Radboud Universiteit

Admission Requirements

BSc Molecular Life Sciences

study year 2027-2028

General Information and explanatory notes

1. General
   a. The requirements mentioned in this document are valid for the study year 2027-2028
   b. Every year, these requirements are evaluated and re-assessed and, therefore, may be subject to change
   c. The diplomas most frequently used for application are mentioned in this document
   d. (Conditional) admission is not implied, nor guaranteed when your diploma is mentioned on this list
   e. Meeting our admission requirements is mandatory, they reflect the basic level of knowledge necessary to study this program and are not considered to be suggestions

2. Level of diploma
   a. The level of your secondary school diploma should be at least equivalent to the Dutch "vwo"-diploma*
   b. Should your diploma not be mentioned on one the following pages, then it's likely that its level is not vwo-equivalent. If you have questions, send an E-mail to: bachelor-admissions-science@ru.nl to find out
   c. Applications with an insufficient level of prior education will not be assessed for admission
   d. Pre-university years, (college) prep years, foundation programs, or other programs that are meant to upgrade an insufficient level of secondary education to vwo-level in general are not accepted, unless recognized by Radboud University
   e. If a diploma is of insufficient level, it's still of insufficient level, even with high grades. High grades on such a lower level diploma do not compensate for that difference in level

3. Additional exams and certificates
   a. (Additional) requirements regarding school- and/or exam profiles, as well as course and/or grade requirements regarding specific subjects (usually from the field of Science; Mathematics, Physics, Chemistry, Biology) may be set
   b. In some cases, the Board of Admissions may ask for an additional exam in one (or more) Science subject(s)
   c. Such an additional exam is solely meant to eliminate a specific deficiency in a (limited number of) subject(s)
   d. Such an additional exam is not meant to compensate for any possible difference in level of diploma
   e. Additional exam certificates, other than the ones mentioned on our website, are not accepted
   f. SAT's and ACT's are not taken into consideration for admission purposes by the Faculty of Science
   g. All (additional) conditions for admission must be fully satisfied before the start of the program

4. Assessment of applications
   a. The Board of Admissions assesses the eligibility of all applications on an individual basis and, acting in the applicant's best interest, may deviate from these requirements at its own discretion
   b. Eligibility of Applicants that have, or will obtain multiple diplomas will be assessed on only one of them, the applicant indicates on which diploma the admissions decision is to be made
   c. In case the applicant does not do so, the Board of Admissions will make that decision, which is then binding
   d. Different parts of different diplomas may not be combined in order to satisfy admission requirements
   e. Combinations of different high school curricula in consecutive years will be taken into consideration
   f. Requests for admission will only be assessed upon receipt of a complete online application
   g. Requests by E-mail addressing the likeliness or probability of admission will only be answered in general terms

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5. Integrity
    a. We highly appreciate academic integrity
    b. In case of (suspected) fraudulent behavior regarding any aspect of the application, we expressly reserve the right to immediately reject that application
    c. The candidate whose application was rejected because of (suspicion of) fraudulent behavior will be barred from future applications at Radboud University

6. Disclaimer
    a. Although this document was compiled with the utmost care and consideration and should be free from errors, the accuracy and completeness of the provided information cannot be guaranteed, its content therefore is not legally binding

* https://www.nuffic.nl/en/education-systems/the-netherlands/primary-and-secondary-education#vwo-diploma

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Country and Diploma Specific Information

Albania

Required diploma:

- Diplomë e Maturës Shtetërore

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Albanian, Mathematics and 2nd language + elective Physics must have been taken in the Matura exams
- Chemistry must be taken up to and including the final year in high school. For Chemistry, an additional certificate (CCVX/Boswell) is needed

Grade requirements:

- GPA in final year of at least 7 out of 10, with grades for relevant subjects at least 7 out of 10
- GPA in the Matura-exam least 8 out of 10, with grades for relevant subjects at least 8 out of 10

Algeria

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

- The University's Transcript of Records must list passing grades or above

Argentina

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

- The University's Transcript of Records must list passing grades or above

Aruba

Required diploma:

- Diploma Voorbereidend Wetenschappelijk Onderwijs (VWO)

Subject requirements:

- Physics, Chemistry and Mathematics (B)

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Australia

Required diploma:

- Certificate of Education + ATAR (Australian Tertiary Admission Rank)
- The name of the diploma may be different from State/Territory to State/Territory

Subject Requirements:

- Physics, Chemistry and Mathematics should be in the pre-University curriculum in senior secondary school
- Non-academic subjects are not accepted for admission purposes

Grade requirements:

- All grades should be B or higher (grades may vary between States/Territories)
- ATAR score 70 or higher

Austria

Required diploma:

- Reifezeugnis or Reifeprüfungszeugnis from a Gymnasium or Realgymnasium

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- In case of 5 subjects in the Reifeprüfung:
  - Mathematics, Physics and Chemistry must have been taken in the Reifeprüfung
- In case of 4 subjects in the Reifeprüfung
  - Physics must be in the Reifeprüfung, Chemistry must have been taken throughout the Oberstufe

Grade requirements:

- Grades for relevant subjects must be 2 or higher in both Reifeprüfung and Oberstufe
- Grades for all other subjects in the Reifeprüfung must be 3 or higher

Bangladesh

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

- The University's Transcript of Records must list passing grades or above

Belgium

Required diploma:

- Diploma van secundair onderwijs (doorstroom finaliteit) or Certificat d'enseignement secondaire supérieur

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- All relevant subjects must have been taken in the final exam

Grade requirements:

- All grades must be at least 6 or 60%

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Bosnia and Herzegovina

Required diploma:

- Diploma o položenom maturskom ispitu/Diploma o završenoj srednjoj školi/ Diploma o završenoj gimnasiji

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Chemistry and Physics should be taken as the two elective subjects next to the general exam

Grade requirements:

- All grades should be “Very good” or “Excellent”

Brazil

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

- The University’s Transcript of Records must list passing grades or above

Bulgaria

Required Diploma:

- Diploma za Sredno Obrazovanie, academic stream, Natural Sciences profile. If another profile is indicated, or there is no indication at all, the application will not be taken into consideration

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Physics and Chemistry must be in the Matura, both on advanced level

Grade requirements:

- Overall GPA of the final year as well as in the Matura should be at least 5 out of 6. Grades for the relevant subjects must be 6 out of 6, both in the final year and in the Matura

Cameroon

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

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Canada

Required diploma:

- A High School Graduation diploma (STEM pathway), with at least two years in the relevant curriculum and at least five courses in general, academic subjects
- The name of the diploma may be different from State to State

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Physics, Chemistry and Mathematics should be taken on the highest level in the last two years (11 and 12)
- The names of the levels may be different from State to State

Grade requirements:

- The GPA and grades for all relevant subjects should be 75% or higher
- The grading scale may be different from State to State

Caribbean

Required diploma:

- CAPE (Caribbean Advanced Proficiency Exam), awarded by CXC (Caribbean Examination Council)

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics

Grade requirements:

- All relevant subjects must be two units and must have been passed
- At least 4 subjects of 2 units must have been passed

Chile

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

- The University's Transcript of Records must list passing grades or above

China

Required diploma:

- Senior middle school graduation certificate (Gaozhong) + national entrance examination (Gaokao)

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics

Grade requirements:

- All relevant subjects must be taken in the Gaozhong with sub scores higher that 75%
- Mathematics, Chemistry and Physics must have been taken in the Gaokao with sub scores higher than 75%
- Gaokao score of minimum 550 (from a maximum of 750) for Beijing Region. For other regions other scores may apply

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Colloquium Doctum

Required diploma:

- None

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry, Mathematics (B) and English must be obtained

Grade requirements:

- Passing grades for all certificates

Other requirements:

- Applicants must be 21 years of age or older

Colombia

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

- The University's Transcript of Records must list passing grades or above

Croatia

Required diploma:

- Svjedodzba o drzavnoj maturi from a Gymnazijum with at least 5 subjects in the Matura

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Mathematics (A-level), Physics and Chemistry must be in the Matura

Grade requirements:

- All grades in the final year (including those for the Matura) must be at least 4 out of 5

Curaçao, St. Maarten and the BES-Islands

Required diploma:

- Diploma Voorbereidend Wetenschappelijk Onderwijs (VWO)

Subject requirements:

- Physics, Chemistry and Mathematics (B)

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Cyprus

Required diploma:

- Apolytirio Lykeiou, Natural Sciences specialization

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Physics and Chemistry must be examined
- Mathematics may but does not need to be examined. If not examined it must be taken up to and including the final year
- The word “exam” refers to the Apolytirion, not the Pancyprian exams

Grade requirements:

- GPA must be at least 17 out of 20
- Grades for the relevant subjects must be 18 out of 20 or higher in the final year
- Mathematics in the penultimate year must also have a grade 18 out of 20 or higher
- For schools using a 1-100 scale, minimum grades are 85, respectively 90 or higher

Czech Republic

Required diploma:

- Vysvědčení o maturitní zkoušce obtained at a Gymnázium

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Mathematics + elective Chemistry + elective Physics must be in the matura

Grade requirements:

- Relevant subjects must have grade 1 or 2
- No more than a total of 9 points for 4 matura subjects (11 points if a 5th matura subject is taken)

Denmark

Required diploma:

- Higher Preparatory Examination Programme (HF), or Higher Technical Examination Programme (HTX), or Higher General Examination Programme (STX)

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- All 3 relevant subjects must have been taken in the Natural Science cluster on A-level

Grade requirements:

- All grades should be 7 or higher

Ecuador

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

- The University’s Transcript of Records must list passing grades or above

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Estonia

Required diploma:

- Gümnaasiumi Lõputunnistus

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Next to Estonian, foreign language and Mathematics (14 courses) in the State Exam, Physics must be in the School Exam
- An additional certificate on VWO-level in Chemistry is needed

Grade requirements:

- Grades for the relevant subjects must be 4 (B) or higher
- Grades for all other subjects must be 3 (C) or higher

European Baccalaureate

Required diploma:

- European Baccalaureate

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics, all of which must have been taken in the written exams
- Mathematics (5 periods) is compulsory

Grade requirements:

- All relevant subjects must have at least a passing grade (5)

Finland

Required diploma:

- Ylioppilastutkintotodistus/Studentexamensbevis

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Compulsory in matriculation: Mathematics and General Studies
- Compulsory in final year: Chemistry and Physics

Grade requirements:

- Matriculation grades at least 4 (out of 7), or C, M, E, or L

France

Required diploma:

- Diplôme du baccalauréat général

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Compulsory specialties in year 11 and 12: Mathematics (Spécialité) + Physics/Chemistry (Spécialité)

Grade requirements:

- Grades for all relevant subjects should be at least 12/20 in the final year and the final examinations

Baccalauréat Français International (BFI, formerly OIB, language section Anglais (Brittannique/ Américain) grants exemption from an English proficiency test

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Georgia

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

- The University's Transcript of Records must list passing grades or above

Germany

Required diploma:

- Zeugnis der allgemeinen Hochschulreife

Subject requirements:

- Chemistry (Lk) and Mathematics (Lk/Gk) as "Prüfungsfächer"
- Either Physics or Biology must be taken up to and including the final year of High School and can (but need not be) taken in the Abitur
  OR
- Physics (Lk) and Mathematics (Lk/Gk) as "Prüfungsfächer"
- Either Chemistry or Biology must be taken up to and including the final year of High School and can (but need not be) taken in the Abitur

Grade requirements:

- All grades mentioned are on a scale from 0 - 15
- The specifically mentioned "Lk" must have a grade 09 or higher
- All other Science subjects (geprüft/ungeprüft) must have a grade 07 or higher
- English language certificate: Not needed if English was taken during High School, with a minimum grade of 08 in the final year (English can, but need not be taken in the Abitur)

Greece

Required diploma:

- Apolytirio Genikou Lykeiou, Natural Sciences specialization

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Physics and Chemistry must be examined
- Mathematics may but does not need to be examined. If not examined it must be taken up to and including the final year
- The word "exam" refers to the Apolytirion, not the Panhellenic exams

Grade requirements:

- GPA must be at least 17 out of 20
- Grades for the relevant subjects must be 18 out of 20 or higher in the final year
- Mathematics in the penultimate year must also have a grade 18 out of 20 or higher

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HBO-p (first year University of Applied Science)

Required diploma:

- First year (60 EC) of a Dutch University of Applied Sciences (HBO-p)

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry, Mathematics (B) and English (not needed if the language of instruction at the HBO was entirely in English) must be obtained

Grade requirements:

- Passing grades for all certificates

Hong Kong

Required diploma:

- Hong Kong Diploma of Secondary Education (HKDSE) in six subjects

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics

Grade requirements:

- Grades for all subjects should be B (4.00) or higher
- For the subject “Citizen and Social Development” grade “attained”

Hungary

Required diploma:

- Gimnáziumi Érettségi Bizonyítvány

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Next to the four compulsory exam subjects (Hungarian language and literature, History, Mathematics and Second language (English or German)), Chemistry or Physics must be taken as the elective (higher level) exam subject
- If Chemistry is taken as the elective exam subject, an additional certificate on VWO-level for Physics is needed
- If Physics is taken as the elective exam subject, an additional certificate on VWO-level for Chemistry is needed
- Higher Level for the final exams compulsory for Mathematics and Physics / Chemistry

Grade requirements:

- Exam grades for Mathematics and Physics / Chemistry should be 4 or higher
- The other three exam subjects must have a total of at least 8 points together
- Only one subject can have a grade 2 or higher, the other two must have at least a grade 3

Iceland

Required diploma:

- Stúdentspróf (obtained at a Menntaskóli). Natural Sciences

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics

Grade requirements:

- All grades should be 7 or higher

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India

Required diploma:

- Standard XII School Certificate (from either CISCE or CBSE), only academic stream from the science cluster

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Physics, Chemistry and Mathematics must have been taken in the final exams

Grade requirements:

- A total of five academic subjects in the final exams must have been passed with a result of at least 85% (CISCE), or at least A1 or A2 (CBSE)
- Non-externally examined subjects will not be taken into consideration

Indonesia

Required diploma:

- Ijazah Sekolah Menengah (SMA) from an Indonesian Top School, Natural Sciences profile

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Physics, Chemistry and Mathematics are compulsory in the final exams

Grade requirements:

- Minimum grades of 70% are required for the last 6 semesters/3 years

International Baccalaureate

Required Diploma:

- International Baccalaureate (Diploma Program, not Career-related program)

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- At least two of the three relevant subjects must be on HL. The third subject must be on HL or SL
- Mathematics: only A&A (HL or SL) is accepted. A&I (HL or SL) is not accepted
- Subjects from Group 6 (the Arts), will not be considered for admission purposes (HL nor SL), and must be replaced by a 2nd subject from the Science group (Group 4)

Grade requirements:

- An overall score of at least 27 points (not including points for CAS, EE and ToK)
- All grades must be 4 points or higher

Iran

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

- The University's Transcript of Records must list passing grades or above

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Ireland

Required diploma:

- Leaving Certificate Established (LCE) with at least 6 exam subjects, of which at least two on Higher level. Leaving Certificate Vocational Programme is not taken into consideration

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- All 3 relevant subjects must be examined of which at least 2 on HL and 1 on OL or HL
- Subjects from the Applied Science group will not be considered

Grade requirements:

- All grades (HL and OL) must be 4 or higher

Israel

Required diploma:

- Te'udat Bagrut with at least 21 units

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Mathematics must have 4 or 5 units
- The other relevant subjects must each have 3 or more units

Grade requirements:

- All grades must be "almost good" or higher

Italy

Required diploma:

- Diploma di Superamento dell'Esame di Stato Conclusivo from a Liceo Scientifico. A Diploma from a Liceo Linguistico, Classico or Science Umane is not taken into consideration for admission purposes

Subject requirements:

- Required relevant subjects are Physics, Natural Science and Mathematics
- All relevant subjects must be examined

Grade requirements:

- All relevant subjects must have a 6.0 or higher

Japan

Required diploma:

- Kotogakko Sotsugyo Shomeisho (High School Certificate of Graduation)

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics

Grade requirements:

- The GPA in the final year should be at least 4.0 out of 5
- The grades for the relevant subjects should be at least 4.0 out of 5

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Kazakhstan

Required diploma:
- Nazarbayev Intellectual Schools (NIS) Year 12 Certificate

Subject requirements:
- Required relevant subjects are Physics, Chemistry and Mathematics
- All relevant subjects must be included in the NIS certificate

Grade requirements:
- All grades must be at least 4.5 out of 5

Kenya

Required diploma:
- One year of university education in Chemistry

Subject requirements:
- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:
- The University's Transcript of Records must list passing grades or above

Kosovo

Required diploma:
- Gjimnazit, or Diplomë për Kryerjen e Shkollës së Mesme të Lartë – Gjimnazit

Subject requirements:
- Required relevant subjects are Physics, Chemistry and Mathematics
- All relevant subjects must be in the diploma

Grade requirements:
- All grades must be 4 or 5 (out of 5)

Latvia

Required diploma:
- Atestāts par vispārējo vidējo izglītību

Subject requirments:
- Required relevant subjects are Physics, Chemistry and Mathematics
- A centralized examination in two relevant subjects on advanced level
- A centralized examination in the third relevant subject, no lower than the optimal level

Grade requirements:
- All grades should be at least 7 out of 10

Lebanon

Required diploma:
- One year of university education in Chemistry

Subject requirements:
- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:
- The University's Transcript of Records must list passing grades or above

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Lithuania

Required diploma:

- Brandos Atestatas (Mathematics & Natural Sciences stream) with at least five subjects in the Matura, of which at least four are A-level and State exams

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Physics, Chemistry and Mathematics must be on A-level and Matura State exams

Grade requirements:

- Grades in the final year for all subjects must be at least 8
- Grades in the Matura state exams for all subjects must be at least 50 points

Luxembourg

Required diploma:

- Diplôme de fin d'études secondaires classiques, spécialisation sciences naturelles et mathématiques

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics

Grade requirements:

- Grades for the relevant subjects must be at least 40, all other grades at least 35

Malaysia

Required diploma:

- Sijil Tinggi Persekolahan Malaysia (STPM) Matriculation Certificate OR Unified Examination Certificate (UEC)

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- The relevant subjects must be examined

Grade requirements:

- STPM Cumulative GPA must be at least 2.67
- grades for relevant subjects must be 3.00 or higher

OR

- All UEC grades should be B3 or higher

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Malta

Required diploma:

- Malta Matriculation Certificate (Secondary Education Certificate (SEC), organized by the Matriculation and Secondary Education Certificate (MATSEC) Board of the University of Malta) with 2 or 3 Advanced level and 3 or 4 Intermediate level courses, with a total of no less than 6 subjects (2 and 4 or 3 and 3)

Subject requirements

- Required relevant subjects are Physics, Chemistry and Mathematics
- Advanced level courses in two of the three relevant subjects
- The third relevant subject should be taken as an Intermediate or Advanced level course
- Three non-specific academic subjects as Intermediate level courses

Grade requirements:

- All grades must be B or higher

México

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

- The University's Transcript of Records must list passing grades or above

Moldova

Required diploma:

- Diploma de bacalaureat, science (real) profile with a grade B (8.01) or higher

Subject requirements:

- Required relevant subjects are Physics, Chemistry and, Mathematics
- Mathematics and Physics must be taken in the final exams
- Chemistry must be taken in the final year and may, but need not be examined

Grade requirements:

- GPA in the final year must be at least A (9.01-10)
- Grades of all exam subjects must be at least A (9.01-10)
- Grades of all relevant subjects not in the final exam must be at least A (9.01-10)

Morocco

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

- The University's Transcript of Records must list passing grades or above

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Namibia

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

- The University's Transcript of Records must list passing grades or above

The Netherlands

Required diploma:

- Diploma Voorbereidend Wetenschappelijk Onderwijs (VWO)

Subject requirements:

- Physics, Chemistry and Mathematics (B)

New Zealand

Required diploma:

- NCEA Level 3 (NZQF level 3/EQF level 5), with sufficient credits from general level 3 subjects

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- All relevant subjects must be level 3
- Statistics and Probability is not taken into consideration

Grade requirements:

- All relevant subjects must have 14 Credits

North Macedonia

Required diploma:

- Diploma za položena državna matura / Диплома за положена државна матура (Diploma of completed state matura exam) in the Science / Mathematics specialization

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Physics, Chemistry and Mathematics must be in the matura

Grade requirements:

- All grades in the matura must be 3 (on a scale of 5) or higher

Norway

Required diploma:

- Vitnemål for Videregående Skole, General Studies specialisation Natural Science and Mathematics

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- The relevant subjects must have been taken in the final exam

Grade requirements:

- All grades in the final year and the final exams must be 4 or higher

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Pakistan

Required diploma:
- Bachelor of Science (pass) in Chemistry

Subject requirements:
- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:
- The University's Transcript of Records must list passing grades or above

Panama

Required diploma:
- One year of university education in Chemistry

Subject requirements:
- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:
- The University's Transcript of Records must list passing grades or above

Peru

Required diploma:
- One year of university education in Chemistry

Subject requirements:
- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:
- The University's Transcript of Records must list passing grades or above

Philippines

Required diploma:
- One year of university education in Chemistry

Subject requirements:
- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:
- The University's Transcript of Records must list passing grades or above

Poland

Required diploma:
- Świadectwo dojrzałości issued by the Okręgowa Komisja Egzaminacyjna

Subject requirements:
- Required relevant subjects are Physics, Chemistry and Mathematics
- All relevant subjects must have been taken in the Maturity on advanced level

Grade requirements:
- Grades for relevant subjects in the written exams must be at least 50%
- Grades in the final year for relevant subjects must be at least 4 out of 6
- The GPA in the final year must be at least 4 out of 6

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Portugal

Required diploma:

- Diploma / Certificado do Ensino Secundário, Cursos científicos humanísticos (Science and Technology profile), plus Classificações para Acesso ao Ensino Superior (ENES)

Subject requirements:

- Physics, Chemistry and Mathematics (A) in all years of upper secondary education plus an additional certificate on VWO-level in Chemistry

Grade Requirements:

- Diploma or certificado do Ensino Secundário: a grade point average of at least 15 (Média Final)
- The relevant subjects should have a grade 15 or higher
- Classificações para Acesso ao Ensino Superior (ENES): scores of at least 120 (out of 200)

Romania

Required diploma:

- Diploma de Bacalaureat (with Liceul theoretic), Profil Real, specialisation Natural Sciences

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Either Chemistry or Physics must have been taken in the National Bacalaureate Exam
- The relevant subject that was not examined in the Bacalaureat (Chemistry or Physics) must have been taken in the final year of high school

Grade requirements:

- Overall GPA in year 11 and 12 must be at least 8 out of 10
- Grades in the final year and the Baccalaureate for the relevant subjects must be at least 9 out of 10
- GPA of the examined subjects in the Bacalaureat must be at least 9 out of 10

Russia

Required diploma:

- Attestat o Srednem (Polnom) Obshchem Obrazovanii / Attestat Zrelosti

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics (the exact level will be individually assessed)

Grade requirements:

- Silver and gold medals in relevant Olympiads on city, regional or national level, as well as high school grades, will be considered for admission purposes

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Serbia

Required diploma:

- Diploma o stecenom srednem obrazovanju (Diploma of Secondary Education), Academic Stream

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Mathematics must be in the Matura
- Chemistry and Physics must be in the final year of high school

Grade requirements:

- All grades in the Matura and the final year of high school must be 4 or higher

Singapore

Required diploma:

- Singapore-Cambridge GCE A-level in at least 3 H2 + 1 H1 content-based subjects + General Paper/Knowledge and Inquiry (5 different subjects in total)

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- All relevant subjects must have been taken as H2 subjects

Grade requirements:

- Grades for all H1 and H2 must be B or higher
- Grade for H3 (if any) must be “Distinction” or “Merit”

Slovakia

Required diploma:

- Vysvedčenie o maturitnej skúške (obtained at Gymnázium)

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Next to Slovak and English, Mathematics plus Physics, OR Mathematics plus Chemistry must be in the Matura
- If Physics was taken in the Matura, then CCVX/Boswell Chemistry is needed
- If Chemistry was taken in the Matura, then CCVX/Boswell Physics is needed

Grade requirements:

- Grades in the Matura for Mathematics + either Physics or Chemistry must be 1 or 2
- Grades in the Matura for Slovak and English must be 1, 2 or 3
- The total number of points for the four final exam subjects in the Matura must be below 10

Slovenia

Required diploma:

- Splošna Matura (obtained at a Gimnazia)

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Physics and Chemistry must be the two elective subjects in the Matura. Next to the three compulsory subjects (Slovenian/Hungarian/Italian, Mathematics and a foreign language)

Grade requirements:

- All grades in the Matura and the final year must be at least 4 out of 5 (or 8 out of 10)

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South Africa

Required diploma:

- National Senior Certificate (NSC) with 7 examination courses (of which 5 (or more) are academic subjects), either IEB or non-IEB

Subjects requirements:

- In the NSC program, Physical Sciences, Life Sciences and Mathematics are required
- IEB certificate Further studies Mathematics Paper 1 and Paper 2 (standard and extended)
- IEB certificate Further Studies Physics

Grade requirements:

- A minimum result of 55% (IEB) or 75% (non-IEB) for:
  - At least 5 subjects in the NSC program, including the required subjects (not including Life Orientation and Mathematical Literacy)
  - The IEB certificate Further studies Mathematics Paper 1 and Paper 2
  - The IEB certificate Further Studies Physics

South Korea

Required diploma:

- A high school certificate from a Science High School (grades 80 and higher) or, if High School grades are lower than 80
- CSAT with elective Science

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics

Grade requirements:

- Grades for the Certificate from a Science High School must be at least 80
- Grades on CSAT
  for compulsory subjects at least 160
  for the elective Science at least 80

OR

Required diploma:

- One year of university education in Chemistry

Required subjects:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics must be obtained

Grade requirements:

- The University's Transcript of Records must list passing grades or above

Spain

Required diploma:

- Título de Bachiller, modality ciencias, plus Selectividad certificate (EBAU)

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- The Bachillerato and EBAU must include Physics, Chemistry and Mathematics

Grade requirements:

- In the Bachillerato and the EBAU, grades for the relevant subjects must be at least 6

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Surinam

Required diploma:

- Diploma Voorbereidend Wetenschappelijk Onderwijs (VWO)

Subject requirements:

- Physics, Chemistry and Mathematics (B)

Sweden

Required diploma:

- Slutbetyg från Gymnasieskolan, Naturvetenskapsprogrammet/Natural Science Programme

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Physics and Chemistry both on level 1 and 2
- Mathematics level 4

Grade requirements:

- On a grading scale from A-F (A is highest pass, E is lowest pass, F is fail), grades must be B or higher

Switzerland

Required diploma:

- Certificat de Maturité / Maturitätszeugnis / Maturitätsausweis / Maturity Certificate from a Gymnasiale Maturitätsschule / École de Maturité / Baccalaureate School

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Physics and Mathematics must be principal subjects (Schwerpunktfach)
- Chemistry must be a supplementary subjects (Ergänzungsfach)

Grade requirements

- Grades for all relevant subjects should be 4 or higher

Taiwan

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

- The University's Transcript of Records must list passing grades or above

Tanzania

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematic (B) must be obtained

Grade requirements:

- The University's Transcript of Records must list passing grades or above

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Thailand

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

- The University's Transcript of Records must list passing grades or above

Tunisia

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

- The University's Transcript of Records must list passing grades or above

Turkey

Required diploma:

- Lise Diplomasi after 4 years of general secondary education

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- The relevant subjects must be taken in year 11 and 12 with at least the following minimum number of hours:
  Mathematics (6), Chemistry (4), Physics (4)

Grade requirements:

- Overall GPA in year 10, 11 and 12 must be at least 85 out of 100
- Grades for relevant subjects in year 10, 11 and 12 must be at least 85 out of 100
- In case the GPA or the grades for the relevant subjects in year 10 or 11 are lower than 85, but higher than 80, two entry examinations (TYT + AYT), each with 180 points minimum, are needed

Uganda

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

- The University's Transcript of Records must list passing grades or above

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Ukraine

Required diploma:

- Svidotstvo pro zdobuttia povnoi zagalnoi serednoi osvity

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics

Grade requirements:

- Grades for all relevant subjects must be between 10-12 (4th level/high)

United Kingdom (England, Wales, Northern Ireland)

Required diploma:

- (International) General Certificate of Secondary Education ((I)GCSE) in at least 6 subjects (or more), plus a(n) (International) General Certificate of Education in at least 3 subjects (or more) on Advanced Subsidiary (AS)-Level, plus a(n) (International) General Certificate of Education in at least 3 subjects (or more) on Advanced (A)-Level with a total of 6 or more different subjects

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- At least 2 of the 3 (or more) (I)GCE A-levels should be a relevant subject. The 3rd (I)GCE A-level is non-specific
- The third relevant subject (if not examined at (I)GCE A-level) should be taken on AS-level
- Non-academic subjects (including, but not limited to: Art & Design, Music, Music Technology, Drama & Theatre Studies, Design & Technology, Food preparation & Nutrition, etc., etc.) are not taken into account, and do not count towards the minimum number of subjects required for both (I)GCSE and (I)GCE A-levels

Grade requirements:

- In the letter grading system (A*-F), all grades should be B or higher
- In the numerical grading system (1-9), all grades should be 6 or higher

United Kingdom (Scotland)

Required diploma:

- Scottish Qualifications Certificate (SQC) with 4 Highers

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Physics and Mathematics must be Advanced Highers
- Chemistry must be at least a Higher

Grade requirements:

- Grades for all Highers and Advanced Highers should be B or higher

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United States

Required diploma:

- High School Diploma with 4 or more AP (Advanced Placement) Certificates, issued by the College Board

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- The relevant subjects must be AP certificates as follows:
  - Calculus (AB or BC)
  - Chemistry
  - Physics (Physics 2 + Physics 1 OR Physics 2 + Physics C Mechanics)
- Non-academic courses in High School are not taken into consideration
- All AP certificates must be from academic subjects

Grade requirements:

- All AP certificates must have a minimum score of 3 (out of 5)
- High School GPA must be at least 3.5 (out of 4.0) or 4.375 (out of 5.0)
- All relevant subjects in grade 12 must at least have a grade of 3.5 (out of 4.0) or 4.375 (out of 5.0)
- In the letter grading system (A*-F), all grades should be B or higher
- Grades for non-academic courses in High School will not count towards the GPA

Venezuela

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

- The University's Transcript of Records must list passing grades or above

Vietnam

Required diploma:

- Bang Tot Nghiep Pho Thong Trung Hoc

Subject requirements:

- Required relevant subjects are Physics, Chemistry and Mathematics
- Next to Mathematics and Literature, Physics and Chemistry should be in the national examinations

Grade requirements:

- GPA in the national examinations of at least 8, grades for all relevant subjects must be at least 8

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Zimbabwe

Required diploma:

- One year of university education in Chemistry

Subject requirements:

- Additional certificates on VWO-level in Physics, Chemistry and Mathematics (B) must be obtained

Grade requirements:

- The University's Transcript of Records must list passing grades or above