

# Plan Selection and UG Offerings in the School of Computing

```
moveForward(100);
```

First line of code written by  
first American President  
to write a line of code  
December 2014

**Juergen Dingel**

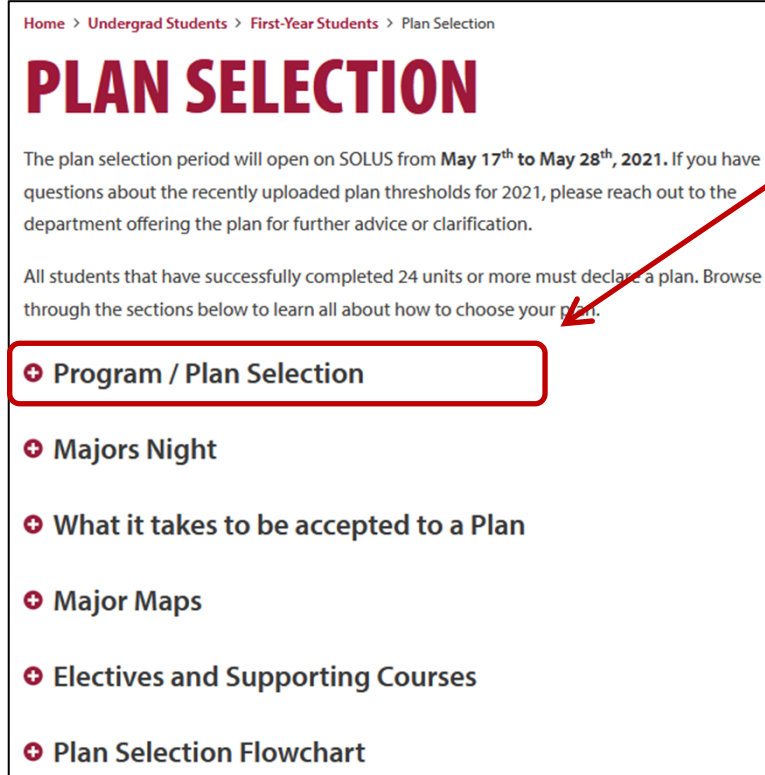
**1<sup>st</sup> Year Orientation Session, March 25, 2021  
[updated April 12, 2021]**

# Content

- Plan selection
- Computing offerings
  - plans
  - Data Analytics certificate

# Plan Selection

- **Important:** All students who have successfully completed 24 units or more **MUST** select a plan
  - o/w they will not be able to enroll in 2<sup>nd</sup> year courses during summer
- **When? May 17 to May 28, 2021**
- **More info?** <https://www.queensu.ca/artsci/undergrad-students/plan-selection>



Home > Undergrad Students > First-Year Students > Plan Selection

## PLAN SELECTION

The plan selection period will open on SOLUS from **May 17<sup>th</sup> to May 28<sup>th</sup>, 2021**. If you have questions about the recently uploaded plan thresholds for 2021, please reach out to the department offering the plan for further advice or clarification.

All students that have successfully completed 24 units or more must declare a plan. Browse through the sections below to learn all about how to choose your plan.

- + Program / Plan Selection
- + Majors Night
- + What it takes to be accepted to a Plan
- + Major Maps
- + Electives and Supporting Courses
- + Plan Selection Flowchart

Acceptance via

1. Automatic Acceptance, or
2. Pending List

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**Minimum requirements for**

1. Automatic Acceptance, and
2. Pending List

for all Computing plans

	Auto			Pending List				
	Cumulative GPA	Course 1	Minimum Grade	Cumulative GPA	Course	Minimum Grade	Course 2	Minimum Grade
COMP-M-BCH								
BMCO-P-BCH	2.6	CISC 12#	B	2.3	CISC 12#	B-	N/A	N/A
COCA-P-BAH	2.6	CISC 12#	B	2.3	CISC 12#	B-	N/A	N/A
COCA-P-BAH			No A	2.3	CISC 12#	B-	N/A	N/A
COCA-P-BAH	2.6	CISC 12#	B	2.3	CISC 12#	B-	DRAM 100 or (BISC 100 and BISC 101)	C
COCA-P-BAH	2.8	CISC 12#	B	2.3	CISC 12#	B-	FILM 110 or (FILM 104 and BISC 100)	C
COGS-P-BCH	2.6	CISC 12#	B	2.3	CISC 12#	B-	6.0 units from MUSC 104; MUSC 105; MUSC 114; MUSC 171; MUSC 191; MUTH 110; MUTH 111	C
COMA-P-BCH	2.6	CISC 12#	B	2.3	CISC 12#	B-	N/A	N/A
CSCI-P-BCH	2.6	CISC 12#	B	2.3	CISC 12#	B-	MATH 120 or 121	C-
SODE-P-BCH	2.6	CISC 12#	B	2.3	CISC 12#	B-	N/A	N/A
COMP-G-BCP	2.6	CISC 12#	B	2.3	CISC 12#	B-	N/A	N/A
COMP-Z	2.6	CISC 12#	B	2.0	CISC 12#	C	N/A	N/A
CISC-G-BA	2.6	CISC 12#	B	2.0	CISC 12#	C	N/A	N/A
COMP-Y	2.6	CISC 12#	B	2.0	CISC 12#	C	N/A	N/A

# Automatic Acceptance: Minimum Requirements

Plan Type	Code	Program	Automatic Acceptance				
			Cumulative GPA	Course 1	Minimum Grade	Course 2	Minimum Grade
Major	COMP-M-BCH	BCMP(Hons)	2.6	CISC 12#	B	N/A	N/A
Specialization	BMCO-P-BCH	BCMP(Hons)	2.6	CISC 12#	B	N/A	N/A
Specialization	COCA-P-BAH	BA(Hons)	No Automatic Acceptance*				
Specialization	COCA-P-BAH	BA(Hons)	2.6	CISC 12#	B	DRAM 100 or (BISC 100 and BISC 101)	B-
Specialization	COCA-P-BAH	BA(Hons)	2.8	CISC 12#	B	FILM 110 or (FILM 104 and BISC 100)	B+
Specialization	COCA-P-BAH	BA(Hons)	2.6	CISC 12#	B	6.0 units from MUSC 104; MUSC 105; MUSC 114; MUSC 171; MUSC 191; MUTH 110; MUTH 111	B-
Specialization	COGS-P-BCH	BCMP(Hons)	2.6	CISC 12#	B	N/A	N/A
Specialization	COMA-P-BCH	BCMP(Hons)	2.6	CISC 12#	B	MATH 120 or 121	C
Specialization	CSCI-P-BCH	BCMP(Hons)	2.6	CISC 12#	B	N/A	N/A
Specialization	SODE-P-BCH	BCMP(Hons)	2.6	CISC 12#	B	N/A	N/A
General (Computing)	COMP-G-BCP	BCMP	2.6	CISC 12#	B	N/A	N/A
Minor (Computing)	COMP-Z		2.6	CISC 12#	B	N/A	N/A
General (Arts)	CISC-G-BA	BA	2.6	CISC 12#	B	N/A	N/A
Minor (Arts)	COMP-Y		2.6	CISC 12#	B	N/A	N/A

## Notes

\* = Departments will determine automatic acceptance manually

CISC 12# = CISC 121 or CISC 124

# Pending List: Minimum Requirements

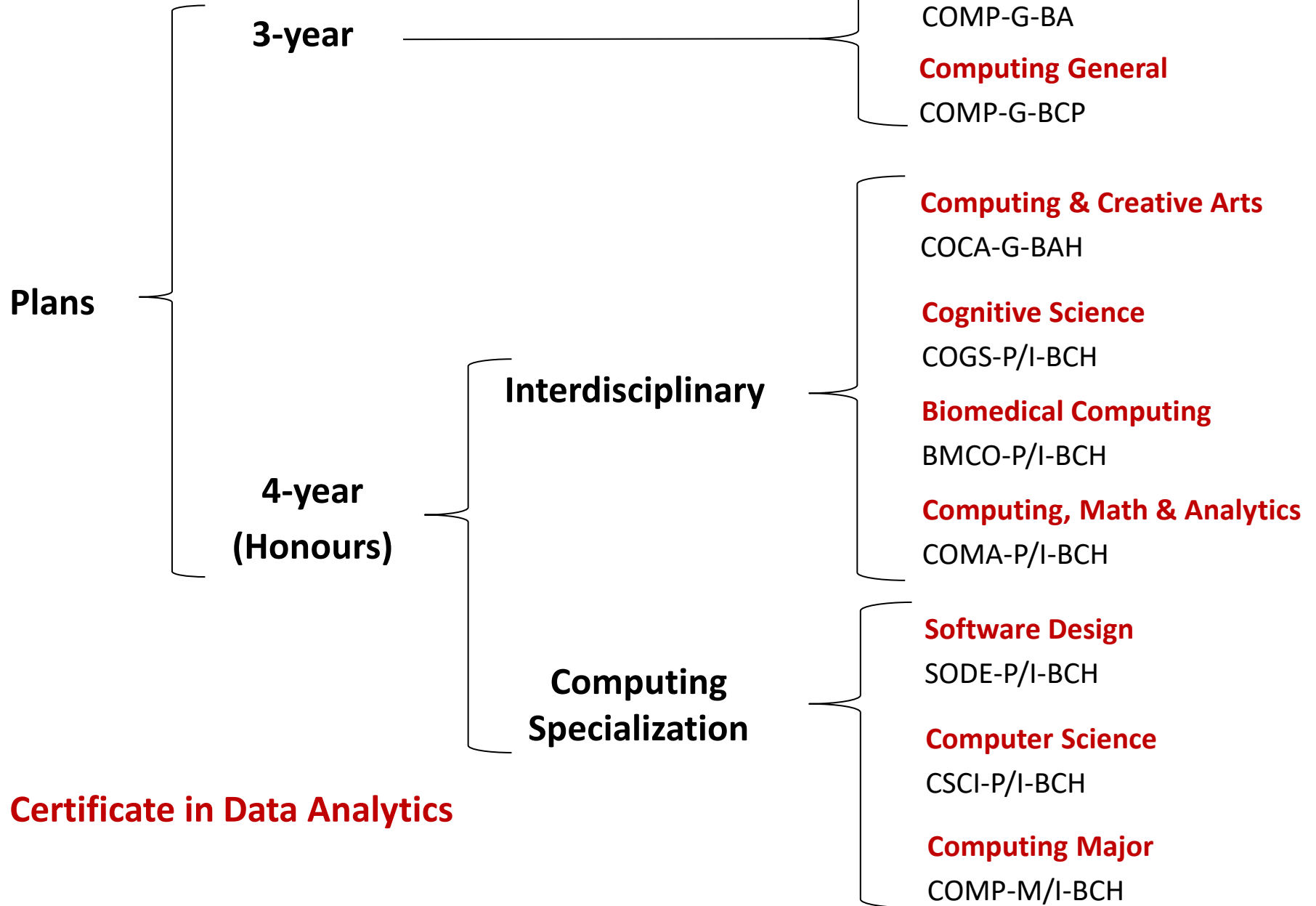
Plan Type	Code	Pending List				
		Cumulative GPA	Course	Minimum Grade	Course 2	Minimum Grade
Major	COMP-M-BCH	2.3	CISC 12#	B-	N/A	N/A
Specialization	BMCO-P-BCH	2.3	CISC 12#	B-	N/A	N/A
Specialization	COCA-P-BAH	2.3	CISC 12#	B-	N/A	N/A
Specialization	COCA-P-BAH	2.3	CISC 12#	B-	DRAM 100 or (BISC 100 and BISC 101)	C
Specialization	COCA-P-BAH	2.3	CISC 12#	B-	FILM 110 or (FILM 104 and BISC 100)	C
Specialization	COCA-P-BAH	2.3	CISC 12#	B-	6.0 units from MUSC 104; MUSC 105; MUSC 114; MUSC 171; MUSC 191; MUTH 110; MUTH 111	C
Specialization	COGS-P-BCH	2.3	CISC 12#	B-	N/A	N/A
Specialization	COMA-P-BCH	2.3	CISC 12#	B-	MATH 120 or 121	C-
Specialization	CSCI-P-BCH	2.3	CISC 12#	B-	N/A	N/A
Specialization	SODE-P-BCH	2.3	CISC 12#	B-	N/A	N/A
General (Computing)	COMP-G-BCP	2.0	CISC 12#	C	N/A	N/A
Minor (Computing)	COMP-Z	2.0	CISC 12#	C	N/A	N/A
General (Arts)	CISC-G-BA	2.0	CISC 12#	C	N/A	N/A
Minor (Arts)	COMP-Y	2.0	CISC 12#	C	N/A	N/A

## Notes

Getting on the pending list does not mean acceptance

CISC 12# = CISC 121 or CISC 124

# Computing Offerings



# 3-Year General Degrees

- For Minor/Major combinations
- 2 General degrees
  - **Arts:**
    - 33 units CISC, MATH
    - 57 elective units
  - **Computing:**
    - 48 units CISC, MATH, STAT
    - 42 elective units

## **Arts General**

COMP-G-BA

## **Computing General**

COMP-G-BCP

## **Computing & Creative Arts**

COCA-G-BAH

## **Cognitive Science**

COGS-P/I-BCH

## **Biomedical Computing**

BMCO-P/I-BCH

## **Computing, Math & Analytics**

COMA-P/I-BCH

## **Software Design**

SODE-P/I-BCH

## **Computer Science**

CSCI-P/I-BCH

## **Computing Major**

COMP-M/I-BCH



## Summary

- Computing and **one of** Art, Drama, Film or Music
- Bachelor of Arts (Honours)
  - no internship option
- Subject of Specialization (SSP)
  - cannot be combined with a minor
- COAR: No automatic acceptance

## Units

- Core (45 units): CISC, MATH
- Sub-plan (39 units): **one of:**
  - **Art, Drama, Film, or Music**
- Electives (36 units)

### Arts General

COMP-G-BA

### Computing General

COMP-G-BCP

### Computing & Creative Arts

COCA-G-BAH

### Cognitive Science

COGS-P/I-BCH

### Biomedical Computing

BMCO-P/I-BCH

### Computing, Math & Analytics

COMA-P/I-BCH

### Software Design

SODE-P/I-BCH

### Computer Science

CSCI-P/I-BCH

### Computing Major

COMP-M/I-BCH

## Summary

- Computing and 2 of LING, PHIL or PSYC
- Bachelor of Computing (Honours)
- Subject of Specialization  
→ cannot be combined with a Minor

## Units

- Core (51 units)
  - CISC, COGS, Math/Stats
- Option (45 units)
  - 30 units from 2 of LING, PHIL or PSYC
  - 15 units from option lists
- Electives (24 units)

### Arts General

COMP-G-BA

### Computing General

COMP-G-BCP

### Computing & Creative Arts

COCA-G-BAH

### Cognitive Science

COGS-P/I-BCH

### Biomedical Computing

BMCO-P/I-BCH

### Computing, Math & Analytics

COMA-P/I-BCH

### Software Design

SODE-P/I-BCH

### Computer Science

CSCI-P/I-BCH

### Computing Major

COMP-M/I-BCH

## Summary

- Computing and BIOL, CHEM & BCHEM
- Bachelor of Computing (Honours)
- Subject of Specialization
  - cannot be combined with a Minor

## Units

- Core (96 units)
  - CISC, MATH, STAT
  - **BIOL, CHEM, BCHM (24 units)**
- Option (9 units)
- Electives (5 units)

### Arts General

COMP-G-BA

### Computing General

COMP-G-BCP

### Computing & Creative Arts

COCA-G-BAH

### Cognitive Science

COGS-P/I-BCH

### **Biomedical Computing**

BMCO-P/I-BCH

### Computing, Math & Analytics

COMA-P/I-BCH

### Software Design

SODE-P/I-BCH

### Computer Science

CSCI-P/I-BCH

### Computing Major

COMP-M/I-BCH

## Summary

- Bachelor of Computing (Honours)
- Subject of Specialization
  - cannot be combined with a Minor

## Units

- Core (72 units): CISC, MATH, STAT
- Option (12 units)
- Electives (36 units)

## Option courses

- Communications & Coding
- Data Analysis
  - e.g., 271, 371, 372, 451, 473 (all CISC)
- Theory in Computer Science
  - e.g., 422, 462, 465, 466, 467 (all CISC)
- Discrete Math & Optimization

## Arts General

COMP-G-BA

## Computing General

COMP-G-BCP

## Computing & Creative Arts

COCA-G-BAH

## Cognitive Science

COGS-P/I-BCH

## Biomedical Computing

BMCO-P/I-BCH

## Computing, Math & Analytics

COMA-P/I-BCH

## Software Design

SODE-P/I-BCH

## Computer Science

CSCI-P/I-BCH

## Computing Major

COMP-M/I-BCH

## Summary

- Bachelor of Computing (Honours)
- Subject of Specialization
  - cannot be combined with a Minor
- CIPS accredited; for more info on CIPS, see <https://www.cs.queensu.ca/students/undergraduate/faq/accredit.html>

## Units

- Core (63 units): CISC, MATH, STAT
- Option (45 units)
  - 2 options
    - **Software Development**
      - CISC 498 (6 units)
    - **Game Development**
      - CISC 226, 326, 486, 496
  - Writing, Commerce (6 units)
  - Humanities, Social Sciences (3 units)
  - Outside computing etc (18 units)
- Elective (12 units)

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COMP-G-BA

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COMP-G-BCP

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COCA-G-BAH

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### Computing Major

COMP-M/I-BCH

## Summary

- Bachelor of Computing (Honours)
- Subject of Specialization
  - cannot be combined with a Minor
- CIPS accredited; for more info on CIPS, see <https://www.cs.queensu.ca/students/undergraduate/faq/accredit.html>
- Lots of flexibility

## Units

- Core (54 units): CISC, MATH, STAT
- Option (48 units)
  - one of
    - i) Theory & Applications
    - ii) Biomedical Computation
    - iii) Data Analytics
    - iv) Artificial Intelligence
    - v) Game Design
    - vi) Security
  - outside computing (30 units)
- Elective (18 units)

### Arts General

COMP-G-BA

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COMP-G-BCP

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COCA-G-BAH

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COMA-P/I-BCH

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SODE-P/I-BCH

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CSCI-P/I-BCH

### Computing Major

COMP-M/I-BCH

## Summary

- Bachelor of Computing (Honours)
- **Extremely flexible**
  1. Not an SSP, **can** be combined with any Minor
  2. Choose from 6 different option lists

## Units

- Core (42.0 units): CISC, STAT
- Supporting (12.0 units): CISC, MATH
- Option (18.0 units):
  - i) Theory & Applications
  - ii) Biomedical Computation
  - iii) Data Analytics
  - iv) Artificial Intelligence
  - v) Game Design
  - vi) Security

### Arts General

COMP-G-BA

### Computing General

COMP-G-BCP

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COCA-G-BAH

### Cognitive Science

COGS-P/I-BCH

### Biomedical Computing

BMCO-P/I-BCH

### Computing, Math & Analytics

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SODE-P/I-BCH

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CSCI-P/I-BCH

### **Computing Major**

COMP-M/I-BCH

# Complete, Official Descriptions of Plans

For the full descriptions of these plans, please see document ‘Degree Plans and Course Lists’ in the Arts and Science eCalendar at

<https://www.queensu.ca/artsci/undergrad-students/academic-calendar#section-degree-programs-plans-course-lists-and-certificates>

Home > Undergrad Students > Academic Calendar

## 2020-2021 ACADEMIC ECALENDAR

Welcome to the 180th Session of the Queen's Arts and Science Calendar

The purpose of this Calendar is to provide details for programs and courses offered by the Faculty of Arts and Science of Queen's University. It includes matters of general interest to students who are registered in, or who are contemplating, a program in Arts and Science at Queen's. It contains information concerning such things as **Deadlines, Degree Plans and Course Lists, Courses of Instruction, Admission Regulations, Academic Regulations, Appeal Regulations, Faculty Policies** and **Archived Calendars**.

Each Department or other academic unit that offers Plans or other academic programs through the Faculty of Arts and Science is listed in the Calendar.

The **Departmental Information** <sup>PDF</sup> section contains contact information, a brief overview of the unit's academic mission, and departmental policies.

- + Dates and Deadlines
- + **Degree Programs, Plans, Course Lists and Certificates**
- + Courses of Instruction

e.g., for COMP:

Plans of study for students who were admitted to a Computing Plan after May 1, 2019

Computing – Major (Computing) – Bachelor of Computing (Honours)

COMP-M-BCH (Computing)

COMP-I-BCH (Computing with Professional Internship)

Subject: Administered by the School of Computing.

Plan: Consists of 72.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 120.0 units, will lead to a Bachelor of Computing (Honours) Degree.

<b>1. Core</b>	(42.0 units)		
A.	6.0 units	in	CISC 121/3.0 and CISC 124/3.0
B.	3.0 units	from	STAT 263/3.0 or STAT_Options
C.	15.0 units	in	CISC 203/3.0, CISC 204/3.0, CISC 221/3.0, CISC 223/3.0, CISC 235/3.0
D.	3.0 units	from	CISC 322/3.0 or CISC 326/3.0
E.	9.0 units	in	CISC 324/3.0 and (CISC 360/3.0 or CISC 260/3.0) and CISC 365/3.0
F.	3.0 units	in	CISC 497/3.0
G.	3.0 units	from	CISC 496/3.0 or CISC 499/3.0 or CISC 500/6.0
<b>2. Option</b>	(18.0 units)		
A.	18.0 units	from	<b>one of Option List 2.A.i. or 2.A.ii or 2.A.iii or 2.A.iv or 2.A.v or 2.A.vi</b>
			<i>i. Fundamental Computation</i>
a.	3.0 units	from	CISC 422/3.0; CISC 462/3.0; CISC 465/3.0; CISC 466/3.0; CISC 467/3.0
b.	6.0 units	from	CISC; CISC_Sub; SOFT at the 400 level or above
c.	6.0 units	from	CISC; CISC_Sub; SOFT at the 300 level or above



# Professional Internship

- 12-16 months
- ~\$40K/year salary
- Need to secure position yourself
  - Queen's Career Services can help
- Eligibility
  - Bachelor of Computing (BCH) plan
  - GPA  $\geq 1.90$
  - $\leq 108$  units completed towards plan
  - Could go after 2<sup>nd</sup> year

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## Computing Major

COMP-M/I-BCH

# Certificate in Data Analytics

- **5 courses**

- **4 required courses**

- Intro to Statistics (STAT 263) or STAT\_OPTIONS
    - Data Analytics (CISC 251)
    - Advanced Data Analytics (CISC 351, **exclusion with CISC 371, CISC 372**)
    - Topics in Data Analytics (CISC 451)

- **plus 1 course from**

- CISC 432, CISC 181, STAT 269, STAT 351, STAT 466, SOCY 284, SOCY 309, PSYC 301, BIOL 343, EMPR 370, ...

- **2 of these courses can also be reused**

- to satisfy Computing plan requirements

- **Open to students**

- **not** in Analytics option of CSCI, COMP or COMA, i.e., not taking CISC 371 or CISC 372

- **More info on**

- <https://www.queensu.ca/artsci/programs-and-degrees/certificates>
  - <https://www.queensu.ca/artsci/node/682/mid/956/credit-certificates>

## Expected for Fall 2021:

- New courses
  - CISC 4455 Evolutionary Computing
  - CISC 468 Cryptography

# Sources of Information

**Arts & Science Faculty: Plan Selection**

<https://www.queensu.ca/artsci/undergrad-students/plan-selection>

**Arts & Science Faculty: Academic Advising**

<https://www.queensu.ca/artsci/undergrad-students/pass-academic-advising>

**Undergraduate Program Assistant, Karen Knight**

**Undergraduate Chair, David Lamb**

**Assistant Undergraduate Chair, Juergen Dingel**