UNIVERSITY OF CALGARY

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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:

Fall:	September to December (13 weeks)
Winter:	January to April (13 weeks)
Spring:	May to June (6 to 7 weeks)
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
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	Grade Point Value (GPV)	Description
A+	4.0	Outstanding performance
A	4.0	Excellent
A-	3.7	Approaching excellent performance
B+	3.3	Exeeding good performance
B	3.0	Good performance
B-	2.7	Approaching good performance
C+	2.3	Exceeding satisfactory performance
C	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
I	0	Incomplete

Symbols:

SGR	Supplemental granted
AE	Aegrotat standing
AU	Auditor
X	Grade not reported
DFT	Deferred term work
DFE	Deferred final examination
SFE	Special deferred final examination
RTW	Required to Withdraw
W	Withdrew
RMW	Remedial work required
MT	Multi term
GP	Grade pending
I	Incomplete
EW	Extenuating circumstance withdraw
IP	In progress/future registration

PRIOR TO SEPTEMBER 1975

Undergraduate & Graduate Grading

Grade	Grade Point Value
A+	4
A	4
A-	4
B+	3
B	3
B-	3
C	2
D	1
F	0

Graduate Grading only (Effective Sept. 1973) - in courses numbered 600 or higher

Grade	Grade Point Value	Description
A+	4	Outstanding
A	4	Excellent
A-	3.70	-
B+	3.30	Good
B	3	Satisfactory
B-	2.70	-
C	2	Fail
D	1	Fail
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	80 and above
Second Class Standing	65 – 79
Third Class Standing	50 – 65
Fail (Undergraduate)	below 50

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

S	- failure, supplemental granted
F	- failure, no supplemental
N	- credit withheld
Ab.D.	- absent, granted deferred final
Ab.F.	- absent, failed
P	- ungraded pass
IN	- incomplete
WP	- withdrew with permission
AB	- absent from final exam
Inc.	- incomplete

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INFORMATION TO ASSIST IN EVALUATING TRANSCRIPT ON REVERSE.

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TRANSCRIPT OF ACADEMIC RECORD

Name: Hemanto Bairagi
Student ID: 30030922
Birthdate: Mar 01

Print Date: 2023-09-03

REGISTRAR

----- Credential Awarded -----

Credential: Bachelor of Science (Honours)
Conferral: 2021-02-12
Major: Astrophysics
Major: Physics

----- Beginning of Undergraduate Programs Record -----

----- Transfer Credits -----

Transfer Credit from Athabasca University
Total Transfer Units: 6.000

----- Test Credits -----

Total Transfer Units: 6.000

Fall 2016

Program: Science Bachelor
Bachelor of Science (Degree Stream)
Astrophysics (Major)

Course		Description	Attempted	Earned	Grade	Points
ARKY	201	Introduction To Archaeology	3.00	3.00	B	9.000
GERM	202	German I	3.00	3.00	A-	11.100
MATH	275	Calculus for Engineers & Scie	3.00	3.00	B	9.000
PHYS	227	Classical Physics	3.00	3.00	B	9.000
Term GPA:		3.17 Term Totals:	12.00	12.00		38.100

Winter 2017

Program: Science Bachelor
Bachelor of Science (Degree Stream)
Astrophysics (Major)

Course		Description	Attempted	Earned	Grade	Points
ASPH	213	Introduction To Astrophysics	3.00	3.00	B+	9.900
CPSC	217	Intro CPSC Multidisc Study I	3.00	0.00	D+	
MATH	211	Linear Methods I	3.00	3.00	C	6.000
MATH	277	Multivariable Calc Eng & Scie	3.00	3.00	B-	8.100
PHYS	255	Electromagnetic Theory I	3.00	3.00	A	12.000
Term GPA:		2.66 Term Totals:	15.00	12.00		39.900

Spring 2017

Program: Science Bachelor
Bachelor of Science (Degree Stream)
Astrophysics (Major)

Course		Description	Attempted	Earned	Grade	Points
MATH	311	Linear Methods II	3.00	3.00	B+	9.900
Term GPA:		3.30 Term Totals:	3.00	3.00		9.900

Fall 2017

Program: Science Bachelor
Bachelor of Science (Degree Stream)
Astrophysics (Major)
Physics (Major)

Course		Description	Attempted	Earned	Grade	Points
ASPH	307	Intro to Observational ASPH	3.00	3.00	B+	9.900
MATH	375	Diff Equations Eng & Scie	3.00	3.00	C	6.000
PHYS	341	Classical Mechanics I	3.00	3.00	B+	9.900
PHYS	375	Introduction to Optics & Waves	3.00	3.00	C+	6.900
PHYS	397	Applied Physics Laboratory I	3.00	3.00	A-	11.100
Term GPA:		2.92 Term Totals:	15.00	15.00		43.800

Winter 2018

Program: Science Bachelor
Bachelor of Science (Degree Stream)
Astrophysics (Major)
Physics (Major)

Course		Description	Attempted	Earned	Grade	Points
CHEM	203	Gen CHEM:Change & Equil	3.00	3.00	B	9.000
Req Designation:		Extra to Degree				
GERM	204	German II	3.00	0.00	W	
MATH	377	Vector Calc for Eng & Scie	3.00	3.00	A-	11.100
PHYS	325	Modern Physics	3.00	3.00	A	12.000
PHYS	343	Classical Mechanics II	3.00	3.00	B-	8.100
Term GPA:		3.35 Term Totals:	12.00	12.00		40.200

Spring 2018

Program: Science Bachelor
Bachelor of Science (Degree Stream)
Astrophysics (Major)
Physics (Major)

Course		Description	Attempted	Earned	Grade	Points
CPSC	217	Intro CPSC Multidisc Study I	3.00	3.00	B+	9.900
ECON	201	Principles Of Microeconomics	3.00	3.00	A	12.000
Term GPA:		3.65 Term Totals:	6.00	6.00		21.900

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TRANSCRIPT OF ACADEMIC RECORD

Name: Hemanto Bairagi
Student ID: 30030922
Birthdate: Mar 01

Print Date: 2023-09-03

REGISTRAR

Summer 2018

Program: Science Bachelor
Bachelor of Science (Degree Stream)
Astrophysics (Major)
Physics (Major)

Course		Description	Attempted	Earned	Grade	Points
ECON	203	Principles Of Macroeconomics	3.00	3.00	B	9.000
PHIL	377	Elementary Formal Logic	3.00	3.00	B	9.000
Term GPA:		3.00 Term Totals:	6.00	6.00		18.000

Fall 2018

Program: Science Bachelor
Bachelor of Science (Degree Stream)
Astrophysics (Major)
Physics (Major)

Course		Description	Attempted	Earned	Grade	Points
ASPH	401	Galactic Astrophysics	3.00	3.00	A-	11.100
MATH	433	Mathematical Methods Physics	3.00	3.00	A	12.000
PHYS	449	Statistical Mechanics I	3.00	3.00	A-	11.100
PHYS	455	Electromagnetic Theory II	3.00	3.00	B	9.000
Term GPA:		3.60 Term Totals:	12.00	12.00		43.200

Winter 2019

Program: Science Bachelor
Bachelor of Science (Degree Stream)
Astrophysics (Major)
Physics (Major)

Course		Description	Attempted	Earned	Grade	Points
ASPH	503	The Interstellar Medium	3.00	3.00	B+	9.900
PHYS	381	Computational Physics I	3.00	3.00	A-	11.100
PHYS	443	Quantum Mechanics I	3.00	3.00	A-	11.100
PHYS	457	Electromagnetic Theory III	3.00	3.00	B-	8.100
PHYS	497	Applied Physics Laboratory II	3.00	3.00	A-	11.100
Term GPA:		3.42 Term Totals:	15.00	15.00		51.300

Fall 2019

Program: Science Bachelor
Bachelor of Science - Honours (Degree Stream)
Astrophysics (Major)
Physics (Major)

Course		Description	Attempted	Earned	Grade	Points
PHYS	481	Computational Physics II	3.00	3.00	A-	11.100
PHYS	507	Solid State Physics	3.00	3.00	A+	12.000
PHYS	543	Quantum Mechanics II	3.00	3.00	A-	11.100
PHYS	597	Senior Physics Laboratory	3.00	3.00	A	12.000
PHYS	598A	Honours Research Thesis		0.00	MT	
Term GPA:		3.85 Term Totals:	12.00	12.00		46.200

Winter 2020

Program: Science Bachelor
Bachelor of Science - Honours (Degree Stream)
Astrophysics (Major)
Physics (Major)

Course		Description	Attempted	Earned	Grade	Points
ASPH	403	Stellar Structure & Evolution	3.00	3.00	CR	
ASPH	509	HighEnergyAstrophys&Cosmology	3.00	3.00	CR	
PHYS	451	Statistical Mechanics II	3.00	3.00	B+	9.900
PHYS	501	Relativity	3.00	3.00	A	12.000
PHYS	598B	Honours Research Thesis	6.00	6.00	CR	
Term GPA:		3.65 Term Totals:	18.00	18.00		21.900

Dean's List - Faculty of Science

----- *End of Transcript* -----