

ARTIFICIAL INTELLIGENCE

Admissions Requirements

Applicants apply for admission to the program via the J. Jeffrey and Ann Marie Fox Graduate School application for admission (<https://gradschool.psu.edu/admissions/how-to-apply>). Requirements listed here are in addition to Graduate Council policies listed under GCAC-300 Admissions Policies (<https://gradschool.psu.edu/graduate-education-policies/>).

The language of instruction at Penn State is English. English proficiency test scores (TOEFL/IELTS) may be required for international applicants. See GCAC-305 Admission Requirements for International Students (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-300/gcac-305-admission-requirements-international-students/>) for more information.

Master of Artificial Intelligence (M.A.I.)

Admission to the Master of Artificial Intelligence degree will be based on baccalaureate academic records, applicable work experience, and two letters of recommendation from a previous professor or supervisor who can attest to the applicant's academic potential. Applications must also include a statement of professional goals and a curriculum vita. An undergraduate cumulative grade-point average of 3.0 or better on a 4.0 scale in the final two years of undergraduate studies is required.

The Master of Artificial Intelligence degree is structured around three distinct pathways to completion, each designed to align with students' backgrounds, interests, and professional goals, and each with its own admission requirements:

- Base Program (Generalist Path)
- AI Engineering option
- Applied & Generative AI option

Students who wish to change from one option to another will have their application reviewed by the professor in charge of the program to ensure they meet the specific admission requirements associated with the new pathway.

1) Admission to the "Base program"

Applicants to the Base Program with an undergraduate degree in computer science, engineering or mathematics may apply. Applicants from other disciplines will be considered based on prior coursework and/or standardized test scores.

Applications must include a statement of professional goals, a curriculum vita or resume, and two letters of recommendation.

2) Admission to the "AI Engineering" Option

Applicants to the "AI Engineering" option with an undergraduate degree in computer science, engineering or mathematics may apply. Applicants from other disciplines will be considered based on prior coursework (including the **Entrance Requirements for Mathematics** and **Entrance Requirements for Programming** stated below) and/or standardized test scores.

Applications must include a statement of professional goals, a curriculum vita or resume, and two letters of recommendation.

Entrance Requirement regarding Mathematics:

Applicants must complete Linear Algebra and Calculus I equivalent to Penn State University's MATH 140 and one semester of probability or statistics.

Entrance Requirement regarding Programming:

Applicants must complete two introductory-level programming courses where both courses used the same language. If an applicant believes his/her work experience satisfy the background, he/she should include a recommendation letter from a technical colleague describing the applicant's coding contributions at work.

Applicants without mathematics and programming requirements might take the computer science bridge programs which prepare them to acquire basic knowledge in Linear Algebra, Calculus, Statistics, Programming, and Optimization.

2) Admission to "Applied and Generative AI" Option

Applicants to the "Applied and Generative AI" Option with an undergraduate degree in computer science, engineering or mathematics may apply. Students from other disciplines will be considered based on prior coursework and/or standardized test scores.

Applications must include a statement of professional goals, a curriculum vita or resume, and two letters of recommendation.

Master of Science (M.S.)

Admission to the Master of Artificial Intelligence degree will be based on baccalaureate academic records, applicable work experience, and two letters of recommendation from a previous professor or supervisor who can attest to the applicant's academic potential. An undergraduate cumulative grade-point average of 3.0 or better on a 4.0 scale in the final two years of undergraduate studies is required.

Applicants with an undergraduate degree in computer science, engineering or mathematics may apply. Students from other disciplines will be considered based on prior coursework (including the Entrance Requirements for Mathematics and Entrance Requirements for Programming stated below) and standardized test scores.

Applications must include a statement of professional goals, a curriculum vita or resume, and two letters of recommendation.

Entrance Requirement regarding Mathematics: Applicants must complete Calculus I equivalent to Penn State University's MATH 140 and one semester of probability or statistics.

Entrance Requirement regarding Programming:

Applicants must complete two introductory-level programming courses where both courses used the same language. If an applicant believes his/her work experience satisfy the background, he/she should include a recommendation letter from a technical colleague describing the applicant's coding contributions at work.

Applicants without mathematics and programming requirements might take the computer science bridge programs which prepare them to acquire basic knowledge in Linear Algebra, Calculus, Statistics, Programming, and Optimization.

Master of Business Administration (M.B.A.)

Admission to the Master of Business Administration in Artificial Intelligence degree will be based on baccalaureate academic records, applicable work experience, and two letters of recommendation from

a previous professor or supervisor who can attest to the applicant's academic potential. An undergraduate cumulative grade-point average of 3.0 or better on a 4.0 scale in the final two years of undergraduate studies is required.

Applicants with an undergraduate degree in computer science, engineering or mathematics may apply. Applicants with undergraduate degrees in business and social sciences or STEM degree will be considered based on prior coursework (including the Entrance Requirements for Mathematics and Programming stated below) and standardized test scores.

Applications must include a statement of professional goals, a curriculum vita or resume, and two letters of recommendation.

Entrance Requirement regarding Mathematics:

Applicants must complete Linear Algebra and Calculus I equivalent to Penn State University's MATH 140.

Entrance Requirement regarding Programming:

Applicants must complete an introductory-level programming course. If an applicant believes his/her work experience satisfy the background, he/she should include a recommendation letter from a technical colleague describing the applicant's coding contributions at work.

Applicants without mathematics and programming requirements might take the computer science bridge programs which prepare them to acquire basic knowledge in Linear Algebra, Calculus, and Programming.