

## Artificial Intelligence: Admission with a HBO-diploma

### Prior education requirement

The Artificial Intelligence Master programme has a selection procedure. This means that an applicant must both meet the admission requirements and successfully complete a selection procedure in order to be admitted to the programme.

With your HBO Bachelor's degree, you cannot be admitted directly to the Master's Programme Artificial Intelligence. If you have obtained a relevant HBO Bachelor's degree (e.g., a HBO degree in Information and Communication Technology), it may be possible to enter the MSc Artificial Intelligence via a pre-master programme of 50-60 ECTS. A relevant degree should at least include relevant programming skills.

Admission to the pre-master programme is selective. The Admission Board will consider your application on the basis of (expected) academic performance and motivation. If accepted, the Admission Board will assign you a pre-master programme, which will properly prepare you to take the Master's programme. After successful completion of the pre-master programme within one year, you will be admitted to the Master's programme.

Note that the level of the pre-master programme is higher than the level of your HBO programme, both regarding content and pace. **Therefore do not apply for a pre-master programme, if you have an average grade below 7.0.** When you have doubts about your application, you are welcome to discuss your options with the [academic advisor](#).

### Content pre-master programme

The current standard pre-master programme for students with a HBO Bachelor's degree in Information and Communication Technology is composed of the following course units:

- Calculus for AI (WBAI048-05) (semester I, focus in Ib)
- Introduction to Machine Learning (WBAI056-05) (sem. Ia)  
Note: extra support from lecturers and additional study by premaster student needed for this course
- Statistics (WBAI049-05) (sem. Ia)
- Autonomous Systems (WBAI002-05) (sem. Ia)  
OR Knowledge and Agent Systems (WBAI057-05) (sem. Ia)  
OR Imperative Programming (WBAI003-05) (sem. I, focus in Ia)
- Introduction to Logic (WBAI012-05) (sem. Ib)
- Advanced Logic (WBAI017-05) (sem. IIa)
- Philosophy of AI and Cognition (FI203AI) (sem. IIa)
- Artificial Intelligence 1 (WBAI023-05) (sem. IIb)
- Linear Algebra and Multivariable Calculus (WBAI050-05) (sem. IIb)
- Neural Networks AI (WBAI028-05) (sem. IIb)

All course descriptions can be found in the online course catalogue [Ocasys](#).

**Please note:** the programme above is meant as an example, to give you a good idea of what to expect in practice. Changes may be introduced to this programme every academic year, for example due to curriculum changes. Students with a different degree than HBO-ICT may be offered a different pre-master programme, depending on their knowledge and skills. Importantly, the pre-master programme comprises a maximum of 60 ECTS and must be successfully completed within one academic year.