Degree Checklists_

FSE 2007	-08 Checklist ¹ BSc Deg	gree					
Computer S	Computer Science Requirements Credit Co						
1000-level	CSE1020 3.0 CSE1030 3.0 CSE1019 3.0 MATH1090 3.0 MATH1300 3.0 MATH1310 3.0	9 9					
2000-level	CSE2001 3.0 CSE2011 3.0 CSE2021 4.0 CSE2031 3.0	13					
3000-level	One course from each area: Theory CSE3101 3 0 Software CSE3311 3.0	6					
	Systems CSE3221 3.0 Applications CSE34 3.0	6					
	Two more courses CSE33.0 CSE33.0	6					
Faculty Rec	<u>uuirements</u>						
General Edu	ucation Courses:	12					
6 credits fro	om: BIOL1010 6.0 PHYS1010 6.0 PHYS1410 6.0 (CHEM1000 3.0 + CHEM1001 3.0) (EATS1010 3.0 + EATS1011 3.0)	6					

Additional courses as required for an overall total of 66 SC credits within the credit total.

¹ A minimum cumulative grade point average of 4.0 over all courses is required to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

This program includes a Language Proficiency component and a mandatory full time Study Abroad component (minimum one term / with 9 credits per term), plus an optional summer study, research, or internship abroad. Language Proficiency: Students must meet a language proficiency requirement in order to undertake the required exchange term. Proficiency is assessed by York International for all students who apply for a study period abroad, and the same will apply to iBSc students. If a student does not meet the language proficiency they will be required either to postpone the exchange or to choose an exchange experience to a region where they do have the language proficiency.

Computer S	Computer Science Requirements Credit C							
1000-level	CSE1020 3.0 MATH1090 3.0	CSE1030 3.0 MATH1300 3.0	CSE10 [.] MATH1	19 3.0 310 3.0	MATH1025	3.0	9 12	
2000-level	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE202	21 4.0	CSE2031 3	8.0	13 3	
3000-level	CSE3000 3.0 plu	CSE3000 3.0 plus						
	Theory CSE3 Systems CSE	3101 3.0 S 3221 3.0 A	Software Application	CSE33 ns CSE	11 3.0 3401 3.0		6 6	
4000-level	Four courses	CSE4 CSE4	3.0	CSE4_ CSE4_	3.0)	6 6	

Other Requirements

General education and elective courses with an international content or perspective (chosen in consultation with an advisor to ensure appropriate international content)

Language courses to prepare students for international placements 6 credits from: BIOL1010 6.0 PHYS1010 6.0 PHYS1410 6.0 (CHEM1000 3.0 + CHEM1001 3.0) (EATS1010 3.0 + EATS1011 3.0) Other Honours Subject (if applicable) and Other Courses Including 1. additional 3000- and 4000-level credits for an overall total of 42 2. additional SC credits for an overall total of 90

Minimum total credits 120

18

12

6

¹ A minimum cumulative grade point average of 5.0 over all courses is required to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

BSc Honours BSc Honours Double Major Degree BSc Honours Major/Minor (CSE Major) Degree

Computer Science Requirements Credit Cou							ount	
1000-level	CSE1020 3.0 MATH1090 3.0	CSE1030 3.0 MATH1300 3.0	CSE1019 3.0 MATH1310 3.0				9 9	
2000-level	CSE2001 3.0 MATH2030 3.0	CSE202	21 4.0	CSE203	31 3.0	13 3		
3000-level	CSE3000 3.0 pl	CSE3000 3.0 plus						
	Theory CSE Systems CSE	3101 3.0S3221 3.0A	oftware pplicatior	CSE337 ns CSE3	11 3.0 3401 3.0		6 6	
4000-level	Four courses	CSE4 CSE4	3.0 3.0	CSE4 CSE4		3.0 3.0	6 6	
Faculty Req	uirements ²							
General Edu	ication Courses						12	
6 credits fro	m:							
	BIOL1010 6.0 PHYS1010 6.0 PHYS1410 6.0 (CHEM1000 3.0 + CHEM1001 3.0) (EATS1010 3.0 + EATS1011 3.0)						6	
Other Honor	urs Subject (if a	oplicable) and Oth	ner Cours	<u>ses</u>				
Including	1. non-CSE/non	-MATH credits for	an overal	I total of	30	-6.40		

additional 3000- and 4000-level credits for an overall total of 42
 additional SC credits for an overall total of 90

 $^{^{1}}$ A minimum cumulative grade point average of 5.0 over all courses is required to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

 $^{^2}$ The other major may include additional general education and 1000-level SC requirements.

BSc Honours BSc Honours Double Major Degree BSc Honours Major/Minor (CSE Major) Degree Intelligent Systems Stream

Computer Science Requirements Credit Count						
1000-level	CSE1020 3.0 MATH1090 3.0	CSE1030 3.0 MATH1300 3.0	CSE1019 3.0 MATH1310 3.0		9 9	
2000-level	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031 3.0	0 13 3	
3000-level	CSE3000 3.0 plu	IS			3	
	Theory CSE3 Systems CSE	101 3.0 So 3221 3.0 Ap	oftware CSE33 oplications CSE CSE	11 3.0 3401 3.0 3402 3.0	6 6 3	
4000-level	Three courses:	CSE4081 6.0 CSE4421 3.0 or	CSE4401 3.0 o CSE4422 3.0	r CSE4402 3.	0 9 3	
Faculty Req	uirements ²					
General Edu	ucation Courses:				12	
6 credits from: BIOL1010 6.0 PHYS1010 6.0 PHYS1410 6.0 (CHEM1000 3.0 + CHEM1001 3.0) (EATS1010 3.0 + EATS1011 3.0)					11 3.0) 6	
Other Honours Subject (if applicable) and Other Courses Including 1. non-CSE/non-MATH credits for an overall total of 30 2. additional 3000- and 4000-level credits for an overall total of 42 3. additional SC credits for an overall total of 90						

¹ A minimum cumulative grade point average of 5.0 over all courses is required to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

 $^{^2}$ The other major may include additional general education and 1000-level SC requirements.

BSc Honours BSc Honours Double Major Degree BSc Honours Major/Minor (CSE Major) Degree Interactive Systems Stream

Computer S	cience Red	quirem	<u>ents</u>			Credit Count	
1000-level	CSE1020 MATH109	CSE1020 3.0 CSE1030 3.0 CSE1019 3.0 MATH1090 3.0 MATH1300 3.0 MATH1310 3.0					
2000-level	CSE2001 MATH203	3.0 0 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031 3	.0 13 3	
3000-level	CSE3000	3.0 plu	S			3	
	Theory Systems	CSE3 CSE3	101 3.0 221 3.0	Software CSE33 Applications CSE CSE	311 3.0 53401 3.0 53461 3.0	6 6 3	
4000-level	Four courses: CSE4082 6.0 and three of CSE4431 3.0 CSE4441 3.0 CSE4461 3.0 CSE4471 3.0						
Faculty Req	uirements	2					
General Edu	ication Co	urses:				12	
6 credits fro	m:		5111/040404				
	BIOL101 (CHEM1	0 6.0 000 3.0	PHYS1010 6. + CHEM1001 3	0 PHYS14106. 3.0) (EATS1010	0 3.0 + EATS10)11 3.0) 6	
Other Honor	urs Subjec	t (if ap	plicable) and O	ther Courses			
Including	1. non-CSE/non-MATH credits for an overall total of 30 2. additional 3000- and 4000-level credits for an overall total of 42 3. additional SC credits for an overall total of 90						

¹ A minimum cumulative grade point average of 5.0 over all courses is required to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

 $^{^2}$ The other major may include additional general education and 1000-level SC requirements.

FSE 2007-08 Checklist

BSc Honours BSc Honours Double Major Degree BSc Honours Major/Minor (CSE Major) Degree Communication Networks Stream

Computer S	Computer Science Requirements Credi							
1000-level	CSE1020 MATH109	3.0 90 3.0	CSE1030 3.0 MATH1300 3.0	CSE1019 3.0 MATH1310 3.0)	9 9		
2000-level	CSE2001 MATH203	3.0 30 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031 3.	0 13 3		
3000-level	CSE3000	SE3000 3.0 plus						
	Theory Systems	CSE3 CSE3 CSE3	101 3.0 5 221 3.0 7 213 3.0	Software CSE33 Applications CSI CSI	311 3.0 E3401 3.0 E3451 4.0	6 6 7		
4000-level	Three cou	irses:	CSE4084 6.0	CSE4213 3.0	CSE4214 3.	0 12		
Faculty Requirements ²								
General Edu	ucation Co	urses:				12		

6 credits from: BIOL1010 6.0 PHYS1010 6.0 PHYS1410 6.0

6

(CHEM1000 3.0 + CHEM1001 3.0) (EATS1010 3.0 + EATS1011 3.0)

Other Honours Subject (if applicable) and Other Courses

Including 1. non-CSE/non-MATH credits for an overall total of 30 2. additional 3000- and 4000-level credits for an overall total of 42 3. additional SC credits for an overall total of 90

¹ A minimum cumulative grade point average of 5.0 over all courses is required to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

² The other major may include additional general education and 1000-level SC requirements.

		BSc Honour	s Major/Mino	r (CSE Minor) D	egree	
Computer S	Computer Science (Minor) Requirements Credit Co					
1000-level	CSE1020 3.0	CSE1030 3.0	CSE1019 3.0		9	
2000-level	CSE2001 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031 3.0	13	
At least 9 additional CSE credits at the 3000 or 4000 levels.						
Faculty Re	Faculty Requirements ²					
General Ed	ucation Courses	:			12	
6 credits fr	om:					
	BIOL1010 6.0 (CHEM1000 3	PHYS1010 6.0 0 + CHEM1001 3) PHYS1410 6. .0) (EATS1010	.0 3.0 + EATS1011 3.0]) 6	
Other Hond Including	Other Honours Subject and Other Courses Including 1. additional 3000- and 4000-level credits for an overall total of 42 2. additional SC credits for an overall total of 90					

¹ A minimum cumulative grade point average of 5.0 over all courses is required to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

 $^{^2}$ The other major may include additional general education and 1000-level SC requirements.

FSE 2007	-08 Checklist ¹	BSc Specialised Honours I	Degree
Computer S	cience Requirements	Cred	it Count
1000-level:	CSE1020 3.0 CSE1030 MATH1025 3.0 MATH109	3.0 CSE 1019 3.0 0 3.0 MATH1300 3.0	9 12
2000-level:	CSE2001 3.0 CSE2011 MATH2030 3.0	3.0 CSE2021 4.0 CSE2031 3.0	13 3
3000-level	CSE3000 3.0 plus		3
	TheoryCSE3101 3.0SystemsCSE3221 3.0	Software CSE3311 3.0 Applications CSE3401 3.0	6 6
	One more course: CSE3	3.0	3
4000-level:	CSE4101 3.0 or CSE4111 CSE4 3.0 CS	3.0 or CSE4115 3.0 E4 3.0 CSE4 3.0	3 9
Two course	r s (3000- or 4000-level): CSE3.0	CSE3.0	6
Faculty Rec	<u>uirements</u>		
General Edu	ucation Courses:		12
6 credits fro	m: BIOL1010 6. PHYS10 (CHEM1000 3.0 + CHEM1	10 6.0 PHYS1410 6.0 001 3.0) (EATS1010 3.0 + EATS1011 3.4	0) 6
Additional of 1. Mo 2. Mo	courses satisfying re SC credits (as required for re non-CSE, non-MATH credi	an overall total of 90) ts (as required for an overall total of 30)	

3. More 3000- or 4000-level credits (as required for an overall total of 42)

¹ A minimum cumulative grade point average of 5.0 over all courses is required to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

BSc Specialised Honours Degree Software Development Stream

Computer Science Requirements Credit Cou						
1000-level:	CSE1020 3.0 MATH1025 3.0	CSE1030 3.0 MATH1090 3.0	CSE 1019 MATH1300	3.0) 3.0 MATH1310	9 3.0 12	
2000-level:	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021 4	4.0 CSE2031 3	.0 13 3	
3000-level	CSE3000 3.0 plu Theory CSE3 Systems CSE3	s 101 3.0 Si 3221 3.0 Aj	oftware oplications	CSE3311 3.0 CSE3401 3.0	3 6 6	
	CSE3341 3.0	CSE3421 3.0)	CSE3461 3.0	9	
4000-level:	CSE4101 3.0 or CSE4090 6.0 Two more course	CSE4111 3.0 or es: CSE4312 3.0	CSE4115 3 CSE4313 3	3.0 3.0	3 6 6	
Faculty Req	uirements					
General Edu	ication Courses:				12	
6 credits fro	m: BIOL1010 6.0 (CHEM1000 3.0	BIOL1410 6.0) + CHEM1001 3.(PHYS101)) (EATS10	0 6.0 PHYS14 010 3.0 + EATS10	10 6.0 011 3.0) 6	

Additional courses satisfying
1. More SC credits (as required for an overall total of 90)
2. More non-CSE, non-MATH credits (as required for an overall total of 30)
3. More 3000- or 4000-level credits (as required for an overall total of 42)

 $^{^{1}}$ A minimum cumulative grade point average of 5.0 over all courses is required to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

BSc Specialised Honours Degree Intelligent Systems Stream

Computer Se	cience Red	quirem	<u>ents</u>				Credit Co	<u>unt</u>
1000-level:	CSE1020 MATH102	3.0 5 3.0	CSE1030 3.0 MATH1090 3.0)	CSE 1019 3.0 MATH1300 3.0	MATH1310	3.0	9 12
2000-level:	CSE2001 MATH203	3.0 0 3.0	CSE2011 3.0		CSE2021 4.0	CSE2031 3	.0	13 3
3000-level	CSE3000	3.0 plu	S					3
	Theory Systems	CSE3 CSE3	101 3.0 3221 3.0	So Ap	oftware CSE33 oplications CSE	11 3.0 3401 3.0		6 6
One more courses: CSE3402 3.0								3
4000-level:	CSE4101 CSE4081 CSE4401	3.0 or 6.0 3.0 or	CSE4111 3.0) or	CSE4115 3.0 CSE4421 3.0 o	r CSE4422 3	3.0	3 6 6
One course:	CSE3_	3.	0 or CSE4	_3	.0			3
Faculty Req	uirements							
General Edu	cation Co	urses:						12
6 credits fro	m: BIOL101 (CHEM1	0 6.0 000 3.0	PHYS1010 6) + CHEM1001	.0 3.0	PHYS1410 6.0)) (EATS1010 3) 8.0 + EATS1(011 3.0)	6
Additional courses satisfying 1. More SC credits (as required for an overall total of 90) 2. More non-CSE, non-MATH credits (as required for an overall total of 30) 3. More 3000, or 4000 level credits (as required for an overall total of 40)								

¹ A minimum cumulative grade point average of 5.0 over all courses is required to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

BSc Specialised Honours Degree Interactive Systems Stream

Computer Science Requirements Credit Count								
1000-level:	CSE1020 3.0 MATH1025 3.0	CSE1030 3.0 MATH1090 3.0	CSE 1019 3.0 MATH1300 3.0	MATH1310	9 3.0 12			
2000-level:	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031 3	.0 13 3			
3000-level	CSE3000 3.0 plu:	S			3			
	Theory CSE3 Systems CSE3	Theory CSE3101 3.0 Software CSE3311 3.0 Systems CSE3221 3.0 Applications CSE3401 3.0 CSE3461 3.0 CSE3461 3.0						
4000-level:	CSE4101 3.0 or CSE4082 6.0 and CSE4431 3.0 or	CSE4111 3.0 or three of CSE4441 3.0 or	CSE4115 3.0 CSE4461 3.0)) or CSE4	3 6 471 3.0 9			
Faculty Req	uirements							
General Edu	cation Courses:				12			
6 credits from: BIOL1010 6.0 PHYS1010 6.0 PHYS1410 6.0 (CHEM1000 3.0 + CHEM1001 3.0) (EATS1010 3.0 + EATS1011 3.0)								
Additional courses satisfying 1. More SC credits (as required for an overall total of 90) 2. More non-CSE, non-MATH credits (as required for an overall total of 30)								

3. More 3000- or 4000-level credits (as required for an overall total of 42)

¹ A minimum cumulative grade point average of 5.0 over all courses is required to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

BSc Specialised Honours Degree Communication Networks Stream

Computer Science Requirements Credit Count							<u>unt</u>		
1000-level:	CSE1020 MATH102	3.0 5 3.0	CSE1030 3 MATH1090	.0 3.0	CSE 1019 MATH1300	3.0) 3.0	MATH1310	3.0	9 12
2000-level:	CSE2001 MATH203	3.0 0 3.0	CSE2011 3	.0	CSE2021 4	4.0	CSE2031 3	.0	13 3
3000-level	CSE3000	3.0 plu	S						3
	Theory Systems	CSE3 CSE3 CSE3	101 3.0 221 3.0 213 3.0	So Aj	oftware CS oplications	SE33 CSE CSE	11 3.0 3401 3.0 3451 4.0		6 6 7
4000-level:	CSE4101 CSE4084	3.0 or 6.0	CSE4111 3 CSE4213 3	.0 or .0	CSE4115 : CSE4214 :	3.0 3.0			3 12
Faculty Req	uirements								
General Edu	ication Co	urses:						-	12
6 credits from: BIOL1010 6.0 PHYS1010 6.0 PHYS1410 6.0 (CHEM1000 3.0 + CHEM1001 3.0) (EATS1010 3.0 + EATS1011 3.0))11 3.0)	6		
Additional c	Additional courses satisfying								

More SC credits (as required for an overall total of 90)
 More non-CSE, non-MATH credits (as required for an overall total of 30)
 More 3000- or 4000-level credits (as required for an overall total of 42)

¹ A minimum cumulative grade point average of 5.0 over all courses is required to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

BASc Specialised Honours Degree Computer Engineering Stream

				Credit C	ount
1000-level:	ENG1000 6.0	CSE1020 3.0	CSE1030 3.0	CSE 1019 3.0	15
	MATH1025 3.0	MATH1090 3.0	MATH1013 3.0	MATH1014 3.0	12
	EATS1010 3.0	CHEM1000 3.0	PHYS1010 6.0		12
2000-level:	ENG2000 6.0	CSE2001 3.0	CSE2011 3.0	CSE2021 4.0	16
	CSE2031 3.0	MATH2030 3.0	MATH2015 3.0	PHYS2020 3.0	12
	ENVS2150 3.0				3
				0050040.0.0	
3000-level:	ENG3000 3.0	CSE3101 3.0	CSE3201 4.0	CSE3213 3.0	13
	CSE3215 4.0	CSE3221 3.0	CSE3311 3.0	CSE3451 4.0	14
	PHY 53000 3.0	PH153100 3.0			0
4000-level:	ENG4000 6.0	CSE4201 3.0	CSE4214 3.0	CSE4312 3.0	15
	four more course	s chosen from:			
	CSE4210 3.0	CSE4211 3.0	CSE4213 3.0	CSE4214 3.0	
	CSE4215 3.0	CSE4313 3.0	CSE4352 3.0	CSE4421 3.0	
	CSE4422 3.0	CSE4431 3.0	CSE4441 3.0	CSE4471 3.0	12
One course ((3000- or 4000-lev	rel)			
	CSE	3.0			3
General Edu	ication Courses:		<u> </u>		12
6 credits from	n: BIOL1010 6.0	CHEM1001 3.0	CHEM2011 3.	0 EATS1011 3.0	
	PHYS1070 3.0	PHYS2010 3.0	PHYS2040 3.0) PHYS2060 3.0	6

¹ A minimum cumulative grade point average of 5.0 over all courses is required to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

BSc Specialised Honours Degree Computer Security (Effective Fall 2007)

Computer S	Credit C	Count				
1000-level:	CSE1020 3.0	CSE1030 3.0	CSE 1019 3.0		9	
	MATH1025 3.0 MATH1131 3.0	MATH1090 3.0 MATH1300 3.0	MATH1310 3.0		9	
2000-level:	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031 3.0	13 3	
3000-level:	CSE 3000 3.0 CSE3311 3.0	CSE3101 3.0 CSE3421 3.0	CSE3213 3.0 CSE3481 3.0	CSE3221 3.0	12 9	
4000-level:	CSE/MATH4161 CSE4481 4.0	3.0	CSE4213 3.0 CSE4482 3.0	CSE4413 3.0	9 7	
Other Program Requirements: AK/AS/PHIL20753.0 or SC/STS3500 3.0 3						
Faculty Req	uirements					
General Edu	ucation Courses:	2			12	
6 credits fro	im:					
	BIOL1010 6.0 (CHEM1000 3.0	PHYS1010 6.0) + CHEM1001 3.0	PHYS1410 6.0 0) (EATS1010 3) 3.0 + EATS1011 3.0)	6	
Additional courses satisfying 1. More SC credits (as required for an overall total of 90) 2. More non-CSE, non-MATH, non-ITEC credits (as required for an overall total of 30) 3. More 3000- or 4000-level credits (as required for an overall total of 42)						
Note 1: SC/MATH 1190 3.00 must be taken if the student has not passed 12U Geometry and Discrete Math. Note 2: AS/SOSC 2312 9.00 or AS/SOSC 2340 9.00 are highly recommended as fulfilling, in part, the General Education requirements						

¹ A minimum cumulative grade point average of 5.0 over all courses is required to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

 $^{^2}$ For students in the FSE PHIL2075 3.0 may count as a General Education course.

Faculty o	Faculty of Arts 2007-08 Checklist1BA Degr								
Computer S	Computer Science Requirements Credit Count								
1000-level	CSE1020 3.0 MATH1090 3.	CSE1030 3.0) MATH1300 3.0	CSE1019 3 0 MATH1310	.0 3.0		9 9			
2000-level	CSE2001 3.0	CSE2011 3.0	CSE2021 4	.0 CSE2031	3.0 1	13			
3000-level	One course fro	om each area:							
	Theory CS	E3101 3 0	Software	CSE3311 3.0		6			
	Systems CS	E3221 3.0	Applications	CSE343	.0	6			
	Two more cou	rses CSE3	3.0	CSE3 3	.0	6			
Faculty Rec	uirements								
General edu	ucation								
1000-leve	e <i>l:</i> NA	rs	6.0			6			
	One of HU	MA	_9.0 or SO	SC	9.0	9			
2000-leve	<i>el:</i>								
	One of HU (Must be HUN 1000-level HU	MA A if a 1000-level S MA was chosen.)	9.0 or SO SOSC was chos	SC sen, or SOSC if	9.0 a	9			
Electives in	ncluding 18	credits outside CS	Ε						

 $^{^{1}}A$ cumulative grade point average of 4.0 over all courses is required to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

This program includes a Language Proficiency component requiring at least 18 credits in a modern language offered by York University, including the Advanced I university-level course in the chosen language and at least 12 credits of internationally-oriented courses chosen outside the major. Moreover, there is a mandatory full time Study Abroad component (minimum one term / with 9 credits per term), plus an optional summer study, research, or internship abroad. Language Proficiency: Students must meet a language proficiency requirement in order to undertake the required exchange term. Proficiency is assessed by York International for all students who apply for a study period abroad, and the same will apply to iBA students. If a student does not meet the language proficiency they will be required either to postpone the exchange or to choose an exchange experience to a region where they do have the language proficiency.

Computer S	cience Re	quirem	<u>ents</u>					Credit	Count
1000-level 2000-level	CSE1020 MATH109 CSE2001 MATH203	3.0 0 3.0 3.0 0 3.0	CSE1030 3.0 MATH1300 3. CSE2011 3.0	CS 0 M/ CS	SE10 ATH1 SE20	19 3.0 310 3.0 21 4.0	MATH1025 CSE2031 3	3.0 .0	9 12 13 3
3000-level	CSE3000 Theory Systems	3.0 plu CSE3 CSE3	s 101 3.0 221 3.0	Softw Appli	vare catio	CSE ns CSE	3311 3.0 3401 3.0		3 6 6
4000-level	Four cours	ses	CSE4 CSE4	3.0 3.0		CSE4_ CSE4_	3.0 3.0		6 6
Faculty Req	uirements								
General edu 1000-leve	<i>ication</i> el: One of	NATS HUMA	۹	_6.0 _9.0	or	SOSC_		9.0	6 9
2000-leve	e <i>l:</i> One of (Must be I 1000-leve	HUMA IUMA i I HUMA	A f a 1000-level \$ A was chosen.)	_ 9.0 SOSC	or was	SOSC_ chosen,	or SOSC if a	9.0 1	9
Additional o	c <i>ourses</i> 2 1. More 4	4000-le	vel credits (as	require	ed for	an over	all total of 18	3)	

2. More 3000- or 4000-level credits (as required for an overall total of 36)

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/ASrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

 $^{^2}$ It is recommended that students in Honours programs take a linear algebra course such as MATH1025 3.0 among their electives.

Faculty of	f Arts 2007-08	BAH	lonours Major D)egree	
Computer S	Science Require	ments		<u>Credi</u>	t Count
1000-level	CSE1020 3.0 MATH1090 3.0	CSE1030 3.0 MATH1300 3.0	CSE1019 3.0 MATH1310 3.	0	9 9
2000-level	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031 3.0	13 3
3000-level	CSE3000 3.0 p	us			3
	Theory CSE Systems CSE	3101 3.0 S 3221 3.0 A	oftware CSE3	311 3.0 E3401 3.0	6 6
4000-level	Four courses	CSE43.0 CSE43.0	0 CSE4 0 CSE4	3.0 3.0	6 6
Faculty Rec	uirements				
General edu 1000-leve	<i>ucation</i> e/: NAT One of HUM	S6 IA9	.0 9.0 or SOSC	C 9.0	6 9
2000-levé	e <i>l:</i> One of HUN (Must be HUMA 1000-level HUN	IA9 if a 1000-level SC IA was chosen.)	9.0 or SOSO ISC was choser	9.0 n, or SOSC if a	9
Additional of	courses ²				

- More 4000-level credits (as required for an overall total of 18)
 More 3000- or 4000-level credits (as required for an overall total of 36)
 More non-CSE, non-MATH credits (as required for an overall total of 30)

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/ASrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

 $^{^2}$ It is recommended that students in Honours programs take a linear algebra course such as MATH1025 3.0 among their electives.

BA Specialised Honours Major Software Development Stream

Computer S	Computer Science Requirements Credit Co								
1000-level	CSE1020 3.0CSE1030 3.0CSE1019 3.0MATH1090 3.0MATH1300 3.0MATH1310 3.0	9 9							
2000-level	CSE2001 3.0 CSE2011 3.0 CSE2021 4.0 CSE2031 3.0 MATH2030 3.0	13 3							
3000-level	CSE3000 3.0 plusTheoryCSE3101 3.0SystemsCSE3221 3.0SystemsCSE3221 3.0	3 6 6							
	Three more courses:CSE3341 3.0CSE3421 3.0CSE3461 3.0	9							
4000-level:	One of CSE4101 3.0 or CSE4111 3.0 or CSE4115 3.0 CSE4090 6.0 CSE4312 3.0 CSE4313	3 6 6							
Faculty Req	<u>uirements</u>								
General edu 1000-leve	<i>ucation</i> %: NATS6.0 One of HUMA9.0 or SOSC9.0	6 9							
2000-leve	ol: One of HUMA9.0 or SOSC9.0 (Must be HUMA if a 1000-level SOSC was chosen, or SOSC if a 1000-level HUMA was chosen.)	9							
Additional o	 courses² More 4000-level credits (as required for an overall total of 18) More 3000- or 4000-level credits (as required for an overall total of 36))							

3. More non-CSE, non-MATH credits (as required for an overall total of 30)

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/ASrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

 $^{^2}$ It is recommended that students in Honours programs take a linear algebra course such as MATH1025 3.0 among their electives.

BA Honours Major Intelligent Systems Stream

(including Major/Minor and Double Major v	where CSE is the Major
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Computer Science Requirements Credi							
1000-level	CSE1020 3.0 MATH1090 3.0	CSE1030 3.0 MATH1300 3.0	CSE1019 3.0 MATH1310 3.0		9 9		
2000-level	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031 3.0	13 3		
3000-level	CSE3000 3.0 plu	IS			3		
	Theory CSE3 Systems CSE3	101 3.0 221 3.0	Software CSE33 Applications CSE CSE	11 3.0 3401 3.0 3402 3.0	6 6 3		
4000-level	CSE4081 6.0 CSE4401 3.0 or CSE4421 3.0 or	CSE4402 3.0 CSE4422 3.0	002		6 3 3		

Faculty Requirements

General educ 1000-level	<i>cation</i> One of	NATS HUMA	_ 6.0 _ 9.0	or	SOSC	_ 9.0	6 9
2000-level.							
	One of	HUMA	9.0	or	SOSC	9.0	9
	(Must be H 1000-leve	HUMA if a 1000-level : I HUMA was chosen.)	SOSC	was	chosen, or SOSC if a		

Additional courses²

- 4.
- More 4000-level credits (as required for an overall total of 18) More 3000- or 4000-level credits (as required for an overall total of 36) 5.
- More non-CSE, non-MATH credits (as required for an overall total of 30) 6.

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/ASrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

 $^{^{2}}$ It is recommended that students in Honours programs take a linear algebra course such as MATH1025 3.0 among their electives.

BA Honours Major Interactive Systems Stream

				-	
(including	Maior/Minor	and Double	Major where	CSF is the	Maior)

Computer S	Computer Science Requirements Credit Court							
1000-level	CSE1020 MATH109	3.0 0 3.0	CSE1030 3.0 MATH1300 3.0	CSE1019 3.0 MATH1310 3.0)	9 9		
2000-level	CSE2001 MATH203	3.0 0 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031 3	.0 13 3		
3000-level	CSE3000	3.0 plu	IS			3		
4000-level	Theory Systems CSE4082 Three of C	CSE3 CSE3 6.0 SE443	101 3.0 221 3.0 31 3.0 or CSE44	Software CSE33 Applications CSE CSE 41 3.0 or CSE446	311 3.0 E3401 3.0 E3461 3.0 1 3.0 or CSE4	6 6 3 6 4471 3.0 9		

Faculty Requirements

General educ	cation						
1000-level:		NATS	6.0				6
	One of	HUMA	_ 9.0	or	SOSC	_ 9.0	9
2000-level:							
	One of	HUMA	9.0	or	SOSC	9.0	9
	(Must be H	HUMA if a 1000-level S	SOSC v	vas	chosen, or SOSC if a		
	1000-level	I HUMA was chosen.)					
Additional co	ourses ²						

- 1. More 4000-level credits (as required for an overall total of 18)
- 2. More 3000- or 4000-level credits (as required for an overall total of 36)
- 3. More non-CSE, non-MATH credits (as required for an overall total of 30)

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/ASrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

 $^{^2}$ It is recommended that students in Honours programs take a linear algebra course such as MATH1025 3.0 among their electives.

Faculty of Arts 2007-08 Checklist¹ BA Honours Major

Communication Networks Stream

(including Major/Minor and Double Major where CSE is the Major)

Computer S	Computer Science Requirements Credit Count							
1000-level	CSE1020 MATH109	3.0 0 3.0	CSE1030 3.0 MATH1300 3.0	CSE10 MATH)19 3.0 1310 3.0			9 9
2000-level	CSE2001 MATH203	3.0 0 3.0	CSE2011 3.0	CSE20	021 4.0	CSE2031	3.0	13 3
3000-level	CSE3000	CSE3000 3.0 plus						3
	Theory Systems	CSE3 CSE3 CSE3	101 3.0 221 3.0 213 3.0	Software Applicatio	CSE33 Ins CSE CSE	11 3.0 3401 3.0 3451 4.0		6 6 7
4000-level	CSE4084	6.0	CSE4213 3.0	CSE42	14 3.0			12
Faculty Requirements General education 1000-level: NATS6.0 6 One of HUMA9.0 or SOSC9.0 9								
2000-leve	l: One of (Must be H 1000-leve	HUMA Iuma i I Huma	A f a 1000-level S A was chosen.)	.9.0 or OSC was	SOSC_ chosen,	or SOSC if	9.0 a	9

Additional courses²

- 4. More 4000-level credits (as required for an overall total of 18)
- 5. More 3000- or 4000-level credits (as required for an overall total of 36)
- 6. More non-CSE, non-MATH credits (as required for an overall total of 30)

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/ASrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

 $^{^2}$ It is recommended that students in Honours programs take a linear algebra course such as MATH1025 3.0 among their electives.

Faculty of Arts 2007-08 Checklist ¹ BA Honours Minor Degree									
Computer Science Requ	Computer Science Requirements Credit Count								
1000-level CSE1020 3.	0 CSE1030 3.0	CSE1019 3.0		9					
2000-level CSE2001 3.	0 CSE2011 3.0	CSE2021 4.0	CSE2031 3.0	13					
At least 9 additional CSE	E credits at the 3000	or 4000 levels.		9					
Faculty Requirements	Faculty Requirements								
General education									
<i>1000-level:</i> N	IATS6	5.0		6					
One of H	IUMA	9.0 or SOSC	9.0	9					
2000-level:									
One of H	IUMA	9.0 or SOSC	9.0	9					
(Must de Hu 1000-level F	JIVIA IT & TUUU-level SC HTIMA was chosen)	JSC was chosen	, or SUSC If a						
Honours Major subject and other courses ²									
To satisfy requirements of the honours major, and upper-level requirements, namely,									
1.More 4000-l	evel credits (as requir	ed for an overall	total of 18)						

2. More 3000- or 4000-level credits (as required for an overall total of 36)

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/ASrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

 $^{^2}$ It is recommended that students in Honours programs take a linear algebra course such as MATH1025 3.0 among their electives.

Faculty of	f Arts 2007-08	Checklist ¹	BA Speciali	ised Honou	urs Degree	ì
Computer S	cience Requiren	nents			Credit Count	t
1000-level:	CSE1020 3.0 MATH1025 3.0	CSE1030 3.0 MATH1090 3.0	CSE 1019 3.0 MATH1300 3.0	MATH1310	9 3.0 12) 2
2000-level:	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031 3.0	0 13	3 3
3000-level	CSE3000 3.0 plu	JS			3	3
	Theory CSE3 Systems CSE3	3101 3.0 3 3221 3.0 4	Software CSE33 Applications CSE	11 3.0 3401 3.0	6	5
	One more cours	e: CSE3	_ 3.0		3	3
4000-level:	CSE4101 3.0 0 CSE4	or CSE4111 3.0 (3.0 CSE4	or CSE4115 3.0 3.0 C	SE4	_ 3.0	3 7
Two course	e <i>s (3000- or 4000-</i> CSE	<i>level):</i> 3.0 (CSE3.0	C	e	5
Faculty Requ	<u>iirements</u>					
General edu 1000-leve	ucation el: NATS	66	o.0		e	5
	One of HUM	A	9.0 or SOSC_		_ 9.0)
2000-leve	e <i>l:</i> One of HUM (Must be HUMA 1000-level HUM	A if a 1000-level SC A was chosen.)	9.0 or SOSC_ DSC was chosen,	or SOSC if a	_ 9.0 9)
Additional of	courses					

More 4000-level credits (as required for a total of 18)
 More non-CSE, non-MATH credits (as required for an overall total of 30)

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/ASrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

BA Specialised Honours Degree Intelligent Systems Stream

Computer S	cience Requir	ements		<u>(</u>	Credit Count			
1000-level:	CSE1020 3.0 MATH1025 3.	CSE1030 3.0 0 MATH1090 3.0	CSE1019 3.0 MATH1300 3.0	MATH1310 3	9 3.0 12			
2000-level:	CSE2001 3.0 MATH2030 3.	CSE2011 3.0 0	CSE2021 4.0	CSE2031 3.0) 13 3			
3000-level	CSE3000 3.0	CSE3000 3.0 plus						
	Theory CS Systems CS	E3101 3.0 S E3221 3.0 A	oftware CSE33 pplications CSE CSE	11 3.0 3401 3.0 3402 3.0`	6 6 3			
4000-level:	CSE4101 3.0 or CSE4111 3.0 or CSE4115 3.0 CSE4081 6.0 CSE4401 3.0 or CSE4402 3.0; CSE4421 3.0 or CSE4422 3.0							
One course	(3000- or 4000 CSE3 3.0	9- <i>level):</i>) or CSE4 3.0			3			
Faculty Requi	irements							
General edu 1000-leve	<i>ication</i> /: NA One of HL	TS6. MA9	0 .0 or SOSC_		9.0 6			
2000-lavel								
	One of HL (Must be HUN 1000-level HL	MA9 IA if a 1000-level SO MA was chosen.)	.0 or SOSC_ SC was chosen,	or SOSC if a	9.0 9			
Additional courses								

1. More 4000-level credits (as required for a total of 18)

2. More non-CSE, non-MATH credits (as required for an overall total of 30)

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/ASrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

BA Specialised Honours Degree Interactive Systems Stream

Computer Science Requirements Credit Count								
1000-level:	CSE1020 3.0 MATH1025 3.0	CSE1030 3.0 MATH1090 3.0	CSE1019 3.0 MATH1300 3.0	MATH1310 3.0	9 12			
2000-level:	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031 3.0	13 3			
3000-level	CSE3000 3.0 plus							
	Theory CSE3 Systems CSE3	101 3.0 S 221 3.0 A	oftware CSE33 pplications CSE CSE	11 3.0 3401 3.0 3461 3.0	6 6 3			
4000-level:	CSE4101 3.0 or CSE4082 6.0 Three of CSE443	r CSE4111 3.0 o 31 3.0 or CSE444	r CSE4115 3.0 I 3.0 or CSE4461	1 3.0 or CSE4471 3.0	3 6 9			
Faculty Requ	Faculty Requirements							

General education

1000-level	: One of	NATS HUMA	6.0 9.0	or	SOSC	9.0	6 9
2000-level	ŀ						
	One of	HUMA	9.0	or	SOSC	9.0	9
	(Must be H	HUMA if a 1000-l	evel SOSC	was	chosen, or SOS	SC if a	
	1000-leve	I HUMA was cho	sen.)				
Additional co	ourses						

- More 4000-level credits (as required for a total of 18)
 More non-CSE, non-MATH credits (as required for an overall total of 30)

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/ASrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

BA Specialised Honours Degree Communication Networks Stream

Computer S	Computer Science Requirements Credit Count								
1000-level:	CSE1020 MATH102	3.0 5 3.0	CSE1030 3.0 MATH1090 3.0	CS MA	SE 10 ATH1	19 3.0 300 3.0	MATH1310	3.0	9 12
2000-level:	CSE2001 MATH203	3.0 0 3.0	CSE2011 3.0	CS	SE202	21 4.0	CSE2031 3	.0	13 3
3000-level	CSE3000	SE3000 3.0 plus							3
	Theory Systems	CSE3 CSE3 CSE3	101 3.0 221 3.0 213 3.0	Softw Applie	vare catior	CSE33 ns CSE CSE	11 3.0 3401 3.0 3451 4.0		6 6 7
4000-level:	CSE4101 CSE4084	3.0 or 6.0	CSE4111 3.0 o CSE4213 3.0	r CS CS	SE41 [.] SE42 [.]	15 3.0 14 3.0			3 12
Faculty Requi	irements								
General edu 1000-leve	<i>ication</i> <i>I:</i> One of	NATS HUMA	6	5.0 9.0	or	SOSC_		9.0	6 9
2000-leve	<i>l:</i>								
	Must be HUMA if a 1000-level SOSC was chosen or SOSC if a 1000-level HUMA was chosen								
	One of	HUMA	۹	9.0	or	SOSC_		_ 9.0	9

Additional courses

More 4000-level credits (as required for a total of 18)
 More non-CSE, non-MATH credits (as required for an overall total of 30)

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/ASrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

BA Honours Double Major Degree BA Honours Major/Minor (CSE Major)

Computer S	cience Re	quirem	ents					<u>Cred</u>	it Count
1000-level	CSE1020 MATH109	3.0 0 3.0	CSE1030 MATH130	3.0 00 3.0	CSE10 MATH1	19 3.0 310 3.0			9 9
2000-level	CSE2001 MATH203	3.0 0 3.0	CSE2011	3.0	CSE20	21 4.0	CSE2031	3.0	13 3
3000-level	CSE3000 3.0 plus						3		
	Theory Systems	CSE3 CSE3	101 3.0 221 3.0	S A	oftware oplication	CSE33 ns CSE	11 3.0 3401 3.0		6 6
4000-level	Four cour	ses	CSE4 CSE4	3.0 3.0	1	CSE4_ CSE4_	3.0 3.0		6 6
Faculty Req	uirements								
General edu	ication	NATS		6	ſ				6

1000-1010		NAIJ	0.0				0
	One of	HUMA	9.0	or	SOSC	_ 9.0	9
2000-leve	el:						
	One of	HUMA	9.0	or	SOSC	_ 9.0	9
	(Must be	HUMA if a 1000-lev	el SOSC	was	chosen, or SOSC if a		
	1000-leve	el HUMA was chose	en.)				

Other Honours Major (Minor) Subject and Other Courses²

Courses required to satisfy requirements of the other honours major (minor), upper-level and breadth requirements, namely,

- 1. More 4000-level credits (as required for an overall total of 18)
- 2. More 3000- or 4000-level credits (as required for an overall total of 36)
- 3. More non-CSE, non-MATH credits (as required for an overall total of 30)

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/ASrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

 $^{^2}$ It is recommended that students in Honours programs take a linear algebra course such as MATH1025 3.0 among their electives.

Faculty of Arts 2007-08 Checklist¹ BA Specialised Honours Degree Computer Security (Effective Fall 2007)

Computer S	cience Requirem	ents			Credit Co	unt
1000-level:	CSE1020 3.0	CSE1030 3.0				6
	Or ²					
	ITEC1620 3.0	ITEC1630 3.0	ITEC2620 3.0			9
	Plus					_
	CSE 1019 3.0	MATH1025 3.0	MATH1090 3.0			9
	MATH1131 3.0	MATH1300 3.0	MATH1310 3.0			9
2000-level:	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031	3.0	13 3
3000-level:	CSE3000.3.0	CSE3101 3.0	CSF3213 3.0	CSE3221	3.0	12
	CSE3311 3.0	CSE3421 3.0 or	ITEC3220 3.0	CSE3481	3.0	9
4000-level:	CSE/MATH4161	3.0	CSE4213 3.0	CSE4413	3.0	9
	CSE4481 4.0	CSE4482 3.0				7
Other Progr	am Requirement	c.				
other rogr	AK/AS/PHII 2075	5.3.0 or SC/STS3!	500.3.0			3
						0
Faculty Req	<u>uirements</u>					
			0			4
TUUU-Ieve	0. NAIS	0. 0	0 or $SOSC$		0 0	0
		· /	.0 0 3030 <u>-</u>		7.0	/
2000-leve	<i>l:</i>					
	One of ³ HUM	۹ 9	.0 or SOSC_		9.0	9
	(Must be HUMA if a 1000-level SOSC was chosen, or SOSC if a					
1000-level HUMA was chosen.)						
Additional c	ourses					

1. More 4000-level credits (as required for a total of 18)

2. More non-CSE, non-MATH credits (as required for an overall total of 30)

Minimum total credits 120

Note: MATH 1190 3.0 must be taken if the student has not passed 12U Geometry and Discrete Math.

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/ASrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

² Either sequence of courses at the 1000-level meets prerequisites for 2000-level CSE courses, provided a C+ grade is obtained in either CSE 1030 3.0 or ITEC 2620 3.0.

³ AS/SOSC 2312 9.0 or AS/SOSC 2340 9.0 are highly recommended as fulfilling, in part, General Education requirements.

Atkinson	Atkinson Faculty 2007-08 Checklist ¹ BSc Degree								
Computer S	Computer Science Requirements Credit Count								
1000-level	CSE1020 3.0 MATH1090 3.0	CSE1030 3.0 MATH1300 3.0	CSE1019 3.0 MATH1310 3	.0	9 9				
2000-level	CSE2001 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031 3	3.0 13				
3000-level	One course from Theory CSE3 Systems CSE32 Two more course	each area: 101 3 0 S 221 3.0 A s CSE3	oftware C pplications C _ 3.0 C	SE3311 3.0 SE34 3. SE3 3.	6 0 6 0 6				
Faculty Rec	uirements								
<i>General edu</i> 1000-level:	<i>ication</i> AK/MATH OR AK	/MODR at the 10	00 level		6				
	HUMA	6.0	SOSC	6.0	12				
	NATS: The Natur	al Science require	ement must be	e met by comp	leting 6 credits				
	chosen from: BIOL1010 6.0 (EATS1010 3.0 a	(CHEM1000 3 nd EATS1011 3.0	8.0 and CHEM1)) PHYS1010	1001 3.0)) 6.0 PHYS	61410 6.0 6				
Required co	ourses outside the	e major: At least d	6 additional cre	edits in science	e (courses cross				
listed as SC)	at the 2000 level of	or above.			6				

¹ A cumulative grade point average of 4.0 over all courses is required to proceed in each year of the program and to graduate. In addition, the Departmental general prerequisite cumulative grade point average over all CSE courses must be met to proceed in the program.

	-	BSc Specialised Honours Degr	ee
Computer	Science Requirements	Credit Co	<u>unt</u>
1000-level:	CSE1019 3.0 CSE1020 3.0 MATH1025 3.0 MATH1300 3	CSE1030 3.0 CSE1019 3.0 .0 MATH1310 3.0 MATH1090 3.0	9 12
2000-level:	CSE2001 3.0 CSE2011 3.0 MATH2030 3.0	CSE2021 4.0 CSE2031 3.0	13 3
3000-level	CSE3000 3.0 plus		3
	Theory CSE3101 3.0 Systems CSE3221 3.0	Software CSE3311 3.0 Applications CSE3401 3.0	6 6
	One more course: CSE3	3.0	3
4000-level:	CSE4101 3.0 or CSE4111 3. CSE4 3.0 CSE4	0 or CSE4115 3.0 4 3.0 CSE4 3.0	3 9
Two cours	es (3000- or 4000-level): CSE 3.0	CSE3.0	6
Faculty Re	quirements		
General ed 1000-level:	AK/MATH OR AK/MODR at the	1000 level	6
	HUMA6.0	SOSC6.0	12
	NATS: The Natural Science rec	uirement must be met by completing 6 cred	lits
	chosen from: BIOL1010 6.0 BIOL1410 (EATS1010 3.0 and EATS1011	6.0 (CHEM1000 3.0 and CHEM1001 3.0 3.0) PHYS1010 6.0 PHYS1410 6.0) 6
Other requ	irements:		
1. 3	3 credits at the 3000-level or abov	e (as required for a total of 39)	3
3. (b credits in science (courses cross	s listed as SC) at the 2000-level or above	6

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/AKrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

BSc Specialised Honours Degree Intelligent Systems Stream

Computer Science Requirements Credit Count						
1000-level:	CSE1019 3.0 MATH1025 3.0	CSE1020 3.0 MATH1300 3.0	CSE1030 3 MATH1310	8.0 CSE10193 3.0 MATH1090	8.0 9 3.0 12	
2000-level:	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021 4	.0 CSE2031 3	8.0 13 3	
3000-level	CSE3000 3.0 plu Theory CSE3 Systems CSE3	s 101 3.0 S 221 3.0 A	oftware pplications	CSE3311 3.0 CSE3401 3.0 CSE3402 3.0	3 6 6 3	
4000-level:	CSE4101 3.0 or CSE4081 6.0 CSE4401 3.0 or	CSE4111 3.0 o CSE4402 3.0;	r CSE4115 3 CSE4421 3	3.0 3.0 or CSE4422 (3 6 3.0 6	
One course (3000- or 4000-level): CSE 3.0 3						
Faculty Req	uirements					
General edu 1000-level:	<i>ication</i> AK/MATH OR Ak	MODR at the 10	00 level		6	
	HUMA	6.0	SOSC	6.0	12	
	NATS: The Natur	al Science requir	ement must	be met by compl	eting	
	6 credits chosen BIOL1010 6.0 (EATS1010 3.0 a	from: BIOL1410 6.0 nd EATS1011 3.0	(CHEM1)) PHYS10	000 3.0 and CHI 10 6.0 PHYS	EM1001 3.0) 51410 6.0 6	
Other requir	ements: credits at the 3000)-level or above (a	as required fo	or a total of 39)	3	
2. m	ore non-CSE, non	-MATH credits (a	s required for	r a total of 30)		
3. 6	credits in science	(courses cross lis	ted as SC) a	t the 2000-level (or above 6	

Minimum total credits

120

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/AKrules/academic_standing.htm. In addition, the Departmental general prerequisite cumulative grade point average over all CSE courses must be met to proceed in the program.

BSc Specialised Honours Degree Interactive Systems Stream

Computer S	<u>cience Requirem</u>	ents		Credit C	count
1000-level:	CSE1019 3.0 MATH1025 3.0	CSE1020 3.0 MATH1300 3.0	CSE1030 3.0 MATH1310 3.0	CSE1019 3.0 D MATH1090 3.0	9 12
2000-level:	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031 3.0	13 3
3000-level	CSE3000 3.0 plu Theory CSE3 Systems CSE3	s 101 3.0 221 3.0	Software CS Applications CS CS	E3311 3.0 E3401 3.0 E3461 3.0	3 6 6 3
<i>4000-level:</i> CSE4101 3.0 or CSE4111 3.0 or CSE4115 3.0 CSE4082 6.0 Three of CSE4431 3.0 or CSE4441 3.0 or CSE4461 3.0 or CSE4471 3.0					
Faculty Req	<u>uirements</u>				
General edu 1000-level:	<i>ICATION</i> AK/MATH OR AN	K/MODR at the ⁻	1000 level		6
	HUMA	6.0	SOSC	6.0	12
	NATS: The Natu chosen from: BIOL1010 6.0 (EATS1010 3.0 a	ral Science req (CHEM1000 und EATS1011 3	uirement must be 3.0 and CHEM10 3.0) PHYS1010	e met by completing 6 001 3.0) 6.0 PHYS1410 6.0	credits 6
Other requir	ements				
1. 3 2. m	credits at the 3000 ore non-CSE, nor	D-level or above MATH credits	(as required for a (as required for a	total of 39) total of 30)	3

3. 6 credits in science (courses cross listed as SC) at the 2000-level or above 6

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/AKrules/academic_standing.htm. In addition, the Departmental general prerequisite cumulative grade point average over all CSE courses must be met to proceed in the program.

BSc Specialised Honours Degree Communication Networks Stream

Computer S	cience Requirem	ents			Credit Co	<u>unt</u>
1000-level:	CSE1020 3.0 MATH1025 3.0	CSE1030 3.0 MATH1090 3.0	CSE 1019 MATH1300	3.0 03.0 MAT	H1310 3.0	9 12
2000-level:	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021 4	4.0 CSE	2031 3.0	13 3
3000-level	CSE3000 3.0 plu: Theory CSE3 Systems CSE3 CSE3	s 101 3.0 221 3.0 213 3.0	Software Applications	CSE3311 CSE3401 CSE3451	3.0 3.0 4.0	3 6 6 7
4000-level:	CSE4101 3.0 or CSE4084 6.0 CSE4213 3.0	CSE4111 3.0 CSE4214 3.0	or CSE4115	3.0		3 6 6
Faculty Req	uirements					
General edu 1000-level:	<i>ication</i> AK/MATH OR AK	/MODR at the 1	000 level			6
	HUMA	6.0	SOSC	0	5.0	12
	NATS: The Natur chosen from: BIOL1010 6.0 (EATS1010 3.0 a	al Science requi (CHEM1000 nd EATS1011 3	irement must 3.0 and CHE .0) PHYS10	be met by M1001 3.0 010 6.0	completing 6 cred) PHYS1410 6.0	its 6
Other requir	ements:					
1. 3 2 m	credits at the 3000	-level or above	(as required f	or a total of	f 39) 30)	3
3. 6	credits in science	(courses cross	isted as SC) a	at the 2000	-level or above	6

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/AKrules/academic_standing.htm. .In addition, the Departmental general prerequisite cumulative grade point average over all CSE courses must be met to proceed in the program.

BSc Specialised Honours Degree Computer Security Program

<u>Computer S</u> 1000-level:	Computer Science Requirements Credit C 1000-level: CSE1020 3.0 CSE1030 3.0					<u>unt</u> 6
	ITEC1620 3.0 IT Plus	EC1630 3.0 ITEC	2620 3.0			9
	CSE 1019 3.0 MATH1131 3.0	MATH1025 3.0 MATH1300 3.0	MATH1090 3.0 MATH1310 3.0			9 9
2000-level:	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031	3.0	13 3
3000-level:	CSE3000 3.0 CSE3311 3.0	CSE3101 3.0 CSE3421 3.0 or	CSE3213 3.0 ITEC3220 3.0	CSE3221 CSE3481	3.0 3.0	12 9
4000-level:	CSE/MATH4161 CSE4481 4.0	3.0 CSE4213 3.0 CSE4482 3.0	0 CSE4413 3.0	1		9 7
Other Progr	am Requirements AK/AS/PHIL2075	s: 5 3.0 Or SC/STS3!	500 3.0			3
Faculty Req	uirements					
1000-level:	AK/MATH OR AM	(MODR at the 10	00 level			6
	HUMA	6.0	SOSC	6.0		12
	NATS: The Natu	ral Science requir	ement must be	met by co	mpleting 6 cr	edits
	BIOL1010 6.0 (EATS1010 3.0 a	(CHEM1000 3 and EATS1011 3.0	3.0 and CHEM10) PHYS1010 6	01 3.0) .0 PHY	′S1410 6.0	6
Required co	At least 6 addition at the 2000 level	e major : nal credits in scier or above.	nce (courses cros	s listed wit	h SC)	6
Minimum total credits 120 Note 1: MATH 1190 3.0 must be taken if the student has not passed 12U Geometry and Discrete Math.						

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/AKrules/academic_standing.htm. .In addition, the Departmental general prerequisite cumulative grade point average over all CSE courses must be met to proceed in the program. Wherever specified ITEC courses are used to satisfy degree requirements in this program they will also be used in the general prerequisite GPA calculation.

 $^{^2}$ Either sequence of courses meets prerequisites for 2000-level CSE courses, provided a C+ grade is obtained in either CSE 1030 3.0 or ITEC 2620 3.0.

Atkinson	Faculty 2007-	08 Checklist ¹			BA Degree
Computer S	Science Requirem	nents			Credit Count
1000-level	CSE1020 3.0 MATH1090 3.0	CSE1030 3.0 MATH1300 3.0	CSE1019 3 MATH1310	8.0 9.3.0	9 9
2000-level	CSE2001 3.0	CSE2011 3.0	CSE2021 4	.0 CSE2031	3.0 13
3000-level <u>Faculty Rec</u>	One course from Theory CSE3 Systems CSE3 Two more course juirements	n each area: 3101 3 0 S 3221 3.0 A es CSE3	oftware pplications _ 3.0	CSE3311 3.0 CSE34 3 CSE3 3	6 0 6 0 6
General edi	ucation				
1000-level:	AK/MATH or AK	/MODR at the 100	0 level		6
	HUMA	6.0	SOSC	6.0	12
	NATS	6.0			6

Required courses outside the Major: At least 18 credits must be outside the major.

Upper level requirements: Of the required 90 credits for the degree students must complete at least 24 credits at the 3000 level or above.

¹ A cumulative grade point average of 4.0 over all courses is required to proceed in each year of the program and to graduate. In addition, the Departmental general prerequisite cumulative grade point average over all CSE courses must be met to proceed in the program.

Atkinson Faculty 2007-08 Checklist¹ BA Specialised Honours Degree

Computer S	cience Requirem	<u>ents</u>			Credit Count
1000-level:	CSE1020 3.0 MATH1025 3.0	CSE1030 3.0 MATH1300 3.0	CSE1019 3.0 MATH1310 3.0	MATH1090	9 3.0 12
2000-level:	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031 3	.0 13 3
3000-level	CSE3000 3.0 plu Theory CSE3 Systems CSE3	s 101 3.0 S 221 3.0 A	oftware CSE pplications CSE	3311 3.0 3401 3.0	3 6 6
	One more course	:: CSE3	3.0		3
4000-level:	CSE4101 3.0 or CSE43	CSE4111 3.0 o 3.0 CSE4	r CSE4115 3.0 3.0 C	SE4	33.09
Two course	<i>s (3000- or 4000-i</i> CSE	<i>level):</i> 3.0 C	SE3.0)	6
<u>Faculty Req</u> <i>General edu</i>	<u>uirements</u> <i>ication</i>				
1000-level:	AK/MATH or AK/	MODR at the 100	0 level		6
	HUMA	6.0	SOSC	6.0	12
	NATS	6.0			6

Required courses outside the major:

At least 18 credits outside the major must be at the 3000 level or above.
 Of the total credits required towards the degree, 30 must be outside CSE and MATH

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/AKrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

BA Specialised Honours Degree Intelligent Systems Stream

Computer Science Requirements Credit Count						
1000-level:	CSE1020 3.0 MATH1025 3.0	CSE1030 3.0 MATH1300 3.0	CSE1019 MATH131	3.0 0 3.0 N	/IATH1090	9 3.0 12
2000-level:	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021	4.0 (CSE2031 3.	0 13 3
3000-level	CSE3000 3.0 plu Theory CSE3 Systems CSE3	s 101 3.0 221 3.0	Software Applications	CSE33 CSE34 CSE34	311 3.0 401 3.0 402 3.0	3 6 6 3
4000-level:	CSE4101 3.0 or CSE4081 6.0 Two courses:	CSE4111 3.0 CSE4401 3.0 c CSE4421 3.0 c	or CSE4115 or CSE4402 3 or CSE4422 3	3.0 3.0 and 3.0		3 6 6
One course (3000- or 4000-level):						
Faculty Req General edu	uirements Ication					
1000-level:	AK/MATH or AK/ HUMA NATS	MODR at the 10 6.0 6.0	000 level SOSC		6.0	6 12 6

*Required courses outside the major:*1. At least 18 credits outside the major must be at the 3000 level or above.
2. Of the total credits required towards the degree, 30 must be outside CSE and MATH

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/AKrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

BA Specialised Honours Degree Interactive Systems Stream

Computer S	Computer Science Requirements Credit C						
1000-level:	CSE1020 3.0 MATH1025 3.0	CSE1030 3.0 MATH1300 3.	CSE1019 0 MATH131	3.0 0 3.0 MATH1090	9 3.0 12		
2000-level:	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021	4.0 CSE2031 3	.0 13 3		
3000-level	CSE3000 3.0 plu Theory CSE3 Systems CSE3	s 101 3.0 221 3.0	Software Applications	CSE3311 3.0 CSE3401 3.0 CSE3461 3.0	3 6 6 3		
4000-level:	CSE4101 3.0 or CSE4082 6.0	CSE4111 3.0	0 or CSE4115	3.0	3 6		
I hree course	es from CSE4431 3.0 C	SE4441 3.0 C	SE4461 3.0	CSE4471 3.0	9		
Faculty Requirements General education							
1000-level:	AK/MATH or AK/ HUMA NATS	MODR at the 1 6.0 6.0	000 level SOSC	6.0	6 12 6		

Required courses outside the major:

- 1. At least 18 credits outside the major must be at the 3000 level or above.
- 2. Of the total credits required towards the degree, 30 must be outside CSE and MATH

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/AKrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

BA Specialised Honours Degree Communication Networks Stream

Computer S	Computer Science Requirements Credit						<u>unt</u>
1000-level:	CSE1020 3.0 MATH1025 3.0	CSE1030 3.0 MATH1090 3.0	CSE 1019 MATH130	3.0 0 3.0	MATH1310	3.0	9 12
2000-level:	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021	4.0	CSE2031 3	.0	13 3
3000-level	CSE3000 3.0 plu Theory CSE3 Systems CSE3 CSE3	is 101 3.0 S 221 3.0 A 213 3.0	oftware pplications	CSE3 CSE3 CSE3	3311 3.0 3401 3.0 3451 4.0		3 6 6 7
4000-level:	CSE4101 3.0 or CSE4084 6.0 CSE4213 3.0	CSE4111 3.0 or CSE4214 3.0	CSE4115	3.0			3 6 6
Faculty Req General edu	<u>uirements</u> Ication						
1000-level:	AK/MATH or AK/ HUMA NATS	MODR at the 100 6.0 6.0	0 level SOSC		6.0		6 12 6

Required courses outside the major:

At least 18 credits outside the major must be at the 3000 level or above.
 Of the total credits required towards the degree, 30 must be outside CSE and MATH

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/AKrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

BA Specialised Honours Degree Software Development Stream

1000-level	CSE1020 3.0 MATH1090 3.0	CSE1030 3.0 MATH1300 3.0	CSE1019) MATH131	3.0 0 3.0	9 9
2000-level	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021	4.0 CSE2031 3.0	13 3
3000-level	CSE3000 3.0 plu Theory CSE3 Systems CSE3	s 101 3.0 3221 3.0	Software Applications	CSE3311 3.0 CSE3401 3.0	3 6 6
	CSE3341 3.0	CSE3421	3.0	CSE3461 3.0	9
4000-level:	One of CSE4101 CSE4090 6.0 CSE4312 3.0	3.0 or CSE411 CSE4313	1 3.0 or CSE4	4115 3.0	3 6 6
Faculty Req General edu	<u>uirements</u> <i>ication</i>				
1000-level:	AK/MATH or AK/ HUMA NATS	MODR at the 10 6.0 6.0	000 level SOSC	6.0	6 12 6

Required courses outside the major:

At least 18 credits outside the major must be at the 3000 level or above.
 Of the total credits required towards the degree, 30 must be outside CSE and MATH

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/AKrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

BA Specialised Honours Degree Computer Security Program

Computer S	cience Requirem	<u>C</u>	redit Count		
1000-level:	CSE1020 3.0 C 0r ²	SE1030 3.0			6
	ITEC1620 3.0 IT Plus	EC1630 3.0 ITE	22620 3.0		9
	CSE 1019 3.0 MATH1131 3.0	MATH1025 3.0 MATH1300 3.0	MATH1090 3.0 MATH1310 3.0		9 9
2000-level:	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031 3.0	13 3
3000-level:	CSE3000 3.0 CSE3311 3.0	CSE3101 3.0 CSE3421 3.0 or	CSE3213 3.0 ITEC3220 3.0	CSE3221 3.0 CSE3481 3.0	12 9
4000-level:	CSE/MATH4161 CSE4481 4.0	3.0 CSE4213 3. CSE4482 3.0	0 CSE4413 3.0	I	9 7
Other Progr	<i>am Requirement</i> AK/AS/PHIL2075	f s: 5 3.0 Or SC/STS3	500 3.0		3
Faculty Req	uirements				
General edu	ication				
1000-level:	AK/MATH1700 6	.0 Or AK/MODR a	at the 1000 level		6
	HUMA	6.0	SOSC	6.0	12
	INALS	0.0			0

Required courses outside the major:

At least 18 credits outside the major must be at the 3000 level or above

Note 1: MATH 1190 3.0 must be taken if the student has not passed 12U Geometry and Discrete Math.

¹ Students should meet the honours progression requirements as published in http://calendars.registrar.yorku.ca/calendars/2007-2008/AKrules/academic_standing.htm. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

 $^{^2}$ Either sequence of courses meets prerequisites for 2000-level CSE courses, provided a C+ grade is obtained in either CSE 1030 3.0 or ITEC 2620 3.0.