FPAS 2002-03 Checklist¹

BSc Degree

Computer S	cience Requirements			Credit Count		
1000-level	COSC1020 3.0 MATH10 COSC1030 3.0 MATH13		0 3.0	9 6		
2000-level	COSC2001 3.0 COSC20 MATH2090 3.0	11 3.0 COSC202	1 3.0 COSC2031	3.0 12		
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 COS	C33.0	COSC3	3.0 6		
Faculty Re	<u>uirements</u>					
General Edu	cation Courses:			_ 12		
6 credits from	n: BIOL1010 6.0 BIOL14 (CHEM1000 3.0 + CHEM		10 6.0 PHYS14 010 3.0 + EATS10			
3 additional	credits from 1000-level Scien	nce courses ²		_ 3		
Additional courses totalling 21 credits and satisfying 1. More SC credits (as required for a total of 66)						
				12		
				9		
			Total	credits 90		

 $^{^{1}}$ 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.

² Excluding CHEM1500 4.0, MATH1510 6.0, MATH1515 3.0, PHYS1510 4.0, all Natural Science courses, and MATH 2221 3.0 and other non 1000-level equivalents to MATH1025 3.0. 52

FPAS 2002-03 Checklist BSc Hons Double Major Degree
BSc Hons. Major/Minor (COSC Major) Degree

Computer S	Science Require	ments .	Credit Count
1000-level	COSC1020 3.0 COSC1030 3.0	MATH1090 3.0 MATH1300 3.0 MATH1310 3.0	9
2000-level	COSC2001 3.0 MATH2030 3.0	COSC2011 3.0 COSC2021 3.0 MATH2090 3.0	COSC2031 3.0 12 6
3000-level	One course from	each area	
	Theory COS	C3101 3.0 Software COS	SC3311 3.0 6
	Systems COS	C3221 3.0 Applications COS	SC3401 3.0 6
4000-level	Four courses	COSC43.0 COSC4	43.0 6
		COSC43.0 COSC4	43.0 6
Faculty Red	quirements ²		
General Edu	cation Courses:		12
6 credits from		BIOL1410 6.0 PHYS1010 6. 0 + CHEM1001 3.0) (EATS1010 3	
3 additional	credits from 1000	level Science courses ³	3
Other Hono	1. non-COSC/no 2. additional 300	I Other Courses ⁴ (total 42 more of n-MATH credits for a total of 30 0)- and 4000-level credits for a total credits for a total of 90	
			Total credits 120

¹ 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.

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

 $^{^3}$ Excluding CHEM1500 4.0, MATH1510 6.0, MATH1515 3.0, PHYS1510 4.0, all Natural Science courses, and MATH 2221 3.0 and other non 1000-level equivalents to MATH1025 3.0.

 $^{^4}$ It is recommended that students in Honours programmes take a linear algebra course such as MATH1025 3.0 among their electives.

FPAS 2002-03 Checklist BSc Honours Major/Minor (COSC Minor) Degree

Computer	Science (Minor) Re	equirements		Credit C	ount
1000-level		MATH1090 3.0 MATH1310 3.0	MATH1300 3.0		9 6
2000-level		COSC2011 3.0 MATH2090 3.0	COSC2021 3.0 (COSC2031 3.0	12 6
3000-level	One course from ea	ach area			
	Theory COSC3	101 3.0 S	oftware COSC	3311 3.0	6
	Systems COSC3	3221 3.0 A	applications COSC	3401 3.0	6
4000-level	Four courses C	COSC4	_3.0 COSC4_	3.0	6
Faculty Re	quirements ²				
General Edu	cation Courses:				12
6 credits from	n: BIOL1010 6.0 (CHEM1000 3.0 +		PHYS1010 6.0 (EATS1010 3.0		6
3 additional	credits from 1000-lev	vel Science cou	rses ³		3
Other Hono	1. non-COSC/non-N 2. additional 3000- 3. additional SC cre	MATH credits for and 4000-level	r a total of 30, credits for a total o		12 12 12
				Total credits	120

¹ 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 COSC courses must be met to proceed in the program.

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

³ Excluding CHEM1500 4.0, MATH1510 6.0, MATH1515 3.0, PHYS1510 4.0, all Natural Science courses, and MATH 2221 3.0 and other non 1000-level equivalents to MATH1025 3.0.

 $^{^4}$ It is recommended that students in Honours programmes take a linear algebra course such as MATH1025 3.0 among their electives.

Computer S	Science Requirements	Credit C	ount
1000-level:	COSC1020 3.0 MATH1090 3.0 MATH1300 3.0 COSC1030 3.0 MATH1310 3.0		9 6
2000-level:	COSC2001 3.0 COSC2011 3.0 COSC2021 3.0 COSC2031 MATH1025 3.0 MATH2030 3.0 MATH2090 3.0	3.0	12 9
3000-level	One course from each area		
	Theory COSC3101 3.0 Software COSC3311 3.0		6
	Systems COSC3221 3.0 Applications COSC3401 3.0		6
	Two more courses:		
	COSC33.0 COSC33.0		6
4000-level:	COSC4101 3.0 or COSC4111 3.0		3
	COSC43.0 COSC43.0 COSC4	3.0	9
Two courses	(3000- or 4000-level)		
	COSC3.0		6
Faculty Red	quirements		
General Edu	cation Courses:		12
6 credits from	n: BIOL1010 6.0 BIOL1410 6.0 PHYS1010 6.0 PHYS14 (CHEM1000 3.0 + CHEM1001 3.0) (EATS1010 3.0 + EATS10		6
3 additional	credits from 1000-level Science courses ²	_	3
1. Mor 2. Mor	ourses totalling 27 credits and satisfying re SC credits (as required for a total of 90) re non-COSC, non-MATH credits (as required for a total of 30) re 3000- or 4000-level credits (as required for a total of 42)		
			15
			12
	Total	credits	120

 $^{^1}$ 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.

 $^{^2}$ Excluding CHEM1500 4.0, MATH1510 6.0, MATH1515 3.0, PHYS1510 4.0, all Natural Science courses, and MATH 2221 3.0 and other non 1000-level equivalents to MATH1025 3.0. $\,$ 55

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Faculty	Λf	Arte	2002-03	Checklist 1
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BA	Degree	

ience R	equire	ments				Credit	Count
				IATH1	1300 3.0		9 6
		COSC2011 3	.0 C	OSC2	2021 3.0 CO	SC2031 3.0	12 3
One cours	e from	each area:					
Theory	COSC	3101 3 0	Soft	ware	COSC33	311 3.0	6
Systems	COSC	3221 3.0	Appli	cation	s COSC34	3.0	6
Two more	course	s COSC3_		3.0	COSC3_	3.0	6
irements	<u> </u>						
ation	NATS		_ 6.0				6
One of	HUMA	\	_ 9.0	or	SOSC	9.0	9
Must be							
One of	HUMA	١	_ 9.0	or	SOSC	9.0	9
18 credits	outside	COSC requir	ement	S			
							9
							9
						Total Credits	s 90
	COSC102 COSC200 MATH209 One cours Theory Systems Two more irements ation One of Must be	COSC1020 3.0 COSC1030 3.0 COSC2001 3.0 MATH2090 3.0 One course from Theory COSC Systems COSC Two more course irements ation NATS One of HUMA Must be HU or SO One of HUMA	COSC1030 3.0 MATH1310 3 COSC2001 3.0 COSC2011 3 MATH2090 3.0 One course from each area: Theory COSC3101 3 0 Systems COSC3221 3.0 Two more courses COSC3_ irements ation NATS One of HUMA Must be HUMA if a 1000-le or SOSC if a 1000-le One of HUMA	COSC1020 3.0 MATH1090 3.0 M COSC1030 3.0 MATH1310 3.0 COSC2001 3.0 COSC2011 3.0 C MATH2090 3.0 One course from each area: Theory COSC3101 3 0 Soft Systems COSC3221 3.0 Appli Two more courses COSC3 irements ation NATS 6.0 One of HUMA 9.0 Must be HUMA if a 1000-level SO or SOSC if a 1000-level HU One of HUMA 9.0	COSC1020 3.0 MATH1090 3.0 MATH2 COSC1030 3.0 MATH1310 3.0 COSC2001 3.0 COSC2011 3.0 COSC2 MATH2090 3.0 One course from each area: Theory COSC3101 3.0 Software Systems COSC3221 3.0 Application Two more courses COSC3 3.0 irements ation NATS 6.0 One of HUMA 9.0 or Must be HUMA if a 1000-level SOSC or SOSC if a 1000-level HUMA if a 1000-l	COSC1020 3.0 MATH1090 3.0 MATH1300 3.0 COSC1030 3.0 MATH1310 3.0 COSC2001 3.0 COSC2011 3.0 COSC2021 3.0 COSMATH2090 3.0 One course from each area: Theory COSC3101 3 0 Software COSC33 Systems COSC3221 3.0 Applications COSC34 Two more courses COSC3 3.0 COSC3 irements ation NATS 6.0 One of HUMA 9.0 or SOSC Must be HUMA if a 1000-level SOSC was chosen or SOSC if a 1000-level HUMA was chosen) One of HUMA 9.0 or SOSC	COSC1020 3.0 MATH1090 3.0 MATH1300 3.0 COSC1030 3.0 MATH1310 3.0 COSC2001 3.0 COSC2011 3.0 COSC2021 3.0 COSC2031 3.0 MATH2090 3.0 One course from each area: Theory COSC3101 3 0 Software COSC3311 3.0 Systems COSC3221 3.0 Applications COSC34 3.0 Two more courses COSC3 3.0 COSC3 3.0 Irements ation NATS 6.0 One of HUMA 9.0 or SOSC 9.0 Must be HUMA if a 1000-level SOSC was chosen or SOSC if a 1000-level HUMA was chosen) One of HUMA 9.0 or SOSC 9.0

 1A 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. 56

Faculty o	of Arts 20	002-0	3 Checklist	1	Е	BA Hor	nours	Major	Degree
Computer	Science R	equire	ments					Cre	dit Count
1000-level	COSC102		MATH1090 3 MATH1310 3		ATH1	300 3.0			9 6
2000-level	COSC200 MATH203		COSC2011 3 MATH2090 3	-	OSC2	2021 3.0	COSC	2031 3.0	12 6
3000-level	One cours	se from	each area						
	Theory	COS	C3101 3.0	Softv	vare	COS	C3311	3.0	6
	Systems	COS	C3221 3.0	Appl	icatio	ns COS	C3401	3.0	6
4000-level	Four cour	ses	COSC4	_ 3.0		COSC4		3.0	6
			COSC4	_ 3.0		COSC4		3.0	6
Faculty Re	quirement	<u>s</u>							
General ed 1000-leve		NATS	i	6.0					6
	One of	HUM	4	9.0	or	SOSC_		9.0	0 9
2000-leve	el: Must be		MA if a 1000-le SC if a 1000-le						
	One of	HUM	A	9.0	or	SOSC_		9.0	0 9
Electives	18 credits	outsid	e COSC require	ements	6				
									. 18
	re 4000-leve		ts (as required to				36)		
									12

¹ 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.

Total Credits 120

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

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Faculty	of Arts	2002-03	Checklist ¹

Computer	Science R	equire	ments					Credit C	ount
1000-level	COSC10		MATH1090 3 MATH1310 3		/ATH	1300 3.0			9
2000-level	COSC200 MATH203		COSC2011 3 MATH2090 3		OSC	2021 3.0	COSC2031	3.0	12 6
3000-level	One cour	se from	each area						
	Theory	COSC	C3101 3.0	Soft	ware	COS	C3311 3.0		6
	Systems	COS	C3221 3.0	App	licatio	ons COS	C3401 3.0		6
4000-level	Two cour	ses	COSC4	3.0		COSC	3.0		6
Faculty Re	-	<u>s</u>							
General ed 1000-leve		NATS	<u> </u>	_ 6.0					6
	One of	HUM	Α	_ 9.0	or	SOSC		9.0	9
2000-leve									
	Must be	_	MA if a 1000-l SC if a 1000-le						
	One of	HUMA	Α	_ 9.0	or	SOSC_		9.0	9
			d other cours onours major, a		oer-lev	el require	ments.)	-	12 12 12 9
							Total	Credits	120

 $^{^1}$ 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.

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

Faculty of Arts 2002-03 Checklist BA Specialized Honours Degree

Computer :	Science R	Require	ments				Credit (Count
1000-level:	COSC10				MATH	1300 3.0		9 6
2000-level:			COSC2011 MATH2030			2021 3.0 COSC 2090 3.0	2031 3.0	12 9
3000-level	One cour	se from	each area					
	Theory	COS	C3101 3.0	Sc	oftware	COSC3311	3.0	6
	Systems	COS	C3221 3.0	A	pplication	ons COSC3401	3.0	6
	Two more	e course	es:					
	COSC	3	3.0	C	OSC3_	3.0		6
4000-level:	COSC41	01 3.0	or COSC41	11 3.0)			3
	COSC	4	3.0 CC	OSC4_		_3.0 COSC4_	3.0	9
Two courses	(3000- or	4000-le	vel)					
	COSC		3.0	C	osc	3.0		6
Faculty Req	<u>uirements</u>							
General ed 1000-leve		NATS	<u> </u>	6.	0			6
	One of	HUM	Α	9.	0 or	SOSC	9.0	9
2000-leve	el: Must be		MA if a 1000 SC if a 1000			was chosen was chosen)		
	One of	HUM	A	9.	0 or	SOSC	9.0	9
Electives: 1	8 credits ou	utside C	OSC require	ments	;			
								9
								9
Additional		.000-lev	el credits (as	requir	red for a	total of 18)		
								6
							Total Credits	120
				_				

¹ 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.

BA Honours Double Major Degree

Computer Science Requirements Credit Count									
1000-level	COSC102		MATH1090 MATH1310		MATH1	1300 3.0			9 6
2000-level	COSC200 MATH203		COSC2011 MATH2090		COSC2	2021 3.0	COSC2031	3.0	12 6
3000-level	One cours	se from	e from each area						
	Theory	COSC	23101 3.0	Sc	oftware	COS	C3311 3.0		6
	Systems	COS	C3221 3.0	Ap	oplicatio	ns COS	C3401 3.0		6
4000-level	Four cour	ses	COSC4	3.	0	COSC4	3.0		6
			COSC4	3.	.0	COSC4	3.0		6
Faculty Re	quirement	<u>s</u>							
General education 1000-level:		NATS	<u> </u>	6.0	0				6
	One of	HUMA	Α	9.0	0 or	SOSC_		_ 9.0	9
2000-level:									
	Must be	Must be HUMA if a 1000-level SOSC was chosen or SOSC if a 1000-level HUMA was chosen)							
	One of	HUMA	A	9.0	0 or	SOSC_		_ 9.0	9
Other Honours Major Subject and Other Courses ² (To satisfy requirements of the other honours major, and upper-level requirements.)									
								-	12
								-	12
								-	12
									3
							Total	Credits:	120

¹ 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.

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

Computer	Science Require	ments			Credit Count		
1000-level	COSC1020 3.0 COSC1030 3.0	MATH1090 3.0 MATH1310 3.0		00 3.0	9		
2000-level	COSC2001 3.0 MATH2090 3.0	COSC2011 3.0	COSC202	21 3.0 COSC2031	3.0 12		
3000-level	One course from each area:						
	Theory COSC	3101 3 0	Software	COSC3311 3.0	6		
	Systems COSC	3221 3.0	Applications	COSC34 3	.0 6		
	Two more course	es COSC3	3.0	COSC33	3.0 6		
Faculty Re	<u>quirements</u>						
General ed	ucation						
1000-level:	MATH1710 6.0 o	r MATH17	6.0 or N	MODES	6.0 6		
	HUMA	6.0	SOSC	6.0	12		
6 credi	ts from: BIOL1010 6.0 CHEM1001 3.0 PHYS1010 6.0	EATS1010	3.0 EAT	EM1000 3.0 S1011 3.0	6		
					0		
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)							
Electives 1. 6 credits in Science (courses cross listed as SC) at the 2000-level or above 2. 9 additional credits							
					9		
					6		
				Total	credits 90		

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 COSC courses must be met to proceed in the program.

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Atkinson Faculty 2002-03 Checklist¹

BSc Specialized Honours Degree

			вос оре	cialized Hollo	uis De	JI CC
Computer	Science Require	ments			Credit C	ount
1000-level:	COSC1020 3.0 COSC1030 3.0	MATH1090 3 MATH1310 3		300 3.0		9 6
2000-level:	COSC2001 3.0 MATH1025 3.0	COSC2011 3 MATH2030 3		021 3.0 COSC2031 090 3.0	1 3.0	12 9
3000-level	One course from	each area				
	Theory COSC	23101 3.0	Software	COSC3311 3.0		6
	Systems COS	C3221 3.0	Application	s COSC3401 3.0		6
	Two more course	es:				
	COSC3	3.0	COSC3	3.0		6
4000-level:	COSC4101 3.0	or COSC411	1 3.0			3
	COSC4	3.0 COS	6C4	3.0 COSC4	3.0	9
Two courses	(3000- or 4000-le	vel)				
	COSC	3.0	COSC	3.0		6
Faculty Re	quirements					
General ed		r MATU17	6.0 or	MODES	6.0	6
1000-level.					0.0	
	HUMA	6.0	SOSC_	6.0		12
6 credi	ts from: BIOL1010 6.0	BIOL1410	6.0 CH	EM1000 3.0		
	CHEM1001 3.0 PHYS1010 6.0	EATS1010 PHYS1410	3.0 EA	TS1011 3.0		6
At leas	t 3 additional cred	its from 1000-	level Science			U
	(excluding CHEN PHYS1510 4.0					3
Electives				,		Ū
2. 3 0	credits at the 3000-le	evel or above (a	as required for		8	
	ore non-COSC, non- ore credits (as requir			a total of 30)		
					_	12
						9
				Total	credits	120

¹A 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.

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Computer Science Requirements Credit Cour								
1000-level	COSC102		MATH1090 3 MATH1310 3		00 3.0		9 6	
2000-level	COSC200 MATH209		COSC2011 3	3.0 COSC202	21 3.0 COSC2	031 3.0	12 3	
3000-level	One cours	One course from each area:						
	Theory	COSC	3101 3 0	Software	COSC3311	3.0	6	
	Systems	COSC	3221 3.0	Applications	COSC34	3.0	6	
	Two more	course	s COSC3_	3.0	COSC3	3.0	6	
Faculty Requirements General education								
1000-level:	MATH171	0 6.0 oı	MATH17	6.0 or I	MODES	6.0	6	
	HUMA		6.0	SOSC	6.0		12	
	NATS		6.0				6	
Electives 1. 6 credits outside COSC requirements 2. 6 credits at the 3000-level or above 3. 6 credits anything								
					To	otal credits	90	

 $^{^1}A$ 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 2002-03 Checklist¹

BA Specialized Honours Degree

			-/· opec			J		
Computer S	Science Require	ments			Credit C	ount		
1000-level:	COSC1020 3.0 COSC1030 3.0			00 3.0		9 6		
2000-level:	COSC2001 3.0 MATH1025 3.0			21 3.0 COSC203 ² 90 3.0	1 3.0	12 9		
3000-level	One course from each area							
	Theory COSC	23101 3.0	Software	COSC3311 3.0		6		
	Systems COS	C3221 3.0	Applications	COSC3401 3.0		6		
	Two more course	es:						
	COSC3	3.0	COSC3	3.0		6		
4000-level:	COSC4101 3.0	or COSC411	1 3.0			3		
	COSC4	3.0 COS	C43	.0 COSC4	3.0	9		
Two courses	(3000- or 4000-le	vel)						
	COSC	3.0	COSC	3.0		6		
Faculty Red	•							
1000-level:		r MATH17	6.0 or N	MODES	6.0	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) more credits (as required for a total of 120)								
					_	12		
					_	12		
				Tota	l credits	120		

¹A 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.