University of Lethbridge

Name:_



Program Planning Guide

Current and past Program Planning Guides are available on the UofL website at www.uleth.ca/ross/ppgs/ppg.html

ID:

Calendar Year: 2012/2013 Faculty: Arts & Science

About the Post-Diploma Bachelor of Science (B.Sc.) in Computer Science Program

Approved Two-Year College Diplomas This program is directed toward graduates of approved two-year college diploma programs in Computer System Technology or Computer Information Technology. Graduates of other diploma programs in these areas will also be considered.

At the time of printing (March 2012), the following two-year college diplomas are approved for admission:

Algonquin College of Applied Arts and Technology Computer Engineering Technology

Camosun College Computer Systems Technology

Centennial College Computer Programmer/Analyst (three-year diploma)

Douglas College Computer Information Systems

Durham College Computer Systems Technology

Georgian College of Applied Arts and Technology

* Computer Programmer/Co-op * Computer Programmer/Analyst * College graduates must include in their diploma: CSC Computer Systems Technology 2171, 2289 and 2298.

Grande Prairie Regional College Computer Systems Technology

Humber College

Computer Programmer Computer Programmer Analyst Computer Engineering Technology

Kwantlen Polytechnic University Computer Information Systems

Lethbridge College

Computer Information Technology

Loyalist College Computer Engineering Technician/Technology Computer Programmer/Analyst

Medicine Hat College Information Technology (Software and Internet Development major)

Northern Alberta Institute of Technology (NAIT) Computer Systems Technology

Okanagan College Computer Information Systems

Red Deer College Computer Information Systems Technology

Saskatchewan Institute of Applied Science and Technology (SIAST) Computer Information Systems Computer Systems Technology

Sheridan Institute of Technology and Advanced Learning Computer Science Technology

Southern Alberta Institute of Technology (SAIT)

Information Technology (Software Development major)

St. Lawrence College Computer Networking and Technical Support Computer Programmer Analyst

For a complete listing of approved diploma programs, including discontinued diplomas still acceptable for admission, see UofL's Post-Diploma Degree Programs website: www.uleth.ca/postdiploma

Computer Science

Post-Diploma Bachelor of Sci

This is a planning guide and not a graduation check or guarantee of course offerings. You should have a program check done in your final year of studies. Students are responsible for the accuracy of their own programs. The guide should be used in conjunction with the University of Lethbridge Calendar, which is the final authority on all questions regarding program requirements and academic regulations. Contact an Academic Advisor in the Faculty of Arts and Science for advising information.

Post-Diploma Bachelor of Science - Computer Science			Calendar Year - 2012/20
Co-operative Edu	Internship progra		Students interested in the Co-operative Education o-operative Education in the Career Resources Cen
Program Require		a B.Sc. degree with a major in Computer e point average of 2.00.	Science requires 20 semester courses with a minir
Residence Requi	ement All 20 courses in	the Post-Diploma program must be Uni	versity of Lethbridge courses.
Program Wo	rksheet		
Name:		ID:	
General require	ients:		
Successful compl	ion of at least 20 courses (as i	indicated below) with a cumulative	grade point average of at least 2.00:
1-8.	-	-	Liberal Education Requirement as follows:
	-	es from List I - Fine Arts and Human	-
			_
	and	es from List II - Social Science cours	
	Λ		
	4		_
	and		
	and	above eight courses must be at the 2	
	and c. At least one of the a Note: For complete Lists I, II, and II	above eight courses must be at the 2	
9-20.	and c. At least one of the a Note: For complete Lists I, II, and II Courses will be satisfied via t	above eight courses must be at the 2	2000 level or higher. —
	and c. At least one of the a Note: For complete Lists I, II, and II Courses will be satisfied via t	above eight courses must be at the 2 III for the General Liberal Education Requirer the major requirements listed below. Science major, as listed below.	2000 level or higher. —
Requirements for	and c. At least one of the a Note: For complete Lists I, II, and II Courses will be satisfied via t 12 courses for the Computer S the Computer Science Maj	above eight courses must be at the 2 III for the General Liberal Education Requirer the major requirements listed below. Science major, as listed below.	2000 level or higher. — ment see the 2012/2013 Calendar, Part 4, p. 91. List III: Scie
Requirements fo	and c. At least one of the a Note: For complete Lists I, II, and II Courses will be satisfied via t 12 courses for the Computer S the Computer Science Maj	above eight courses must be at the 2 III for the General Liberal Education Requirer the major requirements listed below. Science major, as listed below. Ijor: in Computer Science and one requir	2000 level or higher. — ment see the 2012/2013 Calendar, Part 4, p. 91. List III: Scie
Requirements for A minimum of 12	and c. At least one of the a Note: For complete Lists I, II, and II Courses will be satisfied via t 12 courses for the Computer S r the Computer Science Maj ourses, including 11 courses in	above eight courses must be at the 2 III for the General Liberal Education Requirer the major requirements listed below. Science major, as listed below. ijor: in Computer Science and one requir crete Structures	2000 level or higher. — ment see the 2012/2013 Calendar, Part 4, p. 91. List III: Scie
Requirements for A minimum of 12	and c. At least one of the a Note: For complete Lists I, II, and In Courses will be satisfied via to 12 courses for the Computer S r the Computer Science Maj ourses, including 11 courses in Computer Science 1820 - Disc	above eight courses must be at the 2 III for the General Liberal Education Requirer the major requirements listed below. Science major, as listed below. ijor: in Computer Science and one requir crete Structures ctical Software Development	2000 level or higher. — ment see the 2012/2013 Calendar, Part 4, p. 91. List III: Scie
Requirements fe A minimum of 12 1. 2.	and c. At least one of the a Note: For complete Lists I, II, and In Courses will be satisfied via to 12 courses for the Computer S r the Computer Science Majourses, including 11 courses in Computer Science 1820 - Disc Computer Science 2720 - Prace	above eight courses must be at the 2 III for the General Liberal Education Requirer the major requirements listed below. Science major, as listed below. ijor: in Computer Science and one requir crete Structures ctical Software Development nputer Architecture	2000 level or higher. — ment see the 2012/2013 Calendar, Part 4, p. 91. List III: Scie

- 6-11. Six additional 3000/4000-level Computer Science courses, at least one of which must be a regularly offered 4000-level course (excluding Computer Science 4850 - Topics in Computer Science, Computer Science 4980 - Applied Studies, and Computer Science 4990 - Independent Study).
 - 1.

2._____

3. _____

4._____

5. _____

(4000 level) 6.

One of the additional 3000-level courses may be replaced by a course from the following list:

Physics 3900 - Intermediate Experimental Physics (Series) (Digital Electronics)

Any 3000/4000-level Mathematics course

Required cognate:

12. Mathematics 2000 - Mathematical Concepts

Note: Not more than eight courses may be taken at the 0100/1000 level for credit toward the degree. Language courses are offered in the 0100-1990 range. Only the first course in the range counts toward this limit in the language subjects of French, German, Greek, Japanese, Latin and Spanish. Only one of Economics 1010 and 1012 will be counted toward this limit. Only one of Biology 1010 and 1020 will be counted toward this limit. Only one of Geography 1000 and Geography 1200 will be counted toward this limit.

Not more than two Independent Study courses may be taken for credit toward the degree.

Students may find that their diploma courses may overlap in content some course offerings in the Computer Science program. However, the offerings of the Department of Mathematics and Computer Science will often differ in focus and emphasis from diploma course offerings that bear superficially similar course descriptions. Students who have reservations about apparent duplication of offerings of Computer Science electives studied in their diploma programs are encouraged to pursue other elective offerings from the Department.

The curriculum for the post-diploma B.Sc. in Computer Science is designed to offer complementary training in Computer Science to students with previous technical training. In approving the college diploma, the Department is implicitly acknowledging that students have completed the equivalent of Computer Science 1620, Computer Science 2610, and Computer Science 2620 as part of their diploma program.

Students will be expected to have a working knowledge of the programming languages used by the Department in the delivery of Computer Science 1620 and Computer Science 2620. A student without this background will be expected to remedy any programming language deficiencies.

Sample Sequencing Plan

Shown below is a sample sequence of courses for your degree. If you follow this plan, you should be able to graduate in two years, provided you complete five courses per semester. This is just one example of how you could complete your major and degree requirements; you may find that a different sequence works as well as this one.

Year 1, Fall	Year 1, Spr
Computer Science 1820	Computer Scie
Computer Science 2720	Computer Scie
Computer Science 3000 level	Computer Scie
GLER course (List I)	Mathematics 2
GLER course (List II)	GLER course (L
Year 2, Fall	Year 2, Spi

Computer Science 3740 Computer Science 3000/4000 level Computer Science 3000/4000 level GLER course (List I) GLER course (List II)

ring

ence 3615 ence 3620 ence 3000 level 2000 (required cognate) List I)

ring

Computer Science 4000 level Computer Science 3000/4000 level GLER course (List I) GLER course (List II) GLER course (List II)

Note: The required Mathematics cognate should be taken as early as possible (in Year One, if course scheduling permits), to derive maximum benefit from the course for the remainder of the program.

Terms Used

GLER course: A course that could count toward the General Liberal Education Requirement. You may use courses in your major towards this 12-course requirement. See the 2012/2013 University of Lethbridge Calendar, Part 4 - Academic Regulations (p. 91) for complete information.

Elective: A course that you may choose freely from all those available and applicable to your program. Use courses inside or outside your major, bearing in mind any restrictions that may apply (e.g., a maximum of 20 courses from any one department).

Cognate: A course from a related discipline deemed to complement the chosen area of study and to encompass knowledge and skills essential to that area.



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