



**Universiteit  
Leiden**

Leiden University College  
The Hague

# Mathematics requirements

Admission 2024-2025

LUC offers a Liberal Arts and Sciences programme and in the first year of the programme, all applicants must take a course in mathematics. Although it is offered at two different levels, without a general understanding of mathematics it will be difficult to pass this course and passing this course is a requirement to obtain your bachelor's degree at LUC. Therefore, it is important that, if you decide to apply, you are aware of your mathematics level and skills.

On this list you can view which secondary education mathematics level and grades are considered sufficient to take the LUC mathematics course. Please note that obtaining one of those stated results does not guarantee success in LUC's mathematics course. We strongly advise you to review the mathematics course content [here](#) to assess whether you have the required skills.

## Important notes:

- The mathematics proficiency requirements are an addition to the diploma requirements. Without meeting the diploma requirements you cannot be admitted.
- If you do not have sufficient mathematics skills and you will not obtain any of the results on the stated list, but you are confident that you can improve and are willing to work hard to do so, you need to submit a mathematics improvement plan through the LUC form. If you are admitted to LUC, you will need to take a mathematics diagnostic exam to test your skills and to help you determine which topics you still need to improve on.
- We advise you to review the mathematics course content [here](#) to assess whether you have the required skills to pass this course.

If you require further information regarding admission to Liberal Arts and Sciences: Global Challenges, please contact [LUC's Admissions Office](#).

Click on your diploma/country name to go straight to the relevant information.



# Universiteit Leiden

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## Mathematics requirements Admission 2024-2025

- VWO Diploma - Netherlands
- Boswell-Bèta – certificate
- SAT or ACT mathematics
- Online Mathematics Placement Test - A ([OMPT-A](#))
- Cambridge or Pearson International Examinations
- Caribbean Advanced Proficiency Examination (CAPE)
- European Baccalaureate
- International Baccalaureate (IB)
- US high school diploma from an international school outside the US

### National diplomas:

Algeria	Hungary	Portugal
Argentina	Iceland	Romania
Aruba	India	Russian Federation
Australia	Indonesia	Serbia
Austria	Iran	Singapore
Belgium	Ireland	Sint Maarten
Bosnia and Herzogovina	Israel	Slovakia
Brazil	Italy	Slovenia
Bulgaria	Japan	South Africa
Canada	Jordan	Spain
Chile	Korea, South	Surinam
China	Latvia	Sweden
Colombia	Lithuania	Switzerland
Croatia	Luxembourg	Taiwan
Curaçao	Malaysia	Thailand
Cyprus	Malta	Tunisia
Czech Republic	Mexico	Turkey
Denmark	Moldova	Ukraine
Ecuador	Morocco	United Kingdom
Estonia	Netherlands	Scotland
Finland	New Zealand	Wales
France	Norway	United States
Georgia	Panama	Venezuela
Germany	Peru	Vietnam
Greece	Philippines	
Hong Kong	Poland	

## (International) Diplomas

### **VWO Diploma - Netherlands**

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- Wiskunde B grade 6
- Wiskunde A grade 7
- Wiskunde C grade 8

### **Boswell-Bèta - certificate**

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- VWO Mathematics A grade 7

### **SAT or ACT mathematics**

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- ACT Math score 28
- SAT Mathematics score 650

### **Online Mathematics Placement Test (OMPT)**

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- **OMPT-A** Math with minimum score of 70% (max. 3 attempts)

### **Cambridge or Pearson International Examinations**

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- A-Level Mathematics grade B
- AS-Level Mathematics grade A
- Cambridge Pre-U: Mathematics grade M2 (merit 2)

### **Caribbean Advanced Proficiency Examination (CAPE)**

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- Double unit Mathematics grade III

### **European Baccalaureate**

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- Mathematics 5 periods written examination grade 7.0
- Mathematics 3 periods written examination grade 8.0

### **International Baccalaureate (IB)**

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- Mathematics Analysis & Approaches Higher Level: grade 4
- Mathematics Analysis & Approaches Standard Level: grade 4
- Mathematics Applications & Interpretation Higher Level: grade 4
- Mathematics Applications & Interpretation Standard Level: grade 6

### **US high school diploma from an international school outside the US**

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- AP Calculus AB or BC grade 4 from the College Board
- ACT Math score 28

- SAT Mathematics score 650

## National diplomas

### Algeria

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- National Examination Mathematics score 14

### Argentina

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- Mathematics in final year score 8

### Aruba

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- VWO Mathematics A grade 7

### Australia

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- Australian Capital Territory Year 12 Certificate: Mathematics major T course grade B
- New South Wales Higher School Certificate: Mathematics unit category A Board Developed Course Band 5
- Northern Territory Certificate of Education and Training: Mathematics stage 2 20-credit Tertiary Admissions Subject with grade B
- Queensland Certificate of Education before 2020: Mathematics Authority subject HA. From 2020: Mathematics as Senior External Examination subject with grade B
- South Australian Certificate of Education: Mathematics 20-credit Tertiary Admissions Subject with grade B
- Tasmanian Certificate of Education: Mathematics (year 12) at TQA level 3/ TCE level 5 / C Syllabus level grade B/HA
- Victorian Certificate of Education: Mathematics grade B in grade 12 unit 3 or unit 4
- Western Australia Certificate of Education: Mathematics Year 12 ATAR/WACE course grade B

### Austria

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- Mathematics final year score 2

### Belgium

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- Mathematics final year grade 70

### Bosnia and Herzegovina

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- Mathematics final year score 4

## Brazil

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- ENEM Mathematics result of 600 and a final high school score of 8 for mathematics

## Bulgaria

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- National Mathematics exam with final grade of at least 5.5

## Canada

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- Diplome d'Etudes Collegiales – Préuniversitaire: final year mathematics 70% and subject score higher than class average
- Ontario Secondary School Diploma: Mathematics grade 12 Pre-U course with a score of 80%
- Alberta High School Diploma: Mathematics grade 12 S3 course score of 85%
- British Columbia Senior Secondary Graduation Diploma: Mathematics grade 12 course score 85%
- Manitoba High School Graduation Diploma: Mathematics awarded at grade 12 in S, G or U course score of at least 85%
- New Brunswick High School Graduation Diploma: Mathematics grade 12 academic (level 2) course score of at least 85%
- Newfoundland and Labrador High School Graduation Diploma with Academic Status: mathematics level 3000 (grade 12) course score of at least 85%
- Nova Scotia High School Graduation Diploma: Mathematics grade 12 either academic (ACAD) or advanced (ADV) score of at least 85%
- Saskatchewan Transcript of Secondary Level Achievement (grade 12): Mathematics grade 12 (level 30) course score of at least 85%
- Yukon Certificate of Graduation: Mathematics grade 12 course score of at least 85%

## Chile

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- Final year mathematics score of 6,00 and a score of at least 713 for the PAES and the Puntaje ranking

## China

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- Final score of at least 90% in mathematics and a GaoKao score of at least 120 (out of 150) for mathematics

## Colombia

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- Final year mathematics score of at least 85% or 8,5 out of 10 or 4,6 out of 5

## Croatia

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- Final year mathematics score 4 and Matura exam mathematics at higher/extended level (A/viša)

## Curaçao

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- VWO Mathematics A grade 7

## Cyprus

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### Greek part:

- Final national exam Mathematics score of 18

### Turkish Part:

- Final year mathematics grade of 8.0

## Czech Republic

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- Final mathematics score 'very good' (chvalitebný) and taken in the Matura exams in both the Common (national exam) and in the Profiled (school exam) part.

## Denmark

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- Mathematics level B grade 7

## Ecuador

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- Final year mathematics grade of 8.5 and an Examen de Acceso a la Educación Superior (ENES/Ser Bachiller) score of at least 800 or a pass for mathematics at first year university studies.

## Estonia

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- Final school result at least 4 for Extensive Mathematics and Extensive Mathematics as national state examination >70%

## Finland

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- Final year mathematics grade Magna Cum Laude Approbatur (5)

## France

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- Mathématique Complémentaires year 12 (Terminale) grade 13 or Mathématique Spécialité year 12 (Terminale) grade 10

## Georgia

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- Final year mathematics score 9

## Germany

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- Final Abitur exam Mathematics grade 10 in the written examination

## Greece

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- Final year mathematics score of 15 and mathematics taken in the Pan-Hellenic state exams

## Hong Kong

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- Core subject Mathematics score of 5

## Hungary

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- Mathematics Advanced Level grade 4

## Iceland

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- Mathematics final year grade 7.5

## India

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- All India Senior School Certificate (CBSE) Mathematics final year score 70% and a Positional grade of A2
- Indian School Certificate (CISCE) Mathematics final year score 70% and a Positional grade of A2
- Higher Secondary Certificate (State Boards) Mathematics final year score 90%

## Indonesia

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- Final score of at least 80 in mathematics and either SAT mathematics score 650 or a pass for mathematics taken in the first year of university studies

## Iran

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- Final year mathematics score of at least 15

## Ireland

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- Leaving Certificate: Mathematics Higher Level grade H3

## Israel

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- Unit level 4 or 5 Mathematics with grade 90%

## Italy

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- Final year mathematics grade 7

## Japan

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- Final year Mathematics score of 4 out of 5

## Jordan

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- Final year mathematics percentage 80%

## Korea, South

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- A mark of A (or rank 2 out of 9) in Mathematics and a CSAT Stanine score of 1-3 in Mathematics

## Latvia

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- State examination mathematics score 50%

## Lithuania

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- State examination A-Level Mathematics grade 80%

## Luxembourg

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- Final year mathematics score 40

## Malaysia

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- Sijil Tinggi Persekolahan Malaysia with principle pass: mathematics grade B
- Matriculation Certificate (Matrikulasi) with principle pass: mathematics grade B

## Malta

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- Final year mathematics grade B

## Mexico

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- Final year score of 9.0 for mathematics and mathematics on the EXANI test

## Moldova

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- A result of 9.0 in the Bacalaureate exam for Mathematics



## Morocco

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- National Examination mathematics score 14

## Netherlands

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- VWO Wiskunde B grade 6
- VWO Wiskunde A grade 7
- VWO Wiskunde C grade 8
- Mathematics course in first year at WO level with a grade 6.0
- Mathematics at HBO level is considered case by case.

## New Zealand

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- Mathematics Educational Achievement Level 3 with Excellence Endorsement

## Norway

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- Mathematics final exam subject grade 4

## Panama

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- Final mathematics score of 4.5 (> 90%)

## Peru

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- Final year mathematic grade of 16 ('Muy Bueno' - very good)

## Philippines

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- High school level mathematics insufficient for admission. Only relevant university Bachelor diplomas and mathematics on university level may be considered for admission

## Poland

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- Written exam subject Advanced/Extended level mathematics score 50%

## Portugal

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- Final year mathematics score of 15 and mathematics national (entrance) exam on the Classificações para Acesso ao Ensino Superior (ENES)

## Romania

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- Diplomă de Bacalaureate - Filiera Teoretică (theoretical track): final exam mathematics in final year score 9

## Russian Federation

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- A final score of 5 in mathematics or a score of 70 for mathematics in the Yediniy gosudarstvenniy ekzamen (EGE)

## Serbia

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- Final year mathematics grade 4

## Singapore

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- H2 Singapore-Cambridge GCE A-level in mathematics grade B

## Sint Maarten

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- VWO mathematics A grade 7

## Slovakia

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- Mathematics on Matura exam level A result 65% and high school mathematics result 3

## Slovenia

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- Final year mathematics grade 4

## South Africa

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- Final year mathematics score of 80%. Mathematical literacy is not sufficient

## Spain

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- Final score of 7.5 for mathematics and the university PAU/EBAU/EvAU mathematics exam score of 7.5

## Surinam

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- Wiskunde Q grade 7

## Sweden

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- Good pass in Math 4 or Math 3b or 3c

## Switzerland

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- Final year mathematics grade 5.0

## Taiwan

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- Final year mathematics result 85% and on the GSAT

## Thailand

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- Final year mathematics score 3.5

## Tunisia

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- Final year mathematics grade of 14

## Turkey

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- Final year mathematics score 85%

## Ukraine

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- Final year mathematics at profile level with scores 11-12 and mathematics on the National Multi-Subject Test.

## United Kingdom

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- A-Level Mathematics grade B
- AS-Level Mathematics grade A
- Scotland:  
Mathematics Advanced Higher grade B
- Wales:  
A-level Mathematics grade B

## United States

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- AP Calculus AB or BC grade 4 from the College Board
- ACT Math score 28
- SAT Mathematics (component) score 650
- Regents Diploma (7 exams): Advanced Designation Mathematics score of 85%

## Venezuela

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- Final year mathematics score of at least 16

## Vietnam

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- Final year mathematics score of 8 in the national examinations