

# COLLEGE OF AGRICULTURE

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### Managing Knowledge-Based Development Chair\*

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### Associate Professors

J. Hobbs, M. R. Olfert, R. G. Roy

### Assistant Professors

T. J. Allen, K. Belcher, C. A. Jackson

### Associate Members

D. A. Gilchrist, M. Painter, K. Tran

### Adjunct Professors\*

H. G. Brooks, G. Marchildon, A. Schmitz, E. Smith, R. P. Zentner

## DEPARTMENT OF ANIMAL AND POULTRY SCIENCE

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## Saskatchewan Beef Industry Chair\*

J. J. McKinnon

### Professors

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### Associate Members

R. K. Chaplin, M. Smart

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## DEPARTMENT OF APPLIED MICROBIOLOGY AND FOOD SCIENCE

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G. G. Khachatourians

### Professors

D. E. Caldwell, W. M. Ingledew, N. H. Low, L. M. Nelson, R. T. Tyler

### Associate Professor

P. J. Shand

### Assistant Professors

D. R. Korber

### Adjunct Professors\*

S. M. Boyetchko, M. A. Erlandson, J. W. D. Grootwassink, D. D. Hegedus, J. R. Lawrence, R. D. Robarts, K. Sosulski

## DEPARTMENT OF PLANT SCIENCES/CROP DEVELOPMENT CENTRE (CDC)

### Head

T.B.A.

### Director (CDC)

F. A. Holm

### Pulse Research Chair\*

A. Vandenberg

### Professors

B. L. Harvey, F. A. Holm, G. R. Hughes, J. T. Romo, G. J. Scoles

### Professors (CDC)

D. B. Fowler, L. V. Gusta, P. J. Hucl, B. G. Rossnagel, G. G. Rowland

### Associate Professors

K. K. Tanino, D. R. Waterer

### Associate Professor (CDC)

T. D. Warkentin

### Assistant Professors

R. Ball, Y. Bai, K. E. Bett, R. H. Bors, H. Cota-Sanchez, P. Jeranyama, S. J. Shirliffe

### Associate Members

R. T. Tyler

### Adjunct Professors\*

B. Barl, R. N. Chibbar, B. E. Coulman, W. Keller, J. D. Knight, D. Lydiate, J. Mahon, G. Rakow, G. Selvaraj, J. G. Sequin-Swartz, R. G. St. Pierre, D. C. Taylor, A. G. Thomas, J. Thorpe

## DEPARTMENT OF SOIL SCIENCE

### Professor and Head

J. J. Germida

### Professors

D. W. Anderson, J. R. Bettany, D. J. Pennock, K. C. J. Van Rees

### Associate Professor

T. S. Tollefson, F. L. Walley

### Assistant Professor

B. C. Si

### Adjunct Professors\*

M. M. Boehm, R. E. Farrell, M. C. J. Grevers, M. H. Johnston, R. E. Kavamanos, L. M. Kozak, S. S. Malhi, A. R. Mermut, I. H. Salcedo, E. V. Sampaio, J. J. Schoenau, H. Tiessen, C. H. J. van Kessel

## MEMBERS FROM OTHER FACULTIES

T. D. Carruthers, Assistant Professor of

Herd Medicine and Theriogenology

R. K. Chaplin, Associate Professor of Veterinary Physiological Sciences

H. Cota-Sanchez, Assistant Professor of Biology

T. Crowe, Associate Professor of Agricultural and Bioresource Engineering

G. R. Davis, Professor of Physics and Engineering Physics

D. A. Gilchrist, Associate Professor of Economics

B. A. Hobin, Extension Specialist

R. W. Kerrich, Professor of Geological Sciences

C. P. Maulé, Associate Professor and Head of Agricultural and Bioresource Engineering

G. M. Moss, Professor of Extension

M. Painter, Associate Professor of Accounting

M.S.C. Pedras, Professor of Chemistry

W. W. E. Slight, Professor of English

B. Ziola, Professor of Microbiology

\*Denotes non-members of faculty.

## PROGRAMS

### CERTIFICATE PROGRAMS

The Certificates in Agriculture program, which is offered in collaboration with Extension Credit Studies, Extension Division, makes available a limited number of Diploma courses in home study format. Courses are combined to focus on clearly identifiable subject areas to which common sets of scientific or economic principles can be applied. At present, certificate programs are available in Crop Production and Farm Business Management. Further information may be obtained from Extension Credit Studies, telephone: (306) 966-5563 or by viewing our web site at www.ag.usask.ca.

### THE PRAIRIE HORTICULTURE CERTIFICATE PROGRAM

The Prairie Horticulture Certificate program is a home study program offered through

collaboration between four Western Canadian institutions - Assiniboine Community College (Brandon, Manitoba), Olds College (Olds, Alberta), the University of Manitoba and the University of Saskatchewan. At the University of Saskatchewan the program is delivered jointly by the College of Agriculture and Extension Credit Studies, Extension Division. The program is designed specifically for use in the prairie provinces, and offers four streams of study - Fruit and Vegetable Production, Greenhouse Crop Production, Landscaping and Arboriculture and Nursery Crop Production. Further information may be obtained from Extension Credit Studies, telephone: (306) 966-5563 or by viewing our web site at www.ag.usask.ca.

## THE PRE-VETERINARY MEDICINE PROGRAM

Students may complete the pre-veterinary medicine requirements in two years. Because the program load is heavy and the competition for entry is very keen, students are urged to spread their program over a longer period and to take the standard first-year courses for the B.S.A. program.

Candidates of exceptional ability who seek to complete the entrance requirements in two years are advised to take the following courses:

Year 1: AGRIC 111.3, 112.3; BIOL 110.6; CHEM 112.3, 250.3; ENG 110.6 or two of ENG 111.3, 112.3, 113.3, 114.3; MATH 101.3 and STATS 103.3.

Year 2: AGRIC 201.3; AN SC 212.3; AP MC 212.3; BIOCH 200.3, 211.3; BIOL 211.3; one of CHEM 221.3, 231.3, 242.3 or BIOCH 212.3; ECON 111.3; PHYS 111.6.

It is essential that all students consult a departmental program advisor each spring to develop an approved program of studies for the following year. Successful completion of the pre-veterinary medicine course requirements does not assure admission to the Western College of Veterinary Medicine. Students can continue a B.S.A. degree with little timetable and programming difficulty in most fields of specialization.

Students should consult the General Information and the Western College of Veterinary Medicine sections of the *Calendar* regarding details of admission procedures.

## DIPLOMA IN AGRICULTURE PROGRAM

The Diploma in Agriculture program offers a more practically oriented education in applied agricultural science. Agriculture today is a dynamic and changing industry. The modern producer requires a variety of knowledge and skills in areas of production, management and marketing, and educated young men and women have an important leadership role to play in communities. In addition, more and more producers are combining the operation of their farming enterprises with off-farm employment and various types of entrepreneurial activity. The program is therefore designed to prepare graduates from either urban or rural backgrounds for careers in agribusiness.

During the first term of Year 1, students select one of four specializations: General Agriculture, Agribusiness, Agronomy, or Animal Science.

To complete the program students will be required to meet the specific course requirements of the chosen area of specialization and to select additional courses to provide a minimum combined total of 120 credit weights. In selecting courses, careful attention must be paid to prerequisite requirements.

Courses in this two-year program are assigned a credit weight (credit weights), which is a measure of its academic content. Two credit weights is considered to be equivalent to one degree credit unit. The normal work load in each term of the diploma program is 30 credit weights.

Courses numbered 40 to 59 are Year 1 courses, and those numbered 60 to 79 are normally taken in Year 2; courses numbered 80 to 89 are special topics or summer work experience courses.

**Note: It is the student's responsibility to ensure that their program of study meets the academic requirements of the Diploma program. All students must see an academic program adviser to approve their course selection.**

## COURSES COMMON TO ALL FIELDS OF SPECIALIZATION

### Year 1, Term 1 (30 credit weights)

AG EC 42.6 Financial Accounting  
 AGRIC 40.3 Introduction to Communication  
 AGRIC 45.3 Computer Applications  
 AN SC 41.6 Introductory Livestock Production Science  
 PL SC 41.6 Introductory Plant Science  
 SL SC 41.6 Fundamentals of Soil Science  
 Year 1, Term 2 (12 credit weights)

AB E 51.6 Introduction to Agricultural Equipment  
 AG EC 52.6 Economics

### Year 2, Term 1 (18 credit weights)

AB E 61.6 Primary and Secondary Processing of Agricultural Products  
 AG EC 62.6 Financial Management  
 AGRIC 60.3 Professional Communication  
 AGRIC 61.3 Leadership and the Community or  
 AGRIC 62.3 Human Resource Management

## GENERAL AGRICULTURE

In addition to the compulsory courses common to all areas, students in General Agriculture must take:

AG EC 75.6 Agricultural Business Capstone or  
 AGRON 75.6 Advances in Agronomy

Additional diploma or approved degree courses (54 credit weights) to total at least 120 credit weights

## AGRIBUSINESS

In addition to the compulsory courses common to all areas, students in Agribusiness must take:

AG EC 54.6 Introduction to Law and the Taxation of Individuals  
 AG EC 66.6 Introduction to Agricultural Marketing  
 AG EC 72.6 Principles of Selling  
 AG EC 74.6 Agribusiness Marketing

AG EC 75.6 Agricultural Business Capstone  
 AG EC 78.6 Management Accounting  
 AG EC 81.3 Agribusiness Experience  
 Additional open elective courses (21 credit weights) to total at least 120 credit weights

## AGRONOMY

In addition to the compulsory courses common to all areas, students in Agronomy must take:

AG EC 75.6 Agricultural Business Capstone  
 or  
 AGRON 75.6 Advances in Agronomy  
 AGRON 82.3 Field Diagnostic School  
 PL SC 54.3 Weed Biology  
 PL SC 55.3 Weed Control  
 SL SC 52.6 Soil Fertility and Fertilizers

An additional 24 credit weights selected from the following:

AB E 75.6 Electronics and Controls in Agriculture  
 AB E 79.6 Water Management  
 PL SC 51.3 Cereal Crops I – Wheat  
 PL SC 52.3 Cereal Crops II  
 PL SC 58.3 Forage Crops  
 PL SC 71.3 Oilseeds  
 PL SC 72.3 Pulse Crops  
 PL SC 73.3 Rural Landscaping  
 SL SC 73.6 Soil Management and Land Evaluation

Additional open elective courses (15 credit weights) to total at least 120 credit weights

## ANIMAL SCIENCE

In addition to the compulsory courses common to all areas, students in Animal Science must take:

AB E 72.6 Livestock Facilities  
 AG EC 75.6 Agricultural Business Capstone  
 AN SC 53.3 Animal Nutrition  
 AN SC 54.3 Animal Feeding  
 AN SC 56.6 Animal Breeding and Genetics  
 AN SC 63.3 Beef Cow-Calf Production  
 AN SC 64.3 Beef Feedlot and Sheep Production  
 AN SC 75.3 Swine Production  
 AN SC 76.3 Dairy and Poultry Production  
 AN SC 77.6 Livestock Production Enterprises  
 LACS 57.3 Principles of Animal Health and Disease  
 PL SC 58.3 Forage Crops

Additional open elective courses (12 credit weights) to total at least 120 credit weights

## SUSTAINABLE AGRICULTURE AND THE ENVIRONMENT

The College of Agriculture is committed to emphasizing sustainability and environmental issues in all its teaching, research and extension activities.

Accordingly, students in all areas will find a strong emphasis in their courses on issues related to the environment and the sustainability of agricultural production. For those who are particularly interested in these topics the following courses are recommended:

AB E 79.6 Water Management  
 AGRON 75.6 Advances in Agronomy  
 PL SC 55.3 Weed Control  
 PL SC 56.3 Environmental Studies  
 PL SC 58.3 Forage Crops  
 SL SC 73.6 Soil Management and Land Evaluation

## AGRIBUSINESS EXPERIENCE

Students may obtain work experience in agribusiness in the course AG EC 81.3, Agribusiness Experience. The course is required for students in the Agribusiness option and available to students in other options. It is designed to assist students to articulate and document the required competencies for entry-level agribusiness management positions. It involves in-class activities and a 13-16 week supervised work term between the first and second years, for which students are required to apply, interview and work for an employer in the agribusiness sector (other than a family member or close neighbour). For further information contact the Dean's Office.

## SASKATCHEWAN INSTITUTE OF AGROLOGISTS

In 1998 the Saskatchewan Institute of Agrologists established a category of membership for Diploma graduates – Agricultural Technologist. For information on membership in the Institute contact the Executive Director, Saskatchewan Institute of Agrologists, 7-3012 Louise Street, Saskatoon, SK S7J 3L8 (306-242-2606). Internet: www.sia.sk.ca

## TRANSFER TO A UNIVERSITY DEGREE PROGRAM

Students who wish to consider studying at the degree level following completion of the Diploma are advised to consult an academic advisor early in their program in order to maximize credit transfer to the B.S.A.

## TRANSFERS FROM BACHELOR OF SCIENCE IN AGRICULTURE PROGRAM, OTHER COLLEGE DEGREE PROGRAMS OR OTHER POST SECONDARY INSTITUTIONS

Students enrolled in the Diploma in Agriculture program may be permitted to apply specific completed degree courses towards courses in the Diploma program. A conversion ratio of three degree credit units to six Diploma credit weights will be applied.

Students accepted into the Diploma in Agriculture program may receive credit for course work completed at another institution. Decisions on the granting of credit for such course work are made by the Associate Dean (Academic) in consultation with the Head of the department concerned and, where possible, with the instructor of the equivalent Diploma course. A detailed description of course content may be requested to facilitate a decision.

## THE B.S.A. DEGREE PROGRAM

Agriculture is a science and technology oriented discipline. B.S.A. graduates will be well served by pursuing careers in Agriculture. The college is an acknowledged leader in agricultural research and teaching.

Major issues that agriculture students and Professional Agrologists face include:

- Resource use consistent with sustainable food production and environmental safeguarding.
- Production, processing and marketing of high quality food and feed.

- Research, development and implementation of innovative and efficient production, management and marketing systems.

## EDUCATIONAL OBJECTIVES

The four year B.S.A. degree program is designed to produce graduates with:

- a sound basis in natural and social sciences;
- a general knowledge of the agri-food system;
- sufficient depth in the area of specialization;
- the ability to think critically and solve problems;
- the ability to communicate orally and in writing;
- computer literacy;
- an appreciation of the arts and humanities;
- an understanding of the elements of the business of agriculture;
- knowledge of the profession of agrology and of ethical professional behaviour.

## PROGRAM ACCREDITATION

All B.S.A. specializations offered by the College of Agriculture were granted full accreditation by the Agricultural Institute of Canada in 1999. Graduates are thus eligible for admission to the professional practice of Agrology in Canada.

## ADMISSION TO PRACTICE AGROLOGY (P.Ag)

The Agrologists Act, 1994, requires that persons practicing agrology in the Province of Saskatchewan be registered members of the Saskatchewan Institute of Agrologists.

University of Saskatchewan graduates who intend to practice agrology within the meaning of the Act, must apply to be registered as articling agrologists immediately upon graduation. Undergraduate B.S.A. degree students are eligible to join as student members. Further details on the Agrologists Act, the definition of practicing agrology, and the Saskatchewan Institute of Agrologists may be obtained from the Executive Director, Saskatchewan Institute of Agrologists, 7-3012 Louise Street, Saskatoon, SK S7J 3L8. Internet site: www.sia.sk.ca.

## FIELDS OF SPECIALIZATION

Agricultural Biology  
 Agricultural Chemistry  
 Agricultural Economics  
 Agronomy  
 Animal Science  
 Applied Microbiology  
 Crop Science  
 Environmental Science  
 Food Science  
 Horticulture Science  
 Plant Ecology  
 Rangeland Resources  
 Soil Science

Starting in Year Two, students must follow an approved Honours or Majors specialization as described below. An 18 credit unit minor in another specialization can also be taken. Majors generally provide for fewer basic science courses and a wider

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selection of electives than for Honours concentrations. Double majors are not permitted. Honours concentrations provide an enriched selection of courses to better prepare students for graduate studies.

Admission to Honours is restricted to students having an approved Honours program, a recommendation from the supervising department, and a cumulative weighted average of 70% or better on a minimum of 60 credit units in B.S.A. credited courses at the time of application. Students must officially apply for admission to an Honours program through the office of the Dean of Agriculture before the start of fourth year at the latest.

## MINIMUM REQUIREMENTS FOR THE B.S.A. DEGREE (126 CREDIT UNITS)

The B.S.A. degree will be conferred on students who have met all the requirements of one of the fields of specialization described below. All course selections must be approved by a departmental program advisor. The minimum requirement for the B.S.A. degree is a cumulative weighted average of 60.0% on 126 credit units of approved courses. Students entering the college with credit for B.S.A. courses must complete at least 30 credit units of approved senior courses while registered in the College of Agriculture.

## CO-OPERATIVE EDUCATION PROGRAM IN AGRICULTURE

Co-operative education is a structured educational concept integrating classroom studies with related work experience in the student's academic field. Students who enrol in the Co-operative Education program will benefit from full-time paid work experience in the private and public sectors. Work term length varies from 4 to 8 months. Co-operative education contributes to the students' educational experience and improves employability upon graduation.

A co-operative education tuition applies to each 4 month work term. Admission requirements include being: registered full-time in the B.S.A. degree program and completion of between 54-84 credit units before starting the first work term.

For further information, contact Room 2E10, College of Agriculture, 51 Campus Drive, Saskatoon SK S7N 5A8, telephone: (306)966-7797, Fax: (306)966-7788, email [molder@sask.usask.ca](mailto:molder@sask.usask.ca) or [www.ag.usask.ca](http://www.ag.usask.ca)

## APPROVED COURSE REGISTRATIONS

First year students must register in the courses listed below. Students transferring into the B.S.A. degree program with 18 or more credit units of transfer credits must obtain an approved schedule of courses from the program advisor in their chosen field of specialization prior to registration.

## COURSE SCHEDULING

Not all courses listed in the *Calendar* are offered every year. Students should check the *Registration Guide* ([www.usask.ca/registrar/regguide](http://www.usask.ca/registrar/regguide)) to confirm the course offerings for the current year.

## FIRST YEAR REQUIREMENTS - ALL STUDENTS (30 CREDIT UNITS)

*Term One:* BIOL 110.6; CHEM 112.3; ECON 111.3; AGRIC 111.3; and 6 credit units in the humanities, fine arts or social sciences (see following list of acceptable courses).

*Term Two:* BIOL 110.6 (continued from Term One); ECON 114.3 (AG EC Majors) or CHEM 250.3 (non-AG EC Majors); one of ENG 111.3, 112.3, 113.3, 114.3; AGRIC 112.3; social sciences, fine arts, or humanities course (continued from Term One if a 6 credit unit course or a new 3 credit unit course for Term Two).

## ACCEPTABLE HUMANITIES, FINE ARTS AND SOCIAL SCIENCES COURSE AREAS

### Humanities

Classics	Latin
English	Philosophy
French	Religious Studies
German	Russian
Greek	Sanskrit
Hebrew	Spanish
History	Ukrainian

### Fine Arts

Art	Music
Drama	

### Social Sciences

Anthropology	Native Studies
Archaeology	Political Studies
Economics*	Psychology
Geography**	Sociology
Linguistics	Women's and Gender Studies

\*Students majoring in Agricultural Economics cannot take Economics courses to meet this requirement.

\*\*The following Geography courses are not acceptable to meet this requirement: GEOG 101, 102, 111, 112, 210, 222, 225, 231, 233, 235.

## FIELDS OF SPECIALIZATION

### AGRICULTURAL BIOLOGY

In consultation with the program advisor, biology courses and restricted electives are chosen in relation to a particular area such as entomology, plant pathology, plant molecular biology, or wildlife ecology.

#### Second Year (30 credit units)

AGRIC 201.3, 290.3, 291.3; BIOCH 200.3, 212.3; 12 credit units from required third and fourth-year biology courses listed immediately below; 3 credit unit open elective.

#### Third and Fourth Years (66 credit units)

##### Honours

*Required Courses (36 credit units):* AGRIC 494.6; BIOL 203.6, 204.3, 211.3, either 202.3 or 205.3; one of ANAT 200.3, BIOL 217.3 or 331.3; one of BIOL 253.3, 263.3 or PL SC 213.3; PL SC 314.3; MATH 101.3 and STATS 103.3 or 6 other credit units in mathematics or physics; 9 additional credit units in biology; 3 credit units in humanities, fine arts or social sciences.

*Restricted Electives (21 credit units):* Biology courses selected from Agriculture, Arts and Science, Veterinary

Medicine and approved by the Department of Biology.

*Open Electives (9 credit units).*

##### Majors

*Required Courses (24 credit units):* AGRIC 492.3; BIOL 203.6, 204.3, 211.3, either 202.3 or 205.3; one of ANAT 200.3, BIOL 217.3 or 331.3; one of BIOL 253.3, 263.3 or PL SC 213.3; PL SC 314.3; MATH 101.3 and STATS 103.3 or 6 other credit units in mathematics or physics; 3 credit units in humanities, fine arts or social sciences.

*Restricted Electives (24 credit units):* Biology courses selected from Agriculture, Arts and Science, and Veterinary Medicine and approved by the Department of Biology.

*Open Electives (18 credit units)*

## AGRICULTURAL CHEMISTRY

#### Second Year (33 credit units)

AGRIC 201.3, 222.3, 290.3, 291.3; CHEM 221.3, 231.3, 252.3; MATH 110.3, 116.3; PHYS 121.6.

*Note:* CMPT 111 can be substituted for AGRIC 290 and CHEM 302 can be substituted for AGRIC 291.

#### Third and Fourth Years (63 credit units)

##### Honours

AGRIC 494.6, BIOCH 200.3, 212.3, 220.3; CHEM 242.3, 243.3, 322.3, 332.3, 456.3; PL SC 314.3; 3 credit units of senior chemistry; 3 credit units of open electives; 24 credit units of electives from the list below, with at least 6 credit units from the 1st seven courses in the list below.

##### Majors

AGRIC 492.3; BIOCH 200.3, 212.3, 220.3; CHEM 242.3, 243.3, 322.3, 332.3, 456.3; PL SC 314.3; 6 credits units of open electives; 27 credit units of electives from the list below, with at least 9 credit units from the 1st seven courses in the list.

##### Restricted Electives (Honours, Majors)

AP MC 212.3, CHEM 353.3, 374.3, 375.3, 377.3; FD SC 415.3; PL SC 420.3; SL SC 313.3.

AGRIC 493.3; AP MC 434.3; BIOCH 230.3, 310.3, 311.3, 420.3; BIOL 202.3, 211.3, 217.3, 331.3; any senior chemistry or mathematics course; FD SC 323.3, 345.3, 412.3, 417.3; MECAG 421.3; PHSIO 212.6; SL SC 220.3, 312.3, 403.3.

## AGRICULTURAL ECONOMICS

The objective of Agricultural Economics is to provide an understanding of current economic, social and environmental issues facing Saskatchewan and the world, and to look for practical solutions.

#### Second Year (33 credit units)

AGRIC 201.3, 291.3, AG EC 261.3, 272.3; ECON 211.3, 214.3; MATH 110.3 and 112.3, or 116.3 or 213.3 or 264.3 or ECON 305.3 or 306.3; STATS 245.3; Electives (6 credit units).

#### Third and Fourth Years (63 credit units)

## Honours

*Required Courses (39 credit units):* AGRIC 222.3, 494.6; AG EC 315.3, 322.3, 342.3, 361.3; COMM 200.3 (or 204.3), 201.3, 203.3; ECON 404.6; one of PHIL 120.3, 133.3, 140.3, 235.3, 240.3, 241.3, 251.3, 262.3, HIST 254.3, 257.3, 258.3, 287.3, 288.3.

*Restricted Electives (15 credit units):* 12 credit units from any 400-level AG EC courses; 3 credit units from natural sciences, social sciences, humanities, commerce, agricultural economics and, if applicable, a specialization minor course.

*Open Electives (9 credit units)*

## Majors

*Required Courses (33 credit units):* AGRIC 222.3, 492.3, AG EC 315.3, 322.3, 342.3, 361.3, 461.3; COMM 200.3 (or 204.3), 201.3, 203.3; one of PHIL 120.3, 133.3, 140.3, 235.3, 240.3, 241.3, 251.3, 262.3, HIST 254.3, 257.3, 258.3, 287.3, 288.3.

*Restricted Electives (21 credit units):* 12 credit units from any 400-level AG EC courses; 9 credit units from natural sciences, social sciences, humanities, commerce, agricultural economics and, if applicable, a specialization minor course.

*Open Electives (9 credit units)*

## AGRONOMY

**There are two programs in effect: one is for majors enrolled prior to 2001W, the other is for those beginning 2001W. Students must ensure they follow the program which applies to them (Please see below):**

The Agronomy major integrates principles of economical and sustainable field crop production. Students should find this program useful for future jobs in agricultural extension, business or farming. Graduates wishing to do postgraduate study in the Departments of Agricultural Economics, Plant Sciences or Soil Science should consult their program advisor regarding appropriate electives.

#### MAJORS PRIOR TO 2001W

##### Second Year (33 credit units)

AGRIC 201.3, 290.3, 291.3; AG EC 302.3; AP MC 212.3; BIOL 202.3; MATH 101.3 and STATS 103.3 or 6 other credit units in mathematics or physics; PL SC 213.3; SL SC 240.3; 3 credit units from third year required courses.

##### Third and Fourth Years (63 credit units)

*Required Courses (36 credit units):* AGRIC 222.3, 492.3 or 493.3; AG EC 320.3; AN SC 212.3; BIOL 331.3; PL SC 301.3, 314.3, 331.3, 340.3, 418.3; SL SC 312.3, 322.3, 343.3.

*Electives: (27 credit units):* As approved by the Agronomy program advisor. Nine credit units of these electives can be open electives. Students may choose an 18 credit unit minor in another specialization. Students interested in employment in the agriculture business sector should consider taking the Agri-business minor.

## MAJORS BEGINNING 2001W

### Second Year (30 credit units)

AGRIC 201.3, 290.3, 291.3, AG EC 302.3 (or ECON 211.3 or 213.3); BIOL 202.3; MATH 101.3 and STATS 103.3 (or six other credit units of Mathematics or Physics); PL SC 314.3; SL SC 240.3; a 3 credit unit social science, humanities or fine arts course.

### Third and Fourth Years (66 credit units)

Required Courses (33 credit units): AGRIC 492.3 or 493.3; AG EC 320.3, 343.3; BIOCH 220.3; BIOL 331.3, PL SC 301.3, 340.3, 345.3, 417.3, SL SC 312.3, 322.3 (or MECAG 309.3).

#### Approved Electives (33 credit units):

Agronomy majors must take an 18 credit unit minor in one of Agribusiness, Agricultural Economics, Crop Science, Rangeland Resources or Soil Science. At least 12 credit units taken for the minor must come from the elective category. The difference between 33 credit units of electives and the number taken from the elective category to meet the requirement for a minor are open electives.

## ANIMAL SCIENCE

### Second Year (33 credit units)

AGRIC 201.3, 290.3, 291.3; AN SC 212.3; AP MC 212.3; BIOCH 200.3, 211.3; BIOL 211.3; PL SC 314.3; MATH 101.3 and STATS 103.3 or 6 other credit units in mathematics or physics.

### Third and Fourth Years (63 credit units)

Required Courses (30 credit units): AGRIC 492.3 or 493.3; AN SC 313.3, 315.3, 340.3, 410.3, 420.3, 440.3; VBMS 324.3, 325.3; 3 credit units in social sciences, fine arts or humanities.

#### Restricted Electives: 15 credit units from:

AG EC 302.3, 320.3, 343.3; AGRIC 494.6, 498.3; AN SC 301.3, 333.3, 411.3, 470.3, 480.3; AP MC 425.3, 450.3; BIOCH 212.3, 230.3, 310.3, 311.3, 436.3; BIOL 202.3, 253.3, 263.3, 316.3, 351.6, 424.3, 455.3, 472.3; COMM 101.3, 200.3 or 204.3, 201.3, 202.3, 208.3, 404.3; EDCNT 410.3, 420.3; EDPSE 453.3; FD SC 457.3; LACS 411.3; MECAG 417.3; PHYS 111.6; PL SC 213.3, 322.3, 361.3, 405.3, 412.3, 418.3, 420.3, 423.3, 434.3, 436.3; SL SC 312.3, 470.3; VBMS 314.3; VT PA 412.3; VBMS 425.3 or other courses as approved by the Animal Science program advisor.

#### Open Electives (18 credit units).

## APPLIED MICROBIOLOGY

The Applied Microbiology specialization provides a broad background in the study of microbial activities and their application to the agriculture foods industry and the environment. It also provides an introduction to biotechnology and its accompanying techniques. Graduates are equipped for a wide range of technical and industrial positions related to agriculture, secondary food production and resource management.

### Second Year (33 credit units)

AGRIC 201.3, 222.3, 290.3, 291.3; AP MC 212.3, BIOCH 200.3, 211.3, 212.3; MICRO 416.3; PL SC 314.3; 3 credit units from required third- and fourth-year AP MC courses listed.

### Third and Fourth Years (63 credit units)

#### Honours

Required Courses (42 credit units): AGRIC 494.6; AP MC 425.3, 430.3, 433.3, 434.3, 435.3, 437.3, 450.3; MATH 110.3 and 112.3 or PHYS 111.6; MICRO 387.3, 421.3; SL SC 343.3.

#### Electives (21 credit units):

Approved minor stream: 18 credit units for minor plus 3 credit units from elective listed in non-minor stream following.

Non-minor stream: 12 credit units from: AGRIC 493.3; BIOCH 230.3, 435.3, BIOL 204.3; FD SC 412.3, 415.3 or 417.3, 452.3; LACS 411.3; MICRO 308.3, 309.3, 390.3, 391.3, PL SC 213.3; and 9 credit units of open electives.

#### Majors

Required Courses (36 credit units): AGRIC 492.3 or 493.3, AP MC 425.3, 430.3, 433.3, 434.3, 435.3, 437.3, 450.3; MATH 101.3 and STATS 103.3, or MATH 110.3 and 112.3 or PHYS 111.6; MICRO 387.3; SL SC 343.3.

#### Electives (27 credit units):

Approved minor stream: 18 credit units for minor; 3 credit units from elective listed in non-minor stream following and 6 credit units of open electives.

Non-minor stream: 18 credit units from: AGRIC 492.3 or 493.3; BIOCH 230.3, 435.3, BIOL 204.3; FD SC 412.3, 415.3 or 417.3, 452.3; LACS 411.3; MICRO 308.3, 309.3, 390.3, 391.3, 421.3; PL SC 213.3; and 9 credit units of open electives.

## CROP SCIENCE

### Second Year (33 credit units)

AGRIC 201.3, 290.3, 291.3; BIOL 202.3, 211.3, MATH 101.3 and STATS 103.3 or 6 other credit units in mathematics or physics; PL SC 213.3, 301.3, 331.3; SL SC 240.3.

### Third and Fourth Years (63 credit units)

Required Courses (39 credit units): AGRIC 222.3, 492.3 or 493.3; AG EC 343.3; BIOCH 220.3, BIOL 331.3, 345.3; PL SC 314.3, 322.3 or 418.3, 340.3, 405.3 (or 432.3), 411.3, 412.3 (or 417.3), 452.3.

Electives (24 credit units): As approved by the Crop Science program advisor. Emphasis can be obtained in agri-business, extension, agronomy/crop production, crop protection, applied genetics and biotechnology.

## ENVIRONMENTAL SCIENCE

The objective of a major in Environmental Science is to provide an understanding of the relationships between environmental constraints and sustainable development, with an emphasis on prairie agriculture. The program is largely focused toward the agricultural and food sectors as they relate to the environment. The program does not

provide education and training in all areas of environmental science.

Majors in Environmental Science will be required to complete an 18 credit-unit minor in an Agricultural specialization (including the Agri-Business minor, and the Agricultural Extension minor) and the core program requirements listed below. This will provide an interdisciplinary background in environmental science and focused training in an agricultural area of specialization.

### Second Year (30 credit units)

AGRIC 201.3, 210.3, 290.3, 291.3; AP MC 212.3; MATH 110.3; PL SC 213.3; SL SC 220.3; 6 credit units of program electives (to be used primarily to fulfill prerequisites for upper year required courses in environmental science or to take courses in the area of specialization in environmental science or to take courses in the college minor).

### Third and Fourth Years (66 credit units)

Required Courses (24 credit units): AGRIC 222.3 or PHIL 226.3; AGRIC 485.3, 492.3 or 493.3; AP MC 430.3; PL SC 301.3; STATS 245.3 or PL SC 314.3; ECON 275.3 (or 277.3) or AG EC 330.3 (or 430.3); GEOL 206.3 or GEOG 210.3.

Environmental Science Restricted Electives (18 credit units): As approved by the Environmental Science program advisor.

College Minor (18 credit units): As an integral part of the environmental science program students are required to select a minor in one of the fields of specialization in the college or select the Agri-Business minor or the Agricultural Extension minor.

Note: Courses taken to complete Environmental Science required or restricted electives cannot be counted towards the College minor.

#### Open Electives (12 credit units).

## FOOD SCIENCE

The Food Science specialization emphasizes the application of the basic sciences to the food processing industry. This option prepares students for employment in the food processing industry, government or private research laboratories, or food regulatory agencies.

### Second Year (33 credit units)

AGRIC 201.3, 222.3, 290.3, 291.3; AP MC 212.3; BIOCH 200.3, 211.3, 212.3; MATH 110.3, MATH 112.3 or 116.3; NUTR 120.3.

### Third and Fourth Years (63 credit units)

#### Honours

Required courses (42 credit units): AGRIC 494.6; AP MC 425.3, 435.3; FD SC 345.3, 412.3, 415.3, 417.3, 452.3, 457.3; MECAG 421.3; PHYS 111.6; 3 credit units in statistics (senior level).

Restricted Electives (15 credit units): AN SC 440.3; AP MC 434.3, 437.3; BIOCH 220.3, 310.3; CHEM 242.3; COMM 102.3, 204.3, 206.3; FD SC 323.3; PL SC 420.3.

#### Open Electives (6 credit units).

#### Majors

Required Courses (36 credit units): AGRIC 492.3 or 493.3; AP MC 425.3; FD SC 345.3, 412.3, 415.3, 417.3, 452.3, 457.3;

MECAG 421.3; PHYS 111.6; 3 credit units statistics (senior level).

Restricted Electives: 21 credit units from: AGRIC 492.3 or 493.3; AN SC 440.3; AP MC 434.3, 435.3, 437.3; BIOCH 220.3, 310.3; CHEM 242.3; COMM 102.3, 204.3, 206.3; FD SC 323.3; PL SC 420.3, 461.3.

#### Open Electives (6 credit units).

## HORTICULTURE SCIENCE

### Second Year (33 credit units)

AGRIC 201.3, 290.3, 291.3; BIOCH 220.3; BIOL 202.3, PL SC 220.3; SL SC 240.3; 12 additional credit units from required third and fourth-year courses.

### Third and Fourth Years (63 credit units)

Required Courses (39 credit units): AGRIC 222.3, 492.3 or 493.3; BIOL 211.3, 331.3; PL SC 314.3, 340.3, 411.3, 430.3, 433.3, 435.3, 441.3, 451.3, 461.3, 470.3, 480.3; 6 credit units in mathematics or physics.

Electives (24 credit units): As approved by the Horticulture Science program advisor. Can be used to meet minor in another specialization.

## PLANT ECOLOGY

### Second Year (30 credit units)

AGRIC 201.3, 290.3, 291.3; BIOL 202.3, 211.3; GEOG 111.3, 112.3; MATH 101.3 and STATS 103.3; PL SC 213.3.

### Third and Fourth Years (66 credit units)

Required Courses (39 credit units): AGRIC 492.3 or 493.3; AP MC 212.3; BIOL 263.3, 323.3; PL SC 314.3; GEOG 321.3; PL SC 322.3, 361.3, 412.3, 423.3, 436.3; SL SC 220.3; 3 credit units in humanities or social sciences.

Electives (27 credit units): As approved by the Plant Ecology program advisor. Students may choose to minor in another specialization.

## RANGELAND RESOURCES

### Second Year (30 credit units)

AGRIC 201.3, 290.3, 291.3; BIOL 202.3, 211.3; GEOG 111.3, 112.3; MATH 101.3 and STATS 103.3; PL SC 213.3.

### Third and Fourth Years (66 credit units)

Required Courses (48 credit units): AGRIC 492.3; AN SC 212.3, 410.3; AP MC 212.3; BIOL 323.3, 424.3; GEOG 321.3; PL SC 314.3, 322.3, 412.3, 418.3, 423.3, 434.3, 436.3; SL SC 220.3; 3 credit units in humanities or social sciences.

Electives (18 credit units): As approved by the Rangeland Resources Program Advisor.

## SOIL SCIENCE

The Soil Science program provides students with an in-depth understanding of the physical, biological and chemical processes that occur in the soil and the role of soils in plant production and environmental management.

# AGRICULTURE

## Second Year (33 Credit Units)

AGRIC 201.3, 290.3, 291.3; AP MC 212.3; CHEM 231.3 or BIOCH 200.3; MATH 101.3 and STATS 103.3, or MATH 110.3 and 112.2 (or 116.3); PHYS 111.6; PL SC 213.3; SL SC 220.3 or 240.3.

## Third and Fourth Years

**Required Courses (42 Credit Units):** AGRIC 492.3 or AGRIC 493.3 or AGRIC 497.6; one of ECON 114.3, 211.3, 213.2; one of ECON 275.3, 277.3, AG EC 330.3; GEOG 210.3 or GEOL 206.3; PL SC 301.3, 314.3; SL SC 312.3, 313.3, 322.3, 332.3, 343.3; 9 credit units of 400-level Soil Science courses (including 3 credit units for AGRIC 497.6, if taken).

**Electives (21 Credit Units)** as approved by the Soil Science adviser. Students are strongly advised to complete an 18 credit unit Minor in another specialization.

## SPECIALIZATION MINORS

Students may take a minor. A minor consists of 18 credit units in a specialization outside the student's major. At least 12 credit units in the minor must be courses that are not specifically listed as required in a student's B.S.A. major.

### Agribusiness

**Required Courses:** COMM 101.3, 201.3, 492.3.

**Electives:** 9 credit units from: AG EC 322.2 (or 320.3), 343.3, 420.3, 435.3; COMM 202.3, 203.3, 204.3 (or 200.3), 205.3, 301.3, 303.3, 208.3, 352.3, 354.3, 404.3

### Agricultural Economics

**Required Courses:** AG EC 302.3 or ECON 211.3 or 213.3, AG EC 320.3, 343.3.

**Electives:** 9 credit units from: AG EC 330.3 (or 430.3), 432.3, 433.3, 434.3, 435.3; COMM 201.3; ECON 231.3.

### Animal Science

**Required Courses:** AN SC 212.3, 313.3, 315.3.

**Electives:** 9 credit units from: AN SC 333.3, 340.3, 410.3, 411.3, 420.3, 440.3, 470.3; FD SC 457.3; LACS 411.3.

### Applied Microbiology

**Required Courses:** AP MC 212.3, 435.3.

**Electives:** 12 credit units from: AP MC 425.3, 430.3, 433.3, 434.3, 437.3, 450.3; BIOL 204.3 211.3, 342.3; FD SC 452.3; LACS 411.3; MICRO 216.3, 308.3, 309.3, 390.3, 391.3; SL SC 343.3.

### Biotechnology

**Required Courses:** 6 credit units from each of Categories A and B below:

**Electives:** 6 additional credit units from Categories A or B below.

Category A: AG EC 292.3; COMM 345.3, 346.3; PHIL 236.3; SOC 292.3, 323.3.

Category B: AN SC 470.3; AP MC 425.3, 430.3, 433.3, 434.3, 435.3, 437.3, 450.3; BIOCH 212.3, 230.3, 311.3 (or MICRO 290.3), 436.3; BIOL 316.3, 420.3; BTECH 200.3\*, 300.3\*, 400.3\*; PL SC 416.3; SL SC 343.3.

\*These courses can only be taken for B.S.A. degree credit with the signed approval of an official B.S.A. program adviser. Copy of approval must be sent to the Office of the Dean of Agriculture. Students who take other senior science courses with significant biotechnology content will not be allowed to take BTECH 200, 300 and 400 for credit.

### Crop Science

**Required Courses:** PL SC 301.3, 331.3; 6 credit units from: PL SC 340.3, 345.3, 411.3, 416.3, 417.3, 418.3, 420.3, 432.3.

**Electives:** 6 credit units from BIOL 345.3; MECAG 309.3; PL SC 213.3, 322.3, 412.3; SL SC 240.3 or courses not taken from required course choices above.

### Food Science

**Required Courses:** 12 credit units from: AP MC 212.3, 425.3; FD SC 345.3, 412.3, 417.3, 452.3, 457.3.

**Electives:** 6 credit units from: AP MC 435.3; FD SC 323.3, 457.3; MECAG 421.3; NUTR 120.3 or AN SC 315.3; PL SC 420.3, 461.3 or courses not taken from required course choices above.

### Horticulture

**Required Courses:** PL SC 220.3 and 9 credit units from: PL SC 332.3, 430.3, 433.3, 435.3, 441.3, 451.3, 461.3, 470.3, 480.3.

**Electives:** 6 credit units from: BIOL 345.3; MECAG 309.3; PL SC 213.3, 311.3, 331.3, 340.3, 412.3, 423.3, 462.3; SL SC 240.3 or courses not taken from the required course choices above.

### Mechanized Agriculture

(Not offered in 2002-2003)

**Required Courses:** 18 credit units from: MECAG 211.3, 212.3, 215.3, 309.3, 313.3, 319.3, 417.3.

### Plant Ecology

**Required Courses:** PL SC 213.3, 412.3, 423.3, 436.3.

**Electives:** 6 credit units from: BIOL 323.3; 424.3; PL SC 301.3, 322.3, 361.3, 418.3, 434.3, 462.3; SL SC 220.3.

### Poultry Science

**Required Courses:** AN SC 440.3, 480.3; VT PA 412.3; 6 credit units on a poultry topic from AGRIC 492.3, 493.3, 494.6, 498.3.

**Electives:** 3 credit units from AN SC 212.3, 315.3, 333.3, 411.3; BIOL 458.3.

### Rangeland Resources

**Required Courses:** AN SC 410.3; PL SC 213.3, 322.3, 423.3, 434.3 or (BIOL 424.3).

**Electives:** 3 credit units from: AN SC 212.3; BIOL 202.3, 323.3; PL SC 418.3; SL SC 220.3.

### Soil Science

**Required Courses:** 18 credit units from SL SC courses.

## ACADEMIC REGULATIONS

For provisions governing examinations, students are referred to the *University Council Regulations on Examinations*

section in the *Calendar* or to [www.usask.ca/registrar/Current\\_Calendar/examregs/](http://www.usask.ca/registrar/Current_Calendar/examregs/)

For information on *College Regulations on Examinations*, students are referred to the college office.

For regulations on student appeals and academic dishonesty students are referred to the General Information section of the *Calendar* or [www.usask.ca/university\\_council/reports.shtml](http://www.usask.ca/university_council/reports.shtml)

(1) **Admission Deficiency Removal:** All deficiencies in admission subjects must be removed before a student will be allowed to register for the second year.

(2) **Course Scheduling:** B.S.A. students must have completed all first-year courses prior to entering third year.

(3) **Promotion Average Calculations:** A student's weighted average for a year's work is based on all courses attempted during the Regular Session. Spring and Summer Session marks are not included. Attempted courses are defined as those continued beyond the last day for dropping courses without academic penalty. Term 1 marks in failed courses will be replaced by Term 2 marks for average calculation purposes, if the failed courses are repeated and passed in Term 2. Grades of ABF, INF, WF, and actual marks of less than 30% will be assigned a mark of 30% for average calculation purposes.

Where Academic Dishonesty has been proven, the actual grades assigned by the College Discipline Committee will be used in the calculation of promotion averages.

(4) **Minimum Regular Session Average Required for Promotion:** These provisions apply to all students who at any time during the September to April period are registered in 18 or more credit units or 36 credit weights of course work. Students not meeting the following averages will be Required to Discontinue.

#### a) Non-Probationary Students

Diploma credit weights to September of current year	Avg Req'd
36 - 60 credit weights	57.00%
63 - 96 credit weights	58.50%
99 - 120 credit weights	60.00%

Degree credit units to September of current year	Avg Req'd
0 - 21 credit units	57.00%
24 - 54 credit units	58.50%
57 - 126 credit units	60.00%

#### b) Probationary Students\*

\*Defined as those who have not previously met the minimum average required for promotion or who have previously been advised or required to discontinue. (See Academic Regulations [7]).

**Required to Discontinue (RTD1):** Weighted sessional average less than the minimum annual promotion requirement. Have had no previous faculty action at the university or any other post-secondary institution.

**Penalty:** Required to discontinue from the college for upcoming academic year (July 1 to April 30). Dip.Ag. students will lose credit for courses in which a grade of less than 55% was obtained, B.S.A. students will lose credit for courses in which a grade of less than 60% was obtained during the session the action was based upon. Only in exceptional circumstances will a student be

granted B.S.A. credit for courses taken during an RTD1 year.

**Required to Discontinue (RTD2):** Weighted sessional average less than the minimum annual promotion requirement; have had a previous faculty action by the university or any other post-secondary institution; or are on probation.

**Penalty:** Required to discontinue from the college for upcoming academic year (July 1 to April 30). Dip.Ag. students will lose credit for courses in which a grade of less than 55% was obtained and 60.0% for B.S.A. students during the session the action was based upon. Only in exceptional circumstances will a student be granted credit for courses taken during an RTD2 year. RTD2 students require special permission of the Dean of Agriculture to obtain readmission to the college. Should they reapply for admission (through the Office of the Registrar) they must submit a letter explaining the reasons for their previous poor performance and indicating why they may do better if readmitted.

(5) **Enrolment in the Diploma in Agriculture Program While Required to Discontinue from the B.S.A. Program:** With the permission of the Dean's Office, RTD students may be admitted to the Diploma in Agriculture Program without staying out a year.

(6) **Evaluation of Students with a Partial Load:** The records of partial students pursuing the Dip.Ag. or B.S.A. degree will be evaluated for promotion purposes when a cumulative total of 18 credit units or 36 credit weights of course work has been attempted since the student started taking courses, or since the student's record was last evaluated, whichever is the later date. Failure to meet the applicable minimum annual promotion requirement will result in the student being required to discontinue. At the discretion of the Committee on Studies and Awards or Diploma Academic Committee for Dip.Ag., the previously unevaluated record of a student who has attempted less than 18 credit units or 36 credit weights of course work, may be omitted for purposes of calculating a cumulative weighted average if the student subsequently returns to the college and obtains a weighted average of 60.0% or higher on the next 18 credit units/36 credit weights or more of course work attempted in a Regular Session.

(7) **Probationary Students:** A student is on probation in the first year of registration after failing to meet the minimum promotion average or after being advised or required to discontinue by the university or any other post-secondary institution. At the discretion of the Dean of Agriculture a student on probation may be required to discontinue attendance at the end of the first academic term if the student obtains a weighted average of less than 60.0% or has two or more failures in first term final examinations. While on probation, the maximum course load is 30 credit units (60 credit weights) during the Regular Session. Students on probation are not eligible for supplemental examinations.

(8) **Promotion Regulations (Returning Students):** Students returning to the College of Agriculture after an absence of

one year or more will be placed under the most recent promotion regulations in effect.

(9) *Curriculum Provisions (Returning Students)*: A student returning to the College of Agriculture after an absence of five years or more will be placed under the curriculum requirements in effect, as of the date that the student is readmitted to the college.

(10) *Transfer Students and Advanced Standing*: (regardless of advance standing granted).

Dip.Ag. students may be allowed up to a maximum 60 credit weights advanced standing in the Diploma in Agriculture program.

B.S.A. students must complete at least 30 credit units of approved senior course offerings while registered in the College of Agriculture. Only in exceptional circumstances will a student transferring into the B.S.A. program be granted credit for courses taken in a year that resulted in an advised or required to discontinue action imposed by another College or University.

(11) *Supplemental Examinations for Potential Graduates*: Dip.Ag. students failing to achieve a cumulative weighted average of 60% on 120 credit weights in the graduating year will be permitted to write a supplemental examination in a failed course provided they have achieved a cumulative weighted average of 59%. Supplemental examinations may be granted to degree students in their final undergraduate year (those with potential to graduate in May or October of that year) if the minimal promotion requirements have been met in that year, the mark in the failed course is 40.0% or better, and there is a final examination in the failed course(s). Supplemental examination results replace the previously failed grade(s) for average calculations. When a supplemental examination is granted the only part of the course being rewritten is the final examination. Other determinants (labs, mid-term tests, term papers, etc.) retain their original weight in computing the final grade for the course. Students must apply in writing to the Dean of Agriculture. Students on probation are not eligible to write supplemental exams.

(12) *Supplementals for Non-Graduates*: Supplemental examinations may be granted to students who are not in their final undergraduate year, in courses taught in the College of Agriculture and for which there is a final examination. To be eligible for

consideration, the student must meet the minimum promotion requirements, the final mark in the failed course or courses must be 40.0% or better, and it must be shown that lack of a supplemental examination will cause extreme academic difficulty. Students wishing to obtain supplemental privileges under this provision must make application, in writing, to the Committee on Studies and Awards through the Dean's Office. For courses taught by other colleges, the supplemental examination regulations of those colleges will prevail, except that the College of Agriculture eligibility requirements must also be met. Students on probation are not eligible to write supplemental exams.

(13) *Maximum Course Loads*: A student will not be permitted to take more than a normal course load unless a weighted sessional average of 70.0% was obtained in the previous year. Dip.Ag. program-normal course load is 60 credit weights per academic session. B.S.A. program-normal course load is defined as 30 credit units for first-year students and 36 credit units for upper-year students.

(14) *Make-up Courses to Meet Diploma or Degree Requirements*: A student who has completed 120 credit weights for Dip.Ag. or 126 credit units for the B.S.A. degree but has a cumulative weighted average of less than 60.0% may take up to 18 additional credit units (18 credit weights) in order to remove this deficiency. The course(s) taken must be approved by the college in advance and for B.S.A. students only 6 credit units may be courses numbered 110 – 199. The other 12 credit units must be numbered 200 or greater.

(15) *No Repeat of Credited Courses*: A student who has credit for a course is not permitted to repeat that course to obtain a higher grade.

(16) *Limitation on Kinesiology Activity Courses*: A student may take a maximum of three credit units with the approval of the program advisors.

(17) *Appeal Procedures*: Students wishing to appeal decisions of the Diploma Academic Committee or Committee on Studies and Awards must do so in writing to the Dean of Agriculture prior to June 30 of each year.

## DEAN'S HONOUR ROLL

Dip.Ag. students with a sessional weighted average of 78% or better on a minimum of 48 credit weights of course work will be

placed on the Dean's Honour Roll. The B.S.A. requirement to make the Dean's Honour Roll is to be in the top 7% of the first-year, second-year or third-year class groups of the program.

## ACADEMIC AWARDS TO GRADUATES

Students achieving high levels of academic performance will be awarded their B.S.A. degree as follows:

Cumulative Weighted Average:

**70.00-74.99%**

Major: No Academic Award  
Honours: Honours (option)

**75.00-79.99%**

Major: Distinction  
Honours: Honours (option) with Distinction

**80.00% or better**

Major: Great Distinction  
Honours: Honours (option) with Great Distinction

*Note*: Honours students must pass an Honours Oral Examination.

## SECOND DEGREES

Students pursuing two undergraduate degrees must consult with the Dean's office in each college to determine program requirements and to select courses which could be credited towards each degree.

## SCHOLARSHIPS AND BURSARIES

All awards open for competition to Agriculture students are listed in detail in the *Awards Guides* available at the Office of the Registrar.

## AGRICULTURAL STUDENTS' ORGANIZATIONS

The Agricultural Students' Association (A.S.A.) is the main student organization in the college. It was established to foster inter-college relations and to promote academic, athletic and social activities. Each year approximately 80 percent of all agricultural students are part of this organization. The A.S.A. acts as a liaison between members, the faculty and the university community. The A.S.A. supplies many services to its members, including an organized

employment service, academic competitions and events, subsidized clothing, social events, and free intramural sports. Through the A.S.A. students can be introduced to more specific clubs in their areas of interest such as Rangelands Club, Agricultural Economics Club, Mechanized Agriculture Club, Horticulture Club, and Stockman's and Rodeo Club. Members of the A.S.A. also have the opportunity to be involved in the management and operations of student organizations and events. More information about these organizations can be obtained from the A.S.A. office, Room 1E04 Agriculture Building, telephone: (306)966-7742.

## STUDENT CONDUCT

Students conducting themselves in an improper manner, either on or off the campus, may be admonished, fined, suspended, dismissed or expelled from the University. Each instructor has the authority to require a disorderly student to withdraw from the classroom or laboratory.

## ATTENDANCE

Regular and punctual attendance is expected of students in all their classes (including lectures, laboratories, tutorials, etc.). Students who neglect their academic work may be excluded from final examinations.

## COURSES

Course descriptions are listed in the Courses section of the *Calendar* under the following subject headings:

Agricultural and Bioresource Engineering (AB E)

Agricultural Economics (AG EC)

Agricultural Extension (AGEXT)

Agriculture (AGRIC)

Agronomy (AGRON)

Animal and Poultry Science (AN SC)

Applied Microbiology (AP MC)

Extension (EXT)

Food Science (FD SC)

Large Animal Clinical Sciences (LACS)

Mechanized Agriculture (MECAG)

Plant Sciences (PL SC)

Soil Science (SL SC)

Special Topics - these courses are offered occasionally in special situations. Students interested in such opportunities should contact the department for information on offerings.