# BSc Major in Computer Science Checklist

A total of **124 credits** including **General**, **BSc,** and **Computer Science**.

A minimum of **60 credits** at **VIU**.

A minimum of **42 upper-level** (300-499) **credits** at **VIU** with minimum of **average C grade**.

A minimum of **average C grade** in all **upper-level** (300-499) **CSCI courses**.

A minimum of **average C grade** to graduate.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Course Number | Course Title | Credits | Credits Earned | Term | CGPA |
|  | [CSCI 159](https://www.viu.ca/programs/courses/computer-science#CSCI159) or [CSCI 160](https://www.viu.ca/programs/courses/computer-science#CSCI160) | *Computer Science I* **or** *Computer Science I for Engineering* | 4 |  |  |  |
|  | [CSCI 161](https://www.viu.ca/programs/courses/computer-science#CSCI161) | *Computer Science II* | 4 |  |  |  |
|  | [CSCI 162](https://www.viu.ca/programs/courses/computer-science#CSCI162) | *Topics in Computer Science* | 3 |  |  |  |
|  | [MATH 121](https://www.viu.ca/programs/courses/mathematics#MATH121) | *Calculus I* | 4 |  |  |  |
|  | [MATH 122](https://www.viu.ca/programs/courses/mathematics#MATH122) | *Calculus II* | 4 |  |  |  |
|  | [MATH 123](https://www.viu.ca/programs/courses/mathematics#MATH123) | *Logic and Foundations* | 3 |  |  |  |
|  | [ENGL 115](https://www.viu.ca/programs/courses/english#ENGL115) | *University Writing and Research* | 3 |  |  |  |
|  | [ENGL 204](https://www.viu.ca/programs/courses/english#ENGL204) | *Business and Technical Writing (effective September 2012)* | 3 |  |  |  |
|  | [CSCI 251](https://www.viu.ca/programs/courses/computer-science#CSCI251) | *Systems and Networks* | 3 |  |  |  |
|  | [CSCI 260](https://www.viu.ca/programs/courses/computer-science#CSCI260) | *Data Structures* | 4 |  |  |  |
|  | [CSCI 261](https://www.viu.ca/programs/courses/computer-science#CSCI261) | *Computer Architecture & Assembly Language* | 3 |  |  |  |
|  | [CSCI 265](https://www.viu.ca/programs/courses/computer-science#CSCI265) | *Software Engineering* | 3 |  |  |  |
|  | [MATH 223](https://www.viu.ca/programs/courses/mathematics#MATH223) | *Discrete and Combinatorial Mathematics* | 3 |  |  |  |
|  | [MATH 241](https://www.viu.ca/programs/courses/mathematics#MATH241) | *Linear Algebra* | 3 |  |  |  |
|  | Science Elective |  | 3 |  |  |  |
|  | Science Elective |  | 3 |  |  |  |
|  | Non-Science Elective |  | 3 |  |  |  |
|  | Non-Science Elective |  | 3 |  |  |  |
|  | General Elective |  | 3 |  |  |  |
|  | General Elective |  | 3 |  |  |  |
|  | General Elective |  | 3 |  |  |  |
|  | General Elective |  | 3 |  |  |  |
|  | General Elective |  | 3 |  |  |  |
|  | General Elective |  | 3 |  |  |  |
|  | [CSCI 310](https://www.viu.ca/programs/courses/computer-science#CSCI310) | *Introduction to Human-Computer Interaction* | 3 |  |  |  |
|  | [CSCI 311](https://www.viu.ca/programs/courses/computer-science#CSCI311) | *Web Programming* | 4 |  |  |  |
|  | [CSCI 320](https://www.viu.ca/programs/courses/computer-science#CSCI320) | *Foundations of Computer Science* | 3 |  |  |  |
|  | [CSCI 330](https://www.viu.ca/programs/courses/computer-science#CSCI330) | *Programming Languages* | 3 |  |  |  |
|  | [CSCI 355](https://www.viu.ca/programs/courses/computer-science#CSCI355) | *Digital Logic and Computer Organization* | 4 |  |  |  |
|  | [CSCI 360](https://www.viu.ca/programs/courses/computer-science#CSCI360) | *Intro to Operating Systems* | 3 |  |  |  |
|  | [CSCI 370](https://www.viu.ca/programs/courses/computer-science#CSCI370) | *Database Systems* | 3 |  |  |  |
|  | [CSCI 400](https://www.viu.ca/programs/courses/computer-science#CSCI400) | *Computers and Society* | 3 |  |  |  |
|  | [CSCI 460](https://www.viu.ca/programs/courses/computer-science#CSCI460) | *Networks and Communications* | 3 |  |  |  |
|  | CSCI 3XX / 4XX |  | 3 |  |  |  |
|  | CSCI 4XX |  | 3 |  |  |  |
|  | CSCI 4XX |  | 3 |  |  |  |
|  | CSCI Upper-Level |  | 38 |  |  |  |
|  | Upper-Level Elective |  | 3 |  |  |  |
|  | Upper-Level Elective |  | 3 |  |  |  |
|  | Upper-Level Elective |  | 3 |  |  |  |
|  | VIU Upper-Level |  | 47 |  |  |  |
|  | Total |  | 124 |  |  |  |

#### Science Elective

**2 courses** from any **science** (except CSCI and MATH) discipline or **managemen**t discipline.

#### Non-Science Elective

**2 courses** from any discipline **other than** **science**.

#### General Elective

6 courses from any discipline **including science**.

#### Upper-Level Elective

3 upper-level (300-499) courses from any discipline **including science**.