course of study in dietetics and human nutrition not available through other courses in the School. Emphasis will be placed on application of foods and nutrition knowledge, analytic and synthesis skills, and time management. A written agreement between student and instructor must be made before registration. A “C” grade is required to pass the course. Limited enrolment.

**Mrs. Jacobs Starkey**

382-436A NUTRITIONAL ASSESSMENT. (2) (3 lectures) (Prerequisite: 382-214A, 382-217B and 382-337B) Review of literature covering current methodology and information related to the assessment of nutritional status in health and disease. Nutritional and clinical implications of nutrient interactions and how they relate to nutritional status.

**Professor Johns**

382-438B INTERVIEWING AND COUNSELING. (1) (1 2-hour conference) (Prerequisite: 382-344B and 382-311C) Techniques and strategies to increase proficiency in interpersonal skills, specifically “helping skills”. To review skills used in professional practice in the dietitian’s role as communicator, interviewer, counsellor, educator, motivator and behavioral change specialist.

**Mrs. Jacobs Starkey**

382-445A CLINICAL NUTRITION II. (4) (2 - 2 hour lectures, 1 conference) (Prerequisite: 382-337B and 342-424B) Rationale for clinical nutrition intervention for gastrointestinal and liver disease, hypermetabolic states, diabetes mellitus, renal disease and inborn errors of metabolism. Introduction to enteral/parenteral feedings.

**Professor Koski**

382-446A PERSONNEL MANAGEMENT. (3) (3 lectures, 1 conference) (Prerequisite: 380-242A) The management of people at work. Employee development and the leadership role. The nature of collective bargaining, the role of unions and management.

**Professor Bissonnette**

382-450A RESEARCH METHODS IN HUMAN NUTRITION. (3) (2 lectures, 3 hrs. research, 4 hrs. other) (Prerequisite: 382-337B, 360-310A/B, 382-344B) Introduction to methods of clinical, community, international, and laboratory-based nutrition research. Lectures, readings and assignments will cover basic research concepts. Students undertake a computer directed literature search and analysis.

**Professor Receveur**

382-451A NUTRITION RESEARCH. (3) (Prerequisite: 382-337B; coreq: 382-450A) An applied course in analysis and interpretation of nutrition data sets. Introduction to specialized dietary and anthropometric computer programs. Written and oral presentation of results.

**Professor Chan**

Graduate courses available to undergraduate students at the U3 level, with permission of instructor.

Note: Not all graduate courses are offered each year.

382-501A NUTRITION IN DEVELOPING COUNTRIES. (3) (2 lectures and one seminar) (Prerequisite: consent of instructor.)

382-504A,B SENSORY EVALUATION OF FOOD. (3) (2 lectures, 1 3-hour lab) (Prerequisite: a university level course in each of food/food science and statistics.)

382-511B NUTRITION AND BEHAVIOUR. (3) (2 lectures and one seminar) (Prerequisite: 382-445A for undergraduate students or consent of instructor.)

382-512A,B HERBS, FOODS AND PHYTOCHEMICALS. (3) (3 lectures and a project) (Prerequisite: 333-211A,B)

8.2 Courses Offered by Other Units

Given below are descriptions of courses offered by other units within the Faculty which form part of the B.Sc.(Nutr.Sc.) as Required, Complementary or commonly used Elective Courses. For additional courses in Agricultural and Environmental Sciences, please see the Faculty section in the Undergraduate Programs Calendar.

333-200A INTRODUCTION TO FOOD SCIENCE. (3) (3 lectures) This course enables one to gain an appreciation of the scope of Food Science as a discipline. Topics include introductions to chemistry, processing, packaging, analysis, microbiology, product develop-
ment, sensory evaluation and quality control as they relate to food science.

333-211A,B BIOCHEMISTRY I. (3) (3 lectures) (Prerequisite: 333-230A) Biochemistry of carbohydrates, lipids, proteins, nucleic acids; enzymes and coenzymes. Introduction to intermediary metabolism.

333-212A,B BIOCHEMISTRY LABORATORY. (2) (1 lecture, 1 lab) (Coreq: 333-211A,B) The laboratory use of ionic strength and pH; the chemical properties of carbohydrates, lipids, proteins and enzymes; the instruction of laboratory techniques such as titration, chromatography, the use of the analytical balance and the pH meter.

333-251B FOOD CHEMISTRY I. (3) (3 lectures; 1-3 hour lab) (Prerequisite: 333-211A,B) A study of the chemistry and functionality of the major food components, such as water, proteins, carbohydrates and lipids. The relationship of these components to food stability will be studied in terms of degradative reactions and processing.

333-300A FOOD ANALYSIS I. (3) (3 lectures; 1-3 hour lab) (Prerequisite: 333-251B) The theory and methodologies for the analysis of food products for moisture, fat, protein, ash and fibre (proximate analysis). The quantitative aspects of colour measurement and infrared spectroscopy are also developed in relation to the analysis of food systems.

333-315B FOOD ANALYSIS II. (3) (3 lectures; 1-3 hour lab) (Prerequisite: 333-300A) A more detailed treatment on the principal analytical techniques associated with the analysis of carbohydrates, lipids, proteins and vitamin constituents in food systems.

333-334B ANALYTICAL CHEMISTRY II. (3) (3 lectures; 1-3 hour lab) (Prerequisite: 333-213A or equivalent) Theoretical and practical aspects of potentiometric measurements (pH and other ion-selective electrodes), spectrophotometry, atomic absorption spectrophotometry, mass spectrometry, chromatography, the use of the analytical balance and the pH meter.

334-210A PRINCIPLES OF MICROECONOMICS. (3) (3 lectures) The field of economics as it relates to the activities of individual consumers, firms, and organizations. Emphasis is on the application of economic principles and concepts to everyday decision making and to the analysis of current economic issues.

334-242A MANAGEMENT THEORIES AND PRACTICES. (3) (3 lectures) An introduction to contemporary management theories and practices in organizations of the food sector.

334-343B ACCOUNTING AND COST CONTROL. (3) (3 lectures) An introduction to the basic principles and concepts of responsibility accounting and cost control, analysis and utilization of financial statements and control system data for decision making.

336-251A,B MICROCOMPUTER APPLICATIONS. (3) (3 lectures and one 2-hour lab) A user level computing course oriented toward the use of microcomputers rather than programming. The pros and cons of computerization, network basics, introduction to PC DOS, electronic spreadsheet analysis including graphics, database management including natural language interface, word/text processing and other software packages will be studied.


338-405B TRACER TECHNIQUES. (3) (3 lectures and one 3-hour lab) (Prerequisite: 338-303A or equivalent) Operation and theory of various radiation detectors; ionization chambers, G-M counter, proportional counter, solid and liquid scintillation counters, and autoradiography, counting statistics, measurements of environmental radioactivity; practice of radiological safety.

342-234B BIOCHEMISTRY II. (3) (3 lectures and one 3-hour lab) (Prerequisite: 333-211A) Metabolism in humans and domestic animals. The chemistry of alimentary digestion, absorption, transport, intermediary metabolism and excretion.

342-323A MAMMALIAN PHYSIOLOGY. (4) (3 lectures and one 3-hour lab) (Prerequisite: 344-202B or equivalent) A study of the organization, functions and regulation of various organ systems in mammals. The nervous, endocrine, muscular, cardiovascular, respiratory, urinary, digestive and reproductive systems are discussed.

342-330A FUNDAMENTALS OF NUTRITION. (3) (3 lectures) (Prerequisite: 333-211A and 342-234B) A discussion of the nutrients: water, carbohydrates, lipids, proteins, minerals and vitamins, with particular emphasis on their functions in and essentially for the animal organism.

342-424A METABOLIC ENDOCRINOLOGY. (3) (3 lectures and one 3-hour lab) (Prerequisite: 342-323A) A detailed study of the endocrine system and its role in the maintenance of homeostasis in higher vertebrates, including the endocrine regulation of energy balance.

342-551B CARBOHYDRATE AND LIPID METABOLISM. (3)

344-202B CELLULAR BIOLOGY. (3) (4 lectures) Cellular biology in prokaryotic and eucaryotic cells, including their interaction with viruses. Structure, function and replication of theoretical cell types with an emphasis on structure and structurally related function. Some examples of specialized cells are then provided to illustrate some of the differences between cell types. Some background in biochemistry is required.

348-330A,B EAP: FUNDAMENTALS OF ACADEMIC AND SCIENTIFIC WRITING. (3) (3 hours) (Prerequisite: entrance test. Restrictions: see above) The object of the course is to enable students who have previously mastered the basic elements of written English to produce well-written, well-researched, and well-documented scientific papers for an academic audience.

354-306A FRANÇAIS FONCTIONNEL - ALIMENTS ET NUTRITION. (3) (1 3-hour lecture) (Open to students who already have a good knowledge of French but not open to native speakers) An introduction to the language of nutrition and food sciences through the study of pertinent documents and appropriate literature. Emphasis will be on oral and written French.

360-310A,B STATISTICAL METHODS I. (3) (3 lectures and 1 2-hour lab) Measures of central tendency and dispersion; normal, student's t, chi square, and F distribution; estimation and testing hypotheses; analysis of variance for simple experimental designs; regression and correlations; binomial and Poisson distribution.

362-230B THE MICROBIAL WORLD. (3) (3 lectures and one 3-hour lab) The occurrence and importance of microorganisms (especially bacteria) in the biosphere. Principles governing growth, death and metabolic activities of microorganisms. An introduction to the microbiology of soil, water, plants, food, man and animals.

370-242A SOCIAL PROCESSES AND SOCIAL INSTITUTIONS. (3) (3 lectures) An introduction to sociology and to the major theoretical perspectives involved in the study of society. The examination of processes and institutions evident in society, particularly culture, socialization, interaction, deviance, the family, religion and education. Other selected topics include demography, ethnicity, racism, urbanization and social movements.