

Bachelor of Science in AI and Machine Learning

Graduation Requirements

The Bachelor of Science in AI and Machine Learning (BS in AI and Machine Learning) degree program requires 120 credit hours, including 45 credit hours of Core Information Technology courses, 36 credit hours of Concentration and Elective courses, 30 credit hours of Integrative Studies (General Education) courses, six (6) credit hours of Core Business courses, and a three (3) credit-hour Capstone course.

Students may complete their entire 120-credit Bachelor of Science in AI and Machine Learning program by taking all 45 credit hours of Core Information Technology courses, 36 credit hours of Concentration and Elective courses, 30 credit hours of Integrative Studies (General Education) courses, six (6) credit hours of Core Business courses, and a three (3) credit-hour Capstone course at Westcliff University. Alternatively, students may transfer up to 30 Integrative Studies (General Education) credit hours from another accredited school. In any option, 54 of the 60 Integrative Studies (General Education) credit hours must have academic content. Please refer to the [Transfer of Credit Policy](#) for more detailed information and requirements.

Bachelor of Science in AI and Machine Learning program standard duration is 4 years. The duration of the program may vary based on individual circumstance. Students must [apply for graduation](#). Upon graduation and fulfillment of all academic requirements, students receive a Bachelor of Science in AI and Machine Learning degree.

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Program Description

The Bachelor of Science in AI and Machine Learning program blends core Information Technology (IT) skills with specialized training in AI, preparing students to build intelligent systems and solve real-world problems. Students gain a strong foundation in programming, data structures, databases, and networks, alongside advanced topics like machine learning, computer vision, and natural language processing. Graduates will be equipped to work in IT and AI-driven roles across sectors such as healthcare, finance, automation, and software development.

Admission Requirements

For acceptance into the BS in AI and Machine Learning degree program, applicants must satisfy English proficiency and one (1) of the additional criteria:

For students who obtained their credentials outside the United States from a non-English-speaking country, proof of English proficiency will be requested.

Students must also meet one of the additional criteria:

- High school diploma from a university-recognized high school with a minimum 2.0 cumulative GPA or university-recognized high school equivalency such as GED, TASC, or HiSET;
- High school diploma plus a previously earned associate-level or higher degree from a nationally, regionally, or government-accredited college or university;
- High school diploma plus twenty-four (24) college-level credits (does not include remedial credits) from a nationally, regionally, or government-accredited college or university earned with a minimum 2.0 cumulative GPA;
- Approval from the admissions committee following a review of factors considered essential for academic success, including previous academic progress, non-academic achievements, and any additional information requested by the Committee as they relate to standards set by the University's governing bodies.

CLICK HERE FOR FULL PROGRAM INFORMATION

Bachelor of Science in AI and Machine Learning Program Learning Outcomes

The BS in AI and Machine Learning encourages students to achieve the following educational outcomes:

- Analyze complex data sets to identify patterns, draw insights, and support AI-driven decision-making.
- Design and develop intelligent systems using machine learning, natural language processing, and computer vision techniques.
- Apply foundational knowledge of programming, algorithms, and data structures to solve real-world problems using AI solutions.
- Evaluate the ethical, legal, and societal implications of AI technologies in various industries and cultural contexts.
- Communicate technical concepts and AI solutions effectively to both technical and non-technical audiences through reports, presentations, and collaborative projects.

