Degree Checklists

FSE 2006-07 Checklist¹

BSc Degree

Computer Science Requirements Credit Cour						
1000-level	CSE1020 3.0 MATH1090 3.0	CSE1030 3.0 MATH1300 3.0	CSE1019 3 MATH1310		9 9	
2000-level	CSE2001 3.0	CSE2011 3.0	CSE2021 4	I.0 CSE2031	3.0 13	
3000-level	One course from Theory CSE3	ouon aroun	oftware	CSE3311 3.0	6	
	Systems CSE3	221 3.0 A	pplications	CSE34	_ 3.0 6	
	Two more course	es CSE3	3.0	CSE3	3.0 6	
Faculty Req	<u>uirements</u>					
General Education Courses:					12	
6 credits from		BIOL1410 6.0 0 + CHEM1001 3.0				

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

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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.

FSE 2006-07 Checklist²

International BSc (iBSc) Honours

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	cience Requirem	<u>ients</u>				Credit Count
1000-level	CSE1020 3.0	CSE1030 3.0	CSE101	9 3.0		9
		MATH1300 3.0		310 3.0	MATH1025	
2000-level		CSE2011 3.0	CSE202	1 4.0	CSE2031 3	
	MATH2030 3.0					3
3000-level	CSE3002 1.0 plu	is one course fron	n each are	a belov	V	1
		3101 3.0 S				6
	Systems CSE3	3221 3.0 A	pplications	s CSE	3401 3.0	6
	,					
4000-level	Four courses	CSE4	3.0	CSE4_	3.0	6
		CSE4	3.0	CSE4_	3.0	6
Faculty Red	uirements ³ ucation and electi	ivo courses with	an intern	otional	content or	norchostivo
	onsultation with ar					
(CHOSCH III C	onsultation with a	radvisor to crisary	, арргорії	ate inte	mational coi	18
	ourses to prepar					
6 credits from:	BIOL1010 6.0					
Othor Cours	•	+ CHEM1001 3.0)	(EA151010	1 3.U + E	A151011 3.0)	6
Other Cours		0 and 4000 laval	aradita for	on our	rall total of A	2
Including		0- and 4000-level credits for an over			raii total 01 4	- Z
	z. additional SC	credits for all over	aii lulai 01	9 U		

Minimum total credits 120

² A minimum cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program and to graduate. If the second major is BIOL a minimum cumulative grade-point-average of 6.0 over all SC courses is also required. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

 $^{^3}$ The other major may include additional general education and 1000-level SC requirements.

FSE 2006-07 Checklist⁴

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

Computer S	<u>Computer Science Requirements</u> <u>Credit Count</u>						
1000-level	CSE1020 3.0 MATH1090 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	CSE3002 1.0 plu Theory CSE3 Systems CSE3	3101 3.0 S	oftware CSI opplications CSI		1 6 6		
4000-level	Four courses	CSE4 CSE4	· · · · · · · · ·	3.0	6 6		
Faculty Rec	<u>juirements</u> 5						
General Education Courses: 1.							
6 credits from: BIOL1010 6.0 BIOL1410 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. 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

Minimum total credits 120

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⁴ A minimum cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program and to graduate. If the second major is BIOL a minimum cumulative grade-point-average of 6.0 over all SC courses is also required. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

 $^{^{5}}$ The other major may include additional general education and 1000-level SC requirements.

FSE 2006-07 Checklist⁶

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

Intelligent Systems Stream

Computer S	<u>Computer Science Requirements</u> <u>Credit Count</u>						
1000-level	CSE1020 3.0 MATH1090 3.0						9
2000-level	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021	4.0	CSE2031 3		3
3000-level 4000-level	CSE3002 1.0 plu Theory CSE3 Systems CSE3 Three courses:	3101 3.0 S		CSE3 CSE3	3401 3.0 3402 3.0	3.0	1 6 6 3 9 3
Faculty Rec	<u>juirements</u> 7						
General Edu	ucation Courses:				_	_ 12	2
6 credits from: BIOL1010 6.0 BIOL1410 6.0 PHYS1010 6.0 PHYS1410 6.0 (CHEM1000 3.0 + CHEM1001 3.0) (EATS1010 3.0 + EATS1011 3.0) 6						6	
Other Hono Including	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						

Minimum total credits 120

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⁶ A minimum cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program and to graduate. If the second major is BIOL a minimum cumulative grade-point-average of 6.0 over all SC courses is also required. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

 $^{^{7}}$ The other major may include additional general education and 1000-level SC requirements.

FSE 2006-07 Checklist⁸

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

Interactive Systems Stream

<u>Computer Science Requirements</u> <u>Credit Count</u>							
1000-level	CSE1020 3.0 MATH1090 3.0	CSE1030 3.0 MATH1300 3.0	CSE1019 3 MATH1310		9 9		
2000-level	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021	4.0 CSE2031	3.0 13		
3000-level	CSE3002 1.0 plu Theory CSE3 Systems CSE3	101 3.0 S		CSE3311 3.0 CSE3401 3.0 CSE3461 3.0	1 6 6 3		
1000 10101	Tour ocursos.	CSE4082 6.0			6		
And three of	CSE4431 3.0 C	SE4441 3.0 CSE	4461 3.0 C	SE4471 3.0	9		
Faculty Rec	uirements ⁹						
General Education Courses:							
6 credits from: BIOL1010 6.0 BIOL1410 6.0 PHYS1010 6.0 PHYS1410 6.0 (CHEM1000 3.0 + CHEM1001 3.0) (EATS1010 3.0 + EATS1011 3.0)							
Other Hono	Other Honours Subject (if applicable) and Other Courses						

1. non-CSE/non-MATH credits for an overall total of 30 Including

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

Minimum total credits 120

⁸ A minimum cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program and to graduate. If the second major is BIOL a minimum cumulative grade-point-average of 6.0 over all SC courses is also required. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

⁹ The other major may include additional general education and 1000-level SC requirements.

FSE 2006-07 Checklist¹⁰

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

Communication Networks Stream

<u>Computer Science Requirements</u> <u>Credit Cou</u>						
1000-level	CSE1020 3.0 MATH1090 3.0				9	
2000-level	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021	4.0 CSE2031	3.0 13	
3000-level	Theory CSE3 Systems CSE3	3101 3.0		CSE3311 3.0 CSE3401 3.0 CSE3451 3.0	1 6 6	
4000-level		72 10 0.0		0323101 0.0	Ü	
		CSE4084 6.0			6	
and		CSE4213 3.0	C	SE4214 3.0	6	
Faculty Rec	<u>uirements</u> 11					
General Edi	ucation Courses:				12	
6 credits from	m: BIOL1010 6.0 (CHEM1000 3.	BIOL1410 6.0 0 + CHEM1001 3				
Other Hono	urs Subject (if ag	pplicable) and Ot				

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

Minimum total credits

120

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¹⁰ A minimum cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program and to graduate. If the second major is BIOL a minimum cumulative grade-point-average of 6.0 over all SC courses is also required. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

¹¹ The other major may include additional general education and 1000-level SC requirements.

FSE 2006-07 Checklist¹²

BSc Honours Major/Minor (CSE Minor) Degree

Computer Science (Minor) Requirements Credit Count					
1000-level		CSE1030 3.0 MATH1300 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	Theory CSE3	plus one course 3101 3.0 S 3221 3.0 A	oftware CSI	E3311 3.0	1 6 6
4000-level	Four courses	CSE4	3.0 CSE4_	3.0	6
Faculty Rec	ıuirements ¹³				
General Ed	ucation Courses:				12
6 credits from				0 PHYS1410 6.0 3.0 + EATS1011 3.0)	6
Other Hono Including		Other Courses 0- and 4000-level credits for an over		erall total of 42	

Minimum total credits 120

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¹² A minimum cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program and to graduate. If the major is BIOL a minimum cumulative grade-point-average of 6.0 over all SC courses is also required. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

¹³ The other major may include additional general education and 1000-level SC requirements.

Computer S	cience Requirem	nents		9	Credit Count
1000-level:	CSE1020 3.0 MATH1025 3.0	CSE1030 3.0 MATH1090 3.0		MATH1310 3	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		us one course from 1101 3.0 S 1221 3.0 A	oftware CSE	3311 3.0	1 6 6
	Two more course CSE3	es: 3.0	SE33	0	6
4000-level:	CSE4101 3.0 o CSE4	r CSE4111 3.0 o 3.0		SE4	3.0 9
Two courses	(3000- or 4000-le CSE	evel) 3.0	:SE3.0	0	6
Faculty Red	<u>uirements</u>				
General Education Courses: 11					12
6 credits from	6 credits from: BIOL1010 6.0 BIOL1410 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)

 $^{^{14}}$ A minimum cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program and to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

FSE 2006-07 Checklist¹⁵ Intelligent Systems Stream

BSc Specialised Honours Degree

Computer S	Science Requirem	nents		<u>Computer Science Requirements</u> <u>Credit Count</u>						
1000-level:	CSE1020 3.0 MATH1025 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		us one course from 1101 3.0 S 3221 3.0 A	oftware CSE	3311 3.0	1 6 6					
Two more courses: CSE3402 3.0 CSE3 3.0										
	CSE4101 3.0 o CSE4081 6.0	r CSE4111 3.0 o	r CSE4115 3.0		3 6					
Two more co		or CSE4402.3.0	CSE4421 3 (or CSE4422 3.0	6					
One course	CSE33			J UI C3L4422 3.0	3					
Faculty Rec	<u>juirements</u>									
General Edu	ucation Courses:		<u> </u>		12					
6 credits from				O PHYS1410 6.0 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 credits (as required for an overall total of 30)

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

Minimum total credits 120

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

FSE 2006-07 Checklist¹⁶ Interactive Systems Stream

BSc Specialised Honours Degree

<u>Computer Science Requirements</u> <u>Credit Count</u>						
1000-level:	CSE1020 3.0 MATH1025 3.0	CSE1030 3.0 MATH1090 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 CSE3002 1.0 plus one course from each area below Theory CSE3101 3.0 Software CSE3311 3.0 Systems CSE3221 3.0 Applications CSE3401 3.0 Two more courses:						
	CSE3461 3.0	CSE3	3.0		6	
4000-level:	CSE4101 3.0 o CSE4082 6.0	r CSE4111 3.0 o	r CSE4115 3.0		3 6	
	0 CSE4441 3.0 C	SE4461 3.0 CSE	E4471 3.0		9	
Faculty Rec	<u>uirements</u>					
General Education Courses:					12	
6 credits from				O PHYS1410 6.0 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 credits (as required for an overall total of 30)
 3. More 3000- or 4000-level credits (as required for an overall total of 42)

Minimum total credits 120

¹⁶ A minimum cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program and to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

FSE 2006-07 Checklist¹⁷ Communication Networks Stream

BSc Specialised Honours Degree

Computer S	<u>Computer Science Requirements</u> <u>Credit Count</u>						
1000-level:	CSE1020 3.0 MATH1025 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	Theory CSE3 Systems CSE3	221 3.0 A	oftware CSE	3311 3.0	1 6 6		
	Two more course CSE3213 3.0)		6		
	CSE4101 3.0 o CSE4084 6.0	r CSE4111 3.0 o	r CSE4115 3.0		3 6		
and One course		CSE4214 3.0 0 or CSE43			6		
Faculty Req	<u>uirements</u>						
General Edu	ucation Courses:		· ·		12		
6 credits from: BIOL1010 6.0 BIOL1410 6.0 PHYS1010 6.0 PHYS1410 6.0 (CHEM1000 3.0 + CHEM1001 3.0) (EATS1010 3.0 + EATS1011 3.0) 6							
1. Mor 2. Mor	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)						

Minimum total credits 120

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¹⁷ A minimum cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program and to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

FSE 2006-07 Checklist BASc Specialised Honours Degree Computer Engineering Stream

1000-level:	ENG1000 6.0 MATH1025 3.0 EATS1010 3.0	CSE1020 3.0 MATH1090 3.0 CHEM1000 3.0	CSE1030 3.0 MATH1013 3.0 PHYS1010 6.0	Credit (CSE 1019 3.0 MATH1014 3.0	20unt 15 12 12
2000-level:	ENG2000 6.0 CSE2031 3.0 ENVS2150 3.0	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0 MATH2015 3.0	CSE2021 4.0 PHYS2020 3.0	16 12 3
3000-level:	ENG3000 3.0 CSE3215 4.0 PHYS3050 3.0	CSE3101 3.0 CSE3221 3.0 PHYS3150 3.0	CSE3201 4.0 CSE3311 3.0	CSE3213 3.0 CSE3451 4.0	13 14 6
4000-level:	ENG4000 6.0 four more course CSE4210 3.0 CSE4215 3.0 CSE4422 3.0	CSE4211 3.0 CSE4313 3.0	CSE4214 3.0 CSE4213 3.0 CSE4352 3.0 CSE4441 3.0		15 12
One course	(3000- or 4000-lev CSE				3
General Edu	ucation Courses:		_		12
6 credits from	n: BIOL1010 6.0 EATS1011 3.0 PHYS2060 3.0	PHYS1070 3.0			6

FSE 2006-07 Checklist Computer Security Program (Effective Fall 2007)

BSc Specialised Honours Degree

				Credit (<u>Count</u>
1000-level:	CSE1020 3.0 MATH1025 3.0	CSE1030 3.0 MATH1090 3.0	CSE 1019 3.0		9
	MATH1025 3.0 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:	CSE3002 1.0 CSE3311 3.0	CSE3101 3.0 CSE3421 3.0	CSE3213 3.0 CSE3481 3.0	CSE3221 3.0	10 9
4000-level:	CSE/MATH4161 CSE4481 4.0	3.0	CSE4213 3.0 CSE4482 3.0	CSE4413 3.0	9 7
	ntary studies: 20753.0 OR SC/S	TS3500 3.0			3
General Edu	ucation Courses:	18			12
6 credits from		BIOL1410 6.0 0 + CHEM1001 3.		0 PHYS1410 6.0 3.0 + EATS1011 3.0)	6

Additional elective credits, as required for an overall total of at least 120 credits, including at least 90 credits from science courses, at least 42 credits at the 3000 or higher level, and at least 30 credits which are not in computer science, or mathematics, or information technology (ITEC).

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.

Minimum total credits 120

¹⁸ For students in the FSE Faculty PHIL2075 3.0 may count as a General Education course.

Faculty	of Arts	2006-07	Checklist 19
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BA Degree

<u>Computer Science Requirements</u> <u>Credit Count</u>										
1000-level				CSE1030 3.0 CSE1019 3.0 MATH1310 3.0					9 9	
2000-level	CSE2001	3.0	CSE2011 3.0		CSE202	21 4.0	CSE203	31 3.0	13	
3000-level	One cour	se from	n each area:							
	Theory	CSE	3101 3 0	So	oftware	CS	E3311 3.0	0	6	
	Systems	CSE3	3221 3.0	Αį	oplication	s CS	E34	_ 3.0	6	
	Two more courses CSE3 3.0 CSE3 3.0								6	
Faculty Rec	uirements	<u>i</u>								
General edi 1000-leve		NATS	5	_ 6.0)				6	
	One of	HUM	A	_ 9.	0 or	SOSC_			9.0 9	
2000-leve			JMA if a 1000-le DSC if a 1000-le							
	One of	HUM	A	_ 9.	0 or	SOSC_			9.0 9	
Electives in	ncluding	18 cr	edits outside CS	SE						

Minimum total credits 90

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 $^{^{19}}$ 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.

Faculty of Arts 2006-07 Checklist²⁰

BA Honours Major Degree

Computer S	<u>Computer Science Requirements</u> <u>Credit Count</u>										
1000-level			CSE1030 MATH13						9 9		
2000-level	CSE2001 MATH203		CSE2011	3.0	CSE20	21 4.0	CSE2031	3.0	13 3		
3000-level	Theory	CSE3	is one cou 101 3.0 221 3.0	Sc	oftware	CSE	3311 3.0		1 6 6		
4000-level	Four cour	ses	CSE4 CSE4	3.0 3.0		CSE4_ CSE4_	3.0		6 6		
Faculty Rec	uirements	<u>i</u>									
General edu 1000-leve	el:					SOSC_		9.0	6 9		
2000-leve			MA if a 10 SC if a 10								
	One of	HUM	A	9.	0 or	SOSC		9.0	9		

Additional courses²¹

- 1. 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)

Minimum total credits 120

²⁰ A cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program. 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.

²¹ It is recommended that students in Honours programs take a linear algebra course such as MATH1025 3.0 among their electives.

Faculty of Arts 2006-07 Checklist²² Intelligent Systems Stream within a BA Honours Major Degree (including Major/Minor where CSE is the Major; and Double Major)

Computer Science Requirements Credit Count											
1000-level	CSE1020 MATH109		CSE1030 3.0 MATH1300 3.0		CSE10 MATH1						9 9
2000-level	CSE2001 MATH203		CSE2011 3.0		CSE20	21 4	4.0	CSE2031	3.0		13 3
3000-level	Theory	CSE3	s 101 3.0 221 3.0	So Ap		ns	CSE	3311 3.0 3401 3.0 3402 3.0			1 6 6 3
4000-level	Three cou	rses									
CSE4401 3.0	or CSE4	402 3.0	CSE4081 6.0); CSE4421 3.	1 0 0	r CSE4	422	2 3.0				6 6
Faculty Req	uirements										
General edu 1000-leve	l:		4			SC	OSC_			9.0	6 9
2000-leve	-		MA if a 1000-le SC if a 1000-le								
	One of	HUMA	A	9.0	or or	SC	DSC_			9.0	9
Additional c	ourses ²³										

- 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)

Minimum total credits 120

²² A cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program. 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.

 $^{^{23}}$ It is recommended that students in Honours programs take a linear algebra course such as MATH1025 3.0 among their electives.

Faculty of Arts 2006-07 Checklist²⁴ Interactive Systems Stream within a BA Honours Major Degree (including Major/Minor where CSE is the Major; and Double Major)

<u>Computer Science Requirements</u> <u>Credit Count</u>										
1000-level			CSE1030 3.0 MATH1300 3.							Ç
2000-level	CSE2001 MATH203		CSE2011 3.0		CSE20	21 4	4.0	CSE203	3.0) 13
3000-level	Theory	CSE3	s 101 3.0 221 3.0			ns	CSE:			1 6 3
4000-level	Four cour	ses:								
CSE4082 6.0 Three of CSE4431 3.0 CSE4441 3.0 CSE4461 3.0 CSE4471 3.0									Ć	
Faculty Req	uirements									
General edu	ıcation									
1000-leve	<i>l:</i>	NATS		6.0)					6
	One of	HUMA	\	_ 9.	0 or	SC	OSC_			9.0
2000-leve			MA if a 1000-le SC if a 1000-le							
	One of	HUMA	A	_ 9.	0 or	SC	OSC_			9.0
Additional o		4000 lo	wol crodite (ac i	.vui	uirod for	an	ovors	all total of	10\	

- 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)

Minimum total credits 120

 24 A cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program. 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.

 $^{^{25}}$ It is recommended that students in Honours programs take a linear algebra course such as MATH1025 3.0 among their electives.

Faculty of Arts 2006-07 Checklist²⁶ Communication Networks Stream within a BA Honours Major Degree (including Major/Minor where CSE is the Major; and Double Major)

Computer S	cience Re	quirem	<u>ients</u>						<u>(</u>	Credit Cou	<u>unt</u>
1000-level			CSE1030 3.0 MATH1300 3.				19 3.0 310 3.				9 9
2000-level	CSE2001 MATH203		CSE2011 3.0		CS	E202	21 4.0	CSE203	1 3.0)	13 3
3000-level	Theory Systems	CSE3 CSE3	is 101 3.0 221 3.0 213 3.0				ns CS	SE3311 3.0 SE3401 3.0 SE3451 3.0			1 6 6 6
4000-level	Three cou	rses:	005400470								,
and			CSE4084 6.0 CSE4213 3.0				CSE	4214 3.0			6 6
Faculty Req General edu 1000-leve	ication el:	NATS	5 A			or	SOS	C		9.0	6 9
2000-leve	el: Must be		MA if a 1000-le SC if a 1000-le								
	One of	HUM	Α	9.0	0	or	SOS	C		9.0	9
	27										

Additional courses²⁷

- 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)

Minimum total credits 120

²⁶ A cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program. 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.

 $^{^{27}}$ It is recommended that students in Honours programs take a linear algebra course such as MATH1025 3.0 among their electives.

Faculty of Arts 2006-07 Checklist²⁸

BA Honours Minor Degree

Computer S	<u>Computer Science Requirements</u> <u>Credit Count</u>									
1000-level			CSE1030 MATH130				1		9 9	
2000-level	CSE2001 MATH203		CSE2011	3.0	CSE20)21 4.0	CSE2031	3.0	13 3	
3000-level	CSE3002	CSE3002 1.0 plus one course from each area below								
			3101 3.0 3221 3.0						6 6	
4000-level	Two cour	ses	CSE4	3.0		CSE4_	3.0		6	
Faculty Rec	uirements	<u>i</u>								
General edu 1000-leve		NATS	<u></u>	6.0)				6	
	One of	HUM	Α	9.	0 or	SOSC		9.0	9	
2000-leve	••		MA if a 100 SC if a 100							
	One of	HUM	Α	9.	0 or	SOSC		9.0	9	

Honours Major subject and other courses 29
To satisfy requirements of the honours major, and upper-level 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)

Minimum total credits 120

²⁸ A cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program. 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.

²⁹ It is recommended that students in Honours programs take a linear algebra course such as MATH1025 3.0 among their electives.

Faculty of Arts 2006-07 Checklist³⁰ **BA Specialised Honours Degree**

Computer S	cience Re	quirem	<u>ients</u>					Credit	Count
1000-level:			CSE1030 3.0 MATH1090 3.				MATH1310	3.0	9 12
2000-level:	CSE2001 MATH203		CSE2011 3.0	(CSE20	21 4.0	CSE2031 3	.0	13 3
3000-level	Theory	CSE3	is one course fi 1101 3.0 1221 3.0	Sof	tware	CSE	3311 3.0		1 6 6
			3.0	CS	E3	3	.0		6
4000-level:			r CSE4111 3.4 3.0				SE4	_ 3.0	3
Two courses			vel) 3.0	CS	E	3.	0		6
Faculty Requi									
General edu 1000-leve		NATS	j	6.0					6
	One of	HUMA	A	_ 9.0	or	SOSC		9.0	9
2000-leve.			MA if a 1000-le SC if a 1000-le						
	One of	HUMA	A	_ 9.0	or	SOSC		9.0	9
Additional o	OURCOS								

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)

Minimum total credits 120

³⁰ A cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program. 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.

Faculty of Arts 2006-07 Checklist³¹ **BA Specialised Honours Degree** Intelligent Systems Stream

<u>Computer Science Requirements</u> <u>Credit Count</u>										
1000-level:		0 CSE1030 3.0 MATH109				MATH1310	9 3.0 12			
2000-level:	CSE2001 3 MATH2030	0 CSE2011 3.0	3.0	CSE202	21 4.0	CSE2031 3.	0 13			
3000-level	CSE3002 1.0 plus one course from each area below Theory CSE3101 3.0 Software CSE3311 3.0 Systems CSE3221 3.0 Applications CSE3401 3.0 Two more courses: CSE3402 3.0 CSE3 3.0									
4000-level:	CSE4101 3. CSE4081	0 or CSE411	1 3.0 or (CSE41	15 3.0		3			
Two more courses CSE4401 3.0 or CSE4402 3.0; CSE4421 3.0 or CSE4422 3.0										
One more co		0 or CSE4402 3	3.0; CSE	.4421 3	8.0 or C	SE4422 3.0	6			
	CSE3	3.0 or CSE4	_ 3.0				3			
Faculty Requ										
General edu		IATC	4.0							
1000-ieve	One of	IATS IUMA	6.0 9.0	or	SOSC_		_ 9.0			
2000-leve	Must be	HUMA if a 100 or SOSC if a 100								
	One of H	HUMA	9.0	or	SOSC_		_ 9.0 9			
Additional of		el credits (as red	nuired for	a total	of 18)					

- 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)

Minimum total credits 120

³¹ A cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program. 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.

Faculty of Arts 2006-07 Checklist³² BA Specialised Honours Degree Interactive Systems Stream

<u>Computer Science Requirements</u> <u>Credit Count</u>										
1000-level:		CSE1030 3.0 MATH1090 3.0			9 3.0 12					
2000-level:	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021	4.0 CSE2031 3	3.0 13					
3000-level	Theory CSE	lus one course from 3101 3.0 S 3221 3.0 A	Software	CSE3311 3.0	1 6 6					
	Two more cour CSE3461 3.	ses: O CSE3	3.0		6					
4000-level:	CSE4101 3.0 CSE4082 6.	or CSE4111 3.0 c	r CSE4115	3.0	3 6					
Three of CS	E4431 3.0 CSE	1441 3.0 CSE446	1 3.0 CSE ⁴	1471 3.0	9					
Faculty Requ General edu 1000-leve	ucation el: NAT	S6 NA9	.0 9.0 or S	OSC						
2000-leve	Must be H	UMA if a 1000-leve OSC if a 1000-leve								
	c <mark>ourses</mark> Tore 4000-level o	MA 9 redits (as required on-MATH credits (a	for a total of	18)						

Minimum total credits 120

³² A cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program. 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.

Faculty of Arts 2006-07 Checklist³³ **Communication Networks Stream**

BA Specialised Honours Degree

<u>Computer Science Requirements</u> <u>Credit Count</u>										
1000-level:			CSE1030 3.0 MATH1090 3.				MATH1310	3.0	9 12	
2000-level:	CSE2001 MATH203		CSE2011 3.0	(CSE20	21 4.0	CSE2031 3	.0	13 3	
3000-level	Theory Systems Two more	CSE3 CSE3 course	is one course fr 101 3.0 221 3.0 es: CSE3451	Sof App	tware	CSE	3311 3.0		1 6 6	
	CSE4101 CSE40		r CSE4111 3.0) or (CSE41	15 3.0			3 6	
and One course			CSE4214 0 or CSE4)				6	
Faculty Requ	<u>irements</u>									
General edu 1000-leve		NATS HUM/	5	6.0	or	SOSC_		_ 9.0	6 9	
2000-leve			MA if a 1000-le SC if a 1000-le							
	One of	HUM	A	9.0	or	SOSC_		_ 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)

³³ A cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program. 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.

Faculty of Arts 2006-07 Checklist³⁴

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

Computer S	<u>Computer Science Requirements</u> <u>Credit Count</u>							
1000-level	CSE1020 MATH109		CSE1030 3.0 MATH1300 3.0)19 3.0 1310 3.0			9 9
2000-level	CSE2001 MATH203		CSE2011 3.0	CSE20	21 4.0	CSE2031 3.	0	13 3
3000-level	Theory	CSE3	us one course from 8101 3.0 S 8221 3.0 A	oftware	CSE	3311 3.0		1 6 6
4000-level	Four cour	rses	CSE43.0 CSE43.0					6 6
Faculty Rec	uirements	<u> </u>						
General edu 1000-leve	el:		56. A9		SOSC_		_ 9.0	6 9
2000-leve	el: Must be		MA if a 1000-leve SC if a 1000-level					
	One of	HUM	Α9	.0 or	SOSC_		_ 9.0	9

Other Honours Major (Minor) Subject and Other Courses³⁵

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)

Minimum total credits 120

³⁴ A cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program. 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.

 $^{^{35}}$ It is recommended that students in Honours programs take a linear algebra course such as MATH1025 3.0 among their electives.

Faculty of Arts 2006-07 Checklist Computer Security Program (Effective Fall 2007)

BA Specialised Honours Degree

Students must complete a total of at least 120 credits including a minimum of 57 credits in computer science, 18 credits in mathematics, and at least 30 credits that are not in CSE, or MATH, or ITEC:

								C	redit Count
1000-level:	CSE1020 OR	3.0 CS	SE1030 3.0)					6
Plus	CSE 1019	3.0	EC1630 3. MATH102 MATH130	25 3.0	MATH1	090 3.0			9 9 9
2000-level:	CSE2001 MATH203		CSE2011	3.0	CSE20	21 4.0	CSE2031	3.0	13 3
3000-level:	CSE3002 CSE3311						CSE3221 CSE3481		10 9
4000-level:			3.0 CSE4 CSE4482) CSE	4413 3.0			9 7
Complemen AK/AS/PHIL2			ГЅ3500 3.0)					3
General edu 1000-leve	<i>l:</i>		1			SOSC_		(9.0 9
2000-leve	/: Must be		MA if a 100 SC if a 100						
	One of	HUMA	١	9.	0 or	SOSC_		(9.0 9

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

Note 2: The student must choose to take either CSE 1020 3.0 and CSE 1030 3.0 or ITEC 1620 3.0 and ITEC 1630 3.0 and ITEC 2620 3.0; 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.

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

Note 4: Three elective credits must be at the 4000-level.

Note 5: Wherever specified ITEC courses are used to satisfy degree requirements in this program they will also be used in the general prerequisite GPA calculation.

Atkinson Facu	ıltv 2006-07	' Checklist ³⁶
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BSc Degree

Computer S	<u>Computer Science Requirements</u> <u>Credit Count</u>							
1000-level	CSE1020 3.0 MATH1090 3.0				9 9			
2000-level	CSE2001 3.0	CSE2011 3.0	CSE2021	4.0 CSE2031	3.0 13			
3000-level			pplications	CSE3311 3.0 CSE34 3 CSE3 3				
Faculty Rec	quirements							
1000-level:	General education 1000-level: AK/MATH OR AK/MODR at the 1000 level 6 HUMA							
chosen from: BIOL1010 6.0 BIOL1410 6.0 (CHEM1000 3.0 and CHEM1001 3.0) (EATS1010 3.0 and EATS1011 3.0) PHYS1010 6.0 PHYS1410 6.0 6								
Required courses outside the major: At least 6 additional credits in science (courses cross listed as SC) at the 2000 level or above.								

Minimum total credits 90

³⁶ 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 2006-07 Checklist³⁷

BSc Specialised Honours Degree

Computer	Science Requirem	nents		Credit (Count
1000-level:	CSE1019 3.0 MATH1025 3.0			CSE1019 3.0 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	Theory CSE3	us one course from 3101 3.0 S 3221 3.0 A	Software CSE	3311 3.0	1 6 6
	Two more course	es:			
	CSE3	3.0	CSE33	.0	6
4000-level:	CSE4101 3.0 o			SE4 3.0	3 9
Two course	s (3000- or 4000-le CSE	evel) 3.0	CSE3.0	0	6
Faculty Re	<u>quirements</u>				
General ea					
1000-level:	AK/MATH OR All HUMA NATS: The Natu	6.0	SOSC	6.0 met by completing 6	6 12 credits
chosen fron	า:	•			
	and CHEM1001 3.	BIOL1410 6.0 0) (EATS1010 3.0 PHYS1410 6.0	and EATS1011 3.		6
Other requ	irements:				
	3 credits at the 300 more non-CSE, nor				3
				2000-level or above	6

Minimum total credits 120

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³⁷A cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program and to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

Atkinson Faculty 2006-07 Checklist³⁸

BSc Specialised Honours Degree

Intelligent Systems Stream

Computer S	Science Requirem	<u>ients</u>		Credit C	<u>ount</u>	
1000-level:	CSE1019 3.0 MATH1025 3.0			CSE1019 3.0 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	Theory CSE3	is one course from 3101 3.0 S 3221 3.0 A	oftware CSE	3311 3.0	1 6 6	
		CSE3	3.0		6	
4000-level:	CSE4101 3.0 o CSE4081 6.0	r CSE4111 3.0 o	r CSE4115 3.0		3 6	
Two courses CSE4401 3.0 or CSE4402 3.0; CSE4421 3.0 or CSE4422 3.06 One course (3000- or 4000-level)						
	CSE				3	
Faculty Red						
00	AK/MATH OR Al				6	
	HUMA	6.0	SOSC	6.0 met by completing 6	12	
chosen from		irai Science requi	rement must be	met by completing o	credits	
		BIOL1410 6.0				
		0) (EATS1010 3.0 PHYS1410 6.0	and EAISIUII 3.	.0)	6	
Other requi	rements:					
1. 3 credits at the 3000-level or above (as required for a total of 39)						
 more non-CSE, non-MATH credits (as required for a total of 30) 6 credits in science (courses cross listed as SC) at the 2000-level or above 						

³⁸A cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program and to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

Atkinson Faculty 2006-07 Checklist³⁹

BSc Specialised Honours Degree

Interactive Systems Stream

<u>Computer Science Requirements</u> <u>Credit Cour</u>						
1000-level:	CSE1019 3.0 MATH1025 3.0			CSE1019 3.0 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	Theory CSE3 Systems CSE3 Two more course	221 3.0 A	Software CSE applications CSE	3311 3.0	1 6 6	
4000-level:	CSE4101 3.0 o	r CSE4111 3.0 c	or CSE4115 3.0		3	
Three of CS	CSE4082 6.0 SE4431 3.0 CSE44	41 3.0 CSE4461	3.0 CSE4471 3	.0	6 9	
-	quirements					
General ed 1000-level:	AK/MATH OR AI HUMA	6.0	SOSC		6 12	
chosen fron	n:	·		met by completing	y o creaits	
BIOL1010 6.0 BIOL1410 6.0 (CHEM1000 3.0 and CHEM1001 3.0) (EATS1010 3.0 and EATS1011 3.0) PHYS1010 6.0 PHYS1410 6.0						
Other requirements:						
	3 credits at the 300				3	
	more non-CSE, nor 6 credits in science				ve 6	

Minimum total credits 120

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³⁹A cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program and to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

Atkinson Faculty 2006-07 Checklist⁴⁰

BSc Specialised Honours Degree

Communication Networks Stream

Computer	Science Requirem	<u>nents</u>		Credit C	ount
1000-level:	CSE1020 3.0 MATH1025 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	Theory CSE3 Systems CSE3 Two more course	us one course from 101 3.0 S 1221 3.0 A es: CSE3451 3.0	oftware CSE pplications CSE	3311 3.0	1 6 6
	CSE3213 3.0	CSE3451 3.0	J		6
4000-level:	CSE4101 3.0 o CSE4084 6.0	r CSE4111 3.0 o	r CSE4115 3.0		3 6
and	032 100 1 0.0				O
One course	CSE4213 3.0 CSE33.	CSE4214 3.0 0 or CSE43	-		6 3
Faculty Re	quirements				
General ed	-				
1000-level:	HUMA		SOSC	6.0 met by completing 6	6 12 credits
chosen fron	n:	•			
	and CHEM1001 3.	BIOL1410 6.0 0) (EATS1010 3.0 PHYS1410 6.0			6
Other requ					
 3 credits at the 3000-level or above (as required for a total of 39) more non-CSE, non-MATH credits (as required for a total of 30) 					
				2000-level or above	6

Minimum total credits 120

40A cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program and to graduate. In addition, the Departmental prerequisite GPA over CSE courses must be met to proceed in the program.

Atkinson Faculty 2006-07 Checklist Computer Security Program (Effective Fall 2007)

BSc Specialised Honours Degree

Students must complete a total of at least 120 credits including a minimum of 57 credits in computer science, 18 credits in mathematics, and at least 30 credits that are not in CSE, or MATH, or ITEC:

					Credit Cou	<u>nt</u>
1000-level:	CSE1020 3.0 CS	E1030 3.0				6
Plus	ITEC1620 3.0 ITE CSE 1019 3.0 MATH1131 3.0	MATH1025 3.0	MATH1090 3.0			9 9 9
2000-level:	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031	3.0	13 3
3000-level:	CSE3002 1.0 CSE3311 3.0	CSE3101 3.0 CSE3421 3.0 (OI				10 9
4000-level:	CSE/MATH4161 3 CSE4481 4.0		CSE4413 3.0			9 7
	tary studies: 20753.0 OR SC/ST	S3500 3.0				3
General edu 1000-level:	AK/MATH1700 6.0 HUMA NATS: The Natura	6.0	SOSC			6 12 edits
chosen from:	BIOL1010 6.0	DIOI 1410 4 0	/CUEM100			
	and CHEM1001 3.0)					6
Peguired co	Paguirad courses outside the major: At least 6 additional credits in science (courses cross					

Required courses outside the major: At least 6 additional credits in science (courses cross listed with SC) at the 2000 level or above.

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

Note 2: The student must choose to take either CSE 1020 3.0 and CSE 1030 3.0 or ITEC 1620 3.0 and ITEC 1630 3.0 and ITEC 2620 3.0; 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.

Note 3: Wherever specified ITEC courses are used to satisfy degree requirements in this program they will also be used in the general prerequisite GPA calculation.

Atkinson Faculty 2006-07 Checklist⁴¹

BA Degree

Computer S	<u>Computer Science Requirements</u> <u>Credit Cou</u>						
1000-level	CSE1020 3.0 MATH1090 3.0	CSE1030 3.0 MATH1300 3.0)	9 9		
2000-level	CSE2001 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031 3.0	13		
Faculty Rec	Two more cours		Software CS Applications CS _ 3.0 CS	E34 3.0	6 6 6		
General edu 1000-level:	<i>ucation</i> AK/MATH or AK	/MODR at the 100	00 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.

⁴¹A cumulative grade point average of 4.0 over all courses is required 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 2006-07 Checklist⁴² BA Specialised Honours Degree

Computer Science Requirements Credit Co						
1000-level:	CSE1020 3.0 MATH1025 3.0	CSE1030 3.0 MATH1300 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		101 3.0 S 221 3.0 A	oftware CSE	3311 3.0	1 6 6	
	CSE3	3.0 C	SE3 3.	0	6	
4000-level:	CSE4101 3.0 o	r CSE4111 3.0 o 3.0		SE4	3 _ 3.0 9	
Two courses	(3000- or 4000-le CSE	vel) 3.0	SE3.0)	6	
Faculty Req General edu						
1000-level:	AK/MATH or AK/ HUMA NATS	6.0		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

Minimum total credits 120

⁴²A cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program. In addition, the Departmental general prerequisite cumulative grade-point-average over all Computer Science courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

Atkinson Faculty 2006-07 Checklist⁴³

BA Specialised Honours Degree

Intelligent Systems Stream

Computer Science Requirements Credit C						
1000-level:		CSE1030 3.0 MATH1300 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	3000-level CSE3002 1.0 plus one course from each area below Theory CSE3101 3.0 Software CSE3311 3.0 Systems CSE3221 3.0 Applications CSE3401 3.0 Two more courses:					
		CSE3	3.0		6	
	CSE4081 6.0	r CSE4111 3.0 o		SE4422 3.0	3 6 6	
One course	(3000- or 4000-lev	el) CSE	_ 3.0		3	
Faculty Requirements General education						
1000-level:		MODR at the 100 6.0 6.0		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.
- Of the total credits required towards the degree, 30 must be outside CSE and MATH

Minimum total credits 120

⁴³A cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program. In addition, the Departmental general prerequisite cumulative grade-point-average over all Computer Science courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

Atkinson Faculty 2006-07 Checklist⁴⁴

BA Specialised Honours Degree

Interactive Systems Stream

Computer Science Requirements Credit Cour						
1000-level:		CSE1030 3.0 MATH1300 3.0		MATH1090 3.	9 0 12	
2000-level:	CSE2001 3.0 MATH2030 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031 3.0	13 3	
3000-level	CSE3002 1.0 plus one course from each area below 1					
	Theory CSE3	101 3.0 S	oftware CSE	3311 3.0	6	
		3221 3.0 A	pplications CSE	E3401 3.0	6	
	Two more course	es: CSE3	3.0		6	
	0323401 3.0	0323	5.0		U	
4000-level: CSE4101 3.0 or CSE4111 3.0 or CSE4115 3.0						
CSE4082 6.0 Three courses from						
Tillee course		SE4441 3.0 CSE	:///6130 CSE	<i>11</i> 71 3 0	9	
	03244313.0	3L4441 3.0 C3L	.4401 3.0 CSL	4471 3.0	,	
<u>Faculty Requirements</u>						
General education						
1000-level:		MODR at the 100			6	
		6.0	SUSC	6.0	12 6	
	NATS	0.0			0	

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

Minimum total credits 120

44A cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program. In addition, the Departmental general prerequisite cumulative grade-point-average over all Computer Science courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

Atkinson Faculty 2006-07 Checklist⁴⁵

BA Specialised Honours Degree

Communication Networks Stream

<u>Computer Science Requirements</u> <u>Credit Count</u>							
1000-level:		CSE1030 3.0 MATH1090 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	Theory CSE3	us one course from 101 3.0 S 1221 3.0 A	oftware CSE	3311 3.0	1 6 6		
		CSE3451 3.0)		6		
	CSE4101 3.0 o CSE4084 6.0	r CSE4111 3.0 o	r CSE4115 3.0		3 6		
and One course		CSE4214 3.0 0 or CSE43			6 3		
Faculty Requirements General education							
	AK/MATH or AK	MODR at the 100 6.0 6.0		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.
- Of the total credits required towards the degree, 30 must be outside CSE and MATH

Minimum total credits 120

⁴⁵A cumulative grade-point-average of 5.0 over all courses is required to proceed in each year of the program. In addition, the Departmental general prerequisite cumulative grade-point-average over all Computer Science courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

Atkinson Faculty 2006-07 Checklist Computer Security Program (Effective Fall 2007)

BA Specialised Honours Degree

Students must complete a total of at least 120 credits including a minimum of 57 credits in computer science, 18 credits in mathematics, and at least 30 credits that are not in CSE, or MATH, or ITEC:

	_ 0.				Credit Count
1000-level:	CSE1020 3.0 C	SE1030 3.0			6
	ITEC1620 3.0 ITEC1630 3.0 ITEC2620 3.0				
Plus		MATH1025 3.0			9
	MATH1131 3.0	MATH1300 3.0	MA1H1310 3.0		9
2000-level:	CSE2001 3.0	CSE2011 3.0	CSE2021 4.0	CSE2031 3	3.0 13
	MATH2030 3.0				3
3000-level:	CSE3002 1.0	CSE3101 3.0	CSE3213 3.0	CSE3221 3	3.0 10
	CSE3311 3.0	CSE3421 3.0 (O	R ITEC3220 3.0)	CSE3481	3.0 9
4000-level:	CSE/MATH4161 3.0 CSE4213 3.0 CSE4413 3.0				
	CSE4481 4.0	CSE4482 3.0			7
Complemen	itary studies:				
	20753.0 OR SC/S	TS3500 3.0			3
General edu	ıcation				
1000-level:	AK/MATH1700 6.0 OR AK/MODR at the 1000 level 6				
	HUMA		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

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

Note 2: The student must choose to take either CSE 1020 3.0 and CSE 1030 3.0 or ITEC 1620 3.0 and ITEC 1630 3.0 and ITEC 2620 3.0; 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.

Note 3: Wherever specified ITEC courses are used to satisfy degree requirements in this program they will also be used in the general prerequisite GPA calculation.