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OFFICE OF THE REGISTRAR CALGARY, ALBERTA, CANADA

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TRANSCRIPT OF ACADEMIC RECORD

Name: Hemanto Bair.
Student ID: 30030922
Birthdate: Mar 01

Print Date: 2025-10-12

Page 1 of 2

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Major Autority Major Major Autority Major			of Science (Honours)	Credential Awarded					Program:	Bachelo	or of Science (Degre	e Stream)				
Major: Physics Majo	onferral:								Comments of		Panenta & Con		The same and the	Formed	Guada	Points
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Fall 2016 Fall																Point
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Introduction of Setrophysics 3.00 3.00 B+ 9.900 Program: Science Bachelor Bachelor of Science (Degree Stream)												Spring 20	18			
AATH 211 Linear Methods								9.900	Program:	Sciones	- Pachalar	Z/				
PHYS 255 Electromagnetic Theory I 3.00 3.00 A 12.000 Physics (Major)									Flogram.	Bachelo	or of Science (Degre	e Stream)				
Course Description Attempted Earned Grade Point CPSC 217 Intro CPSC Multidisc Study I 3.00 3.00 B+ 9 ECON 201 Principles Of Microeconomics 3.00 3.00 A 12																
CPSC 217 Intro CPSC Multidise Study I 3.00 3.00 B+ 9 ECON 201 Principles Of Microeconomics 3.00 3.00 A 12	Term GPA:		2.66 Term T	otals:	15.00	12.00		39.900	Course		Description		Attempted	Earned	Grade	Poin
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Questions about the transcript may be directed to the Registrar at the University of Calgary. The University strictly adheres to the relevant privacy legislation.



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Page 2 of 2

			Summer 2018												
Program:	Bachelor of	achelor of Science (Degree Stream) ics (Major)						Program:	Science	Bachelor		Vinter 2020			
	Physics (M	Major)						OLLE TOWN	Astrophy	sics (Major)	urs (Degree Stream)				
Course		Description		Attempted	Earned	<u>Grade</u>	<u>Points</u>		Physics	(Major)					
	203 377	Principles Of Macroeconom Elementary Formal Logic	lics	3.00 3.00	3.00 3.00	B B	9.000 9.000	Course		Description			Attempted		
Term GPA:		3.00 Ter	m Totals:	6.00	6.00		18.000	ASPH ASPH	403 509		ophys&Cosmology		3.00	3.00 CR	
								PHYS PHYS	451 501	Statistical Mech Relativity			3.00	3.00 A	9.90
			Fall 2018					PHYS	598B	Honours Resea			6.00	6.00 CR	
Program:	Science B Bachelor of Astrophys Physics (M	of Science (Degree Stream) ics (Major)						Term GP Dean's Li	A: st - Faculty o	3.65 of Science	Term Totals:	of Transcript	18.00	18.00	21.90
Course		Description		Attempted	Earned	<u>Grade</u>	Points								
	401	Galactic Astrophysics		3.00	3.00	A-	11.100								
	433 449	Mathematical Methods Phys Statistical Mechanics I	sics	3.00 3.00	3.00	A A-	12.000 11.100								
	455	Electromagnetic Theory II		3.00	3.00	В	9.000								
erm GPA:		3.60 Ten	m Totals:	12.00	12.00		43.200								
			Winter 2019												
Program:	Science B	achelor													
rogium.		of Science (Degree Stream) ics (Major)													
Course		Description		Attempted	Earned	Grade	Points								
	503	The Interstellar Medium		3.00	3.00	B+	9.900								
	381 443	Computational Physics I Quantum Mechanics I		3.00	3.00	A- A-	11.100 11.100								
HYS 4	457	Electromagnetic Theory III		3.00	3.00	B-	8.100								
HYS 4	497	Applied Physics Laboratory		3.00	3.00	A-	11.100								
erm GPA:		3.42 Ten	m Totals:	15.00	15.00		51.300								
			Fall 2019												
Program:	Science B Bachelor of Astrophys Physics (M	of Science - Honours (Degree ics (Major)	e Stream)												
Course		Description		Attempted	Earned	Grade	Points								
	481 507	Computational Physics II Solid State Physics		3.00	3.00 3.00	A- A+	11.100 12.000								
PHYS 5	543	Quantum Mechanics II		3.00	3.00	A- /	11.100								
	597 598A	Senior Physics Laboratory Honours Research Thesis		3.00	3.00 0.00	A MT	12.000								
PHYS 5															

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UNIVERSITY OF CALGARY

RECOGNIZED STANDARD

The University of Calgary, established under the Statutes of the Province of Alberta, is a member of the Association of Commonwealth Universities and of the Association of Universities and Colleges of Canada.

THE ACADEMIC YEAR

In May 1973 the University began operating under a four session organization. The length of sessions, exclusive of the examination periods, are:

September to December (13 weeks) Winter: January to April (13 weeks) May to June (6 to 7 weeks) Spring: Summer: July to August (6 weeks)

Courses offered during the Spring/Summer carry the same weight as if offered in the Fall/Winter Sessions.

Prior to Spring 1973 the University conducted a Winter Session of 2 thirteen week terms and Summer Session of 6 weeks during the academic year (July 1-June 30).

In January 2007, the University replaced the word Session with Term.

COURSE NUMBERING

COURSE NUMBERING

Courses at the freshman level (immediately following Grade 12) are generally numbered in the 100's and 200's, senior courses 300's and 400's and upper level undergraduate courses 500's. Graduate courses may be 500's, 600's and 700's. In certain upper level undergraduate and graduate level courses, a decimal system may be used to identify different subject matter which may change from year to year but with the same course title and the same basic three digit number. There are also courses numbered 001-099 which are not restricted to a particular level of study.

Since July 1971 all even numbered courses denote full courses normally offered for 26 weeks over the Fall/Winter Sessions and all odd numbered courses denote half courses or less normally offered over 1 thirteen week session. Effective July 2003, this distinction was removed.

Effective July 1983, some courses numbered in the 100's may not have been counted toward degree requirements. Prior to this date, certain 100 level courses could be counted toward degree requirements in some programs.

EXPLANATION OF CODES

In January 2007, the University adopted a framework of course weights, as follows:
Earned - Course Weight: 6 = Full Course, 3 = Half Course, 1.5 = Quarter

Course, .75 = Eighth Course.
This change was applied retroactively to all courses offered in previous years.

CREDIT/FAIL information about student performance in programmes where all or most courses are credit (CR) graded, (also known as pass/fail), may be obtained by contacting the faculty offering the programme.

Grading System - Effective September 1975

Undergraduate and Graduate Grading

Grade A+	Grade Point Value (GPV) 4.0	<u>Description</u> Outstanding performance
Α	4.0	Excellent
A-	3.7	Approaching excellent performance
B+	3.3	Exeeding good performance
В	3.0	Good performance
B-	2.7	Approaching good performance
C+	2.3	Exceeding satisfactory performance
С	2.0	Satisfactory performance
C-	1.7	Approaching satisfactory performance
D+	1.3	Marginal Pass
D	1.0	Minimal pass
CR		Completed requirements
F	0	Failure
ı	0	Incomplete

EW

Symbols: SGR AE AU X DFT Supplemental granted Aegrotat standing Auditor Grade not reported Deferred term work Deferred final examination DFE SFE Special deferred final examination RTW Required to Withdraw Withdrew Remedial work required RMW Multi term
Grade pending
Incomplete MT GP

Extenuating circumstance withdraw

In progress/future registration

PRIOR TO SEPTEMBER 1975

Grading	uate & Graduate	(Effective Sept. 1973) - in courses numbered 600 or higher						
Grade A+	Grade Point <u>Value</u> 4	Grade A+	Grade Point Value 4	<u>Description</u> Outstanding				
Α	4	Α	4	Excellent				
A-	4	A-	3.70	-				
B+	3	B+	3.30	Good				
В	3	В	3	Satisfactory				
B-	3	B-	2.70	-				
С	2	С	2	Fail				
D	1	D	1	Fail				
F	0	F	0	Fail				

PRIOR TO SEPTEMBER 1970

From July 1, 1967 to August, 1970 a five point letter grade system was used: A = 4, B = 3, C = 2, D = 1, F = 0 with the same descriptions as above.

PRIOR TO JULY 1967 - PERCENTAGE GRADES

First Class Standing Second Class Standing Third Class Standing Fail (Undergraduate) 80 and above 65 - 79 50 - 65

The pass grade for graduate students was 65 or higher.

NOTE: The General Faculties Council of the University has ruled that no conversion of letter grades to numerical grades will be issued

EXPLANATION OF OTHER SYMBOLS WHICH HAVE BEEN USED PRIOR TO 1970

- failure, supplemental granted - failure, no supplemental - credit withheld absent, granted deferred final absent, failed - ungraded pass - incomplete

IN WP AB withdrew with permission absent from final exam incomplete