### Degree Checklists

FPAS 200	3-04 Checklist <sup>1</sup> BSc D	egree
Computer S	cience Requirements Credit	Count
1000-level	COSC1020 3.0 COSC1030 3.0 MATH1090 3.0 MATH1300 3.0 MATH1310 3.0	6 9
2000-level	COSC2001 3.0 COSC2011 3.0 COSC2021 3.0 COSC2031 3.0 MATH2090 3.0	12 3
3000-level	One course from each area: Theory COSC3101 3 0 Software COSC3311 3.0	6
	Systems COSC3221 3.0 Applications COSC34 3.0	6
	Two more courses COSC33.0 COSC33.0	6
Faculty Rec	uirements	
General Edu	cation Courses:	12
6 credits fror	n: 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
3 additional	credits from 1000-level Science courses <sup>2</sup>	3
	ourses totalling 21 credits and satisfying re SC credits (as required for a total of 66)	
		12
		9
	Total credits	90

<sup>&</sup>lt;sup>1</sup> A minimum cumulative grade point average of 4.0 over all courses is required to graduate. In addition, the Departmental prerequisite GPA over COSC courses must be met to proceed in the program.

<sup>&</sup>lt;sup>2</sup> Excluding CHEM1500 4.0, MATH1510 6.0, MATH1515 3.0, PHYS1510 4.0, all Natural Science courses. MATH1025 3.0 is recommended.

FPAS 2003-04 Checklist <sup>3</sup>	BSc Honours Double Major Degree
BSc Hono	urs Major/Minor (COSC Major) Degree

Computer S	cience Requireme	ents		Credit Count
1000-level	COSC1020 3.0 MATH1090 3.0	COSC1030 3.0 MATH1300 3.0	MATH1310 3.0	6 9
2000-level	COSC2001 3.0 MATH2030 3.0	COSC2011 3.0 MATH2090 3.0	COSC2021 3.0 COS	C2031 3.0 12 6
3000-level	COSC3002 1.0 pl	lus one course fro	m each area below	1
			oftware COSC331 pplications COSC340	
4000-level	Four courses	COSC4	_3.0 COSC4	3.0 6
		COSC4	_3.0 COSC4	3.0 6
Faculty Rec	uirements <sup>4</sup>			
General Edu	cation Courses:			12
6 credits from			PHYS1010 6.0 P )) (EATS1010 3.0 + E	
3 additional	credits from 1000-le	evel Science cour	ses <sup>5</sup>	3
Other Hono	urs Subject and O	)ther Courses (to	tal 41 more credits)	
Including	2. additional 3000	n-MATH credits fo )- and 4000-level credits for a total o	credits for a total of 42	
				15
				15
				11
				Total credits 120

<sup>&</sup>lt;sup>3</sup> 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 COSC courses must be met to proceed in the program.

<sup>&</sup>lt;sup>4</sup> *The other major may include additional general education and 1000-level SC requirements.* 

<sup>&</sup>lt;sup>5</sup> Excluding CHEM1500 4.0, MATH1510 6.0, MATH1515 3.0, PHYS1510 4.0, all Natural Science courses. Math 1025 3.0 is recommended.

## FPAS 2003-04 Checklist<sup>6</sup>

### BSc Honours Major/Minor (COSC Minor) Degree

Computer S	cience (Minor) R	equirements		Credit Co	ount
1000-level	COSC1020 3.0 MATH1090 3.0	COSC1030 3.0 MATH1300 3.0	MATH1310 3.0		6 9
2000-level	COSC2001 3.0 MATH2030 3.0		COSC2021 3.0 COSC	2031 3.0	12 6
3000-level	COSC3002 1.0	plus one course	from each area below		1
			oftware COSC3311 pplications COSC3401 3		6 6
4000-level	Four courses	COSC4	_3.0 COSC4	3.0	6
Faculty Rec	uirements <sup>7</sup>				
General Edu	cation Courses:				12
6 credits fror		BIOL1410 6.0 0 + CHEM1001 3.0	PHYS1010 6.0 PHY D) (EATS1010 3.0 + EA		6
3 additional	credits from 1000-	level Science cour	ses <sup>8</sup>		3
Other Hono	1. non-COSC/nc 2. additional 300	<b>Other Courses</b> (to n-MATH credits for 0- and 4000-level credits for a total conditions for a total conditing for a total conditions for a total conditi	r a total of 30, credits for a total of 42		12 12 12 12
			-	Total credits	120

<sup>&</sup>lt;sup>6</sup> 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 gradepoint-average of 6.0 over all SC courses is also required. In addition, the Departmental prerequisite GPA over COSC courses must be met to proceed in the program.

<sup>&</sup>lt;sup>7</sup> The other major may include additional general education and 1000-level SC requirements.

<sup>&</sup>lt;sup>8</sup> Excluding CHEM1500 4.0, MATH1510 6.0, MATH1515 3.0, PHYS1510 4.0, all Natural Science courses. Math 1025 3.0 is recommended.

FPAS 200	3-04 Checklis	9 [	BSc Specialized Honou	rs Degree
Computer S	cience Requirem	ents_	<u>c</u>	redit Count
1000-level:	COSC1020 3.0 MATH1025 3.0	COSC1030 3.0 MATH1090 3.0		6 0 12
2000-level:	COSC2001 3.0 MATH2030 3.0	COSC2011 3.0 MATH2090 3.0		0 12 6
3000-level	COSC3002 1.0 p	olus one course f	rom each area below	1
	Theory COS Systems COS		Software COSC3311 3.0 Applications COSC3401 3.0	6 6
	Two more course	es:		
	COSC3	3.0	COSC3 3.0	6
4000-level:	COSC4101 3.0	or COSC4111	3.0	3
	COSC4	3.0 COSC	43.0 COSC4	_ 3.0 9
Two courses	(3000- or 4000-le	vel)		
	COSC	3.0	COSC3.0	6
Faculty Req	uirements			
General Edu	cation Courses:			12
6 credits fror			PHYS1010 6.0 PHYS1410 .0) (EATS1010 3.0 + EATS1011	
1. Moi 2. Moi		equired for a tota -MATH credits (a		
				15
	<u> </u>			11
			Total cr	edits 120

<sup>&</sup>lt;sup>9</sup> 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 COSC courses must be met to proceed in the program.

Faculty of	f Arts 20	03-04 Checklist <sup>10</sup>		BA Degree						
Computer Science Requirements Credit Count										
1000-level	COSC10 MATH10	20 3.0 COSC1030 3 90 3.0 MATH1300 3	-	6 9						
2000-level	COSC20 MATH20		.0 COSC2021 3.0 COS	SC2031 3.0 12 3						
3000-level	One cour	se from each area:								
	Theory	COSC3101 3 0	Software COSC33	11 3.0 6						
	Systems	COSC3221 3.0	Applications COSC34_	3.0 6						
	Two more	e courses COSC3_	3.0 COSC3_	3.0 6						
Faculty Rec	uirements	<u>3</u>								
<b>General edu</b> 1000-leve		NATS	_ 6.0	6						
	One of	HUMA	_9.0 or SOSC	9.0 9						
2000-leve	el:									
	Must be		evel SOSC was chosen evel HUMA was chosen)							
	One of	HUMA	_9.0 or SOSC	9.0 9						
Electives	18 credits	s outside COSC								
				9						
				9						
				Total Credits 90						

<sup>&</sup>lt;sup>10</sup>A cumulative grade point average of 4.0 over all courses is required to graduate. In addition, the Departmental prerequisite GPA over COSC courses must be met to proceed in the program.

Computer Science Requirements         Credit Co           1000-level         COSC1020 3.0         COSC1030 3.0         MATH1090 3.0         MATH1310 3.0           2000-level         COSC2001 3.0         COSC2011 3.0         COSC2021 3.0         COSC2031 3.0           2000-level         COSC2001 3.0         COSC2011 3.0         COSC2021 3.0         COSC2031 3.0           3000-level         COSC3002 1.0 plus one course from each area below         Theory         COSC3101 3.0         Software         COSC3311 3.0           3000-level         Four courses         COSC4	00000000000000000000000000000000000000
MATH1090 3.0         MATH1300 3.0         MATH1310 3.0           2000-level         COSC2001 3.0         COSC2011 3.0         COSC2021 3.0         COSC2031 3.0           3000-level         COSC3002 1.0 plus one course from each area below         Theory         COSC3101 3.0         Software         COSC3311 3.0           3000-level         COSC3002 1.0 plus one course from each area below         Theory         COSC3221 3.0         Applications         COSC3401 3.0           4000-level         Four courses         COSC43.0         COSC43.0         COSC43.0           Faculty Requirements         General education         0.0         0.0         or         SOSC9.0           2000-level:         NATS6.0         0         0         or         SOSC9.0	9 12 6 1 6
MATH2030 3.0 MATH2090 3.0 3000-level COSC3002 1.0 plus one course from each area below Theory COSC3101 3.0 Software COSC3311 3.0 Systems COSC3221 3.0 Applications COSC3401 3.0 4000-level Four courses COSC43.0 COSC43.0 COSC43.0 COSC43.0 Faculty Requirements General education 1000-level: NATS6.0 One of HUMA9.0 or SOSC9.0 2000-level: Must be HUMA if a 1000-level SOSC was chosen or SOSC if a 1000-level HUMA was chosen)	6 1 6
Theory Systems       COSC3101 3.0 COSC3221 3.0       Software COSC3311 3.0 Applications COSC3401 3.0         4000-level       Four courses       COSC4	6
Systems       COSC3221 3.0       Applications       COSC3401 3.0         4000-level       Four courses       COSC4	
COSC43.0       COSC43.0         Faculty Requirements       General education         1000-level:       NATS6.0         One of       HUMA9.0       or       SOSC9.0         2000-level:       Must be       HUMA if a 1000-level SOSC was chosen or SOSC if a 1000-level HUMA was chosen)	
Faculty Requirements         General education         1000-level:       NATS6.0         One of       HUMA9.0       or       SOSC9.0         2000-level:       Must be       HUMA if a 1000-level SOSC was chosen or SOSC if a 1000-level HUMA was chosen)	6
General education         1000-level:       NATS6.0         One of       HUMA9.0       or       SOSC9.0         2000-level:       Must be       HUMA if a 1000-level SOSC was chosen or SOSC if a 1000-level HUMA was chosen)	6
1000-level:       NATS6.0         One of       HUMA9.0       or       SOSC9.0         2000-level:       Must be       HUMA if a 1000-level SOSC was chosen or SOSC if a 1000-level HUMA was chosen)	
2000-level: Must be HUMA if a 1000-level SOSC was chosen or SOSC if a 1000-level HUMA was chosen)	6
Must be HUMA if a 1000-level SOSC was chosen or SOSC if a 1000-level HUMA was chosen)	9
or SOSC if a 1000-level HUMA was chosen)	
One of HUMA9.0 <b>or</b> SOSC9.0	
	9
Electives 18 credits outside COSC	
	18
<ul> <li>Additional courses<sup>12</sup></li> <li>1. More 4000-level credits (as required for a total of 18)</li> <li>2. More 3000- or 4000-level credits (as required for a total of 36)</li> </ul>	
	12
	8
Total Credits	

<sup>&</sup>lt;sup>11</sup> 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 COSC courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

<sup>&</sup>lt;sup>12</sup> 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 20	03-04	Checklist <sup>13</sup>			BA Ho	nours M	inor De	gree
Computer S	cience Re	quirem	ents					Credit C	Count
1000-level	COSC102 MATH109		COSC1030 3 MATH1300 3		/ATH	1310 3.0			6 9
2000-level	COSC200 MATH203		COSC2011 3 MATH2090 3		COSC	2021 3.0 (	COSC2031	3.0	12 6
3000-level	COSC300	)2 1.0 p	olus one cours	e from	each	area below	/		1
	,		C3101 3.0 C3221 3.0		ware licatio		3311 3.0 3401 3.0		6 6
4000-level	Two cours	ses	COSC4	3.0		COSC4_	3.0		6
Faculty Req General edu									
1000-leve	d:	NATS	5	_ 6.0					6
	One of	HUM	۹	9.0	or	SOSC		9.0	9
2000-leve	<i>l:</i> Must be		MA if a 1000-I SC if a 1000-I				-		
	One of	HUM	۹	9.0	or	SOSC		9.0	9
Honours Ma (To satisfy ree	a <b>jor subjec</b> quirements c	<b>t and c</b> f the ho	other courses nours major, and	14 d upper	-level ı	requirement	s.)		
								_	12
								_	12
								_	12
									8
							Total	Credits	120

<sup>&</sup>lt;sup>13</sup> 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 COSC courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

<sup>&</sup>lt;sup>14</sup> It is recommended that students in Honours programs take a linear algebra course such as MATH1025 3.0 among their electives.

Faculty of	FArts 20	03-04	Checklist <sup>15</sup>		BA S	Special	ized Hond	ours De	gree
Computer S	cience Re	quirem	ents					Credit C	ount
1000-level:	COSC102 MATH102		COSC1030 3 MATH1090 3		1ATH1	300 3.0	MATH1310	3.0	6 12
2000-level:			COSC2011 3 MATH2090 3		COSC2	2021 3.0	COSC2031	3.0	12 6
3000-level	COSC30	02 1.0 ן	olus one course	e from	each	area belo	w		1
			C3101 3.0 C3221 3.0				C3311 3.0 C3401 3.0		6
	Two more	cours	es:						
	COSC	3	3.0	COS	SC3		3.0		6
4000-level:	COSC41	01 3.0	or COSC411	1 3.0					
	COSC	4	3.0 COS	C4		_3.0 C	OSC4	3.0	ļ
Two courses	(3000- or	4000-le	evel)						
	COSC		3.0	COS	SC		3.0		(
Faculty Requ	irements								
General edu		NATO	<b>、</b>	<u> </u>					
1000-leve			S						(
	One of	HUM	Α	_ 9.0	or	SOSC_		9.0	ļ
2000-leve	<i>l:</i> Must be		IMA if a 1000-le DSC if a 1000-le				•••		
	One of	HUM	Α	_ 9.0	or	SOSC_		9.0	ę
Electives: 1	7 credits or	utside (	COSC						
									ć
									8
Additional c		0-level	credits (as req	uired f	or a to	otal of 18	)		
				_					6
							Total	Credits	120

<sup>&</sup>lt;sup>15</sup> 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 COSC 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 2003-04 Checklist<sup>16</sup>

#### **BA Honours Double Major Degree**

Computer S	cience Re	quirem	ents					Credit C	oun
1000-level	COSC102 MATH109		COSC1030 3.0 MATH1300 3.0		TH1	310 3.0			ę
2000-level	COSC200 MATH203			COS	SC2	021 3.0 CC	SC2031 3	8.0	12
3000-level	COSC300	)2 1.0 p	olus one course f	rom ea	ch a	area below			
	Theory Systems		C3101 3.0 C3221 3.0	Softwa Applica		COSC33 ns COSC34			(
4000-level	Four cour	ses	COSC4	3.0		COSC4	3.0		(
			COSC4	3.0		COSC4	3.0		
Faculty Rec General edu 1000-leve	ıcation		3	6.0					
	One of	HUM	Ą	90	or	2020		9.0	
2000-leve	el: Must be		IMA if a 1000-lev						
	One of	HUM	Α	9.0	or	SOSC		9.0	1
<u>Other Hono</u> (To satisfy re	urs Major s equirements	Subjec s of the	t and Other Cou other honours m	<u>rses</u> 17 ajor, a	7 nd เ 	upper-level r	equiremer  	its.)	1 1 1
							Total C		12

<sup>&</sup>lt;sup>16</sup> 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 COSC courses must be met to proceed in the program. To graduate requires a cumulative grade-point-average of 5.0 over all courses.

 $<sup>^{17}</sup>$  It is recommended that students in Honours programs take a linear algebra course such as MATH1025 3.0 among their electives.

Atkinson	Faculty 2003-04 Checklist <sup>18</sup> BSc	: Degree
Computer S	Science Requirements Cre	edit Count
1000-level	COSC1020 3.0 COSC1030 3.0 MATH1090 3.0 MATH1300 3.0 MATH1310 3.0	6 19
2000-level	COSC2001 3.0 COSC2011 3.0 COSC2021 3.0 COSC2031 3.0 MATH2090 3.0	12 3
3000-level	One course from each area:	
	TheoryCOSC3101 3 0SoftwareCOSC3311 3.0SystemsCOSC3221 3.0ApplicationsCOSC34 3.0	6
	Two more courses         COSC33.0         COSC33.0	6
Faculty Rec	uirements	
General edu	-	
1000-level:	MATH1710 6.0 or MATH17 6.0 or MODES	6.0 6
	HUMA6.0 SOSC6.0	12
6 credi	ts from: BIOL1010 6.0 BIOL1410 6.0 CHEM1000 3.0 CHEM1001 3.0 EATS1010 3.0 EATS1011 3.0 PHYS1010 6.0 PHYS1410 6.0	6
At leas	t 3 additional credits from 1000-level Science courses (excluding CHEM1500 4.0, MATH1510 6.0, MATH1515 3.0, PHYS1510 4.0 and all Natural Science courses)	3
<b>Electives</b> 1. 2.	6 credits in Science (courses cross listed as SC) at the 2000-level or 9 additional credits	above
		ę
		6
	Total cred	lits 90

<sup>&</sup>lt;sup>18</sup> 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 COSC courses must be met to proceed in the program. 10

# Atkinson Faculty 2003-04 Checklist<sup>19</sup>

BSc Specialized	Honours	Degree
-----------------	---------	--------

Computer Science Requirements Credit C					Count	
1000-level:	COSC1020 3.0 MATH1025 3.0	COSC1030 3.0 MATH1300 3.0		ATH1090 3.0	6 12	
2000-level:	COSC2001 3.0 MATH2030 3.0			OSC2031 3.0	12 6	
3000-level	COSC3002 1.0 plus one course from each area below				1	
		C3101 3.0 C3221 3.0	Software COSC3 Applications COSC3		6 6	
	Two more course	es:				
	COSC3	3.0	COSC3 3.0		6	
4000-level:	COSC4101 3.0	or COSC4111	3.0		3	
	COSC4	3.0 COSC	4 3.0 COS	C4 3.0	9	
Two courses	(3000- or 4000-le	vel)				
	COSC	3.0	COSC3.0		6	
Faculty Requirements						
General edu 1000-level:		r MATH17	6.0 or MODES_	6.0	6	
			SOSC		12	
6 credit			CHEM1000 3.0 D EATS1011 3.0	)	6	
At least 3 additional credits from 1000-level Science courses (excluding CHEM1500 4.0, MATH1510 6.0, MATH1515 3.0, PHYS1510 4.0 and all Natural Science courses)						
PHYS1510 4.0 and all Natural Science courses)       3         Electives       1. 6 credits in Science (courses cross listed as SC) at the 2000-level or above         2. 3 credits at the 3000-level or above (as required for a total of 39)         3. more non-COSC, non-MATH credits (as required for a total of 30)         4. more credits (as required for a total of 120)						
			·	_	12	
					8	
				Total credits	120	

<sup>&</sup>lt;sup>19</sup>A 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 COSC courses must be met to proceed in the program.

Atkinson	Faculty 2003-	04 Checklis	,20 t	BA Degree		
Computer S	cience Require	nents			Credit Count	
1000-level	COSC1020 3.0 MATH1090 3.0	COSC1030 3 MATH1300 3	-	10 3.0	6 9	
2000-level	COSC2001 3.0 MATH2090 3.0	COSC2011 3	.0 COSC202	21 3.0 COSC2031	3.0 12 3	
3000-level	One course from each area:					
		C3101 3 0 C3221 3.0	Software Applications	COSC3311 3.0 COSC343.0	6 0 6	
	Two more cours	ses COSC3_	3.0	COSC3	3.0 6	

#### Faculty Requirements

#### General education

1000-level:	MATH1710 6.0 or MATH17		6.0 or MODES		6.0	6
	HUMA	6.0	SOSC	6.0		12
	NATS	6.0				6
Electives	6 credits outside CC	SC requirem	ents			

\_\_\_\_

- 2. 6 credits at the 3000-level or above
- 3. 6 credits anything

Total credits 90

9 9

<sup>&</sup>lt;sup>20</sup>A 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 COSC courses must be met to proceed in the program.

## Atkinson Faculty 2003-04 Checklist<sup>21</sup>

Computer Science Requirements Credit Co					Count
1000-level:	COSC1020 3.0 MATH1025 3.0	COSC1030 3.0 MATH1300 3.0	MATH1310 3.0	MATH1090 3.0	6 12
2000-level:	COSC2001 3.0 MATH2030 3.0		COSC2021 3.0	COSC2031 3.0	12 6
3000-level	COSC3002 1.0 plus one course from each area below				1
			Software COS Applications COS	6C3311 3.0 C3401 3.0	6 6
	Two more courses:				
	COSC3	3.0 (	COSC3	3.0	6
4000-level:	COSC4101 3.0	or COSC41113	5.0		3
	COSC4	3.0 COSC4	3.0 C	OSC43.0	9
Two courses	(3000- or 4000-le	vel)			
	COSC	3.0 (	COSCC	3.0	6
Faculty Requirements General education					
		or MATH17	6.0 or MODE	ES6.0	6
	HUMA	6.0	SOSC	6.0	12
	NATS	6.0			6
Electives         1.       9 credits outside of COSC requirements at the 3000-level or above (or if MATH at the 2000-level or above)         2.       more credits outside COSC and MATH (as required for a total of 30 credits)         3.       more credits (as required for a total of 120)					
				Total credits	120

<sup>&</sup>lt;sup>21</sup>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 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.