



Schulich  
MEDICINE & DENTISTRY



Western  
Science

# How To:

# Find modules and courses in the Academic Calendar

## February 2013



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From Western's homepage, click on "Academic" and then on the "Office of the Registrar"



CAMPUS NEWS



Writers in residence to give creative writing voice

The Western literary community added two new members this week, both expected to bring a world of insight across campus.

- ITS message on telephone system upgrade
- Sweden's Umea University names Creed to visiting post
- Mustangs win second consecutive wrestling championship

- Feb 19 Reading Week
- Feb 19 Senior Alumni Program - Gina Barber
- Feb 20 Reading Week
- Feb 20 "Refresh!" - the 2013 Western Staff & Leaders' Conference



Welcome

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## Paying your Fees with OSAP

This is a convenient way to have your fees paid if you are unable to make a payment by the posted deadlines.

Select "Academic Calendar" under "General Information". A link to Calendars can also be found at the top of the page to the left of the Search box.

## Welcome

Welcome to the website for the Office of the Registrar and with information on things like course enrollment, student from [Student Central](#).

### Follow @UWOSCentral



Do you use Twitter? Follow @UWOSCentral and be automatically entered in a draw to [Read More](#)

[More Features...](#)

### Deferment of Tuition to OSAP



Click to see if you are eligible.

[Read More](#)

### Fall 2012 Winter 2013 Tuition Dates



An overview of your upcoming Tuition Payment Deadlines.

[Read More](#)

Feb 19 - Reading Week

[More Dates...](#)



#### Office of the Registrar

Student Central  
Student Financial Aid  
Student Financial Services  
Student Records

#### Student Services Support Group

Administration  
Publications & Communications  
The Web & IT Team

#### Student Development Centre

Indigenous Services  
International & Exchange Student Centre  
Learning Skills Services  
Psychological Services

#### Teaching and Learning Services

Continuing Studies  
Distance Studies  
The Student Success Centre  
Teaching Support Centre



Welcome to the site of the official, up-to-date Academic Calendar!

### Current Calendar and Timetable



**2013 Academic Calendar** - official online version

The new 2013 search function is available from the calendar, or [click here](#).

Note: For up to date timetables for all terms, please use the [online timetable service](#).

For a PDF of the 2012-13 fall/winter timetable, please [click here](#). Please note that for up-to-date timetables, you should use the [online timetable service](#).

To purchase a hard copy of the Academic Calendar, please visit the Western Bookstore [www.westernbookstore.com](#) and search on Academic Calendar.

### Other Calendars & Publications



On this page, you'll find the link to the 2013/14 Academic Calendar, as well as links to:

- Online Timetable
- Summer Calendar
- Part-time & Distance Studies Calendars
- Western Student Guide
- First-Year Student Guide
- Past calendars

**Select "2013 Academic Calendar".**



# The University of Western Ontario Academic Calendar 2013



Search • Office of the Registrar • Western Homepage

Print

[Academic Calendar 2013 >](#)

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Click on FACULTIES to find a listing of all faculties at Western

## WESTERN UNIVERSITY Academic Calendar 2013

Western University  
1151 Richmond Street  
London, Ontario, Canada  
N6A 5B8  
519-661-2111

This Academic Calendar is effective September 1, 2013.

**Last updated:** February 2013

Other links you can select include **Undergraduate Course Information** and **Academic Information**, (progression and graduation requirements, degree structure, etc.)

[Academic Calendar 2013 >](#)

The University of Western Ontario, London, Ontario, Canada N6A 3K7 TEL: (519)661-2111



The University of Western Ontario  
**Academic Calendar 2013**



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- RICHARD IVEY SCHOOL OF BUSINESS
- CERTIFICATES AND DIPLOMAS
- FACULTY OF EDUCATION
- FACULTY OF ENGINEERING
- THE SCHOOL OF GRADUATE AND POSTDOCTORAL STUDIES
- FACULTY OF HEALTH SCIENCES
- FACULTY OF INFORMATION AND MEDIA STUDIES
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- FACULTY OF LAW
- SCHULICH SCHOOL OF MEDICINE & DENTISTRY
- DON WRIGHT FACULTY OF MUSIC
- FACULTY OF SCIENCE, including BMSc
- FACULTY OF SOCIAL SCIENCE

Select FACULTY OF SCIENCE, including BMSc

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The University of Western Ontario, London, Ontario, Canada N6A 3K7 TEL: (519)661-2111



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## FACULTY OF SCIENCE, including BMSc

Western Science Centre, Tel: 519-661-2111, ext. 86152; [www.uwo.ca/sci](http://www.uwo.ca/sci)

Dean	C. Dean
Associate Deans	J. Hutter (Academic) C. Jones (Graduate and D.L. Jones (Basic Medical Affairs) C.L. Milligan (Administrative) B. Neff (Research)
Academic Manager	P. Westmacott
Science/Basic Medical Sciences Academic Counsellors	J. Sexsmith J. Perry D. Gregus J. De Heus
Academic Counselling	Room 191 519-661-3040 email: <a href="mailto:scibmsac@uwo.ca">scibmsac@uwo.ca</a> Hours: 10:00 am - 4:00 pm Summer: 10:00 am - 3:30 pm Appointments Available <a href="http://www.uwo.ca/sci/counselling">http://www.uwo.ca/sci/counselling</a>

This page includes the names of the Dean, Associate and Assistant Deans, and **Academic Counsellors** in the Faculty of Science (WSC 191).

The **Academic Counsellors** in the Faculty of Science counsel Science *and* BMSc students on a variety of academic matters.

Scrolling down, you will find a list of all departments in Science and the basic medical sciences

### Chairs of Science Departments (Faculty of Science)

Applied Mathematics	
Biology	
Chemistry	
Computer Science	H. Lutfiyya



ANATOMY AND CELL BIOLOGY - offering Medical Cell Biology modules

APPLIED MATHEMATICS

ASTRONOMY

BIOCHEMISTRY

BIOINFORMATICS

BIOLOGY

CHEMISTRY

COMPUTER SCIENCE

EARTH SCIENCES

ENVIRONMENTAL SCIENCE

EPIDEMIOLOGY AND BIostatISTICS

INTERDISCIPLINARY MEDICAL SCIENCES (IMS)

MATHEMATICS

MEDICAL BIOPHYSICS

MEDICAL HEALTH INFORMATICS

MEDICAL SCIENCES

MICROBIOLOGY AND IMMUNOLOGY

NEUROSCIENCE

PATHOLOGY

PHYSICS AND ASTRONOMY

PHYSIOLOGY AND PHARMACOLOGY

STATISTICAL AND ACTUARIAL SCIENCES

Links to Neuroscience and to the departments/units that participate in the BMSc Program are listed on this page.

Select the link to a department to see a list of all modules offered by that department (e.g. **Biochemistry**)



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## BIOCHEMISTRY

Medical Science Building M342, Tel: 519-661-3074, [www.biochem.uwo.ca](http://www.biochem.uwo.ca)

- [HONORS SPECIALIZATION IN BIOCHEMISTRY\\*](#)
- [HONORS SPECIALIZATION IN BIOCHEMISTRY AND CELL BIOLOGY\\*](#)
- [HONORS SPECIALIZATION IN BIOCHEMISTRY AND CHEMISTRY](#)
- [HONORS SPECIALIZATION IN BIOCHEMISTRY OF INFECTION AND IMMUNITY\\*](#)
- [HONORS SPECIALIZATION IN CHEMICAL BIOLOGY\\*](#)
- [HONORS SPECIALIZATION IN CLINICAL BIOCHEMISTRY\\*](#)
- [HONORS SPECIALIZATION IN COMPUTATIONAL BIOCHEMISTRY\\*](#)
- [HONORS SPECIALIZATION IN GENETICS AND BIOCHEMISTRY](#)
- [MAJOR IN BIOCHEMISTRY](#)
- [SPECIALIZATION IN BIOCHEMISTRY](#)
- [MINOR IN BIOCHEMISTRY](#)

The **Honors Specializations** indicated above (\*) and the **Specialization** in Biochemistry may only be completed within the BMSc Program. The **Major** in Biochemistry, when combined with another Major offered by one of the Basic Medical Science departments or the Major Interdisciplinary Studies (IMS), may only be completed within the BMSc Program (BMSc Honors or BMSc degree).

Students beginning their studies at the University in 2013 will not register in modules leading to a BMSc degree until they are admitted to Year 3 of the BMSc Program. For more information, see [BMSc PROGRAM](#) and [MODULES OFFERED IN THE BMSc PROGRAM](#).

A **Major** module in Biochemistry can either be taken alone or combined with modules from other faculties to earn degrees such as BSc, BHSc or BA degrees. For example, a student may obtain a BSc(Honors) degree with a Major in Biochemistry and a Major chosen from either the Faculty of Science or another faculty. Alternatively, a student may elect to pursue a 4-year BSc degree with a Major in Biochemistry.

All the **modules** offered by the Department of Biochemistry are displayed. Modules which can only be completed within a BMSc degree are noted by an \*.

Select **Honors Specialization in Biochemistry**.

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## HONORS SPECIALIZATION IN BIOCHEMISTRY\*

This module leads to an Honors Bachelor of Medical Sciences (BMSc) degree. See [BACHELOR OF MEDICAL SCIENCES \(BMSc\) PROGRAM](#) for more information.

Students entering Year 2 in September 2013 should see the Admission Requirements in the 2012/13 Academic Calendar.

**Students will not be admitted to Year 2 of the Honors Specialization module beginning in September, 2014.**

**Admission Requirements, effective September 1, 2015 (for students admitted to Year 1 in September, 2013):**

Admission to this Honors Specialization module occurs in Year 3 and requires admission to Year 3 of the Bachelor of Medical Sciences (BMSc) Program. Students will usually complete the [MEDICAL SCIENCES FIRST ENTRY PROGRAM](#) (Medical Sciences 1 and 2) prior to admission to the Honors Specialization module. Enrollment in this Honors Specialization module is limited and meeting the minimum requirements does not guarantee admission.

The 1000-level half courses listed below must each be completed with a mark of at least 60%:

- 1.0 course: [Biology 1001A\\*](#) and [Biology 1002B\\*](#)
- 1.0 course: [Chemistry 1301A/B](#) and [1302A/B](#)
- 0.5 course from: [Calculus 1000A/B](#), [1100A/B](#), [1500A/B](#)
- 0.5 course from: [Calculus 1301A/B](#), [1501A/B](#), [Mathematics 1600A/B](#), [Applied Mathematics 1201A/B](#).
- 0.5 course from: [Physics 1028A/B](#), [1301A/B](#), [1501A/B](#)
- 0.5 course from: [Physics 1029A/B](#), [1302A/B](#), [1502A/B](#).

\* [Biology 1201A](#) with a mark of at least 70% may be used in place of [Biology 1001A](#), and [Biology 1202B](#) with a mark of at least 70% may be used in place of [Biology 1002B](#).


The 2000-level courses below must be completed with a minimum mark of 60% in each (unless otherwise indicated) prior to admission to the Honors Specialization module in Year 3. These 2000-level courses will also be used towards the Module requirements. See [ADMISSION TO THE BACHELOR OF MEDICAL SCIENCES \(BMSc\) PROGRAM](#) for additional average, course load requirements, etc. and [MODULES OFFERED IN THE BMSc PROGRAM](#) for specific information about Honors Specialization modules, including the Weighted Average Chart.

- 0.5 course: [Biochemistry 2280A](#) with a mark of at least 65%
- 0.5 course: [Biology 2581B](#)
- 0.5 course from: [Biology 2244A/B](#) or [Statistical Sciences 2244A/B](#).
- 0.5 course from: [Chemistry 2213A/B](#) with a mark of at least 65% or [Chemistry 2273A](#)
- 0.5 course from: [Chemistry 2223B](#) with a mark of at least 65% or [Chemistry 2283G](#)
- 1.0 course from: [Biology 2290F/G](#), [2382B](#), [Chemistry 2211A/B](#), [2214A/B](#), [2374A](#), [2384B](#)

**Module**  
9.5 courses:

- 0.5 course: [Biochemistry 2280A](#).
- 0.5 course: [Biology 2581B](#).
- 0.5 course from: [Biology 2244A/B](#) or [Statistical Sciences 2244A/B](#) or the former

There are two sections in each module listing: **Admission Requirements** and the **Module**.

**Admission Requirements:** the 2013/14 Academic Calendar does **not** contain the correct Admission Requirements (first-year courses) for students currently at Western. Check the note  referring all current students (not just students going into Year 2) to the **2012/13 Academic Calendar** for the Admission Requirements. See the next slide for how to find the 2012/13 Academic Calendar.

**Admission Criteria** have to be satisfied, in addition to Admission Requirements. Go to [www.schulich.uwo.ca/bmsc](http://www.schulich.uwo.ca/bmsc) and click on Admission (select the appropriate Year) for more details.



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To find the 2012/13 Academic Calendar:

1. Go to [www.westerncalendar.uwo.ca](http://www.westerncalendar.uwo.ca)
2. Scroll down to the Archive and click on Past Academic Calendars
3. Click on Academic Calendar 2012

Welcome to the site of the official, up-to-date Academic

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## Archive

Past Academic Calendars

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### Past Calendars

- Academic Calendar 2012
- Academic Calendar 2011
- Academic Calendar 2010

# Back to the 2013/14 Academic Calendar for the Module: courses required in Years 2-4

## Module

9.5 courses:

**0.5 course:** Biochemistry 2280A.

**0.5 course:** Biology 2581B.

**0.5 course** from: Biology 2244A/B or Statistical Sciences 2244A/B, or the former Statistical Sciences 2122A/B.

**0.5 course** from: Chemistry 2213A/B or 2273A.

**0.5 course** from: Chemistry 2223B or 2283G.

**1.0 course** from: Biology 2290F/G, 2382B, Chemistry 2211A/B, 2214A/B, 2374A or the former 2274A, Chemistry 2384B or the former 2284B.

**1.5 courses:** Biochemistry 3380G, 3381A and 3382B with marks of at least 70% in each.

**0.5 course:** Biochemistry 3390A.

**1.0 course:** Biochemistry 4410A, 4420A or the former 4420B.

**1.5 courses** from: Biochemistry 4400G or the former 4400F, Biochemistry 4430B, 4435 B, 4445F, 4450A, 4463G, 4465A, the former Biochemistry 4440A.

**1.5 courses:** Biochemistry 4483E (Research Project = 1.5 courses).

## Notes for Module:

1. Students registered in Year 3 or 4 of the Honors Specialization module in 2011 or earlier will require only 9.0 courses for the module (Biochemistry 3390A will not be required).
2. It is recommended that students include at least one of Biology 2290F/G, Chemistry 2214A/B, or Chemistry 2374A (or the former Chemistry 2284B).

More information about which courses to select in each of Years 2-4 can be found at

[www.schulich.uwo.ca/bmsc](http://www.schulich.uwo.ca/bmsc)

under Courses > Course Selection Guidelines

Also listed in some modular outlines are **NOTES** that contain important information about mark requirements, pre-requisites etc.

***Make sure that you read these Notes!***

## Module

9.5 courses:

**0.5 course:** [Biochemistry 2280A](#). ←

**0.5 course:** [Biology 2581B](#).

**0.5 course** from: [Biology 2244A/B](#) or [Statistical Sciences 2244A/B](#), or the former [Statistical Sciences 2122A/B](#).

**0.5 course** from: [Chemistry 2213A/B](#) or [2273A](#).

**0.5 course** from: [Chemistry 2223B](#) or [2283G](#).

**1.0 course** from: [Biology 2290F/G](#), [2382B](#), [Chemistry 2211A/B](#), [2214A/B](#), [2374A](#) or the former [2274A](#), [Chemistry 2384B](#) or the former [2284B](#).

**1.5 courses:** [Biochemistry 3380G](#), [3381A](#) and [3382B](#) with marks of at least 70% in each.

**0.5 course:** [Biochemistry 3390A](#).

**1.0 course:** [Biochemistry 4410A](#), [4420A](#) or the former [4420B](#).

**1.5 courses** from: [Biochemistry 4400G](#) or the former [4400F](#), [Biochemistry 4430B](#), [4435B](#), [4445F](#), [4450A](#), [4463G](#), [4465A](#), the former [Biochemistry 4440A](#).

**1.5 courses:** [Biochemistry 4483E](#) (Research Project = 1.5 courses).

### Notes for Module:

1. Students registered in Year 3 or 4 of the Honors Specialization module in 2011 or earlier will require only 9.0 courses for the module ([Biochemistry 3390A](#) will not be required).
2. It is recommended that students include at least one of [Biology 2290F/G](#), [Chemistry 2214 A/B](#), or [Chemistry 2374A](#) (or the former [Chemistry 2284B](#)).

Selecting a course will take you to the “UNDERGRADUATE COURSE INFORMATION” for that course.

**For example, select:**  
**Biochemistry 2280A**

### Biochemistry 2280A – Biochemistry and Molecular Biology

An introduction to biochemistry with emphasis on protein structure and function, intermediary metabolism and nucleic acid structure and function.

**Antirequisite(s):** [Biochemistry 2288A](#).

**Prerequisite(s):** Either [Biology 1001A](#) or [1201A](#) and either [Biology 1002B](#) or [1202B](#), or one of the former [Biology 1222](#) or [1223](#); [Chemistry 1100A/B](#) and [1200B](#), or one of the former [Chemistry 1020](#), [1050](#) or [023](#); or registration in senior years of Foods and Nutrition modules.

**Corequisite(s):**

**Pre- or Corequisite(s):**

**Extra Information:** 3 lecture hours, 0.5 course.

Note: It is strongly recommended that a course in organic chemistry be taken previously or concurrently (e.g. [Chemistry 2213A/B](#) or [2273A](#)).

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### Biochemistry 2288A – Biochemistry and Molecular Biology for Foods and Nutrition

An introduction to biochemistry with emphasis on protein structure and function, intermediary metabolism and nucleic acid structure and function.

**Antirequisite(s):** [Biochemistry 2280A](#).

**Prerequisite(s):** [Chemistry 1100A/B](#) and [1200B](#), or one of the former [Chemistry 1020](#), [1050](#) or [023](#); [Biology 1290B](#); and registration in senior years of Foods and Nutrition modules.

**Corequisite(s):**

**Pre- or Corequisite(s):**

**Extra Information:** 3 lecture hours, 0.5 course.

Note: It is strongly recommended that a course in organic chemistry be taken previously or concurrently (e.g. [Chemistry 2213A/B](#) or [2273A](#)).

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### Biochemistry 3380G – Biochemistry Laboratory

This course consists of a series of laboratory exercises designed to familiarize the student with the basic methods in biochemistry and molecular biology, and to demonstrate concepts taught in biochemistry lecture courses. Students will learn how to present their results in an acceptable scientific format.

The course description for Biochemistry 2280A pops up, including prerequisites, antirequisites, the number of lecture and/or laboratory hours, and whether it is a full or half course.



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