

Science 101

Class of 2011 Yearbook



Did you know a cocoon is spun of silk?

Science 101

is a 4-month summer program offered to individuals who have had difficulty accessing post-secondary education.

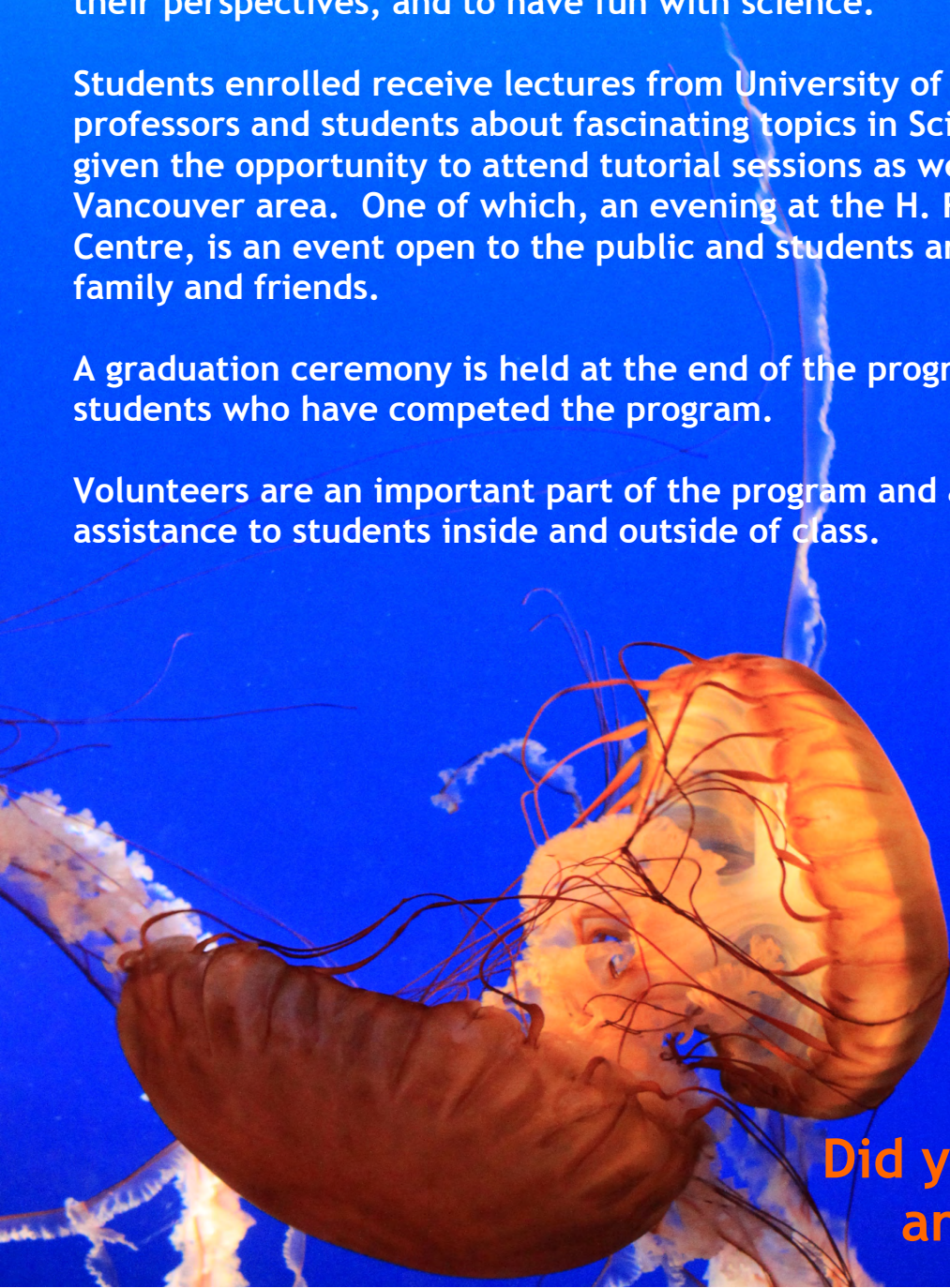
There are no fees associated with the course and no pre-requisite knowledge is required. No university credit is given upon completion. The program is sponsored by the University of British Columbia Faculty of Science Dean's Office and private donations.

The objective of the program is to give students an introduction to topics in science, to help them better understand the world around them, to broaden their perspectives, and to have fun with science.

Students enrolled receive lectures from University of British Columbia professors and students about fascinating topics in Science. Students are also given the opportunity to attend tutorial sessions as well as field trips in the Vancouver area. One of which, an evening at the H. R. MacMillan Space Centre, is an event open to the public and students are encouraged to bring family and friends.

A graduation ceremony is held at the end of the program to honor the students who have completed the program.

Volunteers are an important part of the program and are available to provide assistance to students inside and outside of class.



**Did you know jellyfish
are a low fat meal?**

Academics

At the end of the Science 101 program students are required to complete a final project. The purpose of the final project is to give students the opportunity to further explore a scientific topic of their choice and to share with others what they have learned. The topic may be something previously covered in class or only briefly touched upon. The only requirement is that the topic is scientific and relevant to the course.

Students are given the opportunity to display their projects at the graduation ceremony.

The projects involve a wide range of topics and are often presented in a variety of formats, including posters.



Did you know butterflies undergo a complete metamorphosis?

A message from Dr. Simon Peacock, Dean of Science

Dear graduates,

On behalf of the Faculty of Science, congratulations on your graduation from Science 101!

When looking back on what you have learnt through the Science 101 program, I hope you'll find you now have a better understanding of science and have gained new perspectives on the world around you. The knowledge and insight you have acquired provides you with a foundation to more fully understand and approach scientific topics you may encounter in the future, either in your everyday life or academically.

Science 101 has provided you with an excellent introduction to many scientific topics and has hopefully ignited your passion to continue learning about science.

Congratulations on your achievement!

Sincerely yours,

Simon Peacock
Dean
Faculty of Science

**Did you know the first
microscope invented was optical?**

A message from Amanda Catching, Program coordinator

The Road Not Taken
By Robert Frost

Two roads diverged in a yellow wood,
And sorry I could not travel both
And be one traveler, long I stood
And looked down one as far as I could
To where it bent in the undergrowth;

Then took the other, as just as fair,
And having perhaps the better claim
Because it was grassy and wanted wear,
Though as for that the passing there
Had worn them really about the same,

And both that morning equally lay
In leaves no step had trodden black.
Oh, I marked the first for another day!
Yet knowing how way leads on to way
I doubted if I should ever come back.

I shall be telling this with a sigh
Somewhere ages and ages hence:
Two roads diverged in a wood, and I,
I took the one less traveled by,
And that has made all the difference.

One thing all of us at Science 101 have in common is that we have chosen that less traveled road. Sometimes it has made our lives harder but more importantly it has made them richer and more interesting. Every student at Science 101 has a unique and compelling story to tell and gift to offer the world.

Being the Science 101 coordinator is the most rewarding job I have ever had and it is you, the students, that have made it so. I have really enjoyed getting to know you all and have learned something from each and every one of you. I wish all of you the greatest success and hope that you will keep me updated on all of your adventures.

I hope you enjoyed the program and look forward to seeing you all at alumni events in the future.

Best Wishes,

Amanda

Did you know flowering plants
are also called angiosperms?



A message from Leigh Hobbs, Program Coordinator

Dear Graduates,

Once again, the final days of Science 101 have left me with mixed emotions. As pleased as I am to see you successfully complete the program, I feel that I am just getting to know many of you. You've definitely made life interesting. Your perspectives and comments were insightful and you always made me laugh. You were so inquisitive and eager to learn about whatever topics were being presented; areas as diverse as astronomy, physiology and botany were met with the same degree of interest and speculation. Doubtless, this was in no small part due to the lecturers who so generously donated their time to the program. The passion they have for their fields, and learning in general, made it easy to share in the enthusiasm they generated in the classroom.

While the quality of the students and the lecturers are critical to the success of the program, there are many others whose work behind the scenes is just as invaluable. Amanda, it was great to work with someone with such passion for the program. Thank you to Nancy and Dr. Cavers for their support. Without you, the Science 101 program would never have got off the ground.

Science 101 is such an amazing program. It truly gives students the opportunity to make positive changes in their lives, which is something that is so wonderful to see and to, hopefully, be a small part of. I am so glad I was able to be involved with the program a second year and once again have learned a lot from the experience, both inside and outside the classroom.

I wish you the best of luck in your future pursuits. Congratulations to this year's graduates!

Sincerely,

Leigh

Did you know fireworks need oxygen to burn?

Program schedule

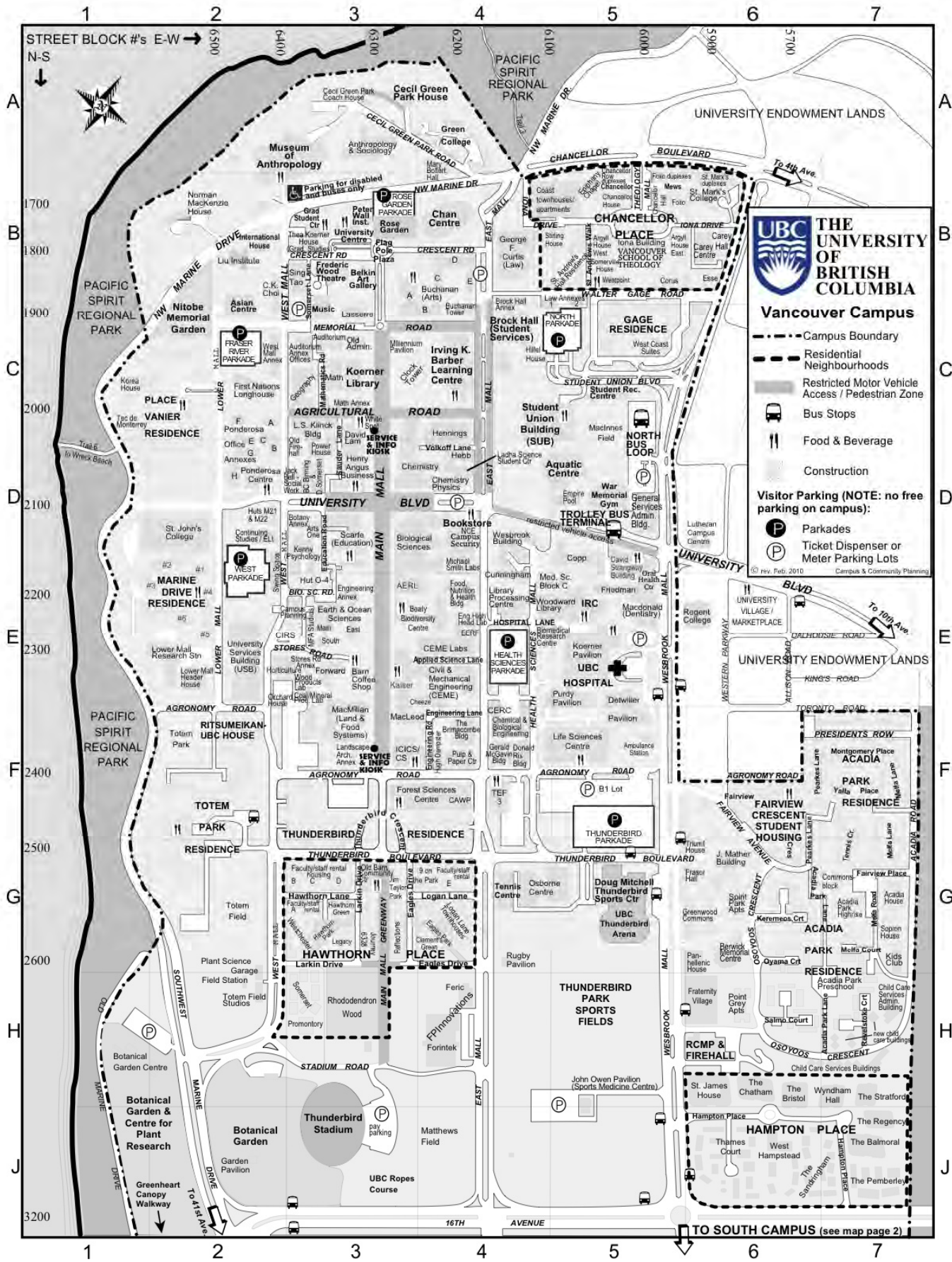
May				
Monday	Tuesday	Wednesday	Thursday	Friday
	Lecture 6 to 8:30pm UBC campus IBLC, room 260	Tutorial 3 to 5pm UBC Learning Exchange 612 Main St	Lecture 6 to 8:30pm UBC campus IBLC, room 260	
2 3 to 5:30pm Orientation	3 Dr. Anthony Griffiths "What is learning for?"	4 No tutorial	5 Dr. Chris Waltham "The acoustics of string instruments"	6
9	10 Ciaran Llachlan Leavitt "The Mathematics of evil"	11 Leigh Hobbs "Respiratory Physiology"	12 4 to 5pm Trip to Museum of Anthropology 6 to 8:30pm Ciaran Llachlan Leavitt "Computer Science information visualization"	13
16	17 Peter Raven "The biodiversity of fish"	18 2 to 5pm Field trip to Vancouver Aquarium	19 Dr. Eugene Barsky "The Science library" Koerner Library, room 217	20
23	24 Dr. Andrew Mosi "The Chemistry of food"	25 Dmitry Mebel "Drugs of abuse"	26 Dr. Anthony Griffiths "Genetics"	27 10 to 1pm Langara College Dr. Andrew Mosi, "The Chemistry of food" lab and lunch
30	31 Dr. Shona Ellis "The sex life of plants"			

June					
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	Lecture 6 to 8:30pm UBC campus IBLC, room 260	Tutorial 3 to 5pm UBC Learning Exchange 612 Main St	Lecture 6 to 8:30pm UBC campus IBLC, room 260		
		1 Amanda Catching "Type II Diabetes"	2 4 to 5pm Trip to Beaty Biodiversity Museum 6 to 8:30pm Rodolfo Dominguez "Surface tension"	3	4
6	7 Dr. Jim Rupert "Evolution"	8 4 to 6:30pm Field trip to Capilano Suspension Bridge	9 Dr. Julian Davies "The antibiotics paradox"	10 10am - 2pm Dr. Shona Ellis Field trip to Camosun bog and Botany lab	11
13	14 Dr. Phil Austin "Atmospheric Science: what does that mean?"	15 Lisa Wong "The flu"	16 Dr. Phil Hammer "Megaquake in Southwest BC!"	17	18 2 to 4pm Field trip to Science World
20	21 Dr. Jaymie Matthews "Mapping the universe including the invisible parts"	22 Elena Zaikova "Climate change and ecosystems"	23 Dr. Jaymie Matthews "Where will Avatar 2 be set: The real Science of exoplanets"	24	25
27 Midterm break	28 Midterm break	29 Midterm break	30 Midterm break		

Program schedule

July				
Monday	Tuesday	Wednesday	Thursday	Friday
	Lecture 6 to 8:30pm UBC campus IBLC, room 260	Tutorial 3 to 5pm UBC Learning Exchange 612 Main St	Lecture 6 to 8:30pm UBC campus IBLC, room 260	
				1 Midterm break
4	5 Julie Robillard & Kate Pettem "An introduction to neuroscience and brain disease"	6 Jenn Burt "Pacific Salmon Ecology"	7 Dr. Chris Ambrose "What does it mean to clone a gene?"	8
11	12 4 to 6pm Field trip to TRIUMF	13 Yvonne Dzal "Bat Biology"	14 Eric Johnson "The information superhighway of the cell"	15
18	19 Dr. Chris Addison "Better living through Chemistry"	20 6pm, Open house at the HR MacMillan Space Centre	21 4 to 5pm Trip to Nitobe gardens 6 to 8:30pm Dr. Mona Kwong "Lab: Introduction to Pharmaceuticals I" BIOC, room 3067	22
25	26 5:30 to 8:30pm Field trip to Grouse Mountain	27 Work on final project	28 Dr. Mona Kwong "Lab: Introduction to Pharmaceuticals II" BIOC, room 3067	29

August				
Monday	Tuesday	Wednesday	Thursday	Friday
	Lecture 6 to 8:30pm UBC campus IBLC, room 260	Tutorial 3 to 5pm UBC Learning Exchange 612 Main St.	Lecture 6 to 8:30pm UBC campus IBLC, room 260	
1	2 Allan DeBono "The world of the cell"	3 Work on final project	4 Dr. Peter Newbury "Fixing the universe"	5
8	9 Norman Flynn "The Philosophy of Science"	10 Work on final project	11 Graduation ceremony	12



UBC THE UNIVERSITY OF BRITISH COLUMBIA
Vancouver Campus

- Campus Boundary
- - - Residential Neighbourhoods
- ▭ Restricted Motor Vehicle Access / Pedestrian Zone
- 🚌 Bus Stops
- 🍷 Food & Beverage
- 🚧 Construction

Visitor Parking (NOTE: no free parking on campus):

- P Parkades
- P Ticket Dispenser or Meter Parking Lots

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TO SOUTH CAMPUS (see map page 2)

Map Directory

Site or Building Name & Address	Grid
Abdul Latha Science Student Ctr, 2055 East Mall	D4
Acadia/Fairview Commonsblock, 2707 Tennis Cres	G7
Acadia House, 2700-2720 Acadia Rd	G7
Acadia Park Residence	F/H-6/7
Acadia Park Highrise, 2725 Meffa Rd	G7
Acadia Park Preschool, 2750 Acadia Park Lane	H7
Animal Care Centre, 6199 S. Campus Rd	South Campus
Animal Science S. Campus Bldgs, 3473 Wesbrook Mall	South Campus
Anthropology & Sociology Bldg, 6303 NW Marine Dr	A3
Aquatic Centre, 6121 University Blvd	D5
Aquatic Ecosystems Research Lab (AERL), 2302 Main Mall	E3
Arts One Bldg — see Theatre-Film Production Building	
Asian Centre, 1871 West Mall	B2
Auditorium, 6344 Memorial Rd	C3
Auditorium Annex Offices, 1924 West Mall	C3
Barn Coffee Shop, 2323 Main Mall	E3
B.C. Binning Studios (formerly Hut M-17), 6373 University Blvd	D3
Beaty Biodiversity Centre & Museum, 2212 Main Mall	E3/4
Belkin (Morris & Helen) Art Gallery, 1825 Main Mall	B3
Berwick Memorial Centre, 2765 Osoyoos Cres	G6
Biological Archive Centre, 4000 Wesbrook Mall	South Campus
Biological Sciences Bldg [Science Faculty office], 6270 University Blvd	D3
Biomedical Research Ctr, 2222 Health Sciences Mall	E4
Biotechnology Laboratory, 2125 East Mall	A4
Bolliert (Mary) Hall, 6253 NW Marine Dr	D4
Bookstore, 6200 University Blvd	D4
Botanical Garden Centre/Gatehouse, 6804 SW Marine Dr	H1
Botanical Garden Pavilion (enter at Gatehouse, 6804 SW Marine Dr)	J2
Botan. Gard. Greenhous/Workshops, 6088 S. Campus Rd	South Campus
Botany Annex, 6366 University Blvd	D3
Brimacombe Building, 2355 East Mall	F4
BRIDCK HALL — Student Services & Welcome Centre,	
1874 East Mall	C4
Brock Hall Annex, 1874 East Mall	C4
Buchanan Building (Blocks A, B, C, D, & E) [Arts], 1866 Main Mall	B3/4
Buchanan Tower, 1873 East Mall	C4
C.K. Choi Building for the Institute of Asian Research, 1855 West Mall	B2
Campus & Community Planning, 2210 West Mall	E3
Campus Security, 2133 East Mall	D4
Carey Centre, 5920 Iona Drive	B6
Carey Hall, 1815 Wesbrook Mall	B6
CAMP (Centre for Advanced Wood Processing), 2424 Main Mall	F4
Cecil Green Park Coach House, 6233 Cecil Green Park Rd	A3
Cecil Green Park House, 6251 Cecil Green Park Rd	A3
CEME — see Civil & Mechanical Engineering Building	
Centre for Comparative Medicine (under construction),	
4145 Wesbrook Mall	South Campus
Centre for Interactive Research on Sustainability (CIRS) (under	
construction), 2260 West Mall	E3
CERC (Clean Energy Research Ctr), 2360 East Mall	F4
Chan Centre for the Performing Arts, 6265 Crescent Rd	B4
Chancellor Place neighbourhood	B5
Chemical & Biological Engineering Bldg, 2360 East Mall	F4
Chemistry Building, 2036 Main Mall	D3
Chemistry Physics Building, 6221 University Blvd	D4
Child Care Services Admin. Bldg, 2881 Acadia Rd	H7
Child Care Services Bldgs, Osoyoos Cresc and Revelstoke Crt	H7
Civil & Mechanical Engineering (CEME), 6250 Applied Science Lane	E4
Civil & Mechanical Eng. Labs ("Rusty Hut"), 2275 East Mall	E4
Coal & Mineral Processing Lab, 2332 West Mall	E3
Continuing Studies Bldg [English Language Institute], 2121 West Mall	D2
Copp (D.H.) Building, 2146 Health Sciences Mall	D5
Cunningham (George) Building [Pharmaceutical Sc.], 2146 East Mall	E4
Curtis (George F.) Building [Law], 1822 East Mall	B4
David Lam Learning Centre, 6326 Agricultural Rd	C3
David Lam Management Research Ctr, 2033 Main Mall	C3
Donald Rix Building, 2389 Health Sciences Mall	F4
Doug Mitchell Thunderbird Sports Ctr (was Thunderbird Winter	
Sports Centre), 6086 Thunderbird Blvd	G5
Dorothy Somerset Studios (formerly Hut M-18), 6361 University Blvd	D3
Earth & Ocean Sciences (EOS) - East, 2219 Main Mall	E3
Earth & Ocean Sciences (EOS) - Main and South, 6339 Stores Rd	E3
Earthquake Engineering Research Facility (EERF), 2235 East Mall	E4
Engineering Annex, 6298 Biological Sciences Rd	E3
Engineering High Head Room Lab, 2225 East Mall	E4
Environmental Services Facility, 6025 Nurseries Rd	South Campus
Faculty of Law Annexes 1 and 2, 6050 and 6020 Walter Gage Rd	B4/5
Fairview Crescent Student Housing, 2600-2804 Fairview Cres	F6
Fire Department, 2992 Wesbrook Mall	H6
First Nations Longhouse, 1985 West Mall	C2
Flag Pole Plaza (Main Mall & Crescent Rd)	B3
Food, Nutrition and Health Bldg, 2205 East Mall	E4
Forest Sciences Centre [Faculty of Forestry], 2424 Main Mall	F4
Forward (Frank) Building, 6350 Stores Rd	E3
FFInnovations (Feric and Forintek), 2601/2665 East Mall	H4
Fraser Hall (public rental housing), 2550 Wesbrook Mall	G6
Fraternity Village, 2880 Wesbrook Mall	H6
Frederic Wood Theatre, 6354 Crescent Rd	B3
Friedman Bldg, 2177 Wesbrook Mall	E5
Gage Residence, 5959 Student Union Blvd	C5
General Services Administration Bldg (GSAB), 2075 Wesbrook Mall	D5
Geography Building, 1984 West Mall	C3
Gerald McGavin Building, 2386 East Mall	F4
Graduate Student Centre (Thea Koerner House), 6371 Crescent Rd	B3
Green College, 6201 Cecil Green Park Rd	A4

Site or Building Name & Address	Grid
Greenheart Canopy Walkway, Botanical Garden, 6804 SW Marine Dr	H1
Greenwood Commons (public rental housing), 2680 Wesbrook Mall	G6
Hampton Place neighbourhood	H/J-6/7
Hawthorn Place neighbourhood	G/H3
Hebb Building, 2045 East Mall	D4
Hennings Building, 6224 Agricultural Rd	C4
Henry Angus Building [Sauder School of Business], 2053 Main Mall	D3
Hillel House (new bldg construction), 6145 Student Union Blvd	C4
Horticulture Building/Greenhouse, 6394 Stores Rd	E2/3
Hugh Dempster Pavilion, 6205 Agronomy Rd	F4
Hut M-21 & Hut M-22, 2109 West Mall	D2
Hut O-4, 6365 Biological Sciences Rd	E3
ICICS/ICS (Institute for Computing, Information & Cognitive Systems/ Computer Science - formerly CICS/CS), 2366 Main Mall	F4
Instructional Resources Centre (IRC), 2194 Health Sciences Mall	E5
International House, 1783 West Mall	B2
In-Vessel Composting Facility, 6035 Nurseries Road	South Campus
Irving K. Barber Learning Ctr (former Main Library), 1961 East Mall	C4
Jack Bell Building for the School of Social Work, 2080 West Mall	D3
John Owen Pavilion & Allan McGavin Sports Medicine Centre, 3055 Wesbrook Mall	H5
Kaiser (Fred) Building [Faculty of Applied Science], 2332 Main Mall	E3
Kenny (Douglas T) Building, 2136 West Mall	D3
Kids Club, 2855 Acadia Rd	G7
Klinck (Leonard S.) Bldg, 6356 Agricultural Rd	C3
Koerner (Walter C.) Library, 1958 Main Mall	C3
Landscape Architecture Annex, 2371 Main Mall	F3
Lasserre (Frederic) Building, 6333 Memorial Rd	C3
Leon and Thea Koerner University Centre, 6331 Crescent Rd	B3
Library Processing Centre, 2206 East Mall	E4
Life Sciences Centre, 2350 Health Sciences Mall	F5
Liu Institute for Global Issues, 6476 NW Marine Dr	B2
Lower Mall Header House, 2268 Lower Mall	E2
Lower Mall Research Station, 2259 Lower Mall	E2
Macdonald (J.B.) Building [Dentistry], 2199 Wesbrook Mall	E5
MacLeod (Hector) Building, 2356 Main Mall	F3
MacMillan (H.R.) Bldg [Faculty of Land & Food Systems], 2357 Main Mall	F3
Marine Drive Residence (student housing), 2205 Lower Mall	D2
Material Recovery Facility, 6055 Nurseries Rd	South Campus
Mathematics Annex, 1986 Mathematics Rd	C3
Mathematics Building, 1984 Mathematics Rd	C3
Mather (James) Building, 5804 Fairview Ave	G6
Medical Sciences Block C, 2176 Health Sc. Mall	E4
M.F.A. Studios (formerly B.C. Binning MFA Studios), 6363 Stores Rd	E3
Michael Smith Laboratories, 2185 East Mall	D4
Museum of Anthropology, 6393 NW Marine Dr	A2/3
Music Building, 6361 Memorial Rd	B/C3
Networks of Ctrs of Excellence (NCE), 2125 East Mall	D4
Nitobe Memorial Garden, 1903 West Mall	B/C2
Norman MacKenzie House, 6565 NW Marine Dr	B2
NRC Institute for Fuel Cell Innovation, 4250 Wesbrook Mall	South Campus
Old Administration Building, 6328 Memorial Rd	C3
Old Barn Community Centre, 6308 Thunderbird Blvd	G3
Old Firehall, 2038 West Mall	D3
Orchard House, 2338 West Mall	E2
Osborne (Robert F.) Centre/Gym, 6108 Thunderbird Blvd	G4

Site or Building Name & Address	Grid
Panhellenic House, 2770 Wesbrook Mall	G6
PAPRICAN Building, 3800 Wesbrook Mall	South Campus
Peter Wall Institute for Advanced Studies, 6331 Crescent Rd	B3
Place Vanier Residence, 1935 Lower Mall	C/D2
Plant Ops Nursery/Greenhouses, 6029 Nurseries Rd	South Campus
Plant Science Field Station & Garage, 2613 West Mall	H2
Point Grey Apartments, 2875 Osoyoos Cresc	H6
Police (RCMP) & Fire Department, 2990/2992 Wesbrook Mall	H6
Ponderosa Centre, 2071 West Mall	D2
Ponderosa Office Annexes, A, B, & C, 2011-2029 West Mall	C/D2
Ponderosa Office Annexes: E to H, 2008-2074 Lower Mall	C/D2
Power House, 2040 West Mall	D3
Pulp and Paper Centre, 2385 East Mall	F4
Ritsumekan-UBC House, 6460 Agronomy Rd	F2
Rodney Graham Millennium Pavilion	C3
Rose Garden	B3
Rugby Pavilion, 2584 East Mall	G4
Scarfe (Neville) Building [Education], 2125 Main Mall	D3
Sing Tao Building, 6388 Crescent Rd	B3
Sopron House, 2730 Acadia Rd	G7
South Campus Warehouse, 6116 Nurseries Rd	South Campus
Spirit Park Apartments, 2705-2725 Osoyoos Cresc	G8
St. Andrew's Hall/Residence, 6040 Iona Dr	B5
St. John's College, 2111 Lower Mall	D2
St. Mark's College, 5935 Iona Dr	B6
Staging Research Centre, 6045 Nurseries Rd	South Campus
Stores Road Annex, 6368 Stores Rd	E3
Student Recreation Ctr, 6000 Student Union Blvd	C5
Student Union Bldg (SUB), 6138 Student Union Blvd	C4
Technology Enterprise Facility 3 (TEF3), 8190 Agronomy Rd	F4
Thea Koerner House [Graduate Studies], 6371 Crescent Rd	B3
Theatre-Film Production Bldg (was Arts 1 Bldg), 6358 University Blvd	D3
Thunderbird Residence, 6335 Thunderbird Cresc	F3/4
Thunderbird Stadium, 6288 Stadium Rd	J3
Thunderbird Winter Sports Ctr — see Doug Mitchell Thunderbird Sports...	
Tolsem Field Studios, 2613 West Mall	H2
Totem Park Residence, 2525 West Mall	FIG2
TRIUMF, 4004 Wesbrook Mall	South Campus
Triumf House (TRIUMF Visitor's Residence), 5835 Thunderbird Blvd	G6
UBC Farm, 6182 Wesbrook Mall	South Campus
UBC Hospital, 2211 Wesbrook Mall	E5
UBC Tennis Centre, 6160 Thunderbird Blvd	G4
UBC Thunderbird Arena, 2555 Wesbrook Mall	G5
University Centre (Leon & Thea Koerner), 6331 Crescent Rd	B3
University Services Building (USB), 2329 West Mall	E2
Vancouver School of Theology, 6000 Iona Drive	B5
Waller H. Gage Residence, 5959 Student Union Blvd	C5
War Memorial Gymnasium, 6081 University Blvd	D5
Wesbrook Bldg, 6174 University Blvd	D4
Wesbrook Place neighbourhood (under construction)	South Campus
Wesbrook Village shopping centre	South Campus
West Mall Annex, 1933 West Mall	C2
West Mall Swing Space Bldg, 2175 West Mall	D2
Wood Products Laboratory, 2324 West Mall	E3
Woodward IRC, 2194 Health Sciences Mall	E4/5
Woodward Library, 2198 Health Sciences Mall	E4/5

SOUTH CAMPUS MAP

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Campus & Community Planning
www.planning.ubc.ca

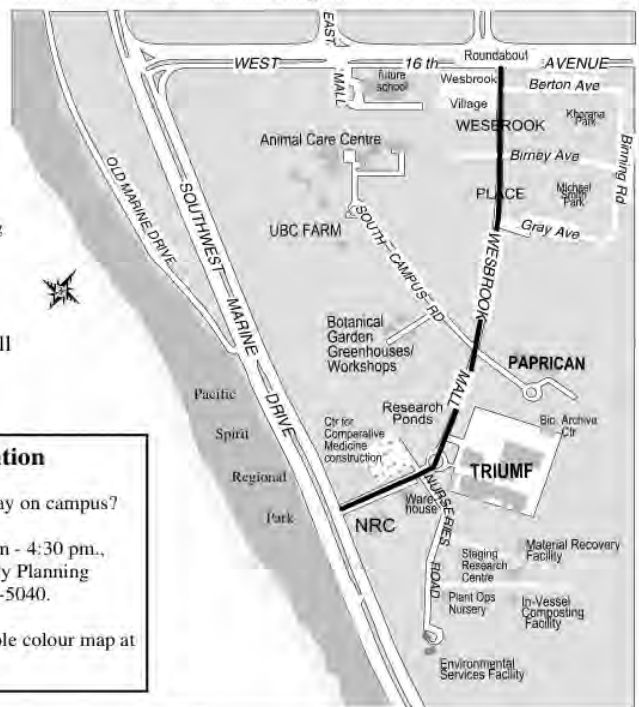
Note:
Local traffic only
along Wesbrook Mall
on South Campus

Map Information

Need help finding your way on campus?

Monday to Friday, 8:30 am - 4:30 pm.,
call Campus & Community Planning
Map Info Line at 604-827-5040.

Or use the online searchable colour map at
www.maps.ubc.ca



The students

Jose Gutierrez

“My most memorable experience was learning about surface tension because I [always] thought water was flat”.

For his final project Jose researched “the importance of vitamin C... How we get it, how some animals get it, and its benefits.”

“I would like to tell [those involved with Science 101]... thanks. This program is very good and makes us more aware of very important things”. Science 101 helps us “develop our curiosity which is the most important thing to get knowledge”.



Jose in the gondola going up Grouse Mountain.

Jose encourages his Science 101 classmates to keep their hunger for knowledge alive!



Jose looking pensive during a Science 101 lecture.

Thomas Beirne

My most memorable experience in Science 101 was when Jaymie Matthews told us “we are the Goldilocks planet out of some 500 or 600 odd planets.”

The topics Thomas found most engaging were the chimera mouse and genetics.

For his final project Thomas researched the Science of law in Canada and BC.

“The more I come here the more I feel I belong. Talking with [my classmates I learnt] there are quite a few others that feel the same way”.



Thomas and Brian at “Tree top adventures” at the Capilano Suspension Bridge.



Thomas making ice cream.

David Deocera

found learning about flora and fauna very interesting. “Learning about how they interact... with each other is very enlightening”.

“Life in general is a never ending quest for learning, appreciation, and wonder of all the things around us”.

Science 101 has helped David in his future pursuits. The program “opened my eyes to the importance of biodiversity. I am starting a project in my home country, the Philippines, called Community Reforestation Project”.

David talking with and Jose.



David in a Science 101 lecture.

“The whole [Science 101] experience is simply spectacular. I enjoyed every moment in the class. The teachers are exceptional, the staff are super approachable, and the volunteers exceeded the expectations”.

Donna Gorrill

The topics Donna found most engaging were “The Mathematics of Evil” and “Zero Sum Game Theory”. She now knows how to beat the computer at chess!

When asked if Science 101 contributed to her understanding of the world she replied, “Yes, are you kidding!? It is a big world out there and beyond...”

For her final project Donna researched the optical meteorological phenomenon called rainbows... cause by light refraction on water droplets.



Donna with Chad, a volunteer, during a Science 101 lecture.



Charlize, Phyllis, Georgia, and Donna in Stanley Park.

To her Science 101 classmates Donna says, “Thanks for the memories!”

“I appreciate the instructors, coordinators, mentors, and volunteers who contributed to Science 101”.

Brian Wheatley

“My most memorable experience was... the pharmaceuticals lecture. [There were] so many fascinating educated comments”.



Brian at TRIUMF Laboratory for Particle and Nuclear Physics.

Jose, Susan, and Brian waiting for the gondola to go up Grouse Mountain.



The Science 101 program helped him realize that the Earth is indeed round. He's now seen the evidence!

“Learning Science is a life long pursuit and you don't need to be in [the classroom] to learn it”.

To his classmates Brian says, “The Science 101... space shuttle has unfortunately ended, but it can fly again for yet another adventure”.

Kelly Hilton

Found learning about space, the moon, the stars, and dark matter most engaging. “Describing the things we see in the sky and their behaviour”.



Kelly outside TRIUMF Laboratory for Particle and Nuclear Physics.

“Attending Science 101 was informative about several Science categories. The field trips were exciting and educational!”
“[Science 101] is fun. Take it. I’m very thankful I did.”

The title of Kelly’s final project was “The Beauty of Science” since science brought clarity to the questions she has often pondered.

“It was wonderful getting to know many of the students, their history, their dreams”.

Peter Newbury helping Kathleen and Kelly during his lecture on “Fixing the Universe”.



Kathleen Still

says “Science 101 will enhance your life”. The program contributed to her understanding of the world. She learned about genetics and how life-forms are created” and “gained a greater understanding of the natural world and how life grows”.

Kathleen gained knowledge she can apply in her everyday life. Learning about plant reproduction, Botany, and Chemistry will help her have a greater yield in her vegetable garden. She was able to relate to [much] of the subject matter.

Kathleen and James inspecting a plant in Camosun Bog.



Kathleen making ice cream.

“I would definitely recommend Science 101 to future students. As a result of taking [the program] my total well-being improved. I always looked forward to class. [Attending] class was a top priority”.

For her final project Kathleen researched Community Gardens and how they impact people’s wellbeing.

Susan Knudsen

“My most memorable experience was the field trip to Grouse Mountain where I was able to zipline amidst the clouds!”

All the topics were interesting and I especially enjoyed the Introduction to Pharmaceuticals II with Dr. Mona Kwong... We made hand cream and had a great discussion”.



Susan on the gondola going up Grouse Mountain.

To her classmates Susan says, “It’s been a pleasure to learn with you. May all your future educational endeavors be as rewarding”.

Upon completing the program Susan hopes to continue to study Math.



Susan using a telescope to look at the moon.

Mark Shum

For Mark, Science 101 “explained a lot of questions that were burning a hole in [his] soul”.

To his classmates Mark says, “Enjoy the learning experience, if you’ve got an itch to learn!”.

For his final project Mark researched the Terahertz camera, which is used in airports, prisons, and is “coming to a hospital near you!”



Dave, Mark, Thomas, and Leigh, program coordinator, on a tour of TRIUMF Laboratory for Particle and Nuclear Physics.



Mark and Virginia at a Botany lab.

Jeff Feinstein

Jeff's most memorable experiences were "the great understanding shown by instructors and people running the program".

Science 101 reminded him of the importance of Science. "It was a great inclusive learning experience".



Jeff using a telescope to look at the moon.



Mark, Virginia, and Jeff in a Science 101 lecture.

For his final project Jeff researched the Physics of Music. "How sound frequencies translate into music harmony".

To his classmates Jeff says, "Thanks for being so collegial".

Robert Bremner

learned many things in Science 101. He was inspired. “Every class was equally as good, however, Respiratory Physiology was very relevant” to his experiences as a CPR instructor.

Science 101 has given him a “deeper understanding of human relationship... on this planet”.

For his final project Robert researched “the role of the Perfusionist during surgery to control [the flow of oxygenated blood to the] heart and lungs” and how “climate change and tectonic plates [cause a] disruption of cycle causing havoc, such as earthquakes”.

Robert using a telescope to look at the moon.



Robert speaking with Peter Newbury.

Science 101 was “a very supportive learning environment, an extraordinary opportunity... Thank you UBC”.

Charlize Gordon

Some of Charlize's most memorable Science 101 experiences were the Grouse Mountain trip and the first class on sound waves.

"I was already on my way [to understanding the world around me]. Now I have a better appreciation of the planet I live on. I would like to pursue another year of learning about the world around me".



Charlize making ice cream.

The topic of Charlize's final project is sound and hearing, specifically pertaining to Tinnitus.

"Thanks for a great term".



Donna, Charlize, and Lisa, a volunteer, in a Science 101 lecture.

James Vassiliou

Science 101 contributed to James' understanding of the world. "So much to... learn [and] know. The vastness of the cosmic geological and biological time. The awe and wonder of it all".

When asked to describe his learning experiences, James replied "the wow factor".

James, Chad, and Shona Ellis in Camosun bog.



James watching the bird show at Grouse Mountain.

Rajendra Prasad

learned many things in Science 101. The lectures help him understand himself, the human body and mind, right down to DNA, genes, traits and addictions.

For his final project Raj researched Mendelian genetics. More specifically the genes that cause the physical traits.

Raj using a telescope to look at the moon.



Kelly, James, and Raj.

Raj would like to express tons of gratitude towards the Science 101 program. “Leigh and Amanda, the two coordinators, your time with us was priceless. Volunteers, thank you to each one of you who taught us. Thank you for opening this place where wisdom is a gift. I will in my time learn as much as I am allowed to.”

Victor Jean

Victor's most memorable experience was making hand cream. He found Evolution to be the most interesting topic. As a result he chose to research Evolution for his final project.

Science 101 helped him in his future pursuits by “answering some questions [he] had about the world around him”.

Victor and Lisa, a volunteer, using a telescope to look at the moon.



Victor outside the Irving K Barber Learning Centre, UBC campus.

To his classmates Victor says, “Keep on the learning way”. “I enjoyed the diversity of my classmates and their commitment to learning”.

Virginia Shum

Virginia's most memorable experiences were making hand cream and ice cream.

Science 101 helped her "understand the world better".



Virginia dissecting plants at the Botany lab.

Virginia recommends Science 101 to prospective students since "one can [always] learn more".



Visiting Camosun bog with Shona Ellis.

Stephen Kinnis

“I really liked learning about astronomy. The discussion we had with Jaymie Matthews was very interesting”.

“I liked learning about the structure of the cell, but I [now] realize that an introductory information session can not explain its intricacies”. The topic of his final project is the Anatomy of the Cell.

Stephen using a telescope to look at the moon.



Field trip to Camosun bog with Shona Ellis.



“I think these UBC courses are inspiring... [I would] especially recommend [the program] to people in the DTES”.

Dave Leblanc

“The whole [Science 101] experience has been quite the pleasure; the field trips, the lectures. There was not a dull moment”.

Dave found every topic engaging since all the lecturers were so knowledgeable in their fields.



Dave in Camosun bog.

For his final project Dave researched Pseudoscience since he would like people to know “there’s what you know and what you can prove”.

“Thank you very very much. You’ve inspired me and given me hope”.



Dave eating ice cream during the Pharmaceuticals Lab.

Megan Muir

Megan's most memorable experiences were "being on Grouse Mountain in mid summer surrounded by clouds and snow! The fish lecture was so incredible [and was] made even better with the trip to the aquarium where the professor showed us the creatures we learned about alive and up close!"

"Jaymie Matthews' Astrophysics lectures were amazing! He was able to make complex concepts understandable and he answered a question I've had since I was young: If the universe is actually expanding, into what is it expanding?"



Megan in class.



Megan using a telescope to look at the moon.

For her final project Megan researched how to build a rain water collecting system for you apartment balcony.

"I studied Science in university ten years ago and this class has revived my scientific understanding... By having lectures on such a variety of topics led by experts who excel at translating their world into everyday language I feel so much more confident returning to school. The love of learning is contagious - I've definitely caught the bug".

To her classmates Megan says, "Keep learning and keep teaching. You've proven that we all have something valuable to share".

Phyllis Lester

Phyllis enjoyed all the subjects. There were lots of fun and interesting topics discussed. The Open House at the HR MacMillan Space Centre was an especially memorable experience.



Phyllis and Georgia out front of the Irving K Barber Learning Centre on UBC campus.

“It was good to meet all these people. I enjoyed hearing [your] input”.



Phyllis, Mark, and Stephen with Peter Raven at the Vancouver Aquarium.

Ronald Rizetto

aka Rockin' Ronnie

One of Ronnie's most memorable experiences was performing in front of the class with his harmonica and guitar during the acoustics of string instruments lecture, one of his favorite topics.

Ronnie using a telescope to look at the moon.



Ronnie making ice cream.

Ronnie researched the Science of healing through music for his final project.

“I look at Science and the world from a different light and new perspective. My mind is open to new educational possibilities”.

To his classmated Ronnie says, “I believe in all of you. You are my family and fellowship. Expand your horizons and seek knowledge”.
“Knowledge is wisdom and power and strength in numbers”.

“I appreciate everyone in Science 101: the staff, the contributing lecturers, and students as a whole”.

Alumni mentors

Georgia Kelly

Georgia, a former Science 101 student, says she “thoroughly enjoyed the two years she spent in Science 101. [It was] time well spent!” She really enjoyed all the outings. They were great opportunities to get to know the students better.

To the Science 101 students she says, “You’re the greatest. It’s been a slice! The enthusiasm was infectious!”



Georgia doing a surface tension experiment.

Brett Lindsey

Brett completed the Science 101 program in 2010. Returning as a mentor he enjoyed “all the great personalities in the class”. He encourages this years’ class to “follow their dreams”.

Brett at the HR MacMillan Space Centre.



The volunteers

A message from Chad Atkins

Dear Graduates,

“The important thing in Science is not so much to obtain new facts as to discover new ways of thinking about them”.

-Sir William Henry Bragg

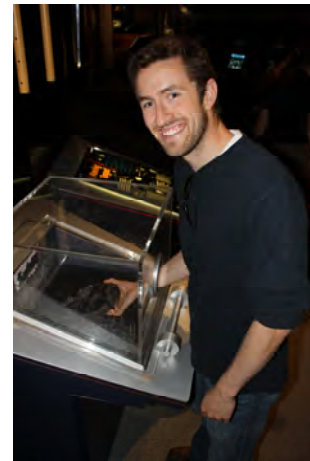
Continue to think and challenge your boundaries.

Chad

Chad touching a meteor at the
HR MacMillan Space Centre.



Lisa and Raj using
a telescope to look
at the moon.



A message from Lisa Wong

Dear Graduates,

Over the past few months, many of you were kind enough to share your stories, life experiences, and wisdom with me during the various lectures, field trips, and tutorials. I benefited from those moments in more ways than I can say. I hope you all enjoyed discovering science this summer. Learning alongside all of you has been a truly unique and amazing experience for me. Your curiosity and enthusiasm about science are both inspiring and infectious - thanks for sharing!

Lisa

Graduation invitation

Science 101 class of '11

You are cordially invited to an evening of
celebration in honor of the graduation of the

Science 101 class of 2011

Thursday August 11, 2011

Food and refreshments from 4:30pm

Ceremony at 5:30pm

Project display from 4:30 to 5:30 and 6:30 to 7:30pm

Michael Smith Building, room 101

2185 East Mall, University of British Columbia

Please RSVP to science101@science.ubc.ca

by Tuesday August 2, 2011



Acknowledgments

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Dr. Ian Cavers, Associate Dean of Curriculum and Learning

Dr. Paul Harrison, Associate Dean of Student Services

Nancy Cook, Teaching and Curriculum Coordinator

Program coordinators

Amanda Catching & Leigh Hobbs

Lecturers

Dr. Anthony Griffiths, Dr. Chris Waltham, Dr. Eugene Barsky, Dr. Jaymie Matthews, Dr. Chris Addison, Dr. Jim Rupert, Dr. Andrew Mosi, Eric Johnson, Dr. Phil Hammer, Rodolfo Dominguez, Dr. Phil Austin, Dr. Shona Ellis, Dr. J. C. Ambrose, Peter Raven, Ciaran Llachlan Leavitt, Kate Pettem & Julie Robillard, Dr. Peter Newbury, Alan DeBono, Dr. Julian Davis, Dr. Mona Kwong, Norman Flynn

Tutorial presenters

Dmitry Mebel, Jenn Burt, Elena Zaikova, Lisa Wong, Amanda Catching, Leigh Hobbs

Volunteers

Lisa Wong, Elena Zaikova, Chad Atkins, Sonja Babovic, Chelsea Enslow, Thomas Johnson, Anca Toma

Science 101 Alumni Mentors

Brett Lindsey & Gerogia Kelly

Field trips

The H.R. MacMillan Space Centre, The Vancouver Trolley Company, Langara College, the Beaty Biodiversity Museum, TRIUMF, the Nitobe Memorial Gardens, the Vancouver Aquarium, Science World, Capilano Suspension Bridge, Museum of Anthropology, Grouse Mountain

Thank you to Dr. Paul Harrison, Dr. Shona Ellis, and Dr. Jaymie Matthews for speaking at the graduation ceremony

The UBC Learning Exchange

Margot Leigh Butler & Paul Woodhouse from Humanities 101



Amanda, program coordinator.

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