Specific diploma requirements for science programmes  2021-2022

Listed diplomas:

American High School
Abitur (Germany)
ASO (Belgium)
Baccalaureat (France)
European Baccalaureate
GCE (United Kingdom)
International Baccalaureate VWO (Suriname)

Please note:

- This is a list of the most common foreign / international diplomas that meet the minimum requirements for admission.
- This list does not represent any statement of equivalency or admission; additional requirements may still be imposed.
- A final decision on admission is taken only after you have submitted a complete online application for admission.
- If your diploma is not mentioned, please visit our website for contact information for prospective students.
American High School

General requirements
High School Diploma with a College Preparatory programme and minimum GPA of 3.5 out of 4.0, with 3 College Board AP exams (grades 4-5) in general academic subjects or 4 College Board AP exams (grade 3-5) in general academic subjects.

Specific requirements
Please note: the AP courses noted are specific requirements. The general requirement of 3 AP courses in general academic subjects may include the subjects mentioned in the specific requirements.

Physics: AP Calculus AB or BC + AP Physics 2 or Physics C (with the components Mechanics and Electricity & Magnetism with one component result at least grade 3, and one at least grade 4)

Astronomy: AP Calculus AB or BC + AP Physics 2

Computer Sciences: AP Calculus AB or BC

Bio-Pharmaceutical Sciences: AP Calculus AB or BC + AP Biology + AP Chemistry

Biology: AP Calculus AB or BC + AP Physics 1 + AP Biology + AP Chemistry

Molecular Science & Technology: AP Calculus AB or BC + AP Physics 2 + AP Chemistry

Mathematics: AP Calculus AB or BC

Please note: The requirements listed are valid for the academic year 2021-2022 and may be subject to change in subsequent academic years.

Replacement courses / exams
If you do not meet the conditions stated above, it is possible to obtain certificates for the required subjects in the Netherlands. See:
- http://www.boswell-beta.nl/en/exams (required level is vwo, not havo)
- https://www.rijksoverheid.nl/onderwerpen/eindexamens/staatsexamen/staatsexamen-voorgezet-onderwijs (information only available in Dutch)
- http://www.ccvx.nl/ (not accepted for our bachelor's programme Physics)

Language requirements
Dutch - Required:
- NT2, programme II (see: https://www.cvte.nl/taken-cvte/staatsexamen-nt2); or

Application documents
- High school transcript
- AP results, if already available, or information on which AP exams you will take
- SAT-general test score and ACT test result (if applicable)
- Information on your Dutch proficiency (courses attended and exams taken)
Specific diploma requirements for science programmes

Abitur (Germany)

General requirements
Zeugnis der allgemeine Hochschulreife (Abitur).

Specific requirements
Please note: all courses must be attended up to and including the final year.

Physics: Mathematik und Physik
Astronomy: Mathematik und Physik
Computer Sciences: Mathematik
Bio-Pharmaceutical Sciences: Mathematik, Chemie und Biologie
Biology: Mathematik, Chemie und Physik + Biologie (Leistungskurs)
Molecular Science & Technology: Mathematik und Physik + Chemie (Leistungskurs)
Mathematics: Mathematik

Please note: The requirements listed are valid for the academic year 2021-2022 and may be subject to change in subsequent academic years.

Replacement courses / exams
If you do not meet the conditions stated above, it is possible to obtain certificates for the required subjects in the Netherlands.
See:
- http://www.boswell-beta.nl/en/exams (required level is vwo, not havo)
- https://www.rijksoverheid.nl/onderwerpen/eindexamens/staatsexamen/staatsexamen-voorgezet-onderwijs (information only available in Dutch)
- http://www.ccvx.nl/ (not accepted for our bachelor’s programme Physics)

Language requirements
Dutch - Required:
- NT2, programme II (see: https://www.cvte.nl/taken-cvte/staatexamens-nt2); or

English - Recommended: CEFR level B2 or higher

Application documents
- Abitur transcript
- Information on your Dutch proficiency (courses attended and exams taken)
ASO (Belgium)

General requirements
Belgian Algemeen Secundair Onderwijs (ASO) diploma.

Specific requirements
Please note: the numbers in brackets correspond with the required minimum hours per subject.

Physics: Wiskunde (4) + Fysica (1)
Astronomy: Wiskunde (4) + Fysica (1)
Computer Sciences: Wiskunde (4)
Bio-Pharmaceutical Sciences: Wiskunde (4) + Biologie (1) + Chemie (1)
Biology: Wiskunde (4) + Fysica (1) + Chemie (1) + Biologie (1)
Molecular Science & Technology: Wiskunde (4) + Fysica (1) + Chemie (1)
Mathematics: Wiskunde (4)

Please note: The requirements listed are valid for the academic year 2021-2022 and may be subject to change in subsequent academic years.

Replacement courses / exams
If you do not meet the conditions stated above, it is possible to obtain certificates for the required subjects in the Netherlands. See:
- [https://www.rijksoverheid.nl/onderwerpen/eindexamens/staatsexamen/staatsexamen-voorgezet-onderwijs](https://www.rijksoverheid.nl/onderwerpen/eindexamens/staatsexamen/staatsexamen-voorgezet-onderwijs) (information only available in Dutch)
- [http://www.ccvx.nl/](http://www.ccvx.nl/) (not accepted for our bachelor’s programme Physics)

Language requirements
English - Recommended: CEFR level B2 or higher

Application documents
- ASO transcript and, if already available, your diploma
Baccalaureat (France)

**General requirements**
Till 2020: Baccalaureat Serie Scientifique diploma
From 2021: Baccalaureat new style.

**Specific requirements**

- **Physics:** Mathematique Spécialité + Physique-Chimie Spécialité
- **Astronomy:** Mathematique Spécialité + Physique-Chimie Spécialité
- **Computer Sciences:** Mathematique Spécialité
- **Bio-Pharmaceutical Sciences:** Mathematique (complémentaires or spécialité) + Physique-Chimie spécialité + Sciences Vie & Terre spécialité
- **Biology:** Mathematique (complémentaires or spécialité) + Physique-Chimie spécialité + Sciences Vie & Terre spécialité
- **Molecular Science & Technology:** Mathematique Spécialité + Physique-Chimie Spécialité
- **Mathematics:** Mathematique Spécialité

Please note: The requirements listed are valid for the academic year 2021-2022 and may be subject to change in subsequent academic years.

**Replacement courses / exams**
If you do not meet the conditions stated above, it is possible to obtain certificates for the required subjects in the Netherlands. See:
- [https://www.rijksoverheid.nl/onderwerpen/eindexamens/staatsexamen/staatsexamen-voorgezet-onderwijs](https://www.rijksoverheid.nl/onderwerpen/eindexamens/staatsexamen/staatsexamen-voorgezet-onderwijs) (information only available in Dutch)
- [http://www.ccvx.nl/](http://www.ccvx.nl/) (not accepted for our bachelor's programme Physics)

**Language requirements**


- **English - Recommended**: CEFR level B2 or higher

*Exemption from the Dutch language requirement can be granted on the basis of a Baccalaureat diploma, option International Néerlandais.

**Application documents**
- Baccalaureat transcript
- Information on your Dutch proficiency (courses attended and exams taken)
European Baccalaureate

**General requirements**
European Baccalaureate (EB) diploma

**Specific requirements**
All subjects mentioned must be attended up to and including the final year (year 7) and have a written examination.

- **Physics:** Mathematics (5) + Physics
- **Astronomy:** Mathematics (5) + Physics
- **Computer Sciences:** Mathematics (5)
- **Bio-Pharmaceutical Sciences:** Mathematics (5) + Biology + Chemistry
- **Biology:** Mathematics (5) + Physics + Biology + Chemistry
- **Molecular Science & Technology:** Mathematics (5) + Physics + Chemistry
- **Mathematics:** Mathematics (5)

*Please note:* The requirements listed are valid for the academic year 2021-2022 and may be subject to change in subsequent academic years.

**Replacement courses / exams**
If you do not meet the conditions stated above, it is possible to obtain certificates for the required subjects in the Netherlands. See:
- [https://www.rijksoverheid.nl/onderwerpen/eindexamens/staatsexamen/staatsexamen-voorgezet-onderwijs](https://www.rijksoverheid.nl/onderwerpen/eindexamens/staatsexamen/staatsexamen-voorgezet-onderwijs) (information only available in Dutch)
- [http://www.ccvx.nl/](http://www.ccvx.nl/) (not accepted for our bachelor's programme Physics)

**Language requirements Dutch**
- **Recommended**: CEFR level B2 or higher

*Exemption from the Dutch language requirement can be granted on the basis of Nederlands (taal 1: native language) or Nederlands (taal 2: second language).

**Application documents**
- European Baccalaureate transcript and, if already available, your diploma. Please make sure the transcript shows clearly which subjects have oral examination and which subjects have written examination. - Information on your Dutch proficiency (courses attended and exams taken)
GCE (United Kingdom)

General requirements
At least 3 GCE Cambridge/Pearson A-levels (not AS levels) in general academic subjects with a grade of A, B or C.

Specific requirements
Please note: the A-levels subjects mentioned are specific requirements. The requirement of 3 A levels in general academic subjects may include the subjects mentioned in the specific requirements.

Physics: Mathematics A + Physics A
Astronomy: Mathematics A + Physics A
Computer Sciences: Mathematics A
Bio-Pharmaceutical Sciences: Mathematics AS or A + Biology A + Chemistry A
Biology: Mathematics AS or A + Physics AS or A + Chemistry A + Biology A
Molecular Science & Technology: Mathematics A + Physics A + Chemistry A
Mathematics: Mathematics A

Please note: The requirements listed are valid for the academic year 2021-2022 and may be subject to change in subsequent academic years.

Replacement courses / exams
If you do not meet the conditions stated above, it is possible to obtain certificates for the required subjects in the Netherlands.
See:
- http://www.boswell-beta.nl/en/exams (required level is vwo, not havo)
- https://www.rijksoverheid.nl/onderwerpen/eindexamens/staatsexamen/staatsexamen-voorgezet-onderwijs (information only available in Dutch)
- http://www.ccvx.nl/ (not accepted for our bachelor's programme Physics)

Language requirements
Dutch – Required*:
- NT2, programme II (see: https://www.cvte.nl/taken-cyte/staatsexamens-nt2); or

*Exemption from the Dutch language requirement can be granted on the basis of A-level Dutch or IGCSE Dutch 1st language.

Application documents
- AS/A level certificates or statement from school with predicted A-levels. Please make sure the transcript clearly shows the level of the subjects.
- Information on your Dutch proficiency (courses attended and exams taken)
International Baccalaureate

General requirements
International Baccalaureate diploma. Only the full IB diploma (with the specific requirements mentioned below) is sufficient. IB course certificates only are not sufficient.

Specific requirements

Physics: Analysis & Approaches HL + Physics HL
Astronomy: Analysis & Approaches HL + Physics HL
Computer Sciences: Analysis & Approaches HL
Bio-Pharmaceutical Sciences: Analysis & Approaches SL/HL or Applications & Interpretation HL + Biology HL + Chemistry HL
Biology: Analysis & Approaches SL/HL or Applications & Interpretation HL + Biology HL + Chemistry HL + Physics SL
Molecular Science & Technology: Analysis & Approaches HL + Physics SL + Chemistry SL
Mathematics: Analysis & Approaches HL

Please note: The requirements listed are valid for the academic year 2021-2022 and may be subject to change in subsequent academic years.

Changes to IB mathematics curriculum 2019
The following IB mathematics requirements apply to diplomas from before 2021:

- Programmes requiring Analysis & Approaches HL: math HL is required
- Other programmes: both math SL and H are sufficient

Replacement courses / exams
If you do not meet the conditions stated above, it is possible to obtain certificates for the required subjects in the Netherlands.
See:
- [https://www.rijksoverheid.nl/onderwerpen/eindexamens/staatsexamen/staatsexamen-voorgezet-onderwijs](https://www.rijksoverheid.nl/onderwerpen/eindexamens/staatsexamen/staatsexamen-voorgezet-onderwijs) (information only available in Dutch)
- [http://www.ccvx.nl/](http://www.ccvx.nl/) (not accepted for our bachelor’s programme Physics)

Language requirements Dutch

- Required:
  - NT2, programme II (see: [https://www.cvte.nl/taken-cyte/staatsexamens-nt2](https://www.cvte.nl/taken-cyte/staatsexamens-nt2)); or

**Exemption from the Dutch language requirement can be granted on the basis of Dutch A HL/SL or Dutch B HL.**

Application documents

- Transcript and diploma or a recent transcript and/or predicted grades. Please make sure the transcript shows clearly the level of the subjects taken.
- Information on your Dutch proficiency (courses attended and exams taken)
VWO (Suriname)

**General requirements**
Suriname VWO diploma

**Specific requirements**

- **Physics:** Wiskunde 1 + Natuurkunde
- **Astronomy:** Wiskunde 1 + Natuurkunde
- **Computer Sciences:** Wiskunde 1
- **Bio-Pharmaceutical Sciences:** Wiskunde 1 + Biologie + Scheikunde
- **Biology:** Wiskunde 1 + Natuurkunde + Biologie + Scheikunde
- **Molecular Science & Technology:** Wiskunde 1 + Natuurkunde + Scheikunde
- **Mathematics:** Wiskunde 1

**Please note:** The requirements listed are valid for the academic year 2021-2022 and may be subject to change in subsequent academic years.

**Replacement courses / exams**
If you do not meet the conditions stated above, it is possible to obtain certificates for the required subjects in the Netherlands. See:

- [https://www.rijksoverheid.nl/onderwerpen/eindexamens/staatsexamen/staatsexamen-voorgezet-onderwijs](https://www.rijksoverheid.nl/onderwerpen/eindexamens/staatsexamen/staatsexamen-voorgezet-onderwijs) (information only available in Dutch)
- [http://www.ccvx.nl/](http://www.ccvx.nl/) (not accepted for our bachelor's programme Physics)

**Language requirements**

**English - Recommended:** CEFR level B2 or higher

**Application documents**

- VWO transcript and, if already available, your diploma