



# Major Program Requirements

For students who started in SIAT between Fall 2007 and Summer 2011

# INFORMATICS CONCENTRATION

## WQB Requirements: "Writing, Quantitative and Breadth"

WQB requirement details and a list of qualifying courses can be found at [students.sfu.ca/wqb](http://students.sfu.ca/wqb). Students must earn a grade of 'C-' or better to obtain W, Q or B credit. These requirements should overlap with regular degree requirements. Breadth (B) courses cannot be fulfilled by IAT courses, unless you are pursuing a second major.

### Writing (W) - 6 credits

- \_\_\_\_\_ (3)
- IAT 309W (3)

Example: TECH 101W, IAT 103W

### Quantitative (Q) - 6 credits

- \_\_\_\_\_ (3)
- \_\_\_\_\_ (3)

Examples: MATH 130 / 150 / 151 / 157, MACM 101, CMPT 120, IAT 265

### Breadth (B) - 24 credits

- B-Hum (6) \_\_\_\_\_ / 6
- B-Sci (6) \_\_\_\_\_ / 6
- B-Soc (6) \_\_\_\_\_ / 6
- Additional credits (6) \_\_\_\_\_ / 6
- no designation required \_\_\_\_\_ / 6

## Major Program Requirements

- Lower division requirements of the SIAT Lower Division Core Requirements.
- Upper division requirements of at least one of the three concentrations in SIAT.
- Lower and upper division requirements of either the Bachelor of Arts (B.A.) or the Bachelor of Science (B.Sc.) requirements.
- A minimum of 120 credit hours, including 45 upper division (300/400 level) credits, must be completed to be eligible for graduation.
- An SFU CGPA of 2.00 and an SFU UGPA of 2.00 are the minimum required for graduation.
- During the course of your undergraduate degree, students may use up to five course repeats. Students may attempt a course up to two times (one repeat). If a student requires a third and final attempt (second repeat) at a course they will need to seek departmental permission. Please go to [students.sfu.ca/calendar](http://students.sfu.ca/calendar) for more information or if you have any questions, please contact [siat\\_advising@sfu.ca](mailto:siat_advising@sfu.ca).

## First Year: Lower Division Requirements (21 credits)

- CMPT 120 - Intro. to Computing Science & Programming I (Q/B-Sci)
- IAT 100 - Systems of Media Representation
- IAT 102 - Graphic Design
- TECH 101W / IAT 103W - Design Communication & Collab. **OR** other approved first year course (Advisor Approved) \_\_\_\_\_
- TECH 106 / IAT 106 - Spatial Thinking and Communicating **OR** other approved first year course (Advisor Approved) \_\_\_\_\_
- TECH 114 - Technology in Everyday Contexts (B-Soc) **OR** other approved first year course (Advisor Approved) \_\_\_\_\_
- TECH 124 - Design Thinking (B-Soc) **OR** other approved first year course (Advisor Approved) \_\_\_\_\_

## Second Year: Lower Division Requirements (21 credits)

- IAT 201 - Human Computer Interaction and Cognition
- IAT 202 - New Media Images
- IAT 222 - Interactive Arts
- IAT 233 - Spatial Design
- IAT 235 - Information Design
- IAT 265 - Multimedia Programming (Q)
- IAT 267 - Introduction to Technological Systems

## Degree Requirements: BA or BSc (6 credits)

Depending on whether you are pursuing a B.A. or a B.Sc., complete one of the following:

### BACHELOR OF ARTS

- IAT 206 - Media Across Cultures
- MATH 130 - Geometry for Computer Graphics (Q)  
**OR** MATH 150 - Calculus I with Review (Q)  
**OR** MATH 151 - Calculus I (Q)  
**OR** MATH 154 - Calculus I for the Biological Sciences (Q)  
**OR** MATH 157 - Calculus for the Social Sciences I (Q)  
**OR** MACM 101 - Discrete Mathematics I (Q/B-Sci)

### BACHELOR OF SCIENCE

- MACM 101 - Discrete Mathematics I (Q/B-Sci)
- Lower division science course (3 credits)

From Computing Science, Engineering Science, Kinesiology, Mathematics, Statistics, or Physics

**DISCLAIMER**  
Each student is responsible for ensuring that his or her academic choices meet the requirements for graduation. All requirements are outlined in the SFU Calendar which is available online [see <http://students.sfu.ca/calendar>]. Please note that the SFU Calendar is considered the authority for official information, therefore students should refer to the calendar for information pertaining to Program Requirements, including course prerequisites.

**INFORMATICS - All students**

**UPPER DIVISION CONCENTRATION (18 credits)**

- IAT 351 - Advanced Human-Computer Interaction
- IAT 352 - Knowledge Media Architectures
- IAT 355 - Introduction to Visual Analytics
- IAT 410 - Advanced Game Design
- IAT 452 - Developing Design Tools
- IAT 455 - Computational Media

**Note to students pursuing a minor or second major:**

Please note that you cannot use any upper division course(s) in this "SIAT Major Requirements" section (even if they are taken in other program areas) for formal credit towards an additional major or a minor.



**BACHELOR OF ARTS**

**24 UPPER DIVISION CREDITS from the following:**

- IAT 312 - Foundations of Game Design
- IAT 313 - Narrative and New Media
- IAT 320 - Body Interface
- IAT 334 - Interface Design
- IAT 338 - Interactive Objects and Environments
- IAT 343 - Animation
- IAT 344 - Moving Images
- IAT 380 - Special Topics in IAT (Arts)
- IAT 431 - Speculative Design
- IAT 443 - Interactive Video
- IAT 445 - Immersive Environments
- IAT 480 - Special Topics in IAT (Arts)

or any upper division course from Communication, Cognitive Science, Contemporary Arts, Human Geography, Philosophy, Business, or Psychology.

- \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_
- \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

For Italia Field School Participants in 2010 and earlier:  
IAT 391, 392 and 393 can be applied to the above requirement.

**BACHELOR OF SCIENCE**

**6 UPPER DIVISION CREDITS from the following:**

- IAT 333 - Interaction Design Methods
- IAT 336 - Materials in Design
- IAT 337 - Representation and Fabrication
- IAT 381 - Special Topics in IAT (Science)
- IAT 432 - Design Evaluation
- IAT 481 - Special Topics in IAT (Science)

or any upper division science course from Computing Science, Engineering Science, Kinesiology, Mathematics, Statistics, Physics, or Psychology.

- \_\_\_\_\_
- \_\_\_\_\_

For Italia Field School Participants in 2010 and earlier:  
IAT 394 can be applied to the above requirement.



**STUDIO CAPSTONE - All students (6 credits):**

- IAT 403 - Interdisciplinary Design Studio I [equivalent to 402] - Fall
- IAT 405 - Interdisciplinary Design Studio II [equivalent to 402] - Spring

**Capstone Pre-requisites:**

- For Fall 2011, 63 units including:
- IAT 201, 265, 1 of 222, 235, 1 of 202, 233, 267
  - An upper division "W" course
  - 9 units of upper division IAT coursework

**Elective Requirements**

**BACHELOR OF ARTS (24 credits)**

Please note that courses taken in this "Elective Requirements" section can count towards an additional major or minor.

**UPPER DIVISION "W" COURSE:**

- IAT 309W - Writing for Design, Media and Informatics

**ADDITIONAL ELECTIVE REQUIREMENTS** 21 additional 100 / 200 / 300 / 400 level credits, from any program. These remaining electives will bring your total credit hours to the required minimum of 120 to be eligible to graduate.

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- \_\_\_\_\_  \_\_\_\_\_
- \_\_\_\_\_  \_\_\_\_\_

**BACHELOR OF SCIENCE (42 credits)**

**UPPER DIVISION "W" COURSE:**

- IAT 309W - Writing for Design, Media and Informatics

**UPPER DIVISION CONCENTRATION/ELECTIVES**

12 additional 300 or 400 level credits from any program. This will bring your upper division credits to the required minimum of 45.

- \_\_\_\_\_  \_\_\_\_\_
- \_\_\_\_\_  \_\_\_\_\_

**ADDITIONAL ELECTIVE REQUIREMENTS** 27 additional 100 / 200 / 300 / 400 level credits, from any program. These remaining electives will bring your total credit hours to the required minimum of 120 to be eligible to graduate.

- \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_
- \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_
- \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_