Diploma specific admission requirements
For the bachelor’s programme in Computing Science (study year 2023-2024)

You need to have sufficient previous education to be eligible for this programme. Below, you will find the requirements for the most frequently obtained diplomas. If your diploma is not mentioned below, please send an email to the Admissions Officer of the Faculty of Science (admissionsforbachelors@science.ru.nl) to find out about the specific requirements in your case. For this programme, specific requirements for the subjects from the field of Science (Mathematics, Physics, Chemistry and/or Biology) may have been set. Any course or level deficiency can be eliminated by taking an additional test as per the information provided on our website. SAT’s are not taken into consideration for admission purposes.

Computing Science is a study programme that has a very strong basis in Mathematics. Therefore, we are looking for Mathematics as the most important subject next to at least one other Science subject (preferably Physics or Chemistry) whenever possible. High School subjects such as Programming, Game Design, App Development and the like, will not be taken into consideration for admission purposes, because of their non-standardized content

**Albania**
Next to the 3 compulsory Matura subjects (Albanian, Mathematics and 2nd language), either Physics or Chemistry should be 1 of the 2 elective subjects in the Matura examination
The GPA in the final year should be at least 7 out of 10, the grades for all relevant subjects in the final year should be at least 7 out of 10.
The GPA in the Matura-exam should be at least 8 out of 10, the grades for all relevant subjects that were taken in the Matura should be at least 8 out of 10
Relevant subjects: Mathematics and either Physics or Chemistry

**Bulgaria**
Diploma za Sredno Obrazovanie (academic stream).
Overall GPA of the last year as well as in the Matura should be at least 5 out of 6, grades for specifically relevant subjects, (Mathematics and either Physics or Chemistry) should be 6 out of 6, also in the Matura. Mathematics and either Physics or Chemistry should be in the Matura.
Language School diplomas are not accepted. Should the diploma not specifically mention that it is from a Natural Science or Mathematics High School, it is assumed that the diploma is from a Language School and therefore not taken into consideration
Canada
1. In Ontario: Ontario Secondary School Diploma (OSSD) + at least 6 university preparation courses (U/M) with a minimum of 75% or Ontario Academic Courses (OABC)
2. In Quebec: Diploma d’Etudes Collégiales (DEC) with the designation préuniversitaire
3. In British Columbia: High School Diploma + a relatively large number of academic courses in grades 11 and 12 with good grades
   For OSSD: 6 U/M courses with a minimum of 75%
   U/M courses should at least include the following: Mathematics and either Physics and/or Chemistry
   For BC: Mathematics and either Physics and/or Chemistry should be academic courses

Caribbean
CAPE (Caribbean Advanced Proficiency Exam), awarded by CXC (Caribbean Examination Council). At least 3 subjects of 2 units need to be passed.
   The 2-unit subjects should include Mathematics, Physics and Chemistry

Croatia
Svjedodžba o (drzavnoj) maturi from a Gymnazijum with at least 5 subjects in the Matura. All grades (including those for the Matura) should be at least 4 out of 5
   Next to the compulsory subjects (Croatian, Mathematics (A-level) and a foreign language), either Physics or Chemistry should be in the Matura

Cyprus
Apolytirio (Natural Sciences or Information Science specialization) with a GPA of at least 17, grades for specifically mentioned relevant subjects should be 18 or higher.
   Mathematics and at least one other science subject (either Physics and/or Chemistry) should be in the profile. Mathematics should, the other science subject(s) may, but need not be examined. If not examined, they need to be taken up to and including the final year.
   Relevant subjects: Mathematics plus at least 1 other subject from the field of Science (either Physics and/or Chemistry).

Czech Republic
Vysvědčení o maturitní zkoušce (obtained at a Gymnázium). Grades: maximum of 9 points for 4 exam subjects.
   Compulsory subjects: Czech Language and Literature (grade 1, 2 or 3) and Mathematics (grade 1 or 2)
   Elective subjects: Two of the following three subjects: Physics (grade 1 or 2), Chemistry (grade 1 or 2) or Computer Science (grade 1 or 2)
   Grade 1 - excellent = 100%-86%, Grade 2 - very good = 86% - 68%, Grade 3 - good = 67% - 50%

Denmark
1. Studentereksamenbevis
2. Bevis for Højere Forberedelseseksamen
   Natural Science profile with at least the following subjects:
   - Mathematics (A-level)
   - Physics and/or Chemistry (A-level)
   All grades should be 7 or higher
Estonia
Gümnaasiumi Lõputunnistus, with at least 5 subjects in the final exam, including Mathematics, and either Physics and/or Chemistry
All grades in the final exams should be 3 (or C) or higher, grades for the relevant subjects (Mathematics and either Physics or Chemistry) should be 4 (or B) or higher

European Baccalaureate
Diploma with Mathematics (5 periods), plus at least one other subject from the field of Science (either Physics or Chemistry). All these courses must have been completed as final year courses with at least a passing grade (5)

Finland
Ylioppilastutkintotodistus/Studentexamensbevis. Mathematics and General Studies should be taken in the matriculation examinations. Physics and/or Chemistry should be taken in the final year of high school
Matriculation grades at least 4 (out of 7), or C, M, E, or L

France
Baccalauréat Général Série S (Scientifique) (until 2020), with at least Mathematics and either Physics and/or Chemistry as exam subjects
New French Bac (as of 2021):
Year 11: Mathematics (Spécialité) + Physics/Chemistry
Year 12: Mathematics (Spécialité) + Physics/Chemistry
Grades for all relevant subjects (Mathematics (Spécialité) and Physics/Chemistry) should be at least 12/20 in the final year and the final examinations

Germany
Zeugnis der allgemeinen Hochschulreife.
• Mathematics as “Prüfungsfach” (either Lk or Gk, with a minimum grade 07) and at least one other Science subject as Prüfungsfach (Biology, Physics, Informatics or Chemistry, either Lk or Gk).
• English language certificate: Not needed if English was taken during High School, with a minimum grade 08 in the final year (English can but need not be taken in the Abitur).
• All grades mentioned are on a scale from 0 – 15.

Greece
Apolytirio (Natural Sciences or Information Science specialization) with a GPA of at least 17, grades for specifically mentioned relevant subjects should be 18 or higher.
Mathematics and at least one other science subject (either Physics and/or Chemistry) should be in the profile. Mathematics should, the other science subject(s) may, but need not be examined. If not examined, they need to be taken up to and including the final year.
Relevant subjects: Mathematics plus at least 1 other subject from the field of Science (either Physics and/or Chemistry).

Hungary
Gimnáziumi Érettségi Bizonyítvány
Either Physics or Chemistry should be the elective (5th) exam subject
Exam grades for Mathematics and either Physics or Chemistry should be 4 or higher. The other three exam subjects should have at least 8 points. Only one subject can have a grade 2 or higher, the other two should have at least a grade 3
Iceland
Stúdentspróf (obtained at a Menntaskóli). Natural Sciences, including Mathematics and either Physics and/or Chemistry

India
• The Indian School Certificate (from the CISCE, only academic stream after 12 years of education, Standard XII), from the Science cluster if 5 academic subjects have been passed with a result of at least 85% (out of 100%)
• The All-India Senior School Certificate (from CBSE, only academic stream after 12 years of education, Standard XII), from the Science cluster if 5 academic subjects have been passed with A1 or A2. Since A1 and A2 are positional grades (1st 1/8 and 2nd 1/8), scores for each subject should be at least 85%
• For both Certificates, Mathematics, Physics and Chemistry are required subjects in the exam
• Non-externally examined courses do not count towards meeting the required minimum number of courses, nor to the grade requirement for the five courses as mentioned above

Indonesia
SMA from an Indonesian Top School (*) (Natural Sciences Profile) grants direct admission, if at least Mathematics and either Physics and/or Chemistry are examined in the final exams
Minimum grades of 70% are required for 6 semesters/3 years
(*) Determining which schools are Top Schools is done at the discretion of the Admissions Officers of Radboud University

International Baccalaureate
Diploma Programme (not Career-related programme) with at least 30 points (not including points for CAS, EE and ToK), all grades should be 4 points or higher.
At least two out of the four following subjects should be on HL; Mathematics A&A, Computer Science, Physics and Chemistry, of which Mathematics A&A HL is a requirement. The third subject of these four should be on HL or SL)
Subjects from Group 6 (the Arts), will not be considered for admission purposes (HL nor SL), and should be replaced by a 2nd subject from the Science group (Group 4)

Ireland
Leaving Certificate (established programme) with at least 6 exam subjects, of which at least 2 were at Higher Level.
1st HL subject is Mathematics. At least one other Science subject (either Physics or Chemistry) should also be on the leaving cert (either HL or OL). All grades (both HL and OL) should be 4 and up, and at least 350 CAO points should be achieved.
Leaving Certificate Vocational Programme is not taken into consideration

Israel
Te’udat Bagrut with at least 21 units and all grades “almost good” or higher.
Mathematics 4 or 5 units
At least 1 other subject from the field of Science (either Physics or Chemistry) 3 or more units

Italy
Diploma di Superamento dell’Esame di Stato Conclusivo from a Liceo Classico or Liceo Scientifico (so no Liceo Linguistico)
**Kazachstan**
Nazarbayev Intellectual Schools (NIS) Grade 12 Certificate. All grades should be at least 4.5 out of 5.
Students with an "Atestat" from a regular Kazach High School must write Mathematics, and either Physics and/or Chemistry as two of the six exam subjects + having successfully completed 1 year of University education in a field relevant to Computing Science (Mathematics based programme).

**Kosovo**
*Gjimnazit / Diplomë për Kryerjen e Shkollës së Mesme të Lartë - Gjimnazit*
Including at least Mathematics, and either Physics and/or Chemistry.

**Latvia**
Atestāts par vispārējo vidējo izglītību in the exact sciences cluster with at least Mathematics and either Physics and/or Chemistry. All grades should be at least 7 out of 10.

**Lithuania**
Brandos Atestas par Visparejo Videjo Izglītību (Mathematics & Natural Sciences stream) Seven or eight Matura subjects, of which at least four are state exams on A-level.
At least Mathematics (State exam, A-level) and either Physics (State exam, A-level) and/or Chemistry (State exam, A-level) should be in the Matura. All grades in the final year should be at least 7 out of 10.
Grades in the Matura should be 36 points or higher.

**Luxembourg**
Diplôme de fin d'études secondaires classiques, Spécialisation mathématiques - informatique

**Malaysia**
Sijil Tinggi Persekolahan Malaysia/ Matriculation Certificate (STPM Cumulative GPA should be 3.00 or higher, or Unified Examination Certificate with a GPA of at least 75%)
At least Mathematics and either Physics and/or Chemistry should be examined.

**Moldova**
Diploma de bacalaureat, science (real) profile with a grade 8.01/B or higher.
Mathematics and either Physics or Chemistry should be in the final exams, GPA in the final year at least 9/10. Grades of all exam subjects at least 9/10.

**Norway**
Vitnemål for Videregående Opplaering (Vg1 + Vg2 + Vg3), programme for Specialization in General Studies, with the Natural Science and Mathematics Studies specialization,
Mathematics and either Physics and/or Chemistry should be in the exam. All grades in the final year and the final exams should be 4 or higher.

**Poland**
Mathematics and either Physics or Chemistry in the Maturity on advanced level, minimum grades 50%.
The GPA in the final year should be at least 3 out of 5, grades in the final year for relevant subjects (Mathematics and either Physics or Chemistry) should also be at least 3 out of 5.
**Portugal**
Diploma/Certificado/Certidão do Ensino Secundário (ciências e tecnologías) + at least 1 year of academic education in a to Computing Science related field (Mathematics based)

**Romania**
Diploma de Bacalaureat (with Liceul theoretic)
Only the Natural Sciences or Mathematics & Computer Science profiles are taken into consideration. Overall GPA in the last two years in high school (year 11 and 12) should be at least 8 out of 10. Grades in the final year for specifically relevant subjects (Mathematics and either Computer Science, Physics and/or Chemistry) should be at least 9 out of 10. GPA of the examined subjects in the Bacalaureat should also be at least 9 out of 10. Mathematics and either Computer Science, Physics, or Chemistry should be examined in the Bacalaureat, with a grade of at least 9 out of 10

**Russia**
Attestat o Srednem (Polnom) Obshchem Obrazovanii / Attestat Zrelosti (including Biology, Chemistry, Physics and Mathematics, the exact level will be individually assessed) + at least 1 year of academic education in a to Computing Science related field (Mathematics based)
Silver and gold medals in relevant Olympiads on city, regional or national level will be considered for admission purposes and may lead to exemption from the 1 year of academic education

**Serbia**
Diploma o stecnom srednem obrazovanju or Diploma/Uverenje o položenom maturskom ispitu. Mathematics must be in the Matura, Chemistry and/or Physics should be in the final year of high school.
All grades in the Matura and the final year of high school should be 4 or higher

**Slovakia**
Vysvedčenie o Maturitnej skúške (obtained at a Gymnázium)
Exam subjects: Slovak, English, Mathematics + either Physics or Chemistry or Informatics.
Mathematics and either Physics or Chemistry or Informatics should have a grade 1 or 2. Slovak and English could have a grade 1, 2 or 3, the total number of points for the four final exam subjects not exceeding 9.

**Slovenia**
Splošna Matura (obtained at a Gimnazia)
Next to the three obligated subjects (Slovenian/Hungarian/Italian, Mathematics and a foreign language) either Physics or Chemistry should be one of the two elective subjects in the Matura
All grades in the Matura and the final year should be 4 or higher

**South Africa**
National Senior Certificate with 7 examination courses with an overall average result of 75% for five courses (not included Life Orientation and Mathematical Literacy)
+1 Independent Examination Board (IEB) Advanced Programme Certificate (Mathematics or English) with a result of at least 55%
Subjects in the National Senior Certificate should at least include Mathematics and 1 other subject from the field of Science (Physics or Chemistry)
South Korea
A high school certificate from a Science High School (grades 80 and higher). If the score is lower than 80, then CSAT is needed (160+ for each of the 3 obligatory subjects, 80+ for the elective subject "science"). Or a General High School plus having passed at least 1 year of university study in a field related to Computing Science (Mathematics based)

Spain
Titulo de Bachiller (profile: "ciencias y tecnología" till 2017, "ciencias" as of 2018) + PAU Selectividad (till 2016), or EVAU/EBAU (2017 and later)
Fase obligatoria with Matemáticas II
Fase voluntaria with either Physics and/or Chemistry

Sweden
Slutbetyg från Gymnasieskolan, Naturvetenskapsprogrammet/Natural Science Programme, at least including Mathematics and either Physics and/or Chemistry
On a grading scale from A-F (A is highest pass, E is lowest pass, F is fail), we are looking for grades B or higher

Taiwan
Senior High School Diploma + 1 year of academic education in a field related to Computing Science (Mathematics based)

Turkey
Lise Diplomasi after 4 years of general secondary education with a GPA of at least 85% in year 11 and 12
Natural Sciences cluster with at least 3 science subjects; Mathematics, Physics and Chemistry.
Overall GPA in year 11 and 12 should be at least 85. For all the Science subjects that were taken in year 11 and 12, the grade should be at least 85 out of 100.

Ukraine
Svidotstvo pro zdobuttia povnoi zagalnoi serednoi osvity. Subjects should at least include Mathematics and either Physics and/or Chemistry. Grades for all relevant subjects should be between 10-12 (4th level/high)

United Kingdom
(International) General Certificate of Secondary Education (I)(GCSE) in 6 subjects or more, plus a(n) (international) General Certificate of Education (I)(GCE) with 3 (or more) subjects on advanced level (A-level)
Non-academic subjects (e.g. Art & Design, Music, Music Technology, Drama & Theatre Studies or Design & Technology) 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.
Next to Mathematics, one or more of the following subjects should be on (I)GCE A-level: Physics, Chemistry or Computer Science. The 3rd (I)GCE A-level is non-specific.
One of the GCSE courses should be the third subject of Physics, Chemistry or Computer Science if not examined at GCE A-level
At least 6 (I)GCSE's, all AS-levels and 3 (I)GCE A-levels should have grade B or higher. In the new grading system (1-9), all grades should be 6 and higher. All the specifically mentioned subjects should meet the grade requirements.
United States
High School Diploma with 4 or more AP (Advanced Placement) Certificates
Two of these 4 AP certificates are compulsory subjects: Calculus (AB or BC) and either Physics (2) and/or Chemistry
All AP certificates should have a minimum score of 3 out of 5 (proven by the College Board).
High School GPA at least 3.5 out of 4, all remaining subjects from the field of Science (Physics (2) or Chemistry that was not taken as AP subject) should at least have a grade of 3.5 out of 4.0
Non-academic courses in High School are not taken into consideration and will not count towards the GPA

Vietnam
Bang Tot Nghiep Pho Thong Trung Hoc from a High School of the gifted
GPA in the final year of at least 8, grades for all relevant subjects should be at least 9
Relevant subjects: Mathematics, Physics and Chemistry