THE AMERICAN UNIVERSITY IN CAIRO

SCHOOL OF SCIENCES AND ENGINEERING
Engineering Program
General Requirements

If engineering is your intended major, make sure to write it down in the appropriate field on your application form (intended major). The following majors are available:

- Architectural Engineering
- Computer Engineering
- Construction Engineering
- Electronics Engineering
- Mechanical Engineering
- Petroleum Engineering

The following are the minimum requirements to apply for the engineering majors. Acceptance could be at a higher level depending on available space.

- **American High School Diploma:**
Precalculus and physics, to be covered in grade 11 or 12, as well as chemistry, which could be covered in grade 10, 11 or 12. A minimum SAT I-MATH score of 560 is required to be eligible for admission. SAT II-MATH score (if taken) will be considered if higher than SAT I-MATH score.
Ranking of those who qualify is determined according to the grade point average equivalent at AUC.

- **British Certificate:**
Four O-level science courses (math, physics, chemistry and a fourth science or information technology course), plus **EITHER** two science courses at the AS-level (math and physics or chemistry) **OR** an advanced-level math course. A minimum grade of B is accepted in two courses, provided that not more than one B is earned in math courses.
Ranking of those who qualify is determined according to the IGCSE score.

- **French Baccalaureate:**
Math, physics and chemistry. A minimum grade of 14 in math and an average of 70 percent in these courses is required to be eligible for admission.
Ranking of those who qualify is determined according to the French Baccalaureate score.

- **German Abitur:**
Math, physics and chemistry. A minimum grade of 12 in math, 10 in physics and an average of 10 in these three courses are required to be eligible for admission.
Ranking of those who qualify is determined according to the Abitur score.

- **International Baccalaureate (IB):**
Math, physics and chemistry. A minimum grade of 4 in math and an average of 4 in these three courses are required to be eligible for admission.
Ranking of those who qualify is determined according to the IB score.

- **Ontario, British Columbia or Manitoba Certificate:**
Math in grades 11 and 12, physics in grades 11 or 12, as well as chemistry, which could be covered in grade 10, 11 or 12. A minimum of 80 percent (overall and in science subjects) is required to be eligible for admission.
Ranking of those who qualify is determined according to the Canadian Certificate.

- **Thanawiya Amma:**
Two math courses, as well as physics and chemistry.
Ranking of those who qualify is determined according to the total average of thanawiya amma scores.

- **Thanawiya Amma (Arab Countries):**
Math, physics and chemistry.
Ranking of those who qualify is determined according to the total average score (after excluding religion) depending on results of Egyptian thanawiya amma, plus 2 percent.

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THE AMERICAN UNIVERSITY IN CAIRO

SCHOOL OF SCIENCES AND ENGINEERING
ACTUARIAL SCIENCE
GENERAL REQUIREMENTS

The following is a summary of the admission requirements for each certificate.

■ **American High School Diploma:**
Students must complete advanced math in grade 12 and another science course in grades 10, 11 or 12. A minimum SAT I-MATH score of 560 is required to be eligible for admission.
Ranking of those who qualify is determined according to the grade point average equivalent at AUC.

■ **British Certificate (IGCSE):**
Students must complete O-level and advanced-level math courses. A minimum grade of B in both courses is required to be eligible for admission.
Ranking of those who qualify is determined according to the IGCSE score.

■ **Canadian Certificate:**
Students must complete advanced math (calculus) in grade 12 and another science course in grades 10, 11 or 12. A minimum of 80 percent (overall and science subjects) is required to be eligible for admission.
Ranking of those who qualify is determined according to the Canadian Certificate score.

■ **French Baccalaureate:**
Students must complete math and another science course. A minimum average of 70 percent in both courses is required to be eligible for admission.
Ranking of those who qualify is determined according to the French Baccalaureate score.

■ **German Abitur:**
Students must complete math and another science course. A minimum grade of 12 in math and average of 10 in the two courses is required to be eligible for admission.
Ranking of those who qualify is done according to the Abitur score.

■ **International Baccalaureate (IB):**
Students must complete high-level math and another science course. A minimum grade of 4 in math and an average of 4 in both courses is required to be eligible for admission.
Ranking of those who qualify is determined according to the IB score.

■ **Thanawiya Amma:**
Students must complete two math courses.
Ranking of those who qualify is determined according to the thanawiya amma score, with a minimum of 90 percent.

■ **Thanawiya Amma (Arab Countries):**
Students must complete math and another science course.
Ranking of those who qualify is determined according to the Arab thanawiya amma score after excluding the religion course, with a minimum score of 92 percent.

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THE AMERICAN UNIVERSITY IN CAIRO

SCHOOL OF SCIENCES AND ENGINEERING
COMPUTER SCIENCE
GENERAL REQUIREMENTS

The following is a summary of the admission requirements for each certificate.

- **American High School Diploma:**

Precalculus, physics and another science or computer course, which could be covered in grade 10, 11 or 12. A minimum SAT I-MATH score of 560 is required to be eligible for admission.
Ranking of those who qualify is determined according to the grade point average equivalent at AUC.

- **British Certificate:**

Four O-level science courses (math, physics, and two other science or information technology courses), plus **EITHER** two science courses at the AS-level (math and physics) **OR** an advanced-level math course. A minimum grade of B in a maximum of two of these courses is required, provided that no more than one B is earned in math courses.
Ranking of those who qualify is determined according to the IGCSE score.

- **Canadian Certificate:**

Advanced math (calculus) and physics in grade 12, as well as another science or computer course, which could be covered in grade 10, 11 or 12. A minimum of 80 percent (overall and subjects) is required to be eligible for admission.
Ranking of those who qualify is determined according to the Canadian Certificate score.

- **French Baccalaureate:**

Math, physics and another science or computer course. A minimum average of 70 percent in these courses is required to be eligible for admission.
Ranking of those who qualify is determined according to the French Baccalaureate score.

- **German Abitur:**

Math, physics and another science or computer course. A minimum grade of 12 in math, 10 in physics and an average of 10 in these three courses are required to be eligible for admission.
Ranking of those who qualify is determined according to the Abitur score.

- **International Baccalaureate (IB):**

Math, physics and another science or computer course. An average grade of 4 in these three courses is required to be eligible for admission.
Ranking of those who qualify is determined according to the IB score.

- **Thanawiya Amma:**

One math course, physics and other two science courses.
Ranking of those who qualify is determined according to the thanawiya amma score, with a minimum of 90 percent.

- **Thanawiya Amma (Arab Countries):**

Math, physics and another science course.
Ranking of those who qualify is determined according to the Arab thanawiya amma score, after excluding the religion course, with a minimum of 92 percent.

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THE AMERICAN UNIVERSITY IN CAIRO

SCHOOL OF SCIENCES AND ENGINEERING
CHEMISTRY
GENERAL REQUIREMENTS

The following is a summary of the admission requirements for each certificate.

- **American High School Diploma:**
Math, physics and chemistry. A minimum GPA of 3.0 in all science courses is required to be eligible for admission.
Ranking of those who qualify is determined according to the GPA equivalent at AUC.

- **British Certificate:**
Four O-level science courses (math, physics, chemistry and a fourth science or information technology course), plus **EITHER** two science courses at the AS-level (chemistry and math or physics) **OR** an advanced-level chemistry course. A minimum overall grade of B is required in these courses.
Ranking of those who qualify is determined according to the IGCSE score.

- **Canadian Certificate:**
Math, physics and chemistry.
Ranking of those who qualify is determined according to the Canadian Certificate score.

- **French Baccalaureate:**
Math, physics and chemistry. A minimum average of 60 percent in these courses is required to be eligible for admission.
Ranking of those who qualify is determined according to the French Baccalaureate score.

- **German Abitur:**
Math, physics and chemistry. A minimum grade of 10 in chemistry and an average of 9 in these three courses are required to be eligible for admission.
Ranking of those who qualify is determined according to the Abitur score.

- **International Baccalaureate (IB):**
Math, physics and chemistry. Chemistry must be taken at the high level, while math and physics could be taken at the subsidiary level. The average grade in these courses should not be less than 3 to be eligible for admission.
Ranking of those who qualify is determined according to the IB score.

- **Thanawiya Amma:**
One math course, as well as physics, chemistry and another science course.
Ranking of those who qualify is determined according to the thanawiya amma score, with a minimum of 80 percent.

- **Thanawiya Amma (Arab Countries):**
Math, physics and chemistry.
Ranking of those who qualify is determined according to the Arab thanawiya amma score after excluding the religion course, with a minimum score of 82 percent.

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THE AMERICAN UNIVERSITY IN CAIRO

SCHOOL OF SCIENCES AND ENGINEERING
MATH
GENERAL REQUIREMENTS

The following is a summary of the admission requirements for each certificate.

■ **American High School Diploma:**
Students must take precalculus, physics and another science or computer course, which could be covered in grades 10, 11 or 12.
Ranking of those who qualify is determined according to the GPA equivalent at AUC.

■ **British Certificate:**
Four O-level science courses (math, physics, and two other science or information technology courses), plus **EITHER** two science courses at the AS-level (math and physics) **OR** an advanced-level math course. A minimum grade of B in a maximum of two of these courses is required, provided that the two Bs are not both in math courses.
Ranking of those who qualify is determined according to the IGCSE score.

■ **Canadian Certificate:**
Advanced math (calculus) and physics in grade 12, while another science or computer course could be taken in grades 10, 11 or 12. A minimum of 80 percent (overall and subjects) is required to be eligible for admission.
Ranking of those who qualify is determined according to the **Canadian Certificate** score.

■ **French Baccalaureate:**
Math, physics and another science or computer course. A minimum average of 70 percent in these courses is required to be eligible for admission.
Ranking of those who qualify is determined according to the French Baccalaureate score.

■ **German Abitur:**
Math, physics and another science or computer course. A minimum grade of 12 in math, 10 in physics and an average of 10 in all three subjects is required to be eligible for admission.
Ranking of those who qualify is determined according to the Abitur score.

■ **International Baccalaureate (IB):**
Math, physics and another science or computer course. Math must be taken at the high level, while physics and the other course could be taken at the subsidiary level. The average grade in these courses should not be less than 4 to be eligible for admission.
Ranking of those who qualify is determined according to the IB score.

■ **Thanawiya Amma:**
One math course, physics and two other science courses.
Ranking of those who qualify is determined according to the thanawiya amma score, with a minimum of 90 percent.

■ **Thanawiya Amma (Arab Countries):**
Math, physics and another science course.
Ranking of those who qualify is determined according to the Arab thanaweya amma score, after excluding the religion course, with a minimum of 92 percent.

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THE AMERICAN UNIVERSITY IN CAIRO

SCHOOL OF SCIENCES AND ENGINEERING
PHYSICS
GENERAL REQUIREMENTS

The following is a summary of the admission requirements for each certificate.

■ **American High School Diploma:**
Two math courses and one physics course. Grades received in these courses should satisfy the minimum requirements of the University.
Ranking of those who qualify is determined according to the grade point average equivalent at AUC.

■ **British Certificate:**
Two O-level science courses (math and physics), plus an AS-level course in math.
Ranking of those who qualify is determined according to the IGCSE score.

■ **Canadian Certificate:**
Two math courses and a physics course in grades 11 and 12. Grades received in these courses should satisfy the minimum requirements of the University.
Ranking of those who qualify is determined according to the according to the Canadian Certificate score.

■ **French Baccalaureate:**
Math and physics. Grades received in these courses should satisfy the minimum requirements of the University.
Ranking of those who qualify is determined according to the French Baccalaureate score.

■ **German Abitur:**
Math and physics. Grades received in these courses should satisfy the minimum requirements of the University.
Ranking of those who qualify is determined according to the Abitur score.

■ **International Baccalaureate (IB):**
Math and physics. Grades received in these courses should satisfy the minimum requirements of the University.
Ranking of those who qualify is determined according to the IB score.

■ **Thanawiya Amma:**
Math or science section.
Ranking of those who qualify is determined according to the thanawiya amma score, which should satisfy the minimum requirements of the University.

■ **Thanawiya Amma (Arab Countries):**
Math or science section.
Ranking of those who qualify is determined according to the thanawiya amma score, which should satisfy the minimum grade requirements of the University.

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