

Faculty of Education

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60 The Faculty of Education

Historical Overview

Over more than eighty years, the Faculty of Education has evolved from a few discipline-oriented courses in Education offered by the Faculty of Arts and Science into one of the largest and strongest Faculties of Education in the country. The first education course, covering both the history and philosophy of education, was approved in 1911 and first offered in 1912. In 1928, the School of Education was created under the administration of the Faculty of Arts and Science. It opened the following year with an enrolment of seven students. The School later evolved into the College of Education; then, in 1942, into the Faculty of Education. In 1945, the Province of Alberta closed its Normal Schools in Calgary and Edmonton and turned control of teacher education over to the University of Alberta. Alberta was the first province in Canada to make teacher education exclusively a university responsibility. Since 1945, the Faculty of Education has awarded more than 45,000 BEd degrees, and developed strong graduate programs that have provided outstanding educational leaders for institutions and school systems across Canada and around the world.

Mission Statement

The Faculty of Education at the University of Alberta endeavours to discover, disseminate, and exemplify knowledge about teaching and learning across the lifespan. The Faculty serves the local, provincial, national, and international teaching profession through enlightened pre-service programs, continuing education programs, and graduate degree programs.

The Faculty promotes the view that to be a teacher is to continue being a learner. We strive to develop knowledgeable and capable teachers who continue to question, to reflect and to explore. The development of critical thinking and empathic understanding is at the core of all our programs.

To ensure that theory and practice are successfully integrated, the Faculty is committed to cooperation with the teaching profession. The Faculty unites around the principle that a diversity of perspectives is to be encouraged and valued in its teaching, its research, and its service to the community. Faculty members strive to be effective models with respect to teaching, research, professional development, ethical conduct, and commitment to students. The Faculty aspires to create a

caring and enlightened community in which diverse members are treated with dignity, respect, and fairness.

Teaching, Research, and Community Service

The Faculty of Education places a high priority on excellence in teaching, research, and community service. Education students will encounter many professors who have won distinctions such as Rutherford or Faculty of Education teaching awards. The Faculty also employs Field Experience Associates, seconded from local school systems, who have demonstrated their excellence in teaching at the elementary and secondary school levels.

Undergraduate students also have an opportunity to work closely with highly competent classroom teachers during the various components of their student teaching experience.

As might be expected in a leading Faculty of Education containing departments of Educational Psychology, Elementary Education, Policy Studies, and Secondary Education, as well as the School of Library and Information Studies, the research output of Faculty members is both extensive and wide ranging. At present, however, the Faculty has chosen to designate five broad topics of interdepartmental study as areas of research priority. These five areas of research excellence, led by internationally recognized scholars, are the following:

- School, Teacher, and Curriculum Transformation
- Literacy for All Canadians
- Learners with Special Needs
- Multiculturalism and International Education
- Information Technologies and Multi-media Studies

The Faculty of Education has also been a leader in service to the educational and broader communities. Many Faculty members and graduates devote many hours to professional development, curriculum development, and the production of educational materials for use in the schools. Many graduates have distinguished themselves in areas as diverse as the arts, politics, and public administration as well as in the classroom. Three outstanding exemplars, all of whom have been awarded the Order of Canada, are Myer Horowitz, former Dean of Education and President of the University of Alberta; Steve Ramsanker, principal of an inner-city school who has devoted his life to educating the under-privileged; and Thomas Peacocke, one of Canada's most widely acclaimed actors and directors.

Students entering the Faculty of Education will join a community with a strong tradition of teaching and research excellence and dedicated community service.

61 The Professors

61.1 Teaching and Scholarship

Students in the Faculty of Education have the opportunity to learn from outstanding teachers and scholars such as the following award-winning professors:

3M Teaching Award

Graham Fishburne (1990)

Rutherford Teaching Award

Graham Fishburne (1987)
Robert de Frece (1993)
Fern Snart (1994)
Moira Juliebo (1995)
Marg Iverson (1996)
Robert McKay (1997)
Olenka Bilash (1999)
Sue Gibson (2001)

Faculty of Education Undergraduate Teaching Award

Robert de Frece (1993)
Graham Fishburne (1993)
Fern Snart (1993)
John Mitchell (1994)
Dave Wangler (1994)
Marg Iverson (1995)
Moira Juliebo (1995)
Jim Parsons (1995)
Katherine Willson (1996)
Bob Frender (1997)
Robert McKay (1997)
Eamonn Callan (1998)
Joel Norris (1998)
Olenka Bilash (1999)
Brenda Gustafson (1999)
Sue Gibson (2000)
Stan Wilson (2000)
Jan jagodzinski (2001)

Faculty of Education Graduate Teaching Award

Anna Altmann (2001)
Jose da Costa (2001)

J Gordin Kaplan Award for Excellence in Research

Jean Clandinin (2000)
Max van Manen (2001)
JP Das (1987)

ATA Research Award

Robert McKay (1997)
Katherine Willson (1997)
Joyce Bainbridge (2000)
Jose da Costa (2001)
Margaret Haughey (2001)
Fern Snart (2001)

The Coutts-Clarke Fellowship

Tracey Derwing (1998)
Ingrid Johnston (1999)
Margaret Mackey (1999)
Judy Cameron (2000)
Tara Fenwick (2001)
Mark Gierl (2001)
Andre Grace (2002)

Killam Research Professorship

Ronna Jevne (1991)
Tom Kieran (1994)
Carolyn Yewchuk (1995)
Graham Fishburne (1997)
Richard Sobsey (2000)

McCalla Research Professorship

Robert Patterson (1981)
Erwin Miklos (1982)
Gerry Kysela (1982)
Michael Rodda (1983)
Tom Maguire (1983)
C C Anderson (1984)
Kazim Bacchus (1984)
Heidi Kass (1985)
Steve Hunka (1985)
William Fagan (1986)
Robert Mulchay (1987)
Bruce Bain (1989)
Lorraine Wilgosh (1989)
Tom Kieran (1989)
Max Van Manen (1990)
John Mitchell (1991)
Robert Carney (1991)
Richard Sobsey (1992)
Don Sawatzky (1993)
John Osborne (1993)
Ronna Jevne (1994)
Daiyo Sawada (1996)
Carolyn Yewchuk (1997)
Marg Iverson (1997)
Graham Fishburne (1998)
Joyce Bainbridge (1999)
Linda McDonald (2000)
Pat Rowell (2001)
Linda Phillips (2002)

UNESCO Prize for Peace Education

Swee-Hin Toh (2000)

61.2 Members of the Faculty

Officers of the Faculty

Dean

LS Beauchamp, EdD

Administrative Officer

JM Hiller, MEd

Associate Dean (Academic)

FD Snart, PhD

Associate Dean (External Relations)

JG Paterson, EdD

Associate Dean (Graduate Studies and Research)

CR Yewchuk, PhD

Associate Dean (Teacher Education)

MA Doherty, PhD

Associate Dean (Field Experiences)

JF Peters

Director of Student Support

J Frost, MEd

Faculty Adjunct Professors

D Baker, MEd
L Booi, BEd
J Brosseau, PhD

P Calahasen, MEd

E Dosdall, EdD

G Fairley, BCom

T Fortin, MEd

C Hyman, PhD

H Juergens, PhD

I Lewis, MEd

G Mar, LLB

A McBeath, MEd

D Ripley, PhD

J Schein, PhD

R Spellicy, PhD

WA Shaw, PhD

L Sloan, PhD

D Thachuk, MEd

MJ Williams, PhD

E Wolf-Schein, PhD

Faculty Adjunct Associate Professors

A Bromling, EdD

F Burghardt, MEd

E Choldin, MA

J Craig, MEd

M Podlosky, MEd

D Smith, PhD

D Stanley, BEd

G Thomas, PhD

G Welch, MEd

S Woitas, MEd

Faculty Adjunct Assistant Professors

F Brokop, MEd

P Campbell, EdD

T Janzen, PhD

M Norton, PhD

Field Experience: Adjunct Associate Professors

R Castle, MEd

B Cherniwchan, BEd

G Christophers, BEd

H Chyzowski, BEd

A Gardner, BEd

M Jones, BA

H Kerley, MEd

E Kostyshen, MEd

Y McKinnon, BEd

I McNeill, BA

I Nicolson, MEd

H Nikolai, BEd

G Norby, BEd

E Palfy, BEd

M Pansegrau, PhD

L Pizzey, MEd

G Sharples, MEd

J Shields, PhD

M Shillington, MA

J Sikora, BEd

D Thachuk, BEd

K Westerlund, MEd

G Wynn, MEd

Administrative Officers

GD Kendal, BA (Director, Enrollment Management)
P Thorbourne, BBusAdmin (Director, Undergraduate Student Services)
M Wadsworth, BA

Educational Policy Studies**Professor and Chair**
SP Norris, PhD**Professors**

J Fris, PhD
ML Haughey, PhD
HW Hodysh, PhD
WG Maynes, PhD
D Neu, PhD
JF Peters, PhD
GD Taylor, PhD
SH Toh, PhD
DG Wangler, PhD
MP Wilson, PhD
B Young, PhD

Associate Professors

PA Brook, EdD
JL daCosta, PhD
JL Kachur, PhD
C Kreber, PhD
DA Mappin, PhD
SL Wilson, PhD

Assistant Professors

AA Abdi, PhD
TJ Fenwick, PhD
R Foster, PhD
AP Grace, PhD
J Kelly, PhD
A Taylor, EdD
J Wallace, PhD
C Weber-Pillwax, PhD

Adjunct Professors

P Cookson, PhD
A Einsiedel, PhD
B Medicine, PhD
R Morrow, PhD
W Shillington, PhD

Adjunct Associate Professors

V Cawagas, EdD
E Harasymiw, PhD
D Haughey, PhD
T Hollihan, PhD
D Kapoor, PhD
X Ma, PhD
B Pickard, PhD
A Richardson, PhD
S Stiles, BEd
H Wynn, PhD

Adjunct Assistant Professors

M Pansgrau, PhD
P Quinney, PhD
N Yanitski, EdD

Administrative Officer

B Shokal, BEd

Educational Psychology**Professor and Chair**
LMO MacDonald, PhD**Professors**

MA Bibby, PhD
JA Cameron, PhD
TM Derwing, PhD
GC Hess, PhD
HL Janzen, PhD
J Lupart, PhD
TC Montgomerie, PhD

CA Norman, PhD
LA Paoliano, PhD
BL Paulson, PhD
WT Rogers, PhD
RH Short, PhD
FD Snart, PhD
RJ Sobsey, EdD
LL Stewin, PhD
M Szabo, PhD
LR Wilgosh, PhD
PW Wright, PhD

Associate Professors

RD Everall, PhD
RH Frender, PhD
MJ Gierl, PhD
JS Goldberg, PhD
X Ma, PhD
DA Mappin, PhD
RK Parrilla, PhD
L Ranta, PhD
D Truscott, PhD

Assistant Professors

M Carbonaro, PhD
J Leighton, PhD
N Merali, PhD
CM Rinaldi, PhD
W Whelton, PhD

Adjunct Professors

CA Blashko, MD
CE Cumming, PhD
GR Lefrancois, PhD
H Madill, PhD
R Randhawa, PhD
DWJ Reid, MD

Adjunct Associate Professors

J Drummond, PhD
J Evans, PhD
L Jones, EdD
S Maschiuch, PhD
G Millar, PhD

Adjunct Assistant Professors

N Brodie, PhD
D Brown, PhD
G Buck, PhD
S Carter, PhD
D Constable, PhD
C Diachuk, PhD
R Frenzel, PhD
D Harley, PhD
S Knish, PhD
K Kovach, PhD
S MacKenzie-Keating, PhD

D Massey, PhD
V Massey, PhD
G Matazow, PhD
B McKenzie, PhD
J Moench, PhD
C Paniak, PhD
W Penner, PhD
L Schnirer, PhD
R Sela, PhD
J Sneepe, PhD
G Stewart, PhD
K Stewart, PhD
S Varhagen, PhD

Administrative Officer

L Southorn

Elementary Education**Professor and Chair**
DJ Oberg, PhD**Professors**

JM Bainbridge, EdD
DJ Clandinin, PhD
RJ de Frece, DMA
JL Ellis, EdD
GJ Fishburne, PhD
BJ Gustafson, PhD

HW Hodysh, PhD
RK Jackson, PhD
RA McKay, PhD
LM Phillips, PhD
PM Rowell, PhD
KJ Willson, PhD

Associate Professors

HA Blair, PhD
M Emme, EdD
SE Gibson, PhD
LM Gordon, PhD
CA Leroy, PhD
JA McClay, PhD
AP Montgomery, DMusEd

Assistant Professors

J Branch, PhD
G Cooley, PhD
CN Hickson, Med
A Kirova, PhD
L Laidlaw, PhD
A von Heyking, PhD
J Wu, PhD

Adjunct Professors

S Jamieson, PhD
S Lynch, PhD
H Pearse, PhD

Adjunct Associate Professors

D Erickson, EdD
M Stevenson, PhD

Administrative Officer

WA Kiffiak, BA

School of Library and Information Studies**Professor and Director**
A Schrader, PhD**Professor**

HA Olson, PhD

Associate Professors

AE Altmann, DA
M Mackey, PhD
AHE Samek, PhD
DB Ward, PhD

Assistant Professors

LM Given, MLS
HE Julien, PhD

Adjunct Professor

D Oberg, PhD

Adjunct Assistant Professors

L Cook, MLS
G deVos, MLS
D Leonard, PhD

Secondary Education**Professor and Chair**
TR Carson, PhD**Professors**

LS Beauchamp, EdD
OSE Bilash, PhD
MA Doherty, PhD
ML Iveson, PhD
JJ Jagodzinski, PhD
JB Parsons, PhD
DJ Pimm, PhD
DG Smith, DPhil
SD Ubelackner, PhD
MJM van Manen, PhD

Associate Professors

GH Buck, PhD
BA Davis, PhD
TJ Dust, DMusEd
I Johnston, PhD

NE Melnychuk, PhD
NM Nocente, EdD
ESM Simmt, PhD
D Sumara, PhD

Assistant Professors

D Geelan, PhD
GW Richardson, PhD

Adjunct Professor

R Palmer, PhD

Adjunct Associate Professors

A Altmann, PhD
F Jenkins, PhD
H Olson, PhD
R Ritter, PhD

Adjunct Assistant Professors

D Binder, PhD
L Crawford, EdD
T Fenwick, PhD
P Gregor, MEd
M Mackey, PhD
M Yurick, MEd

Administrative Officer

C Champagne, MA

Division of Technology in Education**Coordinator**

GD Kendal, BA

Faculty Service Officer

H Hoekstra, MEd

Educational Centres and Services

Canadian Centre for Advanced Studies of National Databases Director
Xin Ma, PhD

Centre for Research in Applied Measurement and Evaluation

Director
WT Rogers, PhD

Centre for Research on Literacy

Director
LM Phillips, PhD

Centre for Research in Teacher Education and Development

Director
DJ Clandinin, PhD

Child Study Centre

Director
TBA

Clinical Services

Director
HL Janzen, PhD

Curriculum and Pedagogy Institute

Director
MJM van Manen, PhD

Hope Foundation of Alberta

Director
TBA

Imperial Oil National Centre for Mathematics, Science and Technology Education

Director
D Pimm, PhD

JP Das Development**Disabilities Centre**

Director
RJ Sobsey, EdD

Western Canadian Centre for Studies in Deafness

Director
TBA

Additional Members of Faculty Council**President and Vice-Chancellor**

R Fraser, PhD

Agriculture, Forestry, and Home Economics

L Capjack, MSc

Arts

J Bisanz

Business

B Scholnick, PhD

Extension

R Berman

Faculté Saint-Jean

P Dalley

Nursing

A Neufeld

Physical Education and Recreation

B Nielsen

Rehabilitation Medicine

L Taylor

Science

G Chambers, PhD

Herbert T Coutts Library

J Tong

Alberta Learning

F Burghardt

Alberta Teachers' Association

D Stanley

Education Students' Association

C Beamish
J Lo

Graduate Students' Association

A Brode
D Chorney

Non-academic staff representatives

S Materi
N Smiley

Sessional representatives

TBA
TBA

Acting Registrar of the University

CP Byrne, MBA

Additional Members of School of Library and Information Studies Council**President and Vice-Chancellor**

R Fraser, PhD

Dean, Faculty of Education

L Beauchamp, EdD

Representatives

Library Association of Alberta
Faculty of Arts
Faculty of Education
One academic staff in Category A, one from another discipline
Two students, School of Library and Information Studies

62 General Information

The Faculty of Education provides professional preparation for teachers and opportunities for graduate study for those interested in more advanced work in education. Undergraduate degree programs are available in preschool, elementary, secondary, or postsecondary/adult education.

Each Bachelor of Education degree program allows for certification as a teacher in Alberta. Teaching Certificates are granted by the Minister of Learning, on the recommendation of the Faculty of Education.

Student Visitors (persons on student visas) will not be recommended for certification.

All inquiries should be addressed to the Office of the Associate Dean (Undergraduate Student Services), Faculty of Education, University of Alberta, Edmonton, AB T6G 2G5.

62.1 Student Organizations

The Education Students' Association (ESA) is the largest undergraduate student organization within the Faculty of Education. As well as being the official representation for undergraduates in the Faculty, the ESA is also designated as Student Local #1 of the Alberta Teachers' Association (ATA). All members of the ESA are entitled to run for council or executive positions on the Education Students' Association. ESA has representation on a number of Faculty and Department councils and committees. Contact the Vice-President Academic of the ESA for more information.

The ESA publishes an online handbook for all Education students, rents lockers located in the Education building, and conducts a number of social, academic and professional events throughout the year. Contact the ESA office (1-101 Education Centre North, 492-3650) for further details.

63 Faculty Regulations

63.1 Speech Competency

Students entering the Faculty expecting to complete teacher certification requirements must demonstrate competent speaking ability in English.

- (1) Students demonstrating weakness in voice, fluency, or articulation may be referred to the Speech Centre in the Faculty of Education for evaluation.
- (2) Students requiring remediation of oral communication must continue working toward improvement as specified by the Director of the Speech Centre until the necessary improvement has been achieved.
- (3) Speech competence is a prerequisite for enrolment in Field Experience courses. Students who have not achieved the necessary level of competence may not register for these courses.

63.2 Registration Requirements

63.2.1 BEd; BEd (After Degree); BA (Native Studies)/BEd (Elementary) (Secondary) Combined Degrees Program; BMus/BEd (Secondary) Combined Degrees; BPE/BEd (Elementary) (Secondary) Combined Degrees Program; BSc in Human Ecology/BEd (Secondary) Combined Degrees Program

- (1) **Course Load:** The normal full course load for the Bachelor of Education; Bachelor of Education (After Degree); Bachelor of Arts (Native Studies)/Bachelor of Education Combined Degrees Program; Bachelor of Music/Bachelor of Education Combined Degrees; Bachelor of Physical Education/Bachelor of Education (Elementary) (Secondary) Combined Degrees Program; Bachelor of Science in Human Ecology/Bachelor of Education Combined Degrees Program each term of Fall/Winter is ★15. Permission to take more than ★15 each term may be granted under special circumstances. Students should contact the Undergraduate Student Services Office for more information.

Note: Students registered in the Introductory or the Advanced Professional Term are restricted to the maximum load of ★15 per term.

- (2) **Full-Time and Part-Time Registration:** Much of the degree program may be taken on a part-time basis; however, students are expected to register full time while doing their student teaching during the Introductory Professional Term and the Advanced Professional Term.
- (3) **Maintaining Registration:** Students who wish to interrupt their program without having to compete for admission may apply for permission to "stop out." Permission is granted only to students in good academic standing and only for a specified period. Information regarding a stop out is available from Undergraduate Student Services.

63.2.2 BSc (Specialization in Science and Education)/BEd (Secondary) Combined Degrees Program

Note: Students in the Bachelor of Science (Specialization in Science and Education)/Bachelor of Education (Secondary) Combined Degrees Program are registered in the Faculty of Science for the first two years of the five-year program. They are registered in the Faculty of Education commencing the beginning of third year.

- (1) A student in the combined program is not granted the privilege of repeating a failed course more than once during the program except with the permission of the Dean of Education and the Dean of Science. A student is not permitted to repeat a course in which a grade of D or more has been received except with the permission of the Dean of Education and the Dean of Science.
- (2) Courses with prerequisites may only be used for credit if the prerequisite requirements have been met. A grade of D is the minimum grade acceptable in a course to be used as a prerequisite.
- (3) Normally, no more than ★42 at the 100-level are permitted in the combined program.
- (4) A full-time student in the combined program should normally register in ★30 during Fall/Winter of each year of the program.
- (5) A student may be permitted to complete the requirements for the combined program over a longer period than five years on approval by the Dean of Education and the Dean of Science.

63.2.3 Field Experience Courses (Student Teaching)

The Assistant Dean (Field Experiences) acting on behalf of the Dean, may immediately deny assignment of a student to, withdraw a student from, or vary terms, conditions or site of a field experience placement if the Assistant Dean (Field Experiences) has reasonable grounds to believe that this is necessary in order to protect the Public Interest. Refer to §23.8.2 and §87 of the *GFC Policy Manual* for additional information.

- (1) Registration in Field Experience courses is a two-part process. Students must first register in EDFX courses using the Bear Tracks web registration system at www.registrar.ualberta.ca. Students must then report to Undergraduate Student Services, 1-107 Education North, to personally complete a Student Teaching Registration Card.
- (2) Students with problems related to health, speech, or any other disability should consult Undergraduate Student Services.
- (3) Because of the intensity of the workload during student teaching, and the expectation of the schools for full involvement, students must not exceed the ★15 maximum or register in any evening courses while enrolled in their Introductory or Advanced Professional Term.
- (4) Students are not permitted to register in Field Experience courses while on Academic Warning.
- (5) A student who has been assigned a grade of "W" or "NC" in a Field Experience course is entitled to a second registration in this course. See also §22.1.3 (Reregistration in Courses). Notwithstanding §22.1.3, if a student receives a "W" or "NC" in the second attempt of a Field Experience course, he/she is required to withdraw from the Faculty of Education.
- (6) Any student who has withdrawn from a Field Experience course must receive the approval of Undergraduate Student Services to reregister in the course.
- (7) Although special services are provided on campus to assist disabled students, these same services may not be available for off-campus placements.
- (8) The Faculty of Education is committed to a Regional placement program in which students are encouraged to complete field experiences in rural Alberta. All students should consider at least one regional placement. Students wanting rural placements should apply in early April for Fall Term and in early November for Winter Term.

- (9) Students are expected to access the Field Experience Handbook online at www.education.ualberta.ca/ed/UndDegProg before the beginning of each EDFX course. This handbook provides specific information about student teaching and outlines what is expected of student teachers.
- (10) Students in schools during the field experience are expected to conduct themselves according to the Alberta Teachers' Association Code of Professional Conduct and the University of Alberta Code of Student Behavior: Conduct and Discipline. Student teachers shall
- recognize and accept that the welfare of the students is of ultimate concern and that the cooperating teacher has the final responsibility for what occurs in the classroom; and
 - maintain an ethical and professional attitude toward all members of the school community. Become familiar with the Alberta Teachers' Association Code of Professional Conduct. This code will be a guideline for your behavior in the school community.

Students are held accountable to these standards and answerable to the Assistant Dean (Field Experiences) and the Dean of Education.

- (11) Access to transportation is not considered in making placements in the Edmonton area. Placements can be made anywhere in the Greater Edmonton area, including Devon, Fort Saskatchewan, Leduc, Morinville, St Albert, Sherwood Park, Spruce Grove and Stony Plain.
- (12) Field Experience courses other than EDFX 200, 475/476 are not normally offered during Spring/Summer.

63.2.4 Important Dates - Field Experiences

- (1) **EDFX 200:** withdrawal deadlines are as per the regular schedule.
- (2) **Elementary Route: Withdrawal Deadlines—Introductory Professional Term**
- | | |
|-----------------------------------|----------------------------|
| On-campus courses except EDEL 300 | End of Week 6 of Classes |
| EDEL 300 | End of Week 4 of Classes |
| EDFX 325 | End of Week 3 of Placement |
- (3) **Elementary Route: Withdrawal Deadlines—Advanced Professional Term**
- | | |
|-------------------|----------------------------|
| On-campus courses | End of Week 2 of Classes |
| EDFX 425 or 426 | End of Week 6 of Placement |
- (4) **Secondary Route: Withdrawal Deadlines—Introductory Professional Term**
- | | |
|-------------------------------------|----------------------------|
| On-campus courses except EDSE minor | End of Week 6 of Classes |
| EDSE minor | End of Week 4 of Classes |
| EDFX 350 | End of Week 3 of Placement |
- (5) **Secondary Route: Withdrawal Deadlines—Advanced Professional Term**
- | | |
|-------------------|----------------------------|
| On-campus courses | End of Week 3 of Classes |
| EDFX 450 | End of Week 6 of Placement |
| EDFX 451 | End of Week 3 of Classes |
- (6) Spring and Fall Break as per local school district.

63.3 Student Advising

Undergraduate Student Services (USS)

USS staff assists with admission, readmission, program requirements, field experiences, and any other issues related to a student's degree or diploma program.

USS maintains the official Faculty record of each student's academic program as well as the student teaching reports. These records are held for three years after graduation.

All queries can initially be handled by USS staff; if necessary, students will be referred to the appropriate University department for a final resolution.

Associate Dean (Teacher Education)

The Associate Dean is responsible for the overall administration of all matters related to the undergraduate program. The Associate Dean works with the Registrar's Office, other Faculties and departments, the Assistant Dean (Field Experiences), and the Director of Student Support on program-related concerns and any other problems arising in administering Faculty policies and regulations.

Associate Dean (Field Experiences)

The Associate Dean (Field Experiences) is responsible for all matters related to student teaching and field experience courses. Field Experiences staff arrange for cooperating teachers and university facilitators who work with students regularly during the Introductory and Advanced Professional Terms.

Director of Student Support

Students who encounter special difficulties should make an appointment with the Director of Student Support who assists students having problems related to their degree program or other problems of an individual nature. Students must obtain approval for certain special requests and must consult the Director before submitting a formal appeal to the Faculty Academic Appeals Committee.

63.4 Academic Standing and Promotional Standards

63.4.1 BEd; BEd (After Degree); BA (Native Studies)/BEd Combined Degrees Program; BPE/BEd (Elementary) (Secondary) Combined Degrees Program; BSc in Human Ecology/BEd (Secondary) Combined Degrees Program

- (1) Academic standing for the Bachelor of Education; Bachelor of Education (After Degree); Bachelor of Arts (Native Studies)/Bachelor of Education Combined Degrees Program; Bachelor of Physical Education/Bachelor of Education (Elementary) (Secondary) Combined Degrees Program; Bachelor of Science in Human Ecology/Bachelor of Education Combined Degrees Program is assessed based on the Fall/Winter grade point average (GPA). Students are expected to maintain a minimum GPA of 2.0. See §§23.4(6) and 23.9.2 for information on calculation of GPA's and the academic record. The GPA is printed on the official transcript and the Statement of Results issued after each Fall/Winter or Spring/Summer period.
- A review of academic performance is conducted for each student at the end of each Fall/Winter (September to April) and Spring/Summer (May to August), covering the previous period's work. If a student has only registered for one term during either Fall/Winter or Spring/Summer then a review will be done on that term.
- The assignment and reassignment of categories of academic standing are based on a student's performance in a minimum of ★9. If, at the time of review, the student has attempted fewer than ★9 since the last assignment of a category of academic standing, the review will be deferred and the academic standing assigned at the last review will remain in effect until the next review. The ★9 needed for an academic review is cumulative. Once a student has completed a minimum of ★9, over one or more terms, a review will be done.
- (2) **Categories of Academic Standing:**

One of three categories of academic standing is determined for each student based on the GPA.

Satisfactory Standing: Students with a GPA of 2.0 or greater are considered to be in Satisfactory Standing and may continue in the program.

Marginal Standing—Academic Warning: Students with a GPA of 1.7 to 1.9 inclusive are considered to be in Marginal Standing and may be permitted to continue on Academic Warning.

Unsatisfactory Standing—Required to Withdraw: Students with a GPA of 1.6 or less, or students who have been assigned Marginal Standing on two occasions (not necessarily consecutively) while registered in the Faculty, are considered to be in Unsatisfactory Standing and are required to withdraw from the Faculty.

63.4.2 Marginal Standing—Academic Warning

- (1) A student placed on Academic Warning resulting from Marginal Standing is bound by the following requirements:
- A student must complete ★30 with a GPA of 2.0, calculated on these ★30; or complete a minimum of ★24 with a GPA of 2.3, calculated on these ★24; or complete a minimum of ★18 with a GPA of 2.7, calculated on these ★18
 - Students are **not** required to complete these minimum number of units of course weight in one Fall/Winter.
 - A student on Academic Warning must maintain a GPA of at least 2.0 for each full session in which the student is enrolled.

- c. A minimum of ★9 does not have to be completed for a performance review to be conducted when a student is on Academic Warning. A review will be done after each term on any work done. A minimum GPA of 2.0 must be maintained on all work.
 - d. Registration in the Introductory or Advanced Professional Term will not be permitted while on Academic Warning. If special circumstances warrant, permission must be obtained from the Director of Student Support.
 - e. Students must maintain continuous registration during each Fall/Winter they are on Academic Warning by registering in at least ★3 during the September–April period. Students who do not maintain continuous registration will be required to compete for readmission.
 - f. Students are not normally permitted to take courses at another institution while on Academic Warning.
 - g. Students are not normally permitted to Stop Out [see §63.2.1(3)] while on Academic Warning.
- (2) **Required to Withdraw**
- a. Students cannot be placed on Academic Warning more than once during any degree program offered by the Faculty of Education. Therefore, students must maintain Satisfactory standing after clearing Academic Warning.
 - b. Students who fail to meet the standards and requirements of Academic Warning or who are placed on Academic Warning twice during their program will normally be required to withdraw and remain out of the Faculty.
- (3) **Readmission After Required to Withdraw**
- a. A student required to withdraw must apply and compete for readmission to the Faculty of Education after completing a minimum of ★24 transferable to the University of Alberta. See §15.5.1 VII.
 - b. Normally, students are to successfully complete the ★24 at another postsecondary institution. Students with a GPA of between 1.3 and 1.6 may be permitted to continue at the University of Alberta in the Fresh Start program to complete the ★24 providing they have not previously been on Academic Warning or Probation, or have been Required to Withdraw, from any postsecondary program. The Director of Student Support will determine whether to recommend a student for participation in the program and will notify the student of that option. Further detailed information can be found in §§14.5, 23.6.2, and 190.5.
 - c. Students who are not eligible to participate in the Fresh Start program may petition the Director of Student Support for permission to continue in the Faculty on probation. A student on probation must maintain a GPA of at least 2.0 on all work. Should a student's GPA fall below 2.0 on any work they will be required to withdraw and will not be readmitted to the Faculty.
 - d. Students who have been required to withdraw and who, after being readmitted, are again given Academic Warning will be required to withdraw and will not be readmitted to the Faculty.
- (2) Successful completion of the program requirements includes a GPA of 2.3 on all courses completed in the program.
- (3) Students must complete at least ★33 during each Fall/Winter in every year except Year 4 where ★30 is required. A reduced course load to ★24 requires only the approval of the Department of Music; a course load of less than ★24 requires the approval of both Faculties and is based on a recommendation from the Department of Music.
- (4) Students who fail to meet the requirements for promotion as outlined in (1) above will be required to withdraw from the BMus/BEEd Combined Degrees program. Such students may transfer to another program in the Faculty of Arts, the Faculty of Education or another Faculty, provided the entrance and promotion requirements for such a program are met. After transfer, all requirements for the new program must be met.
- (5) Students who fail to meet the fifth-year requirements in the program will be permitted to fulfill those requirements only with the approval of the Faculty of Arts and the Faculty of Education upon the recommendation of the Department of Music. Otherwise, students must withdraw from the program and, if so desired, transfer to another program in the Faculty of Arts or Education for which they are able to meet entrance and promotion requirements.
- (6) The BMus/BEEd Combined Degrees program may be interrupted only with the prior consent of the Department of Music, the Faculty of Arts, and the Faculty of Education. Readmission and continuation will be subject to any conditions, including reauditioning and new program requirements, that may be specified by the Department of Music, the Faculty of Arts, and the Faculty of Education.

63.4.4.1 Residence Requirements

- (1) Students proceeding toward the BMus/BEEd Combined Degrees program must normally have credit in at least ★96 offered by the University of Alberta.
- (2) Students who take part of their final ★60 at another postsecondary institution must seek the approval of the Department of Music, the Faculty of Arts, and the Faculty of Education.

63.5 Appeals

63.5.1 BEd; BEd (After Degree); BA (Native Studies)/BEEd Combined Degrees Program; BMus/BEEd Combined Degrees Program; BPE/BEEd (Elementary) (Secondary) Combined Degrees Program; BSc in Human Ecology/BEEd Combined Degrees Program

Faculty decisions regarding the Bachelor of Education; Bachelor of Education (After Degree); Bachelor of Arts (Native Studies)/Bachelor of Education Combined Degrees Program; Bachelor of Music/Bachelor of Education Combined Degrees Program; Bachelor of Physical Education/Bachelor of Education (Elementary) (Secondary) Combined Degrees Program; Bachelor of Science in Human Ecology/Bachelor of Education Combined Degrees Program academic standing or standing in an individual course can become the subject of an appeal. A student wanting to appeal an academic decision must attempt to resolve the issue first with the professor concerned (if applicable), then with the Department Chair, and, if still unresolved, with the Director of Student Support. For appeals relating to academic standing, students should first see the Director of Student Support and, if necessary, the Associate Dean (Undergraduate Student Services). If the matter remains unresolved, students may then appeal to the Faculty Academic Appeals Committee.

A written statement of appeal must be submitted to the Chair of the Faculty Academic Appeals Committee by the following deadlines:

- March 1 for Fall Term courses
- June 30 for Winter Term and Fall/Winter courses
- September 30 for Spring/Summer courses

These deadlines apply to appeals of grades and academic standing.

Further details of the Faculty's appeal procedures are available from the Director of Student Support or the Associate Dean (Undergraduate Student Services), 1-107 Education North. Certain decisions of the Faculty Academic Appeals Committee may be appealed to the General Faculties Council Appeals Committee. See §23.8.

63.4.3 Academic Standing for BSc (Specialization in Science and Education) and BEEd Combined Degrees Program

- (1) Continuation in the Bachelor of Science (Specialization in Science and Education) and Bachelor of Education Combined Degrees Program requires a Fall/Winter Grade Point Average (GPA) of at least 2.3. A student who does not meet the requirement to continue in the combined degrees program must withdraw from the combined program and may apply for admission to either a BEEd program or a BSc program, if eligible. Refer to §15.5.1 or §15.15.1 for academic standing regulations for admission to the BEEd or BSc General programs.

Note: Students in the BSc/BEEd are registered in the Faculty of Science for the first two years of the five-year program. They are registered in the Faculty of Education commencing the beginning of the third year.

- (2) **Grade Point Average (GPA):** The Grade Point Average is the weighted average over all courses attempted while registered in Fall/Winter. See §23.4(6) and §23.9.2 regarding rules for calculation of the GPA.

63.4.4 Academic Standing for the BMus/BEEd Combined Degrees Program

- (1) To be eligible to continue in the program, students will need a minimum GPA of 2.3 for each Fall/Winter. See §§23.4(6) and 23.9.2 for information on calculation of Fall/Winter GPAs and the academic record.

63.5.2 BEd/BSc (Specialization in Science and Education) Combined Degrees Program

- (1) A student in the Bachelor of Education/Bachelor of Science (Specialization in Science and Education) Combined Degrees Program seeking a review of a decision on academic standing must first consult the Associate Dean (Undergraduate Student Services) in the Faculty of Education and submit a written statement pertaining to the specific decision affecting the student's academic standing. This statement should include related documents on which an appeal can be based and must be made within 30 days of the original decision on academic standing. The Associate Dean of Education consults the senior Associate Dean of Science, and they decide on the appeal and inform the student.
- (2) If the student is not satisfied with the decision, the student may appeal, in writing, to the Dean of Education. The Dean of Education consults the Dean of Science. They decide on the appeal and inform the student. An appeal to the Dean must be made within 15 days of receiving the written decision from the Associate Dean.
- (3) If the student is still not satisfied, the student may appeal, in writing, to the Bachelor of Education/Bachelor of Science (Specialization in Science and Education) Program Appeals Committee on Academic Standing. An appeal to this committee must be made within 30 days of receiving the written decision from the Deans.
- (4) If the latter appeal decision is not satisfactory, the student has the right to appeal to the GFC Academic Appeals Committee. An appeal to this committee must be made within 30 days of receiving the written decision from the Combined Program Appeals Committee.

63.6 Reexamination

See §23.5.5.

63.7 Graduation

63.7.1 BEd and BEd (After Degree)

- (1) To receive the Bachelor of Education degree, students must
 - a. successfully complete a minimum of ★60 of their program at the University of Alberta and a minimum of ★45 after admission to the Faculty of Education (After Degree students must complete a minimum of ★30 after admission to the Faculty of Education).
 - b. obtain a graduation GPA of 2.0 calculated on the most recent ★60 completed at the University of Alberta for the Bachelor of Education or the most recent ★45 completed at the University of Alberta for the Bachelor of Education/After Degree. Courses with non-numeric marks are included in the credit count but not in the calculation of the average; and
 - c. successfully complete all field experience requirements.
- (2) Students may complete up to ★12 in addition to those required for the degree program to raise their graduation GPA to the required level of 2.0.
- (3) To qualify for the notation "With Distinction" on their parchment, students must have achieved a graduation GPA of 3.5.
- (4) For students expecting to convocate at Spring Convocation, all course requirements must be completed by April 30. Those completing degree requirements during Spring/Summer will be eligible for Fall Convocation.

63.7.2 BA (Native Studies)/BEd Combined Degrees Program

- (1) Graduation requirements include an overall grade point average of 2.0 on all courses completed in the ★150 program, and a GPA of 2.1 on all courses completed in the Native Studies major.
 - a. 100-level courses: For the purpose of the combined degrees program normally no more than ★60 at the 100-level may be taken for degree credit.
- (2) To qualify for the Bachelor of Native Studies and the Bachelor of Education degrees, students must successfully complete relevant program requirements, have met the promotion, graduation, final year, and residence requirements, and have received the recommendation of the School of Native Studies Council and the Faculty of Education.

- (3) Degrees with Distinction shall be awarded to students who achieve a graduation grade point average of 3.5 or higher on the last ★90 taken at the University of Alberta. In cases where a student has taken courses at another institution as part of these ★90, the Degree with Distinction will be awarded at the discretion of the School and the Faculty.

Student Advising: Students will be jointly advised regarding program and course requirements by designated advisors in both the School of Native Studies and the Faculty of Education.

63.7.3 BSc (Specialization in Science and Education)/BEd (Secondary) Combined Degrees Program

- (1) To receive the Bachelor of Science (Specialization in Science and Education)/Bachelor of Education (Secondary Combined Degrees Program), a student must complete all requirements of the combined program and must achieve a graduation GPA of at least 2.3 on all courses with numeric grades credited to the combined program (calculated on the last ★90 credited to the degree). In addition, a GPA of at least 2.7 must be attained in all courses in the major Subject or Area of Concentration.

Notes

- (1) Only successfully completed courses applicable to the students' Bachelor of Science (Specialization in Science and Education)/Bachelor of Education (Secondary) Combined Degrees Program will be used to calculate the graduation GPA.
- (2) Students will be allowed to take up to ★12 in addition to those required for the degree program to raise their graduation GPA to the required level of 2.3.
- (3) Students who take part of the final ★60 at another postsecondary institution must seek approval of the Associate Dean (Undergraduate Student Services).
- (4) To qualify for the notation "With Distinction" on their parchment, students must achieve a graduation GPA of 3.5.

63.7.4 BMus/BEd (Secondary) Combined Degrees Program

- (1) To qualify for the Bachelor of Music/Bachelor of Education (Secondary) Combined Degrees Program, students must successfully complete relevant curriculum requirements, the promotion, final year and residence requirements, and receive the recommendation of the Department of Music, the Faculty of Arts, and the Faculty of Education.
- (2) Degrees With Distinction shall be awarded to students who achieve a grade point average of 3.5 or more, both on all of the units of course weight credited to the program and on all of the units of course weight in Music. In the case that transfer or other students have attempted, as part of their program, courses at other institution, the Degree "With Distinction" will be awarded at the discretion of the Faculties.

63.7.5 BPE/BEd (Elementary) (Secondary) Combined Degrees Program

Regulations for the Bachelor of Physical Education/Bachelor of Education (Elementary) (Secondary) Combined Degrees Program are the same as those for the Bachelor of Education degree (see §63.7.1).

63.7.6 BSc in Human Ecology/BEd (Secondary) Combined Degrees Program

Regulations for the Bachelor of Science in Human Ecology/Bachelor of Education (Secondary) Combined Degrees Program are the same as those for the Bachelor of Education degree (see §63.7.1)

63.8 Special Faculty Regulations

- (1) **Transfer from One Route to Another:** Students who wish to change their route should consult Undergraduate Student Services. Route changes are possible, but students must meet all the requirements of the new route, which may involve additional coursework. Admission to the new route is on a competitive basis.

Students wishing to change their Route must submit an Application for Readmission/Internal Transfer form to the Office of the Registrar and Student Awards.
- (2) **Advance Credits for Certificated Teachers:** Normally one year's credit in the four-year program is given for basic teacher education programs.

- (3) **Review of Inactive Programs:** A student whose degree program has been inactive for three years, or who has failed to complete the degree in 15 years, may have the program reviewed and, if necessary, rearranged according to prevailing requirements.
- (4) **Attending Another Institution as a Visiting Student:** Continuing students who wish to receive credit for coursework completed at another postsecondary institution must obtain a letter of permission from Undergraduate Student Services before attending the other institution as a Visiting Student.

63.9 Teaching Certification

Alberta Teaching Certificates are issued by the Minister of Learning and the Registrar, Teacher Certification and Development, Alberta Learning. The Faculty of Education recommends for certification those students who have completed the necessary requirements and are Canadian citizens or individuals lawfully admitted to Canada for permanent residence.

Students attending the University of Alberta on a Student Visa will not be recommended for certification.

To be recommended for an Alberta Teaching Certificate, a student must have completed a Bachelor of Education degree.

All persons applying for certification as a teacher in Alberta will be subject to the following restrictions on eligibility:

Except where the Minister of Learning decides otherwise, the Registrar, Teacher Certification and Development, Alberta Learning shall not issue a teaching certificate to

- (1) a person who has been convicted of an indictable offence under the Criminal Code; or
- (2) a person whom the Registrar has reason to believe should not be issued a certificate.

Applications for a teaching certificate shall be directed to the Registrar. As part of the application process, applicants will be asked whether they possess a criminal conviction. If the response is yes, the nature of the conviction and when and where they were convicted must be detailed.

The Registrar shall refuse to issue a teaching certificate to any applicant possessing an indictable criminal conviction. The Registrar may refuse to issue a teaching certificate to an applicant possessing a criminal conviction of a nature deemed unsuitable for teaching children or for any other reason. Applicants may appeal the decision of the Registrar to a Certification Appeal Committee established by the Minister. Appeals must be made in writing within 30 days of being advised of the Registrar's decision not to issue a certificate.

64 Professional Standards

Students' performance and behavior in the classroom on campus and while student teaching in the schools are subject to the guidelines laid out in the Code of Student Behavior (§30.3.3), §87 of the *General Faculties Policy Manual* and the Alberta Teachers' Association Code of Professional Conduct.

64.1 Criminal Record Check

Students should be aware that under the *Alberta Protection of Person in Care Act*, they may be required to satisfy a criminal record check before being allowed to serve a period of internship/practicum placement/field experience placement. Refer to §23.8.3 for more information.

64.2 Field Experience Placements, Professional Practice and the Public Interest

The Dean, or Designate acting on behalf of the Dean, may immediately deny assignment of a student or withdraw a student from, or vary terms, conditions or site of a field experience placement if the Dean or Designate has reasonable grounds to believe that this is necessary in order to protect the Public Interest. Refer to §23.8.2 and §87 of the *GFC Policy Manual* for additional information.

65 Programs of Study

65.1 Degree of BEd

Underlying Principles

The following principles underlie all teacher preparation programs:

- (1) The education of a teacher is a continuous, life-long process. In addition to emphasizing basic or fundamental preparation, the initial pre-service experience should aid the development of attitudes that encourage self-evaluation and improvement, and the acquisition of knowledge and skills that facilitate life-long learning.
- (2) All teacher preparation degree programs provide intending teachers with essential practical skills, a knowledge of theory and its relationship to practice, liberal studies, and subject-matter competence.
- (3) The Faculty of Education is committed to providing quality teacher preparation programs and recognizes the importance of continuously monitoring, evaluating and refining its offerings to adequately reflect changes in society and advances in knowledge.
- (4) The Bachelor of Education degree consists of a minimum of ★120, of which at least ★24 are taken before admission to the Faculty of Education.

Program Planning

The Faculty of Education provides students with an official program outline when they are admitted. Using this, students are expected to be able to identify remaining course requirements for their particular degree program.

Students are responsible for being acquainted with all applicable regulations and meeting the requirements for the degree as outlined. Any exceptions to the requirements must be approved in writing by the Associate Dean (Undergraduate Student Services) with one copy to be placed in the student's file and one to be given to the student.

Note: The program details listed in the following three sections apply only to students registered in the 1+3 Bachelor of Education degree program.

Students enrolled in the Bachelor of Education (After Degree) should consult §66 for program details.

65.2 Adult Education Route

65.2.1 General Information

The Adult Education Route in the Bachelor of Education degree is a continuing professional education program for adult educators and trainers instructing in various settings.

65.2.2 Components of the Program

Courses may be taken at various times in a student's program depending on individual plans for attending university. Normally, the minimum requirement of one year of full-time attendance occurs toward the end of a student's program.

Courses in the Preprofessional Year (★30)

The following courses represent the minimum ★24 of Transfer Credit granted to successful applicants: EDAE 223 (★3); EDAE 423 (★3); EDAE 243 (★3); EDAE 443 (★3); EDAE 323 (★3); EDFX 200 (★3); EDAE 343 (★3); EDFX 375 (★3)

The following courses represent the remaining ★6 of Transfer Credit in the Preprofessional Year: Non-Education Option (★3); Non-Education Option (★3)

Required Courses (★90)

Adult Education Level I (★12)

EDAЕ 345 (★3); EDAЕ 460 (★3); EDAЕ 390 (★3); EDPY 200 (★3)

Adult Education Level II (★12)

EDAЕ 461 (★3); EDAЕ 485 (★3); EDFX 475 (★3); Education Option (★3); choose any course offered by the Faculty of Education

Education General (★15)

EDFX 476 (★3); EDPS 410 (★3); EDPY 3XX/4XX (★3); choose any EDPY course at the 300- or 400-level; Education Options (★6); choose any courses offered by the Faculty of Education

English (★6)

Choose any Introductory courses offered by the Department of English.

Minor Courses (★15)

Choose these courses in consultation with the Adult Route advisor.

Non-Education Options (★21)

Select any courses from outside the Faculty of Education.

Open Options (★9)

Select any courses from any Faculty.

Notes

- (1) Minor courses will be chosen in consultation with the program advisor to develop content skills in a second teaching area.
- (2) Non-Education courses may be used to extend competency in the Minor or for a more general education.

65.3 Elementary Education Route**65.3.1 General Information**

The Department of Elementary Education prepares teachers to teach all subjects and to facilitate the learning of all children at the elementary school level within our multicultural society. Teaching proficiency depends on knowledge of subject matter, pedagogy, critical thinking and problem-solving skills, professional ethics, sensitivity to and respect for children and the sociocultural contexts in which they live, and an understanding of schooling in their social/political/economic environment. Developing attributes, fostering a sense of community, and developing a strong professional commitment reflected in a personal philosophy of education are the intent of the Department of Elementary Education.

65.3.2 Components of the Program

All students in the Elementary Route are enrolled in a generalist program that prepares prospective teachers in the required elementary school subjects. This degree consists of ★120 overall, of which ★30 are normally taken in a preprofessional year. Students planning to enter the Elementary Route are strongly encouraged to take the Non-Education elements in the Preprofessional Year.

Program Requirements (★120)

- (1) ★24 in Non-Education Elements, to be chosen from the following seven subject areas:
 - Element I: Language/Literature** ★6 chosen from Classics, Comparative Literature, English, or Linguistics.
 - Element II: Mathematics** ★3 chosen from Mathematics or Statistics (MATH 160 recommended).
 - Element III: Social Science** ★3 chosen from Anthropology, Economics, History, Political Science, or Sociology.
 - Element IV: Natural Science** ★3 chosen from Astronomy, Biology, Chemistry, Earth and Atmospheric Sciences (from Faculty of Science), Environmental and Conservation Sciences, Forestry, Physics, Plant Science, or Soil Science.
- Note:** PSYCO 104 cannot be used for this element.

Element V: Fine Arts ★3 chosen from Art; Art History; Dance; Design; Drama; Film Studies; Music; or Textiles, Clothing and Culture.

Element VI: Physical Education ★3 PEDS 293.

Element VII: Health Education ★3 chosen from ANTHR 393; HECOL 200, 210, 211, 310; HE ED 110; or SOC 271.

(2) Education Core I (★6)

EDFX 200 (★3); EDPY 200 (★3)

(3) Computing Requirement (★3)

EDIT 202 is recommended or CMPUT 1XX or equivalent. (Students are encouraged to enroll in the Computing Requirement as early as possible).

(4) Introductory Professional Term (★15)

EDEL 300 (★3); EDPY 301 (★3); EDFX 325 (★3); EDPY 303 (★3); EDPS 310 (★3)

(5) Education Core II (★15) chosen from

EDEL 302 (★3); EDEL 325 (★3); EDEL 305 (★3); EDEL 330 (★3); EDEL 316 (★3); EDEL 335 (★3); EDEL 321 (★3)

Note: EDEL 305 and 316 are required and are not offered in the Advanced Professional Term.

(6) Advanced Professional Term (★15)

EDEL 3XX (★3) (chosen from Education Core II not yet completed); EDFX 425 (★9) (Special Education minors must take EDFX 426 instead of EDFX 425); EDPS 410 (★3)

(7) Minor Courses (★18–21)

All Elementary Route students must select a Minor to help develop further competence in an area of school instruction, or integrate knowledge from several disciplines. Some Minors may be completed more efficiently by taking specific courses in the Preprofessional Year. Students should examine the specific course requirements of each Minor when considering their choices. Full-year courses should be taken during students' first year in the Faculty of Education. Minors offered may vary each year. Minors currently offered are outlined in Education Chart 1.

(8) Non-Education Courses (★12–15)

Select any courses from outside the Faculty of Education. Students should enrol in courses that develop additional strengths for classroom teaching. Courses related to the teaching Minor or additional courses from the Elements are recommended.

(9) Open Option (★9)

Select any courses from any Faculty.

Note: A minimum of ★18 in Non-Education courses (Elements, Minor, Options) must be at the 200-level or higher. Of these ★18, at least ★6 must be from the Minor (for the Special Education Minor, ★3 must be from the Minor).

Education Chart 1 Requirements for Minors in the Elementary Route

Note: ★6 of Non-Education courses in a Minor must be at the 200-level or higher.

<p>Early Childhood Education (★21)</p> <p>Non-Education (★12)</p> <ol style="list-style-type: none"> ★12 chosen from ANTHR 250; C LIT 343; CHRTC 380; DANCE 431; DRAMA 149, 247; ENGL 287, 388, 389; HECOL 200, 310; LIS 401, 402; PEDS 492; SOC 271. <p>Education (★9) (see Note 3)</p> <ol style="list-style-type: none"> ★9 EDEL 355, 404, and 456. <p>Notes</p> <ol style="list-style-type: none"> (1) EDEL 404 has a prerequisite of an introductory curriculum and instruction course in language arts. (2) EDEL 355 and Introductory Professional Term are prerequisites to EDEL 456. (3) Students with an ECE diploma from a transfer institution that has qualified for 27 transfer credits will already have credit for EDEL 355. 	<p>485, 486, 493, 495; HECOL 211, 310, 312, 413; LING 101, 316, 319, 320, 322; SOC 100, 224, 225, 241, 260, 300, 301, 321, 322, 367, 368, 377, 471, 478; STAT 151, 252.</p> <p>Education (★6)</p> <ol style="list-style-type: none"> ★6 chosen from EDPY 402, 404, 410, 432, 442, 470, 472, 474. <p>Notes</p> <ol style="list-style-type: none"> (1) A minimum of ★3 of the Non-Education credits must be in Psychology. (2) A minimum of ★6 of the Non-Education credits must be at the 200-level or higher. (3) All 400-level EDPY courses above have a prerequisite of EDPY 200. 	<p>Fine Arts (★18)</p> <p>Non-Education (★12–15)</p> <ol style="list-style-type: none"> ★12 to ★15 chosen from ART 131; additional ART credits; ART H 101 or 102; additional ART H credits; DANCE 300, 340, 345, 350, 431; DRAMA 149, 325, 327, 353, 359; MUSIC 101, 102, 140, 141, 151, 155, 201, 207, 230, 240, 241, 314, 365, 379, 471, 473, 475 or 477. <p>Education (★3–6)</p> <ol style="list-style-type: none"> ★3 to ★6 chosen from EDEL 328, 400, 411, 425, 427; EDPS 404, EDSE 424 <p>Notes</p> <ol style="list-style-type: none"> (1) ART 131 is an Elementary Education prerequisite for all ART credits in this minor. (2) ART H 101 or 102 is a prerequisite for all other ART H credits in this minor. (3) DANCE 431 has a prerequisite of PEDS 292, 293 or 338 or consent of the Faculty of Physical Education and Recreation. (4) EDEL 400 has prerequisites of EDEL 302 and Introductory Professional Term. (5) EDEL 411 has prerequisites of EDEL 305 and Introductory Professional Term. (6) EDEL 328 has prerequisites of MUSIC 151 and 156. 	<ol style="list-style-type: none"> (7) EDEL 425 has a pre- or corequisite of MUSIC 230. (8) EDEL 427 has prerequisites of MUSIC 151, 156 and pre- or corequisite of MUSIC 207. (9) MUSIC 151 and 155 require entrance exams prior to the beginning of classes. Access to these classes is sometimes restricted by major depending on enrollment. <p>Intercultural/International Education (★18)</p> <p>Non-Education (★9)</p> <ol style="list-style-type: none"> ★9 chosen from ANTHR 150, 207, 208; LING 101, 102; NS 210; POL S 260, 276, 462; SOC 100, 101, 300, 368, 455; W ST 310 <p>Education (★9)</p> <ol style="list-style-type: none"> ★6 EDPS 411, 425 ★3 EDPS 422 or 432
<p>Educational Psychology (★18)</p> <p>Non-Education (★12)</p> <ol style="list-style-type: none"> ★12 chosen from PSYCO 104, 105, 212, 223, 233, 241, 258, 267, 275, 281, 323, 325, 339, 350, 354, 356, 357, 371, 372, 377, 381, 385, 423, 431, 435, 436, 443, 450, 452, 459, 468, 475, 476, 478, 482, 	<p>English as a Second Language (★18)</p> <p>Non-Education (★12)</p> <ol style="list-style-type: none"> ★9 LING 101, 102, 204, 209, 320 ★3 chosen from a second language, Anthropology, or Linguistics <p>Education (★6)</p> <ol style="list-style-type: none"> ★6 EDEL 451; EDPY 416 <p>Notes</p> <ol style="list-style-type: none"> (1) EDPY 416 has a prerequisite of the Introductory Professional Term and an introductory Linguistics course. (2) EDEL 451 has a prerequisite of EDPY 416. 		

Education Chart 1 Requirements for Minors in the Elementary Route (cont'd)

Note: ★6 of Non-Education courses in a Minor must be at the 200-level or higher.

Language Arts (★18)

Non-Education (★12)

- ★3 in senior English
- ★9 chosen from Classics, Comparative Literature, Drama, senior English, Linguistics

Education (★6)

- ★6 chosen from EDEL 405, 406, 407, 408, 409, 410, 411.

Note: All of the above EDEL courses have a prerequisite course of EDEL 305.

Mathematics/Science (★18)

Non-Education (★12)

- ★3 in MATH; STAT (MATH 260 recommended)
- ★3 chosen from ASTRO, BIOL, BOT, CHEM, EAS (Science), PHYS, ENCS 201; FOR 100, 372; INT D 204, PL SC 220; SOILS 210, ZOO.
- ★6 chosen from any one of the above areas.

Education (★6)

- ★3 chosen from EDEL 415 or 416.
- ★3 chosen from EDEL 432 or 433

Notes

- EDEL 415 and 416 have a prerequisite of EDEL 316.
- EDEL 432 and 433 have a prerequisite of EDEL 330.

Music (★24)

Non-Education (★15)

- MUSIC 151, 155, 156, 207, 230

Education (★9)

- EDEL 328, 425, 427 (see Note 2), 428

Notes

- MUSIC 101 or 170 should be taken in the Preprofessional Year.
- EDEL 427 must be taken in lieu of EDEL 325 in Education Core II.
- EDEL 328 and 427 have prerequisites of MUSIC 151 and 156.
- EDEL 428 has a prerequisite of MUSIC 101, EDEL 328 and 427.
- EDEL 328 has a prerequisite of MUSIC 151 and 156.
- EDEL 425 has a prerequisite or corequisite of MUSIC 230.

Native Education (★18)

Non-Education (★9)

- ★9 chosen from ANTHR 150, 207, 208, 227, 250, 455; LING 101, 102; NS 153, 210, 211; SOC 100 or 300, 101.

Education (★9)

- ★6 EDPS 411, 474
- ★3 EDEL 445 or EDPS 432

Physical Education (★18)

Non-Education (★15)

- ★6 to ★9 in games, dance, and gymnastics; ★3 from DANCE 340, 350 or 431; ★3 from PAC 360 or 365; ★3 from PAC 320 or 325.
- Remaining ★6 to ★9 Non-education credits chosen from any combination of the following: DANCE 340, 350 or 431; HE ED 110, 220, or 321; PAC 110, 111, 112, 118, 131, 137, 140, 173, 174, 181, 310, 311, 318, 320, 325, 331, 337, 360, 365, 370 or 381; PEDS 205 or 345; PERLS 207 or 345.
- ★3 PAC 320 or 325

- ★6 chosen from Health Education, Physical Activity, Physical Education, or Recreation and Leisure Studies.

Education (★3)

- ★3 EDEL 420.
- Note:** EDEL 420 has a prerequisite of EDEL 321.

Second Languages: Arabic (★21)

Non-Education (★18)

- ★9 in Language/Linguistics chosen from ARAB 100, 301, 302.
- ★9 in Literature/Culture chosen from ARAB 499; C LIT 338, 357; PDL S 260; RELIG 220, 320, 422; SOC 271

Education (★3)

- ★3 EDEL 445.

Notes

- ARAB 100 should be taken in the Preprofessional Year.
- To complete the required ★21, ★3 must be taken as Non-Education options.

Second Languages: Cree (★21)

Non-Education (★18)

- ★12 to ★15 in Language/Linguistics chosen from LING 320; NS 105, 152, 153, 252, 352.
- Culture: ★3 to ★6 chosen from NS 210, 211, 300, 352, 355, 360, 400.

Education (★3)

- ★3 EDEL 445.

Note: To complete the required ★21, ★3 must be taken as Non-Education options.

Second Languages: French (★21)

Non-Education (★18)

- ★12 to ★15 in Language/Linguistics chosen from FREN 150, 251, 252, 253, 351, 352, 353, 372, 375, 456, 473, 479.
- ★3 to ★6 in Literature/Culture chosen from FREN 301, 333, 342, 343, 345, 346, 361, 364, 390, 432, 442, 443, 468, 469.

Education (★3)

- ★3 EDEL 445.

Notes

- Students who have credit in French 30 should register in FREN 150 and 251/252. All others consult the subject area advisor.
- FREN 150 should be taken in the Preprofessional Year.
- Many courses offered by Faculté Saint-Jean may be credited toward the program. Consult the subject area advisor.
- To complete the required ★21, ★3 must be taken as Non-Education options.

Second Languages: German (★21)

Non-Education (★18)

- ★12 to ★15 in Language/Linguistics chosen from GERM 150, 301, 306, 309, 316, 317, 402, 406, 407, 408, 409, 412, 416, 417, 441, 443.
- ★3 to ★6 in Literature/Culture chosen from GERM 311, 312, 333, 343, 351, 352, 404, 405, 460, 470, 475, 476, 480, 485, 486, 495.

Education (★3)

- ★3 EDEL 445.

Notes

- GERM 150 should be taken in the Preprofessional Year.
- To complete the required ★21, ★3 must be taken as Non-Education options.

Second Languages: Italian (★21)

Non-Education (★18)

- ★12 to ★15 in Language/Linguistics chosen from ITAL 100, 250, 394, 395, 425.
- ★3 to ★6 in Literature/Culture chosen from ITAL 331, 332, 363, 375, 415, 419.

Education (★3)

- ★3 EDEL 445.

Notes

- ITAL 100 should be taken in the Preprofessional Year.
- To complete the required ★21, ★3 must be taken as Non-Education options.

Second Languages: Japanese (★21)

Non-Education (★18)

- ★12 to ★15 in Language/Linguistics chosen from JAPAN 101, 102, 201, 202, 250, 301, 302, 305, 306, 350, 401, 402, 425, 426, 451, 452.
- ★3 to ★6 in Literature/Culture chosen from JAPAN 321, 322, 350, 415, 416, 418, 419, 420.

Education (★3)

- ★3 EDEL 445.

Notes

- JAPAN 101 should be taken in the Preprofessional Year.
- To complete the required ★21, ★3 must be taken as Non-Education options.

Second Languages: Mandarin (★21)

Non-Education (★18)

- ★12 to ★15 in Language/Linguistics chosen from CHINA 101/102, 201/202, 211/212, 318/319, 341/342, 350, 401/402, 414, 450.
- ★3 to ★6 in Literature/Culture chosen from CHINA 220, 323, 324, 327, 338, 339, 410, 420, 425, 455.

Education (★3)

- ★3 EDEL 445.

Notes

- CHINA 101/102 should be taken in the Preprofessional Year.
- To complete the required ★21, ★3 must be taken as Non-Education options.

Second Languages: Spanish (★21)

Non-Education (★18)

- ★12 to ★15 in Language/Linguistics chosen from SPAN 100, 200, 201, 205, 300, 301, 305, 406, 407, 409, 475, 476.
- ★3 to ★6 in Literature/Culture chosen from SPAN 307, 308, 309, 310, 360, 412, 440, 450, 499.

Education (★3)

- ★3 EDEL 445.

Notes

- SPAN 100 should be taken in the Preprofessional Year.
- To complete the required ★21, ★3 must be taken as Non-Education options.

Second Languages: Ukrainian (★21)

Non-Education (★18)

- ★12 to ★15 in Language/Linguistics chosen from UKR 203, 204, 303, 304, 403, 404, 407, 410, 411.
- ★3 to ★6 in Literature/Culture chosen from UKR 327, 405, 415, 422, 423, 469, 471, 472, 473, 474, 475.

Education (★3)

- ★3 EDEL 445.

Notes

- UKR 203/204 should be taken in the Preprofessional Year.
- To complete the required ★21, ★3 must be taken as Non-Education options.

Second Languages: Other (★21)

It may be possible to arrange a program for students who intend to teach a language other than those listed here and which is offered in the school system. Interested students should consult the Second Languages Advisor.

Social Studies (★18)

Non-Education (★15)

- ★9 chosen, in three distinct subject areas, from Anthropology, Archeology (Department of Classics), Earth and Atmospheric Sciences, Economics, History, Law, Philosophy, Political Science, Religion, Sociology
- ★3 chosen from courses in Canadian History
- ★3 chosen from Earth and Atmospheric Sciences

Education (★3)

- ★3 EDEL 435.

Note: EDEL 435 requires EDEL 335 as a prerequisite.

Special Education (★18)

Non-Education (★3)

- ★3 chosen from courses relevant to Special Education, offered by Physical Education, Arts (Psychology, Sociology), Agriculture, Forestry, and Home Economics.

Education (★15)

- ★9 EDPY 452, 454, 456.
- ★3 one of EDPY 458, EDEL 406, 416.
- ★3 EDPY 4XX.

Note: Students in the Special Education Minor must take EDFX 426 not EDFX 425, in the APT.

Visual Studies (★24)

Non-Education (★18)

- ART 131 (★6) or ART 132 (★6) Visual Fundamentals.
- additional ★6 in ART.
- ART H 101 (★3) or ART H 102 (★3) Introduction to Art History.
- additional ★3 in ART H at a senior level.

Note: Studio art course availability is restricted by the Fine Arts Department during Fall and Winter, but not Spring and Summer. Students should expect to take courses during Spring and Summer.

Education (★6)

- EDEL 400 (★3) Design of Elementary Art Curriculum.
- EDES 404 (★3) Special Topics in Art Process.

Notes

- EDEL 400 has a prerequisite of EDEL 302.
- EDES 404 has a prerequisite of (★6) ART and (★3) ART H, or comparable experience before taking this course.

65.4 Secondary Education Route

65.4.1 General Information

The Secondary Education route includes 14 weeks of student teaching. In addition to EDFX 200, students enrol in the Introductory Professional Term (4 weeks of student teaching) and the Advanced Professional Term (9 weeks of student teaching).

Students in the Introductory Professional Term usually teach in their Minor subject specialization, while students enrolled in the Advanced Professional Term usually teach in their Major subject specialization.

For those students who have subject specializations composed almost entirely of full-year courses, e.g., Art, Drama, Music, Second Languages, it may be necessary to take both Professional Terms during the same academic year.

For these students, full-year courses should be taken as early as possible in their program.

65.4.2 Components of the Program

All students in the Secondary Route must choose a Major teaching subject (★36) and a Minor teaching subject (★18) which prepares them for teaching in specific subjects of school instruction. Available Majors are listed in Education Chart 2, and available Minors are listed in Education Chart 3. Students planning to enter the Secondary Route are strongly encouraged to take as part of their Preprofessional Year ★6 in Language/Literature, ★3 in Computing (EDIT 202 is recommended), ★12 in the Major teaching subject, ★6 in the Minor teaching subject.

Program Requirements (★120)

- (1) ★6 in Language/Literature from CLASS 102, 221; C LIT 171, 172, 201, 202; ENGL 100, 101, 104, 105.
- (2) ★3 in Computing (EDIT 202 is recommended)
- (3) ★3 in Open Options
- (4) **Education Core I (★6)**
EDFX 200 (★3)
EDPY 200 (★3)
- (5) **Introductory Professional Term (★15)**
EDFX 350 (★3)
EDPS 310 (★3)
EDPY 301 (★3)
EDPY 303 (★3)
EDSE 3XX (★3) Curriculum and Teaching for Secondary School Minors
Note: See Chart 3 for specific minor courses required.

(6) Advanced Professional Term (★15)

- EDFX 450 (★6)
- EDFX 451 (★3)
- EDSE 4XX (★3) Curriculum and Teaching for Secondary School Majors
- EDSE 4XY (★3) Curriculum and Teaching for Secondary School Majors

(7) Education Core II (★3)

- EDPS 410 (★3)

(8) Major Courses (★36)

Some Majors may be completed more efficiently by taking specific courses in the Preprofessional Year. Students should examine the specific course requirements of each Major when considering their choices. Students should complete the remaining required courses for their Major teaching subject as outlined in Education Chart 2.

Note: In addition to the ★36 of Non-Education courses that comprise the Major, ★6 of Curriculum and Instruction courses are associated with the Major which address the program of studies and the processes that facilitate students' learning.

(9) Minor Courses (★18)

Some Minors may be completed more efficiently by taking specific courses in the Preprofessional Year. Students should examine the specific course requirements of each Minor when considering their choices. Students should complete the remaining required courses for their Minor teaching subject as outlined in Education Chart 3.

Note: In addition to the ★18 of Non-Education courses that comprise the Minor, ★3 of Curriculum and Instruction courses are associated with the Minor which also address the program of studies and the processes that facilitate students' learning.

(10) Non-Education Options (★9)

Select any courses from outside the Faculty of Education.

Students should enrol in courses that develop additional strengths for classroom teaching. Course related to the teaching Major, Minor, or other subjects of study in secondary schools are recommended.

(11) Education Options (★6)

Select any courses from the Faculty of Education.

Notes

- (1) If any of the above courses are required for the Major or Minor area, students may substitute the equivalent ★3 or ★6 from Non-Education courses.
- (2) Students enrolled in Field Experience courses should note the following:
 - a. Final examinations in concurrent lecture courses may be scheduled outside designated examination weeks.
 - b. Students may be required to student teach during designated examination weeks.
 - c. Reading Week (Winter Term) may be moved to coincide with school systems' Spring Break.

Education Chart 2 Requirements for Major Teaching Subject in the Secondary Education Route

<p>Art (★36)</p> <ol style="list-style-type: none"> 1. ★6 ART 131 2. ★6 chosen from ART H 101/102 or 206/256 3. ★12 to ★18 chosen from Art or Design courses 4. ★6 to ★12 chosen from ANTHR 328, 430; CLASS 352, 353; EDIT 488; HECOL 150; NS 360; PHIL 380; PSYCO 495; SOC 461; or any FMS, ART, or DES. <p>Students must take EDSE 412 and 413 during the APT*, which is normally offered in the Winter Term only.</p> <p>Biological Sciences (★36)</p> <ol style="list-style-type: none"> 1. ★6 BIOL 107/108 2. ★6 BIOL 207/208 3. ★3 in senior Biological Sciences 4. ★3 to ★6 chosen from PHYSL 210; ZOOL 241, 242. 5. ★3 to ★6 chosen from ANTHR 230; CLASS 294; HIST 294, 391, 394; INT D 200, 498; PHIL 265, 375; PHYS 212, 213; SOC 462. 6. ★9 to ★15 but with no more than ★9 in each of Astronomy, Biochemistry, Biological Sciences (including Botany, Forestry, Genetics, Microbiology, Soils and Zoology), Chemistry, Environmental Sciences (EAS, ENCS, REN R), Mathematics, Physics. 	<p>Students must take EDSE 452 and 453 during the APT*, which is normally offered in both the Fall and Winter Terms.</p> <p>Notes</p> <ol style="list-style-type: none"> (1) Introductory Biology courses should be taken in the Preprofessional Year. (2) Mathematics 153, 160, 253, and 260 are not eligible courses. (3) Because of the nature of school sciences, courses in Chemistry and Physics are recommended. <p>Career and Technology Studies: Business and Technology (★36)</p> <ol style="list-style-type: none"> 1. ★3 ACCTG 300 or 311 2. ★3 B LAW 301 3. ★3 EDBU 341 4. ★3 EDBU 357 5. ★6 chosen from MARK 301, ORG A 301, 430 or 431 (430 recommended) 6. ★18 chosen from EDBU 355, EDES 346, EDPY 442, EDSE 495, FIN 301, RLS 263, or other business or computer related courses from BUS, CMPUT, EDIT, or EDCT. <p>Students must take EDSE 417 and 418 during the APT*, which is normally offered in the Winter Term only.</p> <p>Note: See overview of Career and Technology Studies majors and minors (§65.4.3).</p>	<p>Career and Technology Studies: Human Ecology (★36)</p> <ol style="list-style-type: none"> 1. ★6 chosen from HECOL 200, 210, 211, 212, 310, 312, 413 or 414 2. ★3 chosen from HE ED 110, 220, 320 or 321 3. ★3 NUTR 100 4. ★6 NU FS chosen from 100, 200, 323, 372, 374, or 427. 5. ★9 chosen from HECOL 150, 170, 250, 268, 353, 354, 360, 441, or 462 6. ★6 chosen from EDSE 495, EDES 346, EDPY 442, or EDIT 480 7. ★3 chosen from 1, 2, 4, 5 or HECOL 100, 201, 320, 321, 322 <p>Students must take EDSE 432 and 433 during the APT*, which is normally offered in the Winter Term only.</p> <p>Note: See overview of Career and Technology Studies majors and minors (§65.4.3).</p> <p>Career and Technology Studies: Resources (★36)</p> <ol style="list-style-type: none"> 1. ★3 chosen from AN SC 110, 200, 374 2. ★3 chosen from BIOL 107, 108, 208, 260 3. ★3 chosen from BOT 201, 204, 210, 240 4. ★3 chosen from ENCS 201, 260, 352 5. ★3 chosen from FOR 100, 101, REN R 110, 120, 220, 321 6. ★3 chosen from ZOOL 224, 225, 241, 242, 301 	<ol style="list-style-type: none"> 7. ★6 chosen from EDSE 495, EDES 346, EDPY 442, or EDIT 480 8. ★12 chosen from 1, 2, 3, 4, 5, 6 or any EAS, GEOPH, MIN E, SOILS. <p>Students must take EDSE 493 and 494 during the APT*, which is normally offered in the Winter Term only.</p> <p>Note: See overview of Career and Technology Studies majors and minors (§65.4.3).</p> <p>Career and Technology Studies: Technology Education (★36)</p> <ol style="list-style-type: none"> 1. ★15 Advanced Standing; ★6 chosen from EDSE 495, EDES 346, EDPY 442, or EDIT 480; and ★15 chosen from DES, CIV E, ECON, EDIT, E E, ENGG, PHIL 365, TCC. 2. The selection of courses for students not eligible for ★15 advanced standing is under revision. Students not eligible for ★15 advanced standing should consult with Undergraduate Student Services. <p>Students must take EDSE 488 and 489 during the APT*, which is normally offered in the Winter Term only.</p> <p>Notes</p> <ol style="list-style-type: none"> (1) See overview of Career and Technology Studies Majors and Minors following Education Chart 2. (2) ★15 Advanced Standing can be granted for relevant Journeyman Certification in CTS strands. See Chart 5.
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* Advanced Professional Term

Education Chart 2 Requirements for Major Teaching Subject in the Secondary Education Route (cont'd)

Chemistry (★36)

- ★6 CHEM 101/102
- ★6 CHEM 161/163 or 261/263
- ★6 in senior Chemistry or Biochemistry
- ★3 to ★6 chosen from ANTHR 230, CLASS 294, HIST 294, 391, 394, INT D 200, 498, PHIL 265, 375, PHYS 212, 213, SOC 462.
- ★12 to ★15 but with no more than ★9 in each of Astronomy, Biochemistry, Biological Sciences, Chemistry, Environmental Sciences (EAS, ENCS, REN R), Mathematics, Physics.

Students must take EDSE 460 and 461 during the APT*, which is normally offered in the Winter term only.

Notes

- (1) Introductory Chemistry courses should be taken in the Preprofessional year.
- (2) Mathematics 153, 160, 253, and 260 are not eligible Mathematics courses.
- (3) Because of the nature of school sciences, courses in Biology and Physics are recommended.

Drama (★36)

- ★3 DRAMA 103
- ★3 DRAMA 150
- ★3 DRAMA 208
- ★3 DRAMA 240
- ★3 DRAMA 257
- ★3 DRAMA 259
- ★3 DRAMA 279
- ★3 DRAMA 383
- ★6 chosen from DRAMA 325, 327, 454 or 459; EDEL 411; EDSE 424.
- ★6 chosen from DRAMA 209, 259, 301, 302, 308, 457, 483; DRAMA 331 or DANCE 340.

Students must take EDSE 422 and 423 during the APT*, which is normally offered in the Winter Term only.

English Language Arts (★36)

- ★6 ENGL 100 or equivalent
- ★6 in British Literature prior to 1900
- ★6 in Composition and Language chosen from ENGL 212, 299, 311; LING; WRITE; or EDSE 430.
- ★3 in Canadian Literature chosen from Comparative Literature or English
- ★6 chosen from senior English or Comparative Literature.
- ★3 in film or media chosen from Comparative Literature, Film and Media Studies, Sociology or other appropriate areas.
- ★6 chosen from senior Comparative Literature, English, or Writing courses; or CLASS 102, 221, 321, 322; DRAMA 149, 247, 249, 331, 403, 408, 409, 442; EDSE 429 430; FMS 200, 205; LIS 403

Students must take EDSE 427 and 428 during the APT*, which is normally offered in both the Fall and Winter Terms.

Notes

- (1) Students in the Preprofessional Year should register in ENGL 100 and may also register in ★3 or ★6 from CLASS 102; C LIT 171, 172; LING 101, 102.
- (2) No more than ★12 in this Major may be taken at the 100-level.

General Sciences (★36)

- ★6 BIOL 107/108
- ★6 CHEM 101/102
- ★6 PHYS 124/126 or 144/146
- ★3 to ★6 chosen from ANTHR 230, CLASS 294, HIST 294, 391, 394, INT D 200, 498, PHIL 265, 375, PHYS 212, 213, SOC 462
- ★12 to ★15 but with no more than ★9 in each of Astronomy, Biochemistry,

Biological Sciences, Chemistry, Environmental Sciences (EAS, ENCS, REN R), Mathematics, Physics

Students must take EDSE 456 and 457 during the APT*, which is normally offered in the Winter Term only.

Notes

- (1) Introductory science courses should be taken in the Preprofessional year.
- (2) Mathematics 153, 160, 253, and 260 are not eligible Mathematics courses.

Mathematics (★36)

- ★3 chosen from MATH 113 or 114
- ★3 MATH 115
- ★3 MATH 120 or 125
- ★3 MATH 228 or 229
- ★3 MATH 241
- ★3 MATH 222 or 243
- ★3 STAT 141
- ★15 chosen from CMPUT 101, 114; MATH 153, 214, 215, 222, 225, 243, 322, 324, 341, 343, 421, 422; PHYS 124; or any senior Mathematics or Computing Science courses; or any approved senior Science course.

Students must take EDSE 437 and 438 during the APT*, which is normally offered in the Winter Term only.

Music (★36)

- ★3 MUSIC 124 or 126
- ★3 MUSIC 151
- ★3 MUSIC 155
- ★3 MUSIC 156
- ★3 MUSIC 209
- ★3 MUSIC 211
- ★3 MUSIC 216
- ★3 MUSIC 217
- ★3 MUSIC 220
- ★3 MUSIC 230
- ★3 MUSIC 315
- ★3 chosen from MUSIC 416, 417, 431

Students must take EDSE 443 and 444 during the APT*, which is normally offered in the Winter Term only.

Notes

- (1) MUSIC 124, 151, 155, 156 are normally taken in the Preprofessional Year.
- (2) Entry to MUSIC 151, 155, 156, normally depends upon demonstrated theoretical competence. Students must contact the Department of Music to arrange for a time for the theory placement examination.
- (3) Entry to MUSIC 124 depends on the successful passing of an audition during May, preceding the student's first year. Students must contact the Department of Music to arrange for an audition date.
- (4) Students who have not successfully completed MUSIC 124 by the end of their first year in the Faculty of Education will not be allowed to continue in the MUSIC Major.

Physical Education (★36)

- ★3 HE ED 110
- ★3 PERLS 105
- ★3 PEDS 205
- ★3 PEDS 294
- ★3 PEDS 307
- ★3 PEDS 391
- ★18 chosen from the five activity dimensions (a, b, c, d, e) listed below. Students must take EDSE 447 and 448 during the APT*, which is normally offered in both the Fall and Winter Terms.

Notes

- CPR Certification highly recommended.**
Aquatics competency required as part of *18: Students may produce proof of certification Red Cross Aquaquest Level 12 (White) or YMCA Star 6 and substitute ★1.5 from any dimension below.

- (1) A variety of PAC/DAC courses outside personal level of expertise is recommended. Select a minimum of ★1.5 from each of the following dimensions b to e:
 - Alternative Environments: PAC 110, 163, 180, 181, 182, 301, 303, 310, 380, 381.
 - Dance: DAC 155, 160, 399; DANCE 200, 340, 350, 446.
 - Games: PAC 111, 112, 113, 114, 117, 118, 131, 133, 135, 137, 140, 145, 199, 311, 313, 314, 318, 320, 325, 331, 333, 335, 337, 345.
 - Gymnastics: PAC 160, 360, 365.
 - Individual Activities: PAC 154, 173, 174, 180, 181, 199, 354, 370, 380, 381, 390.
- (2) PEDS 294, 307 and 391 should be taken in Year 1 or 2.
- (3) PEDS 205 should be taken in Year 3 or 4.

Physical Sciences (★36)

- ★6 CHEM 101/102
- ★6 PHYS 124/126 or 144/146
- ★6 in senior Chemistry (CHEM 261/263 recommended)
- ★6 chosen from PHYS 208, 212, 213, 230, 261, 264, 271, 292, 294, 297
- ★3 to ★6 chosen from ANTHR 230, CLASS 294, HIST 294, 391, 394, INT D 200, 498, PHIL 265, 375, PHYS 212, 213, SOC 462
- ★6 to ★9 in Astronomy, Biochemistry, Biological Sciences, Chemistry, Environmental Sciences, (EAS, ENCS, REN R), Mathematics, Physics

Students must take EDSE 460 and 461 during the APT*, which is normally offered in the Winter Term only.

Notes

- (1) Introductory Chemistry and Physics courses should be taken in the Preprofessional Year.
- (2) Mathematics 153, 160, 253, and 260 are not eligible Mathematics courses.
- (3) Because of the nature of school sciences, courses in Biology are recommended.

Physics (★36)

- ★6 PHYS 124/126 or 144/146
- ★12 in senior level Physics (PHYS 208 or 271 and any of 200, 212, 213, 230, 261, 264, 292, 294, 297 recommended)
- ★3 to ★6 chosen from ANTHR 230, CLASS 294, HIST 294, 391, 394, INT D 200, 498, PHIL 265, 375, PHYS 212, 213, SOC 462
- ★12 to ★15 but with no more than ★9 in each of Astronomy, Biochemistry, Biological Sciences, Chemistry, Environmental Sciences (EAS, ENCS, REN R), Mathematics, Physics

Students must take EDSE 460 and 461 during the APT*, which is normally offered in the Winter Term only.

Notes

- (1) Introductory Chemistry courses should be taken in the Preprofessional Year.
- (2) Mathematics 153, 160, 253, and 260 are not eligible Mathematics courses.
- (3) Because of the nature of school sciences, courses in Biology and Chemistry are recommended.

Second Languages: Other (★36)

It may be possible to arrange a program for students who intend to teach a language other than those listed here which is offered in the school system. Interested students should consult the Second Languages Advisor.

Second Languages: Cree (★36)

- Language/Linguistics Courses: ★18 to ★21 chosen from LING 320; NS 105, 152, 153, 252, 352.

- Culture: ★9 chosen from NS 210, 211, 300, 314, 355, 360, 400.
 - Other: ★6 to ★9 chosen from ANTHR 150, 227, 250; EDPS 411, 432, 474; HIST 368, 369; NS 320, 330, 370, 375, 380, 381, 390, 403, 404, 440.
- Students must take EDSE 468 and 469 during the APT*, which is normally offered in the Winter Term only.

Second Languages: French (★36)

- Language Courses: ★18 to ★24 chosen from FREN 211, 212, 221, 254, 297 and 296 or 299; 354, 454, 479.
- Linguistics: ★3 to ★6 chosen from FREN 371, 372, 473, 474, 476; LING 320.
- Literature: ★6 to ★9 chosen from FREN 301, 311, 313, 314, 344, 346, 442, 443, 462, 463, 464, 465, 466, 467, 469, 479, 480.
- Culture: ★3 to ★9 chosen from FREN 233, 312, 315, 316, 333, 343, 344, 361, 364, 371, 432, 445, 468.

Students must take EDSE 468 and 469 during the APT*, which is normally offered in the Winter Term only.

Notes

- (1) Students who have credit in French 30 should register in FREN 211, 212. All others consult the subject area advisor.
- (2) Many courses offered by Faculté Saint-Jean may be credited toward your program. Consult subject area advisor.

Second Languages: German (★36)

- Language Courses: ★12 to ★18 chosen from GERM 211, 212, 303, 304, 402, 404, 405, 441, 443, 444.
- Linguistics: ★6 to ★12 chosen from GERM 306, 309, 316, 317, 406, 407, 408, 409, 416, 417; LING 320.
- Literature: ★6 to ★9 chosen from GERM 321, 322, 351, 352, 425, 426, 430, 435, 470, 475, 476, 480, 481, 485, 486.
- Culture: ★3 to ★9 chosen from GERM 264, 274, 333, 343, with a maximum of ★3 chosen from HIST 308, 425.

Students must take EDSE 468 and 469 during the APT*, which is normally offered in the Winter Term only.

Second Languages: Italian (★36)

- Language Courses: ★18 to ★21 chosen from ITAL 111, 112, 211, 212, 390, 393, 425.
- Linguistics: ★3 chosen from LING 101, 320.
- Literature: ★6 to ★9 chosen from ITAL 333, 363, 375, 415, 419, 420.
- Culture: ★3 to ★9 chosen from ART H 101, 102, 201, 252; CLASS 102, 221, 271; ITAL 205, 340; SOC 368.

Students must take EDSE 468 and 469 during the APT*, which is normally offered in the Winter Term only.

Second Languages: Japanese (★36)

- Language Courses: ★18 to ★21 chosen from JAPAN 101/102 or 150, 200 or 201, 202, 250, 301, 302, 305, 306, 318, 319, 341, 342, 401, 402.
- Linguistics: ★6 chosen from JAPAN 425, 426; LING 320.
- Literature: ★3 to ★9 chosen from JAPAN 240, 321, 322, 330, 415, 416, 418, 419, 420, 451, 460, 481.
- Culture: ★3 to ★6 chosen from ANTHR 280; HIST 381, 382; JAPAN 350; RELIG 343, 350.

Students must take EDSE 468 and 469 during the APT*, which is normally offered in the Winter Term only.

Education Chart 2 Requirements for Major Teaching Subject in the Secondary Education Route (cont'd)

Second Languages: Spanish (★36)	Second Languages: Ukrainian (★36)	Social Studies (★36)	
<ol style="list-style-type: none"> Language Courses: ★18 to ★24 chosen from SPAN 111, 112, 211, 212, 300, 405, 406, 407, 409, 431. Linguistics: ★3 to ★6 chosen from LING 101, 320; SPAN 305, 370, 371, 474, 475, 476. Literature: ★6 to ★9 chosen from SPAN 320, 321, 335, 360, 440, 450, 455, 460. Culture: ★3 to ★6 chosen from ANTHR 262; HIST 241, 242, 341, 342; SOC 368; SPAN 301, 303, 307, 308, 309, 310, 325, 330, 331, 412, 445, 452. <p>Students must take EDSE 468 and 469 during the APT*, which is normally offered in the Winter Term only.</p>	<ol style="list-style-type: none"> Language Courses: ★18 to ★21 chosen from UKR 211, 212, 300 or 303 and 304, 403, 404, 406, 407, 411. Linguistics: ★3 to ★6 chosen from LING 101, 320. Literature: ★6 to ★9 chosen from SLAV 468, 469; UKR 405, 410, 415, 422, 423, 470, 471, 472, 473, 474, 475. Culture: ★3 to ★6 chosen from HIST 312, 314, 315, 316, 317; UKR 324, 325, 327, 425, 426, 427, 428, 469. <p>Students must take EDSE 468 and 469 during the APT*, which is normally offered in the Winter Term only.</p>	<ol style="list-style-type: none"> ★12 in Canadian Studies <ol style="list-style-type: none"> ★3 HIST 260 ★3 HIST 261 ★3 POL S 221 ★3 chosen from ANTHR 250, 256; CANST 100, 202, 304; ECON 218, 219; HIST 360, 361, 363, 364, 365, 366, 367, 368, 369, 371, 372, 374, 375, 376; POL S 391, 392, 464; SOC 101, 251, 260, 363, 368, 377. ★9 in World Studies <ol style="list-style-type: none"> ★6 chosen from HIST 110, 111, 112, 120, 242, 247, 251, 280, 281, 297, 298, 299 ★3 chosen from Christian Theology, Economics, Political Science, or Religious Studies. 	<ol style="list-style-type: none"> ★9 in Cultural Studies <ol style="list-style-type: none"> ★3 chosen from EAS 190, 191, 290 or 291 ★6 chosen from Anthropology, Christian Theology, Earth and Atmospheric Sciences, Religious Studies, or Sociology. ★6 in General Social Studies chosen from Anthropology, Christian Theology, Classics, Earth and Atmospheric Sciences, History, Philosophy, Political Science, Psychology, Religious Studies, or Sociology. <p>Students must take EDSE 473 and 474 during the APT*, which is normally offered in both the Fall and Winter Terms.</p>
* Advanced Professional Term			

Education Chart 3 Requirements for Minor Teaching Subject in the Secondary Education Route

Art (★18)	Career and Technology Studies: Resources (★18)	Drama (★18)	Instructional Technology (★18)
<ol style="list-style-type: none"> ★6 ART 131 ★6 chosen from ART H 101/102 or 206/256 ★6 chosen from Art or Design or HECOL 150. <p>Students must take EDSE 312 during the IPT*, which is normally offered in the Fall Term only.</p>	<ol style="list-style-type: none"> ★3 chosen from AN SC 110, 200, 309, 374 ★3 chosen from BIOL 107, 108, 208, 260 ★3 chosen from BOT 201, 204, 210, 240 ★3 chosen from ENCS 201, 260, 352 ★3 chosen from FOR 100, 101, REN R 110, 120, 220, 321 ★3 chosen from ZOO 224, 225, 241, 242, 301 <p>Students must take EDSE 393 during the IPT*, which is normally offered in the Fall Term only.</p> <p>See overview of Career and Technology Studies majors and minors following §65.4.3.</p>	<ol style="list-style-type: none"> ★3 DRAMA 102 ★3 DRAMA 149 ★3 DRAMA 247 ★3 DRAMA 279 ★6 chosen from DRAMA 249, 259, 325, 327, 353; EDSE 424, and DRAMA 331 or DANCE 340. <p>Students must take EDSE 322 during the IPT*, which is normally offered in the Fall Term only.</p>	<ol style="list-style-type: none"> ★6 chosen from EDPY 404, 432, 442; EDSE 424; HECOL 200, 210; HEED 110, 220, 320; INT D 410; or NUTR 100. <p>Students must take EDSE 333 during the IPT*, which is normally offered in the Fall Term only.</p>
<h3>Biological Sciences (★18)</h3> <ol style="list-style-type: none"> ★3 BIOL 107 ★3 BIOL 108 ★3 BIOL 207 ★3 BIOL 208 ★6 in Senior Biological Sciences <p>Students must take EDSE 352 during the IPT*, which is normally offered in both the Fall and Winter Terms.</p>	<h3>Career and Technology Studies: Technology Education (★18)</h3> <ol style="list-style-type: none"> ★15 Advanced Standing and ★3 chosen from EDSE 495, EDES 346, EDPY 442, EDIT 480. The selection of courses for students not eligible for ★15 advanced standing is under revision. Students not eligible for ★15 advanced standing should consult with Undergraduate Student Services. <p>Students must take EDSE 388 during the IPT*, which is normally offered in the Fall Term only.</p> <p>Notes (1) See overview of Career and Technology Studies majors and minors following §65.4.3. (2) ★15 Advanced Standing can be granted for relevant Journeyman Certification in CTS strands. See Chart 5.</p>	<h3>English as a Second Language (★18)</h3> <ol style="list-style-type: none"> ★6 to ★9 in Language/Linguistics chosen from LING 102, 204, 209, 210, 320. ★3 to ★6 in Cultural Studies chosen from Anthropology, History, Native Studies Religious Studies, or a Language other than English. ★6 in Comparative Studies chosen from Anthropology, Comparative Literature, Film and Media Studies, Political Science, Religious Studies Sociology, EDPS 425, 432; or EDPY 414, 416. <p>Students must take EDSE 369 during the IPT*, which is normally offered in the Fall Term only.</p>	<h3>Instructional Technology (★18)</h3> <ol style="list-style-type: none"> ★9 chosen from EDIT 434, 480, 486, 488, 489; EDSE 478 or any EDPY 497 offered by Instructional Technology group. ★9 chosen from appropriate courses in culture, media, computing and visual design offered in other Faculties as approved by the minor advisor. <p>Students must take EDSE 388 during the IPT*, which is normally offered in the Fall Term only.</p>
<h3>Career and Technology Studies: Business and Technology (★18)</h3> <ol style="list-style-type: none"> ★3 ACCTG 300 or 311 ★3 B LAW 301 ★6 chosen from ORG A 301, 430, RLS 263 or other business related courses. ★6 chosen from EDBU 355; EDIT 480, FIN 301 or other computer related courses from BUS, CMPUT, EDIT or EDCT. <p>Students must take EDSE 317 during the IPT*, which is normally offered in the Fall Term only.</p> <p>See overview of Career and Technology Studies majors and minors following §65.4.3.</p>	<h3>Career and Technology Studies: Human Ecology (★18)</h3> <ol style="list-style-type: none"> ★3 chosen from HECOL 200, 210, 211, 212, 310, 312, 413, or 414 ★3 chosen from HE ED 110, 220, 320, or 321 ★3 NUTR 100. ★3 NU FS 100, 200, 323, 372, or 374 ★6 chosen from HECOL 150, 170, 250, 268, 353, 354, 360, 441, or 462 <p>Students must take EDSE 332 during the IPT*, which is normally offered in the Fall Term only.</p> <p>See overview of Career and Technology Studies majors and minors following §65.4.3.</p>	<h3>English Language Arts (★18)</h3> <ol style="list-style-type: none"> ★6 ENGL 100, 101, or equivalent ★6 chosen from senior ENGL courses or Comparative Literature. ★3 chosen from Comparative Literature, English, LIS 403 or EDSE 429. ★3 chosen from Linguistics, Writing, EDSE 430; ENGL 212, 299. <p>Students must take EDSE 327 during the IPT*, which is normally offered in the Fall Term only.</p>	<h3>Instructional Technology (★18)</h3> <ol style="list-style-type: none"> ★6 chosen from ANTHR 101, 150, 207, 208, 227; LING 101; NS 210; SOC 100 or 300, 101, 261, 368, 437. ★9 EDPS 411, 422, 425 ★3 chosen from EDPS 432; EDPY 416; POL S 260, 276, 462; SOC 368, 455; W ST 310. <p>Students must take EDPS 311 during the IPT*.</p>
	<h3>Chemistry (★18)</h3> <ol style="list-style-type: none"> ★6 CHEM 101/102 ★6 CHEM 161/163 or 261/263 ★6 chosen from Biochemistry, Chemistry, Environmental Sciences (EAS, ENCS, REN R), Physics <p>Students must take EDSE 364 during the IPT*, which is normally offered in both the Fall and Winter Terms.</p>	<h3>General Sciences (★18)</h3> <ol style="list-style-type: none"> ★6 BIOL 107/108 ★6 CHEM 101/102 ★6 PHYS 124/126 or 144/146. <p>Students must take EDSE 360 during the IPT*, which is normally offered in both the Fall and Winter Terms.</p>	<h3>Interultural/International Education (★18)</h3> <ol style="list-style-type: none"> ★6 chosen from ANTHR 101, 150, 207, 208, 227; LING 101; NS 210; SOC 100 or 300, 101, 261, 368, 437. ★9 EDPS 411, 422, 425 ★3 chosen from EDPS 432; EDPY 416; POL S 260, 276, 462; SOC 368, 455; W ST 310. <p>Students must take EDPS 311 during the IPT*.</p>
	<h3>Health Education (★18)</h3> <ol style="list-style-type: none"> ★3 HECOL 320 ★3 EDSE 495 ★3 HECOL 211 ★3 chosen from HECOL 300, 321, or 322 	<h3>Mathematics (★18)</h3> <ol style="list-style-type: none"> ★3 chosen from MATH 113 or 114 ★3 chosen from MATH 120 or 125 ★3 MATH 222 ★3 MATH 241 ★6 chosen from Mathematics, Computing Sciences, Statistics. STAT 141 is recommended. <p>Students must take EDSE 337 during the IPT*, which is normally offered in both the Fall and Winter Terms.</p> <p>Note: No more than ★3 can be taken in Computing Science courses.</p>	<h3>Music: Choral (★18)</h3> <ol style="list-style-type: none"> ★3 MUSIC 151 ★3 MUSIC 155 ★3 MUSIC 156 ★3 MUSIC 230 ★3 MUSIC 315 ★3 MUSIC 417 <p>Students must take EDSE 343 during the IPT*, which is normally offered in the Fall Term only.</p>
*Introductory Professional Term			

Education Chart 3 Requirements for Minor Teaching Subject in the Secondary Education Route (cont'd)

<p>Native Education (★18)</p> <ol style="list-style-type: none"> ★6 chosen from ANTHR 101, 150, 207, 208, 227; LING 101; NS 210, 300, 470, 480; SOC 100 or 300, 101, 261, 368, 437. ★9 EDPS 411, 432, 474 ★3 chosen from ANTHR 227, 250; NS 153, 154, 211, 314. <p>Students must take EDPS 311 during the IPT*.</p>	<ol style="list-style-type: none"> ★3 EDPS 456 ★6 RELIG 101 ★3 chosen from Philosophy, Religious Studies, St Joseph's College, or St Stephen's College. <p>Students must take EDSE 378 during the IPT*, which is normally offered in the Fall Term only.</p>	<p>Second Languages: German (★18)</p> <ol style="list-style-type: none"> ★12 to ★15 in Language/Linguistics chosen from GERM 211, 212, 303, 304, 306, 309, 316, 317, 402, 404, 405, 406, 407, 408, 409, 416, 417, 441, 443, 444. ★3 to ★6 in Literature/Culture chosen from GERM 333, 343, 351, 352, 460, 470, 475, 476, 480, 485, 486. <p>Students must take EDSE 368 during the IPT*, which is normally offered in the Fall Term only.</p> <p>Note: Students whose major is a Second Language should consult an advisor in the Department of Secondary Education before registering in EDSE 368.</p>	<ol style="list-style-type: none"> ★3 to ★6 in Literature/Culture chosen from SPAN 303, 307, 309, 310, 325, 330, 331, 335, 360, 440, 445, 450, 452, 455, 460. <p>Students must take EDSE 368 during the IPT*, which is normally offered in the Fall Term only.</p> <p>Note: Students whose major is also a Second Language should consult an advisor in the Department of Secondary Education before registering in EDSE 368.</p>
<p>Physical Education (★18)</p> <ol style="list-style-type: none"> ★3 PEDS 294 ★15 chosen from the seven activity dimensions listed below. (Note: no more than ★4.5 can be selected from any one dimension). A variety of courses outside personal level of expertise is recommended. Aquatics competency required: PAC 110 or Red Cross Aquaquest Level 12 (White) or YMCA Star 6. <ol style="list-style-type: none"> Alternative Environments: PAC 110, 163, 180, 181, 182, 301, 303, 310, 380, 381. Dance: DAC 155, 160, 165, 399; DANCE 200, 340, 350, 446. Games: PAC 111, 112, 113, 114, 117, 118, 131, 133, 135, 137, 140, 145, 199, 311, 313, 314, 318, 320, 331, 333, 335, 337, 345. Gymnastics: PAC 160, 360, 365. Individual Activities: PAC 154, 173, 174, 180, 181, 199, 354, 370, 380, 381. Outdoor Pursuits: PEDS 205 Personal Health and Fitness: HE ED 110 <p>Students must take EDSE 347 during the IPT*, which is normally offered in both the Fall and Winter Terms.</p>	<p>Second Languages: Arabic (★18)</p> <ol style="list-style-type: none"> ★9 in Language/Linguistics chosen from ARAB 100, 301, 302. ★9 in Literature/Culture chosen from ARAB 499; C LIT 338, 357; POL S 260, 380; RELIG 220, 320, 422; SOC 271. <p>Students must take EDSE 368 during the IPT*, which is normally offered in the Fall Term only.</p> <p>Notes</p> <ol style="list-style-type: none"> ARAB 100 should be taken in the Preprofessional Year. Students whose major is also a Second Language should consult an advisor in the Department of Secondary Education before registering in EDSE 368. 	<p>Second Languages: Italian (★18)</p> <ol style="list-style-type: none"> ★12 to ★15 in Language/Linguistics chosen from ITAL 111, 112, 211, 212, 390, 393, 425. ★3 to ★6 in Literature/Culture chosen from ITAL 333, 340, 363, 375, 415, 419, 420. <p>Students must take EDSE 368 during the IPT*, which is normally offered in the Fall Term only.</p> <p>Note: Students whose major is a Second Language should consult an advisor in the Department of Secondary Education before registering in EDSE 368.</p>	<p>Second Languages: Ukrainian (★18)</p> <ol style="list-style-type: none"> ★12 to ★15 in Language/Linguistics chosen from UKR 211, 212, 300 or 303 and 304, 403, 404, 406, 407, 411. ★3 to ★6 in Literature/Culture chosen from SLAV 468, 469; UKR 327, 405, 410, 415, 422, 423, 469, 471, 472, 473, 474, 475. <p>Students must take EDSE 368 during the IPT*, which is normally offered in the Fall Term only.</p> <p>Note: Students whose major is also a Second Language should consult an advisor in the Department of Secondary Education before registering in EDSE 368.</p>
<p>Physical Sciences (★18)</p> <ol style="list-style-type: none"> ★6 CHEM 101/102 ★6 PHYS 124/126 or 144/146 ★6 Astronomy, Chemistry, Environmental Sciences (EAS, ENCS, REN R), Physics <p>Students must take EDSE 364 during the IPT*, which is normally offered in both the Fall and Winter Terms.</p>	<p>Second Languages: Cree (★18)</p> <ol style="list-style-type: none"> ★12 to ★15 in Language/ Linguistics Courses: chosen from LING 320; NS 105, 152, 153, 252, 352. ★3 to ★6 in Culture chosen from NS 210, 211, 300, 352, 355, 360, 400. <p>Students must take EDSE 368 during the IPT*, which is normally offered in the Fall Term only.</p> <p>Note: Students whose major is a Second Language should consult an advisor in the Department of Secondary Education before registering in EDSE 368.</p>	<p>Second Languages: Japanese (★18)</p> <ol style="list-style-type: none"> ★12 to ★15 in Language/Linguistics chosen from JAPAN 101, 102, 201, 202, 250, 301, 302, 305, 306, 350, 401, 402, 425, 426, 451, 452. ★3 to ★6 in Literature/Culture chosen from JAPAN 321, 322, 350, 415, 416, 418, 419, 420. <p>Students must take EDSE 368 during the IPT*, which is normally offered in the Fall Term only.</p> <p>Note: Students whose major is also a Second Language should consult an advisor in the Department of Secondary Education before registering in EDSE 368.</p>	<p>Second Languages: Other (★18)</p> <p>It may be possible to arrange a program for students who intend to teach a language other than those listed here which is offered in the school system. Interested students should consult the Secondary Languages Advisor.</p>
<p>Physics (*18)</p> <ol style="list-style-type: none"> ★6 PHYS 124/126 or 144/146 ★6 in senior level Physics (PHYS 208 or 271 and any of 200, 212, 213, 230, 261, 264, 292, 294, 297 recommended) ★6 from Astronomy, Chemistry, Environmental Sciences (EAS, ENCS, REN R), Physics <p>Students must take EDSE 364 during the IPT*, which is normally offered in both the Fall and Winter Terms.</p>	<p>Second Languages: French (★18)</p> <ol style="list-style-type: none"> ★12 to ★15 in Language/Linguistics chosen from FREN 211, 212; 297 and 298, or 299; 254, 354, 371, 372, 454, 473, 479. ★3 to ★6 in Literature/Culture chosen from FREN 301, 311, 312, 313, 314, 315, 316, 333, 344, 346, 361, 364, 432, 442, 443, 445, 462, 463, 464, 465, 466, 467, 468, 469, 480. <p>Students must take EDSE 368 during the IPT*, which is normally offered in the Fall Term only.</p> <p>Notes</p> <ol style="list-style-type: none"> Students whose major is a Second Language should consult an advisor in the Department of Secondary Education before registering in EDSE 368. Students who have credit in French 30 should register in FREN 211, 212. All others consult the subject area advisor. FREN 211, 212 should be taken in the Preprofessional Year. Many courses offered by Faculté Saint-Jean may be credited toward the program. Consult the subject area advisor. 	<p>Second Languages: Mandarin (★18)</p> <ol style="list-style-type: none"> ★12 to ★15 in Language/Linguistics chosen from CHINA 101/102, 201/202, 211/212, 318/319, 341/342, 350, 401/402, 414, 450. ★3 to ★6 in Literature/Culture chosen from CHINA 220, 323, 324, 327, 338, 339, 410, 420, 425, 455. <p>Students must take EDSE 368 during the IPT*, which is normally offered in the Fall Term only.</p> <p>Notes</p> <ol style="list-style-type: none"> CHINA 101/102 should be taken in the Preprofessional Year Students whose major is also a Second Language should consult an advisor in the Department of Secondary Education before registering in EDSE 368. 	<p>Social Studies (★18)</p> <ol style="list-style-type: none"> ★6 in Canadian Studies chosen from HIST 260, 261; POL S 221. ★6 in World Studies chosen from HIST 110, 111, 112, 120, 242, 247, 251, 280, 281, 297 298, 299; EDPS 425. ★6 in Cultural Studies chosen from Anthropology, Religious Studies, Sociology; EAS 190, 191, 290. <p>Students must take EDSE 373 during the IPT*, which is normally offered in both the Fall and Winter Terms.</p>
<p>Religious and Moral Education (★18)</p> <ol style="list-style-type: none"> ★3 CHRTC 250 ★3 CHRTC 381 		<p>Second Languages: Spanish (★18)</p> <ol style="list-style-type: none"> ★12 to ★15 in Language/Linguistics chosen from SPAN 111, 112, 211, 212, 300, 305, 370, 371, 405, 406, 407, 431, 474, 475, 476. 	<p>Special Education (★18)</p> <ol style="list-style-type: none"> ★3 EDES 348 ★3 EDYP 404 ★3 EDYP 454 ★3 EDYP 4XX ★6 chosen from related courses offered by Agriculture, Forestry, and Home Economics; Arts (Psychology, Sociology); Education; Physical Education. <p>Students must take EDYP 468 during the IPT*.</p> <p>Note: Contact Special Education advisor for information about related courses.</p>

*Introductory Professional Term

65.4.3 Career and Technology Studies

Career and Technology Studies (CTS) is a complementary program consisting of 660 one-credit courses within 22 distinct strands available to junior and senior high schools in Alberta. CTS encompasses the former Practical Arts Subjects (Business Education, Home Economics, Industrial Arts, and Vocational Education) to which the Resources strands have been added. The strands are grouped within four majors and four minors in the Secondary Education Route. Students cannot enrol in both a major and a minor in CTS.

The four new majors include the following strands:

- (1) **CTS: Business and Technology**—Enterprise and Innovation, Financial Management, Information Processing, Legal Studies, Management and Marketing, and Tourism Studies.
- (2) **CTS: Human Ecology**—Career Transitions, Community Health, Fashion Studies, and Foods.
- (3) **CTS: Resources**—Agriculture, Energy and Mines, Forestry, and Wildlife.
- (4) **CTS: Technology Education**—Communication Technology, Construction Technologies, Design, Electro-Technologies, Fabrication, Logistics, and Mechanics.

The four new minors include the following strands:

- (1) **CTS: Business and Technology**—Enterprise and Innovation, Financial Management, Information Processing, Legal Studies, and Tourism Studies.
- (2) **CTS: Human Ecology**—Community Health, Fashion Studies, and Foods.
- (3) **CTS: Resources**—Agriculture, Energy and Mines, Forestry, and Wildlife.
- (4) **CTS: Technology Education**—three of Communication Technology, Construction Technologies, Design Studies, Electro-Technologies, Fabrication Studies, Logistics, and Mechanics.

The following lists Journeyman or Red Seal Certification eligible for advanced standing relating to these CTS Strands:

CTS Strand	Journeyman or Red Seal Certification
Agriculture	Landscape Gardener
Construction	Bricklayer, Carpenter
Technologies	Communication Electrician, Ironworker, Later-Interior Systems Mechanic, Plumber
Cosmetology	Hairstylist
Design	Printing and Graphic Arts Craftsman
Electro-Technologies	Appliance Service Technician, Electrical Rewind Mechanic, Electrician, Electronic Technician, Power System Electrician
Fabrication	Boilermaker, Cabinetmaker, Gasfitter, Glazier, Machinist, Millwright, Sheet Metal Worker, Steamfitter-Pipefitter, Structural Steel and Plate Fitter, Tool and Die Maker, Welder
Foods	Baker, Cook
Mechanics	Agricultural Mechanic, Auto Body Technician, Automotive Service Technician, Heavy Equipment Technician, Motorcycle Mechanic, Recreation Vehicle Service Technician

65.5 BA (Native Studies)/BEd Five-Year Combined Degrees

These degree programs consist of ★150 overall. The first three years (★90) are taken in the School of Native Studies (see §103.2) and the last two years (★60) are taken in the Faculty of Education.

65.5.1 BA (Native Studies)/BEd (Secondary) Combined Degrees: Cree Major

Year 4 (★30)

Introductory Professional Term (★15)

1. EDFX 350 (★3)
2. EDPS 310 (★3)
3. EDPY 301 (★3)
4. EDPY 303 (★3)
5. EDSE 3XX (★3)
6. Native Studies options (★9): choose any NS courses at the 400-level
7. Social Sciences (★6): choose any course at the 200-level or above [see §103.1.2(5)]

Year 5 (★30)

Advanced Professional Term (★15)

1. EDFX 450 (★6)
2. EDFX 451 (★3)
3. EDSE 4XX (★3)
4. EDSE 4XY (★3)
5. EDPS 410 (★3)
6. Education options (★6): choose any courses from the Faculty of Education
7. Native Studies option (★3): choose any NS course at the 400-level
8. Humanities and Fine Arts (★3): choose any course from the 200-level or above [see §103.1.2(3) and (6)]

Notes

- (1) **Program Requirements (★150)**
Education Core (★45)
Native Studies Core (★36)
Common Major (★45)
Teaching Minor (★18)
Options (★6)
- (2) **Native Studies Core (★36)**
Computing (★3)
English (★6)
Fine Arts or Humanities 2XX/3XX/4XX (★6)
Humanities 1XX (★6)

Natural Science 1XX (★3)
Social Science 1XX (★6)
Social Science 2XX/3XX/4XX (★6)

65.5.2 BA (Native Studies)/BEd (Secondary) Combined Degrees: Native Studies Major

Year 4 (★30)

Introductory Professional Term (★15)

1. EDFX 350 (★3)
2. EDPS 310 (★3)
3. EDPY 301 (★3)
4. EDPY 303 (★3)
5. EDSE 3XX (★3)
6. Education Major (★6): choose courses from the specified Teaching Major
7. Native Studies option (★3): choose any Native Studies course at the 400-level
8. Native Education Minor (★3): choose EDPS 432 or 474
9. Fine Arts or Humanities (★3): choose any course at the 200-level or higher [see §103.1.2(3) and (6)]

Year 5 (★30)

Advanced Professional Term (★15)

1. EDFX 450 (★6)
2. EDFX 451 (★3)
3. EDSE 4XX (★3)
4. EDSE 4XY (★3)
5. EDPS 410 (★3)
6. Education Major (★6): choose courses from the specified Teaching Major
7. Native Studies option (★6): choose any Native Studies course at the 400-level

Notes

- (1) **Program Requirements (★150)**
Education Core (★45)
Native Studies Core (★33)
(Native Studies Major (★36)
- (2) **Native Studies Core (★33)**
Computing (★3)
English (★6)
Fine Arts or Humanities 2XX/3XX/4XX (★6)
Humanities 1XX (★6)
Natural Science 1XX (★3)
Social Science 1XX (★6)
Social Science 2XX/3XX/4XX (★3)

65.5.3 BA (Native Studies)/BEd (Elementary) Five-Year Combined Degrees

Year 4 (★30)

1. Education Minor (★6)
2. Native Studies option (★6): Choose Native Studies courses at the 400-level.
3. Option/Minor (★3)

Introductory Professional Term (★15)

4. EDFX 325 (★3)
5. EDPS 310 (★3)
6. EDPY 301 (★3)
7. EDPY 303 (★3)
8. EDEL 300 (★3)

Year 5 (★30)

Education Core II (★15)

- (Prerequisite - Introductory Professional Term)
1. ★9 chosen from EDEL 302, 321, 330, or 335
 2. EDEL 305 (★3)
 3. EDEL 316 (★3)

Advanced Professional Term (★15)

- (Prerequisite IPT, Ed Core II (★15))
4. EDEL 3XX (★3) chosen from Ed Core II list
 5. EDFX 425 (9 weeks) (★9)
 6. EDPS 410 (★3)

Notes

- (1) **Program Requirements (★150)**
Education Core (★60)
Native Studies Core (★51)
Minor (★18)
Options (★21)
- (2) Courses in the IPT should be taken prior to Education Core II. Education Core II should be taken prior to the APT.
- (3) Students enrolled in a Professional Term cannot exceed ★15 maximum course load.
- (4) Students in this program select one of the following minors: Second Languages/Cree, Native Studies, Intercultural Education, or Social Studies.
- (5) Students with Cree as a minor must complete NS 152, 252, and 352 before Year 4.

65.6 BSc (Specialization in Science and Education)/BEd (Secondary) Combined Degrees Program

65.6.1 General Information

The Faculties of Science and Education offer a combined degrees program that is more highly structured than the BSc followed by a BEd After Degree (a six-year route). It provides less flexibility in course choice and scheduling than taking the degrees sequentially, because it is designed to meet the minimum requirements of both degrees in five years. In addition, it must meet teacher certification requirements within this time frame.

To accommodate the variety in subject studies needed in secondary school teaching, students in the combined program will select a major/minor from the following areas:

Biological Sciences: Biochemistry, Botany, Biology, Entomology, Genetics, Microbiology, Pharmacology, Physiology, Zoology.

Physical Sciences: Astronomy, Biochemistry, Chemistry, Geophysics, Mathematical Physics, Physics.

Mathematical Sciences: Computing Science, Mathematics, Statistics and Applied Probability.

Students apply to the Faculty of Science for admission to the Combined Degrees Program and spend the first two years of the five-year program registered in the Faculty of Science. (See §§15.5.2 and 163.1.6).

Education Chart 4 Requirements for the BEd/BSc (Specialization in Science and Education) Degree Majors and Minors

Note: Years 1 and 2 are completed in the Faculty of Science. Years 3, 4, and 5 are completed in the Faculty of Education

Physical Sciences Major/ Biological Sciences Minor (★150)					
Core Program Requirements	Year 1 (★30)	Year 2 (★30)	Year 3 (★30)	Year 4 (★30)	Year 5 (★30)
Education: ★45 Major: ★42 Minor: ★24 100-level: ★36 (Maximum ★42) Graduation Requirements: • GPA of 2.3 on all courses • GPA of 2.7 on Major courses Area "B" BIOL 315, CHEM 303, CHRTC 352, HIST 294, 397, 398, 496, INT D 200, PHIL 265, 375, PHYS 202, 261, 264, SOC 367, 426 Area "C" ASTRO 320, 322, CHEM 331, 332, PHYS 301, 302, 307, 309, 319	1. BIOL 107, 108 2. CHEM 101, 102 3. ENGL 101 4. MATH 113 or 114 5. MATH 115 6. PHYS 124 or 144 7. PHYS 126 or 146	1. BIOL 207, 208 2. CHEM 261, 263 3. EDFX 200 4. EDPY 200 5. PHYS 224 6. ★3 chosen from PHYS 200, 208, 271 7. ★3 chosen from CHEM 211 or PHYS 294 8. ★3 Arts Option	1. ★3 chosen from CHEM 211 or PHYS 294 not already taken 2. CMPUT 101 or 114 3. ★6 in Biological Sciences at the 200-level 4. ★6 Arts Options 5. ★6 Area "B" 6. ★6 Area "C"	1. EDFX 350 2. EDPS 310 3. EDPY 301 4. EDPY 303 5. EDSE 352 6. EDFX 450 7. EDFX 451 8. EDSE 447 9. EDSE 448 Notes: (1) Courses 1 through 5 above constitute the Introductory Professional Term and must be taken concurrently. (2) Courses 6 through 9 above constitute the Advanced Professional Term and must be taken concurrently.	1. EDPS 410 2. ★6 in Biological Sciences at the 300- or 400-level 3. ★3 Arts Option 4. ★6 Education Options 5. ★3 Non-Education Option 6. ★3 Science Option 7. ★6 Area "C"
Physical Sciences Major/Mathematical Sciences Minor (★150)					
Core Program Requirements	Year 1 (★30)	Year 2 (★30)	Year 3 (★30)	Year 4 (★30)	Year 5 (★30)
Education: ★45 Major: ★42 Minor: ★27 100-level: ★36 (Maximum ★42) Graduation Requirements: • GPA of 2.3 on all courses • GPA of 2.7 on Major courses Area "B" BIOL 315, CHEM 303, CHRTC 352, HIST 294, 397, 398, 496, INT D 200, PHIL 265, 375, 465, PHYS 261, 264, SOC 367, 426 Area "C" ASTRO 320, 322, CHEM 331, 332, PHYS 301, 302, 307, 309, 319	1. BIOL 107, 108 2. CHEM 101, 102 3. ENGL 101 4. MATH 113 or 114 5. MATH 115 6. PHYS 124 or 144 7. PHYS 126 or 146	1. CHEM 261, 263 2. EDFX 200 3. EDPY 200 4. MATH 120 5. MATH 214 6. PHYS 224 7. ★3 chosen from PHYS 200, 208, 271 8. ★3 chosen from CHEM 211 or PHYS 294 9. ★3 Arts Option	1. CMPUT 101 or 114 2. MATH 228 3. MATH 215 or 241 4. ★3 chosen from CHEM 211 or PHYS 294 5. ★6 Arts Options 6. ★6 Area "B" 7. ★6 Area "C"	1. EDFX 350 2. EDPS 310 3. EDPY 301 4. EDPY 303 5. EDSE 337 6. EDFX 450 7. EDFX 451 8. EDSE 447 9. EDSE 448 Notes: (1) Courses 1 through 5 above constitute the Introductory Professional Term and must be taken concurrently. (2) Courses 6 through 9 above constitute the Advanced Professional Term and must be taken concurrently.	1. EDPS 410 2. ★6 in Mathematics at the 300- or 400-level 3. ★3 Arts Option 4. ★6 Education Options 5. ★3 Non-Education Option 6. ★3 Science Option 7. ★6 Area "C"

Education Chart 4 Requirements for the BEd/BSc (cont'd) (Specialization in Science and Education) Degree Majors and Minors

Note: Years 1 and 2 are completed in the Faculty of Science. Years 3, 4, and 5 are completed in the Faculty of Education

Mathematical Sciences Major/Physical Sciences Minor (★150)

Core Program Requirements	Year 1 (★30)	Year 2 (★30)	Year 3 (★30)	Year 4 (★30)	Year 5 (★30)
Education: ★45 Major: ★45 Minor: ★27 100-level: ★39 (Maximum ★42) Graduation Requirements: • GPA of 2.3 on all courses • GPA of 2.7 on Major courses Area "A" BIOCH 205, CHEM 211, 263, PHYS 200, 208, 271 Area "B" BIOL 315, CHEM 303, CHRTC 352, HIST 294, 397, 398, 496, INT D 200, PHIL 265, 375, 465, PHYS 261, 264, SOC 367, 426 Area "C" ASTRO 320, 322, CHEM 331, 332, PHYS 301, 302, 307, 309, 319	1. BIOL 107, 108 2. ENGL 101 3. MATH 114 4. MATH 115 5. MATH 120 6. STAT 151 7. ★6 in Physics or Chemistry chosen from CHEM 101, 102, PHYS 124 or 144, 126 or 146	1. EDFX 200 2. EDPY 200 3. MATH 214 4. MATH 215 5. MATH 228 6. MATH 241 7. ★6 in Physics or Chemistry chosen from CHEM 101, 102, PHYS 124 or 144, 126 or 146 8. ★6 Arts Options	1. EDFX 350 2. EDPS 310 3. EDPY 301 4. EDPY 303 5. EDSE 364 6. CHEM 261 7. CMPTUT 101 or 114 8. PHYS 224 9. ★3 in Mathematics at the 200-level 10. ★3 Area "B" Note: Courses 1 through 5 above constitute the Introductory Professional Term and must be taken concurrently.	1. EDFX 450 2. EDFX 451 3. EDSE 437 4. EDSE 438 5. ★3 in Mathematics at the 200-, 300- or 400-level 6. ★3 in Mathematics at the 300- or 400-level 7. ★3 Arts Option 8. ★3 Area "A" 9. ★3 Area "B" Note: Courses 1 through 4 above constitute the Advanced Professional Term and must be taken concurrently.	1. EDPS 410 2. ★9 in Mathematics at the 300- or 400-level 3. ★6 Education Options 4. ★3 Non-Education Option 5. ★3 Science Option 6. ★6 Area "C"

Mathematical Sciences Major/Biological Sciences Minor (★150)

Core Program Requirements	Year 1 (★30)	Year 2 (★30)	Year 3 (★30)	Year 4 (★30)	Year 5 (★30)
Education: ★45 Major: ★45 Minor: ★24 100-level: ★33 (Maximum ★42) Graduation Requirements: • GPA of 2.3 on all courses • GPA of 2.7 on Major courses Area "B" BIOL 315, CHEM 303, CHRTC 352, HIST 294, 397, 398, 496, INT D 200, PHIL 265, 375, 465, PHYS 261, 264, SOC 367, 426	1. BIOL 107, 108 2. ENGL 101 3. MATH 114 4. MATH 115 5. MATH 120 6. STAT 151 7. ★6 in Physical Sciences at the 100-level	1. BIOL 207, 208 2. EDFX 200 3. EDPY 200 4. MATH 214 5. MATH 215 6. MATH 228 7. MATH 241 8. ★6 Arts Options	1. EDFX 350 2. EDPS 310 3. EDPY 301 4. EDPY 303 5. EDSE 352 6. ★3 CMPTUT 101 or 114 7. ★3 in Biological Sciences at the 200-level 8. ★3 in Mathematics at the 200-level 9. ★3 Arts Option 10. ★3 Area "B" Note: Courses 1 through 5 above constitute the Introductory Professional Term and must be taken concurrently.	1. EDFX 450 2. EDFX 451 3. EDSE 437 4. EDSE 438 5. ★3 in Biological Sciences at the 200-, 300- or 400-level 6. ★3 in Mathematics at the 200-, 300- or 400-level 7. ★3 in Mathematics at the 300- or 400-level 8. ★3 Arts Option 9. ★3 Area "B" Note: Courses 1 through 4 above constitute the Advanced Professional Term and must be taken concurrently.	1. EDPS 410 2. ★6 in Biological Sciences at the 300- or 400-level 3. ★9 in Mathematics at the 300- or 400-level 4. ★6 Education Options 5. ★3 Non-Education Option 6. ★3 Science Option

Biological Sciences Major/Mathematical Sciences Minor (★150)

Core Program Requirements	Year 1 (★30)	Year 2 (★30)	Year 3 (★30)	Year 4 (★30)	Year 5 (★30)
Education: ★45 Major: ★42 Minor: ★27 100-level: ★33 (Maximum ★42) Graduation Requirements: • GPA of 2.3 on all courses • GPA of 2.7 on Major courses Area "B" History and Theory of Science ★6 to be chosen from BIOL 315, CHEM 303, CHRTC 352, HIST 294, 397, 398, 496, INT D 200, PHIL 265, 375, PHYS 261, 264, SOC 367, 426	1. BIOL 107, 108 2. CHEM 101, 161 3. ENGL 101 4. MATH 113 or 114 5. ★3 chosen from MATH 115, 120; STAT 151 6. ★6 Arts Options	1. BIOL 207, 208 2. BIOCH 220 3. CMPTUT 101 or 114 4. EDFX 200 5. EDPY 200 6. ★3 chosen from MATH 115, 120; STAT 151 7. ★3 in Biological Sciences at the 200-level 8. ★6 in Mathematical Sciences at the 200-level	1. EDFX 350 2. EDPS 310 3. EDPY 301 4. EDPY 303 5. EDSE 337 6. ★3 chosen from MATH 115, 120; STAT 151 7. ★6 in Biological Sciences at the 200-level 8. ★6 AREA "B" Note: Courses 1 through 5 above constitute the Introductory Professional Term and must be taken concurrently.	1. EDFX 450 2. EDFX 451 3. EDSE 452 4. EDSE 453 5. ★6 in Biological Sciences at the 200-, 300- or 400-level 6. ★3 in Mathematics at the 300- or 400-level 7. ★6 Education Options Note: Courses 1 through 4 above constitute the Advanced Professional Term and must be taken concurrently.	1. EDPS 410 2. ★12 in Biological Sciences at the 300- or 400-level 3. ★3 in Mathematics at the 300- or 400-level 4. ★6 Arts Options 5. ★3 Science Option 6. ★3 Non-Education Option

Biological Sciences Major/Physical Sciences Minor (★150)

Core Program Requirements	Year 1 (★30)	Year 2 (★30)	Year 3 (★30)	Year 4 (★30)	Year 5 (★30)
Education: ★45 Major: ★42 Minor: ★27 100-level: ★36 (Maximum ★42) Graduation Requirements: • GPA of 2.3 on all courses • GPA of 2.7 on Major courses Area "A" BIOCH 205, CHEM 211, 263, PHYS 200, 208, 271 Area "B" BIOL 315, CHEM 303, CHRTC 352, HIST 294, 397, 398, 496, INT D 200, PHIL 265, 375, PHYS 261, 264, SOC 367, 426 Area "C" ASTRO 320, 322, CHEM 331, 332, PHYS 301, 302, 307, 309, 319	1. BIOL 107, 108 2. CHEM 101, 161 3. ENGL 101 4. MATH 113 or 114 5. ★3 chosen from MATH 115, 120; STAT 151 6. PHYS 124, 126	1. BIOL 207, 208 2. BIOCH 220 3. CHEM 102 4. EDFX 200 5. EDPY 200 6. PHYS 224 7. ★3 in Biological Sciences at the 200-level 8. ★6 Arts Options	1. EDFX 350 2. EDPS 310 3. EDPY 301 4. EDPY 303 5. EDSE 364 6. CMPTUT 101 or 114 7. ★6 in Biological Sciences at the 200-level 8. ★3 Area "A" 9. ★3 Area "B" Note: Courses 1 through 5 above constitute the Introductory Professional Term and must be taken concurrently.	1. EDFX 450 2. EDFX 451 3. EDSE 452 4. EDSE 453 5. ★6 Education Options 6. ★6 in Biological Sciences at the 200-, 300- or 400-level 7. ★3 Area "C" Note: Courses 1 through 4 above constitute the Advanced Professional Term and must be taken concurrently.	1. EDPS 410 2. ★12 in Biological Sciences at the 300- or 400-level 3. ★6 Arts Options 4. ★3 Non-Education Option 5. ★3 Area "B" 6. ★3 Area "C"

65.7 BMus/BEd Five-Year Combined Degrees

This degree program consists of ★162 overall. The first three years (★99) are taken in the Faculty of Arts (see §42.10) and the last two years (★63) are taken in the Faculty of Education.

Year 4 (★30)

Introductory Professional Term (★15)

1. EDFX 350 (★3)
2. EDPS 310 (★3)
3. EDPY 301 (★3)
4. EDPY 303 (★3)
5. EDSE 3XX (★3)

Advanced Professional Term (★15)

1. EDFX 450 (★6)
2. EDFX 451 (★3)
3. EDSE 443 (★3)
4. EDSE 444 (★3)

Year 5 (★33)

1. ★3 chosen from MUSIC 220 or 230
2. ★3 chosen from MUSIC 440 or 441
3. ★3 chosen from one of MUSIC 313, 314, 365 or 379
4. ★3 chosen from the following: MUSIC 259 or 263 or 320 or 451 or X22 or Minor Teaching Subject (★3) (see Note)
5. ★3 chosen from one of MUSIC 271, 272 or 273
6. ★3 chosen from one of MUSIC 416 or 417 or 431
7. EDPS 410 (★3)
8. Education options (★6): choose any courses from the Faculty of Education
9. Minor (★6): choose any courses from the specified Teaching Minor

Note: ★3 in the Minor Teaching Subject must be chosen by those students who have failed the Piano Proficiency Examination.

65.8 BPE/BEd (Secondary Route) Combined Degrees

65.8.1 General Information

See also §133.4.

The Bachelor of Physical Education/Bachelor of Education Combined Degrees program consists of ★159 over five years, during which Physical Education courses and Education courses are studied concurrently. Students initially apply for admission to the Faculty of Physical Education and Recreation and are considered registered in that Faculty for the first three years. All qualified Year 3 Bachelor of Physical Education/Bachelor of Education students will be promoted to Year 4 in the Faculty of Education.

See §15.5.4 for detailed admission requirements and procedures for entry to Year 4 of this Combined Degrees Program.

65.8.2 Program Requirements (Secondary Route)

Year 4 (★30)

Introductory Professional Term (★15)

1. EDFX 350 (★3)
2. EDPS 310 (★3)
3. EDPY 301 (★3)
4. EDPY 303 (★3)
5. EDSE 3XX (★3)
6. PAC or DAC Activity Option (★6)
7. Open options (★6)
8. Education option (★3)

Year 5 (★30)

Advanced Professional Term (★15)

1. EDFX 450 (★6)
2. EDFX 451 (★3)
3. EDSE 4XX (★3)
4. EDSE 4XY (★3)
5. EDPS 410 (★3)
6. PEDS 3XX or 4XX (★3)
7. PAC or DAC Activity Option (★3)
8. Education option (★3)
9. Open option (★3)

Note: All courses in the Introductory and Advanced Professional terms are integrated and must be taken concurrently.

65.9 BPE/BEd (Elementary Route) Five-Year Combined Degrees

65.9.1 General Information

This degree program consists of ★159 overall. The first three years (★99) are taken in the Faculty of Physical Education and Recreation (see §133.4) and the last two years (★60) are taken in the Faculty of Education.

65.9.2 Program Requirements

Year 4 (★30)

Introductory Professional Term (★15)

1. EDEL 300 (★3)
2. EDFX 325 (★3)
3. EDPS 310 (★3)
4. EDPY 301 (★3)
5. EDPY 303 (★3)

Education Core II: (★15)

Choose from the following:

1. EDEL 302 (★3)
2. EDEL 305 (★3)
3. EDEL 316 (★3)
4. EDEL 321 (★3)
5. EDEL 325 (★3)
6. EDEL 330 (★3)
7. EDEL 335 (★3)

Note: EDEL 305 and 316 are required.

Year 5 (★30)

Advanced Professional Term (★15)

1. EDEL 3XX (★3): Choose from the EDEL courses in Year 4 not yet completed
2. EDFX 425 (★9)
3. EDPS 410 (★3)
4. EDEL 420 (★3)
5. DAC/PAC Activity Course (★3)
6. PEDS option (★3): choose any course at the 300- or 400-level
7. Education options (★6): choose any courses from the Faculty of Education

Notes

- (1) A minimum of ★18 is required in DAC/PAC Activity courses.
- (2) A maximum of ★24 may be taken in DAC/PAC Activity courses.
- (3) The following must be completed as part of the DAC/PAC Activity requirement:
 - Aquatics (★1.5)
 - Gymnastics (★1.5)
 - DANCE 431 (★3)
 - PAC 325 (★3)
 - PAC 365 (★3)

65.10 BSc in Human Ecology/BEd (Secondary) Combined Degrees

65.10.1 General Information

(See also §15.1.5)

The Bachelor of Science in Human Ecology/Bachelor of Education (Secondary) Combined Degrees program provides a five-year integrated program of ★152. Coursework within the two Faculties is taken concurrently. Students initially apply for admission to the Faculty of Agriculture, Forestry, and Home Economics and are considered to be registered in that Faculty for the first three years of the program. All qualified Year 3 BSc in Human Ecology/Bachelor of Education students will be promoted to Year 4 in the Faculty of Education provided a minimum GPA of 2.0 has been achieved and a minimum of ★90 applicable to the BSc in Human Ecology/BEd (Secondary) Degrees program has been successfully completed.

See §15.5.6 for detailed admission requirements and procedures for entry to Year 4 of this Combined Degrees Program.

65.10.2 Program Requirements

Year 4 (★30)

Introductory Professional Term

1. EDFX 350 (★3)
2. EDPS 310 (★3)
3. EDPY 301 (★3)
4. EDPY 303 (★3)
5. EDSE 3XX (★3)
6. Education Option (★3)
7. Minor (★6)
8. ★6 from HECOL, NU FS or NUTR

Year 5 (★30)

Advanced Professional Term

1. EDFX 450 (★6)
2. EDFX 451 (★3)
3. EDSE 432 (★3)
4. EDSE 433 (★3)
5. EDPS 410 (★3)
6. Education Option (★3)
7. Minor (★3)
8. Open Option (★3)
9. ★3 from INT D 498; MARK 412; PHIL 265, 316, 375; SOC 315, 417, 418, 443; W ST 301, 302.

Note: All courses in the Introductory and Advanced Professional Terms are integrated and must be taken concurrently.

65.11 Collaborative BEd Degree Completion Program with Red Deer College

A Bachelor of Education (Elementary Route) Degree Completion program with Red Deer College was approved, beginning in September 1996. This program offers a Minor in Middle School Education only. For more information regarding this ongoing program, contact Undergraduate Student Services or the Education Programs Office, Red Deer College.

65.12 Collaborative BEd Degree Completion Program with Grande Prairie Regional College

A Bachelor of Education (Elementary) Degree Completion program with Grande Prairie Regional College was approved, beginning in September 1999. This program offers one minor: Teacher Education North. For more information regarding this ongoing program, contact Undergraduate Student Services or the Registrar's Office, Grande Prairie Regional College.

65.13 Collaborative BEd Degree Completion Program with Blue Quills First Nations College

A Bachelor of Education (Elementary) Degree Completion cohort with Blue Quills First Nations College was approved, beginning in January 2002. The minor is Iyiniw Kiskinohamatowin. For more information contact the Office of the Dean, Faculty of Education.

65.14 BEd Program for Certificated Teachers

Certificated teachers are granted credit for the first year of the Bachelor of Education degree for their Normal School or Junior E training if this training was of not less than seven months' duration.

Teachers who have never attended the University of Alberta should submit an Application for Admission form to the Registrar's Office.

Teachers who completed the one-year program offered by the University of Alberta (before 1962) should submit an Application for Readmission or Internal Transfer form to the Registrar's Office.

66 Bachelor of Education Programs for Holders of Approved Degrees

66.1 Program Requirements

Note for all Routes: If ★6 in English Language/Literature or ★3 in Introductory Computing have not been presented in the first degree, these must be successfully completed within the Bachelor of Education (After Degree) program to meet graduation requirements.

66.1.1 Adult Education Route (★60)

- (1) **Adult Education Level I (★12)**
EDAE 345 (★3) EDAE 460 (★3)
EDAE 390 (★3) EDPY 200 (★3)
- (2) **Adult Education Level II (★12)**
EDAE 461 (★3)
EDAE 485 (★3)
EDFX 475 (★3)
Education Option (★3): choose any course offered by the Faculty of Education
- (3) **Education General (★9)**
EDFX 476 (★3)
EDPS 410 (★3)
EDPY 3XX/4XX (★3): choose any EDPY course at the 300- or 400-level
- (4) **Education Options (★12)**
Choose any courses offered by the Faculty of Education.
- (5) **Open Options (★15)**
Choose any course offered by any Faculty.

Eligible courses in a completed Diploma in Postsecondary Education may be used to fulfill the program requirements of a BEd Adult Education Route/After Degree program.

66.1.2 Elementary Education Route (★60)

- (1) **Education Core I (★6)**
EDPY 200 (★3)
EDFX 200 (★3) or EDPS 3XX/4XX (★3) (any EDPS course at the 300- or 400-level)
- (2) **Elements ★9** chosen from any of the Elements not yet completed. See §65.3.2 for detailed descriptions of the Elements.
- (3) **Introductory Professional Term (★15)**
EDEL 300 (★3) EDPY 301 (★3)
EDFX 325 (★3) EDPY 303 (★3)
EDPS 310 (★3)
- (4) **Education Core II (★15) chosen from the following:**
EDEL 302 (★3) EDEL 325 (★3)
EDEL 305 (★3) EDEL 330 (★3)
EDEL 316 (★3) EDEL 335 (★3)
EDEL 321 (★3)
- (5) **Advanced Professional Term (★15)**
EDEL 3XX (★3): choose from courses in Education Core II not completed
EDFX 425 (★9)
EDPS 410 (★3)

Note: All courses in the Introductory and Advanced Professional Terms are integrated and must be taken concurrently.

66.1.3 Secondary Education Route (★60)

- (1) **Introductory Professional Term (★15)**
EDFX 350 (★3) EDPY 303 (★3)
EDPS 310 (★3) EDSE 3XX (★3)
EDPY 301 (★3)
- (2) **Advanced Professional Term (★15)**
EDFX 450 (★6) EDSE 4XX (★3)
EDFX 451 (★3) EDSE 4XY (★3)
- (3) **Education Core (★15)**
EDPS 410 (★3)
EDPY 200 (★3)
EDFX 200 (★3) or EDPS 3XX/4XX (★3) (any EDPS course at the 300- or 400-level)
Education Option (★6): choose any courses offered by the Faculty of Education
- (4) **Enrichment Term (★15)**
Open Options (★15): choose any courses offered by any Faculty to
 - a. enrich/clear deficiencies in the Major or Minor
 - b. meet the Computing requirement (EDIT 202 and EDSE 478 recommended)
 - c. meet the English requirement
 - d. develop an additional area of expertise

Note: All courses in the Introductory and Advanced Professional Terms are integrated and must be taken concurrently.

66.2 Advanced Study in Education

66.2.1 Bachelor of Education for Holders of Approved Degrees Who Also Hold the Alberta Professional Certificate

- Holders of approved degrees who have not completed the Professional Diploma of the University of Alberta must complete a minimum of 10 full-course equivalents (★60) to qualify for the Bachelor of Education Degree.
- Holders of approved degrees who also hold the Professional Diploma of the Faculty of Education and the Alberta Professional Certificate may qualify for the Bachelor of Education Degree by completing a five full-course equivalent (★30) program.

66.2.2 Diploma of the Faculty of Education

The Faculty of Education offers a series of diploma programs to provide additional special qualifications in designated areas. Normally, admission to a diploma program requires an undergraduate degree and a professional teaching certificate. Where exceptional circumstances warrant, one or both of the above requirements may be waived. Additional requirements may be set, and quotas may be imposed on particular diploma programs.

Students who now hold the MEd degree may not obtain the Diploma based on courses credited to the MEd degree program.

Normally, courses credited toward the diploma may not also be credited toward the Bachelor of Education degree. The minimum required grade for courses to be credited toward the Diploma is C-. Students who fail to complete the diploma program requirements in four years from date of starting the program may have their diploma program reviewed and, if necessary, re-arranged according to prevailing requirements.

Applicants who do not hold a Teaching Certificate will not receive one on completion of a Diploma program. A student wanting certification must take the basic Certification program described in §63.9.

Applicants who have never attended the University of Alberta must complete an Application for Admission and submit it along with all relevant documentation to the Office of the Registrar by the published deadline.

Applicants who have attended the University of Alberta should complete an Application for Readmission or Internal Transfer form and submit it to the Office of the Registrar by the published deadline.

Diploma programs currently available are listed by Department, as follows. Contact the Departments directly for more detailed information.

Department of Educational Psychology

(Dr LL Stewin, Chair)
 Educational Psychology
 Inclusive Education
 Instructional Technology
 Teaching English as a Second Language

Department of Educational Policy Studies

(Dr SP Norris, Chair)
 Adult Education
 Anthropology and Education
 Education Administration
 History of Education
 International/Intercultural Education
 Philosophy of Education
 Postsecondary Education
 Sociology of Education

Department of Elementary Education

(Dr DJ Oberg, Chair)
 Early Childhood Education
 General Studies
 Language Arts
 Music Education
 Teacher Librarianship

Department of Secondary Education

(Dr TR Carson, Chair)
 Art
 Biological Sciences
 Chemistry
 Career and Technology Studies (CTS)

CTS: Business and Technology
 CTS: Human Ecology
 CTS: Resources
 CTS: Technology Education
 Computers in Education
 Curriculum and Instruction
 Drama
 English Language Arts
 English as a Second Language
 General Sciences
 Health Education
 Mathematics
 Music: Choral
 Physical Education
 Physical Sciences (Chemistry and Physics)
 Physics
 Religious and Moral Education
 Second Languages
 Social Studies
 Special Topics* e.g., Computers in Education

*From time to time the Department of Secondary Education may offer diploma programs in special topics. Students interested in working in an area not included in the listing above should consult the Department of Secondary Education.

Note: The approved course work for all diploma programs in Secondary Education will be a total of ★24: EDSE 503 (★3); the corresponding minor program (★18) (see Education Chart 3); Open Option (★3).

66.2.3 Graduate Degree Programs in Education

The Faculty of Education offers graduate work for the preparation of teachers, supervisors, guidance counsellors, administrators and other educational specialists, and may lead to the degrees of Master of Education, Doctor of Education or Doctor of Philosophy. Candidates for these advanced degrees choose an area of concentration corresponding to the specialization of a particular department as follows:

Department of Educational Policy Studies: administration and leadership (elementary, secondary, and postsecondary), adult and higher education, First Nations education, history of education, international/intercultural education, philosophy of education, sociology of education, social and cultural contexts of education, global education.

Department of Educational Psychology: counselling and school psychology, educational psychology, special education, instructional technology education.

Department of Elementary Education: curriculum and instruction in kindergarten, primary, and elementary education (Grades 1–6).

Department of Secondary Education: curriculum and instruction in secondary education (Grades 7–12).

To meet candidates' needs and interests, departments permit considerable flexibility in the programs leading to advanced degrees. In general, students pattern their courses from the offerings of the department of their choice, supplemented by approved courses from other departments. Specific requirements for graduate degrees offered by the various departments in the Faculty of Education are found in §175.

Graduate-level courses in education are offered in Fall/Winter and Spring/Summer.

Students should address their preliminary inquiries to the appropriate Department Chair and, if possible, arrange for an interview.

All candidates for graduate degrees must also be formally admitted to the Faculty of Graduate Studies and Research, which administers graduate degree programs offered by the University of Alberta.

67 Courses

Faculty of Education courses are listed in §201, Course Listings, under the following subject headings:

Education – (EDU)
 Education – Administration and Leadership (EDAL)
 Education – Adult Education (EADAE)
 Education – Business Education (EDBU)
 Education – Career and Technology Studies (EDCT)

Education – Elementary (Curriculum and Instruction) (EDEL)
 Education – Elementary and Secondary (Curriculum and Instruction
 Common Courses) (EDES)
 Education – Field Experience (EDFX)
 Education – Foundations (EDFN)
 Education – Instructional Technology (EDIT)
 Education – Policy Studies (EDPS)
 Education – Psychology (EDPY)
 Education – Secondary (Curriculum and Instruction) (EDSE)

68 School of Library and Information Studies

The School of Library and Information Studies offers the Master of Library and Information Studies (MLIS) degree. The MLIS program is accredited by the Committee on Accreditation of the American Library Association. This accreditation is also recognized by the Canadian Library Association.

The MLIS develops the knowledge, understanding, attitudes and skills that prepare graduates for positions of responsibility in school, academic, public and special libraries, and in the information industry.

In preparing for the MLIS program, students should include courses distributed among the social sciences, biological and physical sciences, literature, and other areas of the humanities. Prior library experience can be beneficial.

The minimum requirement for the MLIS degree is either 13 single-term graduate courses and a thesis (thesis route), or 16 single-term graduate courses and a capping exercise (course-based route). Students may enrol in the School on a full-time or part-time basis. Students registered full time will normally be able to complete the degree requirements in two years. There are no residence requirements in the course-based route.

For further information, contact the School of Library and Information Studies.

School of Library and Information Studies courses are listed in §201, Course Listings, under the heading Library and Information Studies (LIS).

69 Employment with Catholic School Boards

Students planning to seek employment in Catholic Schools in Alberta should consult St Joseph's College early in their program about including courses in Christian Religious Education, Theology, and Philosophy in their program of study.