Courses of Instruction/How to Use

his 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.



Course Numbers:

The number of the course indicates both the level of the course and the weight of the course (full or half).

- · Junior level: 200's
- Senior level: 300's and 400's
- Upper level undergraduate: 500's
- Graduate level: 600's and 700's
- Even numbered course full course offered for 26 weeks
- Odd numbered course half course or less offered for 13 weeks or less

Hours of Instruction:

The hours of instruction per week are indicated with this code.

- M More than a full course; refer to individual course description for hours.
- F(3-3) Full course; equivalent of 3 hours of lectures and 3 hours of lab each week for 2 sessions.
- F(3-1S-3) Full course; equivalent of 3 hours of lectures, 1 seminar hour, and 3 hours of lab each week for 2 sessions.
- Q(3-0) Quarter course; equivalent of 3 hours of lectures each week for 1 half session.
- H(3-3/2) Half course; equivalent of 3 hours of lectures every week and 3 hours of lab every other week for 1 session.
- E(0-3) Eighth course; equivalent of 3 hours of lab each week for one quarter session.

The figures "S" or "T" attached to a number signify seminar or tutorial hours.

Cross-Listed Courses:

 Courses which are listed under two departments and which can be taken for credit from either department, but not both. The credit is determined by the student's registration.

Prerequisite:

-Must be completed before registering in this class.

Corequisite:

Must be completed at the same time as this class.

Not Included in GPA:

A course with this notation is graded as CR (Completed Requirements) or F (Fail). The course is not included in the calculation of the grade point average.

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.

Notes:

Courses of Instruction by Faculty

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Faculty of Communication		Petroleum Land Management	PLMA	Cellular, Molecular and	CMMB
and Culture		Risk Management and Insurance	RMIN	Microbial Biology	ECOL
African Studies	AFST	Strategy and Global Management	SGMA	Ecology	ECOL
Canadian Studies	CNST	Tourism and Hospitality	TOUR	Marine Science	MRSC
Central and East European Studies	CEST	Management		Zoology	ZOOL
·	COMS	Esculty of Humanities		Department of Geology and Geophys	ics
Communications Studies	DEST	Faculty of Humanities		Geology	GLGY
Development Studies East Asian Studies	EAST	Comparative Literature	COLT	Geophysics	GOPH
General Studies	GNST	English	ENGL	• •	
	LWSO	Hindi	HNDI	Department of Mathematics and Stati	
Law and Society	LTSO	Humanities	HUMN	Actuarial Science	ACSC
Leisure, Tourism and Society		Philosophy	PHIL	Applied Mathematics	AMAT
Museum and Heritage Studies	MHST	Religious Studies	RELS	Mathematics	MATH
Northern Planning and Development Studies	NPDS	Term Abroad Program	TAP	Pure Mathematics	PMAT
Science, Technology and Society	STAS			Statistics	STAT
	SAST	Department of French, Italian,		Department of Physics and Astronom	w
South Asian Studies	UBST	and Spanish		-	-
Urban Studies		French	FREN	Applied Physics	APPH
Women's Studies	WMST	Italian	ITAL	Astronomy	ASTR
Faculty of Education		Romance Studies	ROST	Astrophysics	ASPH
	4.00\/	Spanish	SPAN	Medical Physics	MDPH
Applied Psychology	APSY			Physics	PHYS
Campus Alberta Applied Psychology	CAAP	Department of Germanic, Slavic,		Space Physics	SPPH
Continuing Education	CTED	and East Asian Studies		F	
Education Teacher Preparation	EDTP	Chinese	CHIN	Faculty of Social Sciences	
Educational Research	EDER	Dutch	DTCH	Anthropology	ANTH
Faculty of Facino original		German	GERM	Archaeology	ARKY
Faculty of Engineering		Japanese	JPNS	Economics	ECON
Biomedical Enginerring	ENBM	Russian	RUSS	Geography	GEOG
Chemical Engineering	ENCH	Slavic	SLAV	Historical Studies	HTST
Civil Engineering	ENCI	Department of Greek		International Relations	INTR
Computer Engineering	ENCM	and Roman Studies		Political Science	POLI
Electrical Engineering	ENEL	Greek	GREK	Psychology	PSYC
Engineering	ENGG	Greek and Roman Studies	GRST	Social Sciences	SOSC
Geomatics Engineering	ENGO	Latin	LATI	Sociology	SOCI
Manufacturing Engineering	ENMF	Latti	LAII	Strategic Studies	STST
Mechanical Engineering	ENME	Faculty of Kinesiology		•	0.0.
Petroleum Engineering	ENPE	-	٨٣٣١١	Department of Linguistics	
Software Engineering for Engineers	ENSF	Athletic Therapy Dance Education	ATTH DCED	Linguistics	LING
	_	Dance Education Dance Education Activity/Theory	DEAT	Native Languages	NTVE
Faculty of Environmental Design		Kinesiology	KNES		
Environmental Design	EVDS	Outdoor Pursuits	ODPU	Faculty of Social Work	
Environmental Design Architecture	EVDA	Outdoor Pursuits Activity/Theory	OPAT	Social Work	SOWK
Environmental Design Planning	EVDP	Physical Education	PHED	Social Work Access	SWKA
3 3		Physical Education Activity Theory	PEAT		
Faculty of Fine Arts		Thysical Education Activity Theory	I LAI	Collaborating Faculties	
Art	ART	Feeulty of Law		Architectural Studies (CC, EV)	ARST
Art History	ARHI	Faculty of Law		Biochemistry (MD, SC)	BCEM
Dance	DNCE	Law	LAW	Community Rehabilitation	CORE
Drama	DRAM			(ED, SW)	
Fine Arts	FINA			East Asia (CC, HU, SS)	ETAS
Music Education	MUED	Faculty of Medicine		Energy and the Environment	ENEV
Music History and Literature	MUHL	-		(EN, EV, LA, MG)	
Music Performance	MUPF	Medical Science	MDSC	Environmental Science (SC, SS)	ENSC
Music Theory and Composition	MUTC	Medicine	MDCN	Film (CC, FA, HU)	FILM
madic modify and composition		Ecoulty of Nursing		Indigenous Studies (CC, FA, HU,	
Haskayne School of Business		Faculty of Nursing		SS, SW)	INDG
Accounting	ACCT	Nursing	NURS	Latin American Studies	LAST
Bachelor of Accounting Science	BACS	Nursing Offsite	NUOS	(CC, HU, SS)	
Business and Environment	BSEN			Software Engineering (EN, SC)	SENG
Entrepreneurship and Innovation	ENTI	Faculty of Science		Transportation Science (EN, SS)	TRAN
Finance	FNCE	Chemistry	CHEM	Other	
Human Resources and Organizationa		Computer Science	CPSC	Academic Writing	ACWR
Dynamics	HROD	Science	SCIE	Co-operative Education	COOP
Management Information Systems	MGIS		•	·	ELFP
Management Studies	MGST	Department of Biological Sciences	F. C.	English Language Foundation Program Informatics	INFO
Marketing	MKTG	Biology	BIOL		INTE
Operations Management	OPMA	Botany	BOTA	Internship University	UNIV
,				University	OINIV