This section contains the descriptions of courses offered at the University of Calgary. The courses are arranged in alphabetical order by course title not by abbreviation. In order to better understand the notations used throughout this section, an illustrated example of a course description is provided.

All courses listed are not necessarily offered every year and students should consult the Master Timetable for an official listing of those courses that will be offered in a given session.

Since this Calendar is published a considerable time before the opening of the academic year, the University reserves the right to make whatever changes circumstances may require including the cancellation of a particular course.

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Medical Science 609
(Biochemistry 609)

**Gene Expression**
The flow of genetic information from DNA to final protein product. The subject will be covered in two courses offered in alternating years: gene structure and regulation of transcription, including gene structure and organization, chromatin structure, regulation of transcription and post-translational processing; and the activity of genes during development including stored messenger ribonucleoprotein particles and translational control in gametes, the switch from maternal to zygote genome control of development in early embryos and the molecular basis of morphogenesis and differentiation.

609.01. Gene Structure and Regulation of Transcription

609.02. Genes and Development

Prerequisite: Medical Science 537 (Biochemistry 537) or equivalent.

Note: Credit for both Medical Science 609.02 and 751.14 will not be allowed.

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Notes:
Certain courses carry the notation "Not open to students with credit in course number XXX” or “Credit for both course number XXX and course number XXX will not be allowed.” Students may take these courses if they wish, but credit for both courses will not be granted towards their degree.
## Courses of Instruction by Faculty

### Faculty of Communication and Culture
- African Studies: AFST
- Canadian Studies: CNST
- Central and East European Studies: CEST
- Communications Studies: COMS
- Development Studies: DEST
- East Asian Studies: EAST
- General Studies: GNST
- Law and Society: LWSO
- Leisure, Tourism and Society: LTO
- Museum and Heritage Studies: MHST
- Northern Planning and Development Studies: NPDS
- Science, Technology and Society: STAS
- South Asian Studies: SAST
- Urban Studies: UBST
- Women’s Studies: WMST

### Faculty of Education
- Applied Psychology: APSY
- Campus Alberta Applied Psychology: CAAP
- Continuing Education: CTED
- Education Teacher Preparation: EDTP
- Educational Research: EDER

### Faculty of Engineering
- Biomedical Engineering: ENBM
- Chemical Engineering: ENCH
- Civil Engineering: ENGI
- Computer Engineering: ENCM
- Electrical Engineering: ENEL
- Engineering: ENGI
- Geomatics Engineering: ENGO
- Manufacturing Engineering: ENMF
- Mechanical Engineering: ENME
- Petroleum Engineering: ENPE
- Software Engineering for Engineers: ENSF

### Faculty of Environmental Design
- Environmental Design: EVDS
- Environmental Design Architecture: EVDA
- Environmental Design Planning: EVPD

### Faculty of Fine Arts
- Art: ART
- Art History: ARHI
- Dance: DNCE
- Drama: DRAM
- Fine Arts: FINA
- Music Education: MUED
- Music History and Literature: MUHL
- Music Performance: MUPF
- Music Theory and Composition: MUTC

### Haskayne School of Business
- Accounting: ACCT
- Bachelor of Accounting Science: BACS
- Business and Environment: BSEN
- Entrepreneurship and Innovation: ENTI
- Finance: FNCE
- Human Resources and Organizational Dynamics: HROD
- Management Information Systems: MGIS
- Management Studies: MGST
- Marketing: MKTG
- Operations Management: OPMA

### Faculty of Humanities
- Comparative Literature: COLT
- English: ENGL
- Hindi: HNDI
- Humanities: HUMN
- Philosophy: PHIL
- Religious Studies: RELS
- Term Abroad Program: TAP
- Chinese: CHIN
- Dutch: DTCH
- German: GERM
- Japanese: JPN
- Russian: RUS
- Slavic: SLAV
- Greek: GREK
- Greek and Roman Studies: GRST
- Latin: LATI

### Faculty of Kinesiology
- Athletic Therapy: ATH
- Dance Education: DCED
- Dance Education Activity/Theory: DEAT
- Kinesiology: KNES
- Outdoor Pursuits: ODPU
- Physical Education: PHED
- Physical Education Activity Theory: PEAT

### Faculty of Law
- Law: LAW

### Faculty of Medicine
- Medical Science: MDSC
- Medicine: MDCN

### Faculty of Nursing
- Nursing: NURS
- Nursing Offsite: NUOS

### Faculty of Science
- Chemistry: CHEM
- Computer Science: CPSC
- Science: SCIE
- Biology: BIOL
- Botany: BOTA

### Department of Biological Sciences
- Cellular, Molecular and Microbial Biology: CMMB
- Ecology: ECOL
- Marine Science: MRSB
- Zoology: ZOOL

### Department of Geology and Geophysics
- Geology: GLGY
- Geophysics: GOPH

### Department of Mathematics and Statistics
- Actuarial Science: ACSC
- Applied Mathematics: AMAT
- Mathematics: MATH
- Pure Mathematics: PMAT
- Statistics: STAT

### Department of Physics and Astronomy
- Applied Physics: APPH
- Astronomy: ASTR
- Astrophysics: ASPH
- Medical Physics: MDPH
- Physics: PHYS
- Space Physics: SPPH

### Faculty of Social Sciences
- Anthropology: ANTH
- Archaeology: ARKY
- Economics: ECON
- Geography: GEOG
- Historical Studies: HTST
- International Relations: INTR
- Political Science: POLI
- Psychology: PSYC
- Social Sciences: SOSC
- Sociology: SOCI
- Strategic Studies: STST

### Department of Linguistics
- Linguistics: LING
- Native Languages: NTVE

### Faculty of Social Work
- Social Work: SOWK
- Social Work Access: SWKA

### Collaborating Faculties
- Architectural Studies (CC, EV): ARST
- Biochemistry (MD, SC): BCM
- Community Rehabilitation (ED, SW): CORE
- East Asia (CC, HU, SS): ETAS
- Energy and the Environment (EN, EV, LA, MG): ENEV
- Environmental Science (SC, SS): ENSC
- Film (CC, FA, HU): FILM
- Indigenous Studies (CC, FA, HU, SS, SW): INDI
- Latin American Studies (CC, HU, SS): LAST
- Software Engineering (EN, SC): SENG
- Transportation Science (EN, SS): TRAN

### Other
- Academic Writing: ACWR
- Co-operative Education: COOP
- English Language Foundation Program: ELFP
- Informatics: INFO
- Internship: INTE
- University: UNIV