**For Section A, below, the breadth of knowledge of the computer and information systems field includes, but is not limited to: theories, concepts, history, research, and activities that inform some or all of these areas: programming languages, algorithms, data structures, architecture, data communications, database and information retrieval, systems development, and inter-relationships between all areas; use of software tools, operating systems, and languages. BSc CIS Major knowledge is oriented toward system analysis and design for organizational functions and their interaction with organizational personnel.**

**For Section B, below, “the discipline” or “the field” refers to content described above.**

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| **A. Demonstration of Content and Knowledge** |
| **1. Breadth and depth of knowledge of program content** |
| **Learning Criteria** | **Learning Statements** | **Origin of Learning** | **Supporting Documentation** |
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| **2. Understanding of theory/concepts related to program content** |
| **Learning Criteria** | **Learning Statements** | **Origin of Learning** | **Supporting Documentation** |
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| **3. Policy and policy development** |
| **Learning Criteria** | **Learning Statements** | **Origin of Learning** | **Supporting Documentation** |
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| B. Essential Process and Application Skills |
| **4. Critical thinking, problem solving, decision-making** |
| **Learning Criteria** | **Learning Statements** | **Origin of Learning** | **Supporting Documentation** |
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| **5. Communication skills/Capacity to disseminate knowledge** |
| **Learning Criteria** | **Learning Statements** | **Origin of Learning** | **Supporting Documentation** |
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| **6. Professionalism and ethical practice** |
| **Learning Criteria** | **Learning Statements** | **Origin of Learning** | **Supporting Documentation** |
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| **7. Working independently and/or in teams** |
| **Learning Criteria** | **Learning Statements** | **Origin of Learning** | **Supporting Documentation** |
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| **8. Planning, organizing and executing projects** |
| **Learning Criteria** | **Learning Statements** | **Origin of Learning** | **Supporting Documentation** |
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| **9. Leadership and supervisory ability** |
| **Learning Criteria** | **Learning Statements** | **Origin of Learning** | **Supporting Documentation** |
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| **10. Lifelong learning (self and/or professional development)** |
| **Learning Criteria** | **Learning Statements** | **Origin of Learning** | **Supporting Documentation** |
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[**BSC CIS program-based criteria table**](https://www.athabascau.ca/prior-learning/portfolio-assessment/credits-and-assessment-criteria/portfolio-criteria-bsccis.html)