

1. **Bachelors Level AI / ML Program Criteria** – This proposal is pending approval on 6 Nov 2026 by the Computing Area Delegation (CAD). If approved, the implementation is effective Fall 2027.

## **Program Criteria for Artificial Intelligence, Machine Learning, and Similarly Named Programs**

These program criteria apply to computing programs using artificial intelligence, machine learning, or similar terms in their titles.

### **3. Student Outcomes**

In addition to outcomes 1 through 5, graduates of the program will also have an ability to:

6. Apply artificial intelligence theories, models, and techniques to design, implement, and evaluate AI-based solutions that solve complex problems.

### **5. Curriculum**

The curriculum requirements are in addition to the General Criteria curriculum requirements and specify topics, but do not prescribe specific courses. These requirements are:

- a. At least 42 semester credit hours (or equivalent) of artificial intelligence (AI) and computing coursework that must cover the following:
  1. Fundamental AI topics:
    - a. AI foundations, such as reasoning, heuristic search, and knowledge representation.
    - b. Programming, data structures, and algorithms.
    - c. Data and knowledge engineering.
    - d. Machine learning, including deep learning.
    - e. Design and implementation of AI solutions.
    - f. AI system architecture, infrastructure, AI/MLOps, and workflows.
    - g. Secure, ethical, and responsible AI.
  2. Advanced AI topics that build on the fundamental topics to provide depth.
  3. Application area: Coverage of at least one application area that uses AI.
- b. Mathematics and Statistics: At least 9 semester credit hours (or equivalent) that must include statistical inference and modeling, linear algebra, probability, and optimization topics.

**2. Information Systems Program Criteria C5 (Curriculum)** – All additions are noted in gold and deletions are noted by strikethrough. This proposal is pending approval on 6 Nov 2026 by the Computing Area Delegation (CAD). If approved, the implementation is effective Fall 2027.

### 5. Curriculum

The curriculum requirements are in addition to the General Criteria curriculum requirements and specify topics, but do not prescribe specific courses.

These requirements are:

- a. Information systems: At least 30 semester credit hours (or equivalent) that include coverage of fundamentals and applied practice in application development; programming; data and information management; information technology infrastructure; systems analysis, design and acquisition; project management; and the role of information systems in organizations;
- b. Information Systems Environment: At least 15 additional semester credit hours (or equivalent) of a cohesive set of topics ~~that provide an understanding of an information systems environment;~~ distinct from computing topics, that constitute a single domain of activity in which information systems are applied to support and enable the goals of that activity.

Examples of domains of activity include (but are not limited to) business, healthcare, government, not-for-profit organizations, and scientific disciplines.

- c. A major project that requires integration and application of knowledge and skills acquired in earlier course work; and
- d. Appropriate mathematical and statistical models and techniques to solve a broad range of problems in Information Systems.

**3. Information Systems Program Criteria C6 (Faculty)** – All additions are noted in **gold** and deletions are noted by ~~striketrough~~. **This proposal is pending approval on 6 Nov 2026 by the Computing Area Delegation (CAD). If approved, the implementation is effective Fall 2027.**

### **6. Faculty**

In addition to the General Criteria faculty requirements, some full-time faculty members, ~~including those responsible for the information systems curriculum development,~~ must hold a terminal degree with a program of study in information systems.

4. **General Criteria C5 (Curriculum)** – All additions are noted in gold, and deletions are noted by ~~strikethrough~~. This proposal is pending approval on 6 Nov 2026 by the Computing Area Delegation (CAD). If approved, this proposal will be posted for a year of feedback / comment (aka “first reading”) prior to any final actions being taken.

### Criterion 5: Curriculum

The program’s requirements must be consistent with its program educational objectives and designed in such a way that each of the student outcomes can be attained. The curriculum must combine technical, professional, and general education components to prepare students for a career, further study, and lifelong professional development in the computing discipline associated with the program.

The curriculum requirements specify topics, but do not prescribe specific courses. The program must include mathematics, statistics, and science appropriate to the discipline and at least 30 semester credit hours (or equivalent) of up-to-date coverage of fundamental and advanced computing topics that provide both breadth and depth. The computing topics must include:

1. Techniques, skills, and tools, including the responsible use of artificial intelligence, necessary for computing practice.
2. Principles and practices of security and privacy in computing.
3. Local and global impacts of computing solutions on individuals, organizations, and society.
4. A comprehensive project or experience appropriate to the discipline which: 1) builds on technical knowledge and skills acquired in prior advanced course work, and 2) enables the application of appropriate professional dispositions.

**5. General Criteria C6 (Faculty)** – All additions are noted in **gold**, and deletions are noted by ~~strikethrough~~. This proposal is pending approval on 6 Nov 2026 by the Computing Area Delegation (CAD). If approved, this proposal will be posted for a year of feedback / comment (aka “first reading”) prior to any final actions being taken.

The faculty serving in the program must be of sufficient number to maintain continuity, stability, oversight, student interaction, and advising. Each faculty member teaching in the program must have competency and currency within the program's discipline consistent with the contributions to the program expected from the faculty member. The competency of faculty members must be demonstrated by such factors as education, professional credentials and certifications, professional experience, ongoing professional development, contributions to the discipline, teaching effectiveness, and communication skills. Collectively, the faculty must have the breadth and depth to cover, **depth, responsibility, and authority to develop, cover, update, and assess** all curricular areas of the program. **Faculty who are primarily responsible for developing, maintaining, and updating the curriculum are qualified by virtue of their education, professional preparation, or relevant experience in the discipline.**

~~The faculty serving in the program must be of sufficient number to maintain continuity, stability, oversight, student interaction, and advising. The faculty must have sufficient responsibility and authority to improve the program through definition and revision of program educational objectives and student outcomes as well as through the implementation of a program of study that fosters the attainment of student outcomes.~~

6. **General Criteria (Definitions)** – All additions are noted in gold, and deletions are noted by ~~strikethrough~~. This proposal is pending approval on 6 Nov 2026 by the Computing Area Delegation (CAD). If approved, this proposal will be posted for a year of feedback / comment (aka “first reading”) prior to any final actions being taken.

### Professional Responsibilities

Professional responsibilities are the obligations that computing professionals have to individuals, organizations, society, and the environment, expressed through established codes of professional ethics and conduct.

**7. Computer Science Program Criteria C5 (Curriculum)** – All additions are noted in **gold**, and deletions are noted by ~~strikethrough~~. This proposal is pending approval on 6 Nov 2026 by the Computing Area Delegation (CAD). If approved, this proposal will be posted for a year of feedback / comment (aka “first reading”) prior to any final actions being taken.

The curriculum requirements are in addition to the General Criteria curriculum requirements and specify topics, but do not prescribe specific courses. These requirements are:

- a. Computer science: At least 40 semester credit hours (or equivalent) that must include:
  1. ~~Substantial coverage of~~ **Fundamental topics and applied practice in** algorithms and complexity, computer science theory, concepts of programming languages, and software development.
  2. Substantial coverage of at least one general-purpose programming language.
  3. ~~Exposure to computer architecture and organization, information management, networking and communication, operating systems, and parallel and distributed computing.~~ **Additional fundamental topics in computer science that provide breadth.**
  4. **Advanced computer science coursework that provides depth.**
  5. The study of computing-based systems at varying levels of abstraction.
  6. **The comprehensive project or experience, or another** A major project, **must include** ~~that requires~~ integration and application of knowledge and skills acquired in earlier course work.

8. **Computer Science Program Criteria C5 (Curriculum)** – All additions are noted in **gold**, and deletions are noted by ~~strikethrough~~. This proposal is pending approval on 6 Nov 2026 by the Computing Area Delegation (CAD). If approved, this proposal will be posted for a year of feedback / comment (aka “first reading”) prior to any final actions being taken.

- b. Mathematics and Statistics: At least 15 semester credit hours (or equivalent) that must include discrete mathematics, probability, and statistics and must have mathematical ~~rigor~~ **sophistication** at least equivalent to ~~that of~~ introductory calculus.



**9. Associate Level Information Technology Program Criteria C5 (Curriculum)** – All additions are noted in **gold**, and deletions are noted by ~~striketrough~~. This proposal is pending approval on 6 Nov 2026 by the Computing Area Delegation (CAD). If approved, this proposal will be posted for a year of feedback / comment (aka “first reading”) prior to any final actions being taken.

The curriculum requirements are in addition to the General Criteria curriculum requirements and specify topics, but do not prescribe specific courses. These requirements are:

At least 21 semester credit hours (or equivalent) of Information Technology coursework that must include:

1. Fundamentals and applied practice in each of the following areas:
  - a. information management
  - b. networking
  - c. software development and management

**2. Fundamentals and applied practice in three or more of the following areas:**

- a. integrated systems
- b. platform technologies
- c. system paradigms
- d. user experience design
- e. web and mobile systems

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1. Fundamentals and applied practice in each of the following areas:
    - ~~a. —substantial coverage of:~~
      1. information management,
      2. networking,
      3. software development and management;
    - ~~b. —exposure to:~~
      1. integrated systems,
      2. platform technologies,
      3. system paradigms,
      4. user experience design,
      5. web and mobile systems;

3. Supplemental information technology topics that build on fundamentals and are appropriate to the program
4. Experiential learning appropriate to the program.

10. **Data Science Program Criteria C5 (Curriculum)** – All additions are noted in gold, and deletions are noted by ~~strikethrough~~. This proposal is pending approval on 6 Nov 2026 by the Computing Area Delegation (CAD). If approved, this proposal will be posted for a year of feedback / comment (aka “first reading”) prior to any final actions being taken.

5. ~~A major project that incorporates an application area and requires integration and application of knowledge and skills acquired in earlier course work.~~ A comprehensive project or experience that incorporates an application area and requires integration and application of knowledge and skills acquired in earlier course work.