

Dept. of Biological Sciences

Programs and Admissions

2011



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YOU@UofC

<i>Faculties:</i>	<i>Departments:</i>	<i>Undergraduate Programs:</i>
Science	Biol. Sciences	Biochemistry
Arts	Physics & Astronomy	Biological Sciences
Kinesiology	Chemistry	Botany
Medicine	Geosciences	Cellular, Molecular and Microbial Biology
Vet. Med.	Math & Stats	Ecology
etc	Computer. Sci.	Zoology

What is an Undergraduate Program ?

- The set of courses you will take to complete your B.Sc. Degree successfully.
- You select a program based on your interests, aspirations, and abilities.
- Certain courses are required and some are selected by you.
- 6 to choose among.....

Dept. of Biological Sciences

BioSciences Program

Most flexible in terms of course selection.

Intended for students whose needs are not met by the specialty programs.

The onus is on YOU to design your program wisely.

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Biochemistry Program

Can specialize in:

- Cell and Microbial Biochemistry
- Biochemical Genetics
- Plant Biochemistry
- Animal Biochemistry
- Biotechnology
- Structural Biology - crystallography
- Biocomputing



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Botany (Plant Biology) Program

Can specialize in:

- Plant Systematics
- Plant Biotechnology and Biochemistry
- Plant Morphology and Physiology
- Plant Ecology



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Cell, Molecular and Microbial Biology Program

Can specialize in:

- Cell Biology
- Microbiology
- Molecular Biology
and Genetics



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Ecology Program

Can specialize in:

- Aquatic ecology
- Terrestrial Ecology
- Behavioural Ecology
- Community and Ecosystem Ecology
- Fish and Wildlife Ecology
- Population Ecology
- Physiological Ecology



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Zoology Program

Can specialize in:

- Animal Development and Morphology
- Animal Physiology
- Animal Biodiversity and Systematics
- Evolutionary and Ecological Physiology
- Invertebrate Biology
- Vertebrate Biology



Honours Programs

- Strong student ?
- Interested in going on in Science (eg. grad school) or Professional School?
- You should seriously consider doing an Honours degree in any of our majors

ADVANTAGES: guaranteed research project in final year; guaranteed access to some high-demand required courses.

More information about Programs

For extensive information about the BioSci department in general and all of the programs (admission, course selection, career expectations, why choose this major, life as a major, skills obtained) please read the

Undergraduate Degree Syllabus

<http://www.bio.ucalgary.ca/undergrad/>

Your First Year

As a first-year student entering from high school, you are admitted to the Biological Sciences program (BISC).

You should be enrolled in the following courses.....

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First Year Courses:

Fall	Winter
BIOL 241	BIOL 243
CHEM 201 or 203 (or 211)	CHEM 201 or 203 (or 213)
MATH 249 or 251 or 281 (217 also possible)	MATH 211 or 213 or 253 or 283
PHYS**, CPSC or GLGY	PHYS**, CPSC or GLGY
Non-science option	Non-science option

Be aware of the following:

*IB and AP students may receive credit for BIOL 233. - see section A.20 of the Calendar. They are still advised to take BOTH BIOL 241 and BIOL 243

** If you plan to enter the Biochemistry program you require the Physics options (PHYS 211 or 221, and 223).

Your Second Year

Fall	Winter
BIOL 311 (genetics)	BIOL 331 (cell biology)
BIOL 313 (ecology) or option**	BIOL 313 (ecology) or option**
CHEM 351	CHEM 353 or option *
Option **	BCEM 393
Non-science option	Non-science option

Be aware of the following:

- * Students planning to major in Biochemistry or CMMB must take CHEM 353
- ** Consult specific programs to see which options you should take in 2nd year (see section 5.1.1 of the *Calendar*); to fit in these options, it is best to take BIOL 313 in Fall.

Admission to Programs (other than BioSci)

- Normally done at end of 2nd year
- Must have completed BIOL 241, 243, 311, 313 and 331 with C- or better (plus intro chemistry and maths). Check Calendar for individual program regulations.
- Performance over most recent courses up to a maximum of 5 FCE (competitive GPA)
- Application for change is made on-line
- don't miss the deadline!
- Notified by mail, usually in July.

Transfer to Dept. of BioSci

- Transfer students must have completed the following courses with grade of C- or better:
 - MATH 251 or 249 or 281, and MATH 211 or 213 or 253 or 283
 - CHEM 201/211 and 203/213
 - BIOL 241, 243 or equivalent (still accepting 231/233).
- Spring/Summer courses taken during that academic year will not be considered for purposes of admission (after April 1) !

Double Degrees

It is possible to complete a double degree combining any two of the following programs:

- Biochemistry
- Botany (Plant Biology)
- Cell, Molecular and Microbial Biology
- Ecology
- Zoology

The degree requirements for both programs must be satisfied.

Only the biology core courses plus BCEM 393 will apply toward the major field of both programs, not other courses in the major field.

What Calendar do I follow?

- The *Calendar* for the year of your admission to the Dept. of Biological Sciences is the one that you should follow.
- If admitted for Fall 2011, you will follow the program requirements as outlined in the 2011/2012 *Calendar*.
- *This applies to all future program changes....*

What Calendar do I follow?

For example:

- Admitted in Fall 2011 to BioSci major program.
- Change to Biochemistry in Spring 2013
- BCEM program as outlined in 2011/2012 Calendar STILL applies to you.
- *Changes to core courses are in progress, so keep this in mind.*

Human Medicine:

- If you plan to apply to medical school, be aware of the required courses for entrance to the schools you are considering.
- Direct questions regarding entrance requirements to those medical schools (biosci can't answer them).

Veterinary Medicine:

- If you plan to apply to vet school, be aware of the recommended courses for entrance to the programs you are considering.
- U of C School of Veterinary Medicine
<http://www.vet.ucalgary.ca>

Plan A or B

- Plan your course selection so that you obtain a quality B.Sc. in one of our programs, regardless of your aspirations for professional school.
- You can satisfy admission requirements for most professional schools from any of our programs.

Seek academic counseling!

- Student Success Centre:
Now in Taylor family Digital Library (TFLD)
- Dept. of Biological Sciences:
-main office 186, or a program advisor

ASK US WHEN YOU HAVE QUESTIONS !

Contact information:

- www.bio.ucalgary.ca
 - Undergraduate Office: BI 186
 - Phone: 403-220-3140
 - Email: biosci@ucalgary.ca
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- This presentation is viewable at the above website.

The first rule about University

- You are ADULTS; we assume you are capable of independent learning at the University level. We are here to help, and glad to do so, but ultimately, the responsibility for your education is YOURS.



QUESTIONS ?