



## 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.**

<b>Physics:</b>	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)
<b>Astronomy:</b>	AP Calculus AB or BC + AP Physics 2
<b>Computer Sciences:</b>	AP Calculus AB or BC
<b>Bio-Pharmaceutical Sciences:</b>	AP Calculus AB or BC + AP Biology + AP Chemistry
<b>Biology:</b>	AP Calculus AB or BC + AP Physics 1 + AP Biology + AP Chemistry
<b>Molecular Science &amp; Technology:</b>	AP Calculus AB or BC + AP Physics 2 + AP Chemistry
<b>Mathematics:</b>	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/staatsexamens-nt2>); or
- Admission Exam TUL Intermediate (see: <https://www.universiteitleiden.nl/en/language-centre/language-courses/dutch#dutchfor-prospective-students-tul-intermediate-and-tul-advanced-exams>)

### 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)



## 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.**

<b>Physics:</b>	Mathematik und Physik
<b>Astronomy:</b>	Mathematik und Physik
<b>Computer Sciences:</b>	Mathematik
<b>Bio-Pharmaceutical Sciences:</b>	Mathematik, Chemie und Biologie
<b>Biology:</b>	Mathematik, Chemie und Physik + Biologie (Leistungskurs)
<b>Molecular Science &amp; Technology:</b>	Mathematik und Physik + Chemie (Leistungskurs)
<b>Mathematics:</b>	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/staatsexamens-nt2>); or
- Admission Exam TUL Intermediate (see: <https://www.universiteitleiden.nl/en/language-centre/language-courses/dutch#dutchfor-prospective-students-tul-intermediate-and-tul-advanced-exams>)

**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.**

<b>Physics:</b>	Wiskunde (4) + Fysica (1)
<b>Astronomy:</b>	Wiskunde (4) + Fysica (1)
<b>Computer Sciences:</b>	Wiskunde (4)
<b>Bio-Pharmaceutical Sciences:</b>	Wiskunde (4) + Biologie (1) + Chemie (1)
<b>Biology:</b>	Wiskunde (4) + Fysica (1) + Chemie (1) + Biologie (1)
<b>Molecular Science &amp; Technology:</b>	Wiskunde (4) + Fysica (1) + Chemie (1)
<b>Mathematics:</b>	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:

- <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

**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

<b>Physics:</b>	Mathematique Spécialité + Physique-Chimie Spécialité
<b>Astronomy:</b>	Mathematique Spécialité + Physique-Chimie Spécialité
<b>Computer Sciences:</b>	Mathematique Spécialité
<b>Bio-Pharmaceutical Sciences:</b>	Mathematique (complémentaires or spécialité) + Physique-Chimie spécialité + Sciences Vie & Terre spécialité
<b>Biology:</b>	Mathematique (complémentaires or spécialité) + Physique-Chimie spécialité + Sciences Vie & Terre spécialité
<b>Molecular Science &amp; Technology:</b>	Mathematique Spécialité + Physique-Chimie Spécialité
<b>Mathematics:</b>	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:

- <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/staatsexamens-nt2>); or
- Admission Exam TUL Intermediate (see: <https://www.universiteitleiden.nl/en/language-centre/language-courses/dutch#dutchfor-prospective-students-tul-intermediate-and-tul-advanced-exams>)

**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.**

<b>Physics:</b>	Mathematics (5) + Physics
<b>Astronomy:</b>	Mathematics (5) + Physics
<b>Computer Sciences:</b>	Mathematics (5)
<b>Bio-Pharmaceutical Sciences:</b>	Mathematics (5) + Biology + Chemistry
<b>Biology:</b>	Mathematics (5) + Physics + Biology + Chemistry
<b>Molecular Science &amp; Technology:</b>	Mathematics (5) + Physics + Chemistry
<b>Mathematics:</b>	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:

- <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/staatsexamens-nt2>) or
- Admission Exam TUL Intermediate (see: <https://www.universiteitleiden.nl/en/language-centre/language-courses/dutch#dutchfor-prospective-students-tul-intermediate-and-tul-advanced-exams>)

**English - 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.**

<b>Physics:</b>	Mathematics A + Physics A
<b>Astronomy:</b>	Mathematics A + Physics A
<b>Computer Sciences:</b>	Mathematics A
<b>Bio-Pharmaceutical Sciences:</b>	Mathematics AS or A + Biology A + Chemistry A
<b>Biology:</b>	Mathematics AS or A + Physics AS or A + Chemistry A + Biology A
<b>Molecular Science &amp; Technology:</b>	Mathematics A + Physics A + Chemistry A
<b>Mathematics:</b>	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-cvte/staatsexamens-nt2>); or
- Admission Exam TUL Intermediate (see: <https://www.universiteitleiden.nl/en/language-centre/language-courses/dutch#dutchfor-prospective-students-tul-intermediate-and-tul-advanced-exams>)

\*Exemption from the Dutch language requirement can be granted on the basis of A-level Dutch or IGCSE Dutch 1<sup>st</sup> 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

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

- <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/staatsexamens-nt2>); or
- Admission Exam TUL Intermediate (see: <https://www.universiteitleiden.nl/en/language-centre/language-courses/dutch#dutchfor-prospective-students-tul-intermediate-and-tul-advanced-exams>)

\*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

<b>Physics:</b>	Wiskunde 1 + Natuurkunde
<b>Astronomy:</b>	Wiskunde 1 + Natuurkunde
<b>Computer Sciences:</b>	Wiskunde 1
<b>Bio-Pharmaceutical Sciences:</b>	Wiskunde 1 + Biologie + Scheikunde
<b>Biology:</b>	Wiskunde 1 + Natuurkunde + Biologie + Scheikunde
<b>Molecular Science &amp; Technology:</b>	Wiskunde 1 + Natuurkunde + Scheikunde
<b>Mathematics:</b>	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:

- <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

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

### Application documents

- VWO transcript and, if already available, your diploma