



## 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 and Communications Engineering
- Mechanical Engineering
- Petroleum Engineering

The following are the minimum requirements to apply for the engineering majors. Acceptance may be higher depending on available space.

**American High School Diploma:**

To qualify for admission, completion of pre-calculus and physics courses in grades 11 or 12, and chemistry in Grades 10, 11 or 12 is required. In addition to a minimum SAT I-MATH score of 560. If the student completes SAT II, the SAT-MATH score will only be considered if it is higher than the SAT I-MATH score. Also, a minimum GPA of 3.0 in the science courses completed in Grades 10, 11 and 12 is required.

**British Certificate (IGCSE/GCSE):**

Completion of **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 is required to qualify for admission. Students should score As or A\*s in the 5(6) courses. However, a minimum grade of B is accepted in no more than two courses of the 5(6), provided the two Bs are not both in math courses.

**Canadian Certificate:**

Completion of math courses in grades 11 and 12, a physics course in grades 11 or 12, and a chemistry course in grades 10, 11 or 12 is required to qualify for admission. A minimum overall score of 80 percent (overall and science subjects) is required to qualify for admission.

**French Baccalaureate:**

Completion of math, physics and chemistry courses with a minimum grade of 70 percent in math, and an average of 70 percent in the three courses, is required to qualify for admission.

**German Abitur:**

Completion of math, physics and chemistry courses, with a minimum grade of 10 in math and physics and an average of 10 in these three courses, is required to be eligible for admission.

**International Baccalaureate (IB):**

Completion of math, physics and chemistry courses with a minimum grade of 4 in math and an average of 4 in the three courses is required to qualify for admission.

**Thanawiya Amma (Egypt):**

Completion of two math, physics and chemistry courses is required to qualify for admission. Students should not score below the average cut-off score of engineering schools or national universities by more than 2 percent to qualify for admission. The average cut-off score will be announced after the first round of *tanseeq*.

**Thanawiya Amma (Arab Countries):**

Completion of math, physics and chemistry courses is required to qualify for admission. After excluding any religion courses from the overall score, students should not score below the average cut-off score of engineering schools for national universities announced after the first round of *tanseeq* to qualify for admission.

**\*Important Note:**

Students intending to major in architectural engineering must sit for a placement test/workshop addressing the cognitive abilities of students. The test examines spatial visualization and abstract reasoning.



## 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:**

Completion of an advanced-level math course in grade 12, and one other science course in grade 10, 11 or 12 is required to qualify for admission. A minimum SAT I-math score of 560 is required to be eligible for admission.

**❑ British Certificate (IGCSE/GCSE):**

Completion of O-level and advanced-level math courses with a minimum grade of B in each of the two courses is required to qualify for admission.

**❑ Canadian Certificate:**

Completion of an advanced-level math course in grade 12 and one other science course in grade 10, 11 or 12 is needed to be eligible for admission. A minimum overall score of 80 percent in addition to a minimum per subject score of 80 percent are required to qualify for admission.

**❑ French Baccalaureate:**

Completion of a math and one other science course with a minimum average of 70 percent in both courses is required to qualify for admission.

**❑ German Abitur:**

Completion of a math and one other science course is required to qualify for admission. A minimum grade of 10 in a math course and an average of 10 in both courses is required to qualify for admission.

**❑ International Baccalaureate (IB):**

Completion of high-level math and one other science course with a minimum grade of 4 in math and an average of 4 in both courses is required to qualify for admission.

**❑ Thanawiya Amma (Egypt):**

Completion of pure math and applied math courses with a minimum score of 80 percent in each is required to qualify for admission. A minimum overall *thanawiya amma* score of 90 percent is also required to qualify for admission.

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

Completion of math with a minimum score of 92 percent and one other Science course is required to qualify for admission. A minimum overall *thanaweya amma* score of 92 percent is also required to qualify for admission.



SCHOOL OF SCIENCES AND ENGINEERING  
**BIOLOGY**  
GENERAL REQUIREMENTS

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

❑ **American High School Diploma:**

Completion of an upper-level biology course is required to qualify for admission.

❑ **British Certificate (IGCSE/GCSE):**

Completion of AS-level biology, plus one additional AS-level science course with a minimum score of B in each of the two courses, OR an advanced-level biology course with a minimum score of B is required to qualify for admission.

❑ **Canadian Certificate:**

Completion of an upper-level biology course is required to qualify for admission.

❑ **French Baccalaureate:**

Completion of a biology course is required to qualify for admission.

❑ **German Abitur:**

Completion of a biology course is required to qualify for admission.

❑ **International Baccalaureate (IB):**

Completion of a biology course is required to qualify for admission.

❑ **Thanawiya Amma (Egypt):**

Completion of a biology course is required to qualify for admission.

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

Completion of a biology course is required to qualify for admission.

Excluding religion courses, students should not score below the average cut-off score of science schools for Egyptian national universities by more than 2 percent. The cut-off scores are announced after the first round of *tanseq*.



SCHOOL OF SCIENCES AND ENGINEERING  
CHEMISTRY  
GENERAL REQUIREMENTS

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

❑ **American High School Diploma:**

Completion of math, physics and chemistry courses with a minimum GPA of 3.0 in all these science courses is required to qualify for admission.

❑ **British Certificate (IGCSE/GCSE):**

Completion of four O-level science courses (math, physics, chemistry and an additional 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. An average grade of B in the 5(6) courses is required to qualify for admission.

❑ **Canadian Certificate:**

Completion of math, physics and chemistry courses is required to qualify for admission.

❑ **French Baccalaureate:**

Completion of math, physics and chemistry courses with a minimum average of 60 percent in these courses is required to qualify for admission.

❑ **German Abitur:**

Completion of math, physics and chemistry courses with a minimum grade of 10 in chemistry and an average of 9 in all three courses is required to qualify for admission.

❑ **International Baccalaureate (IB):**

Completion of high-level chemistry in addition to math and physics courses, which may be taken at the subsidiary level is required to qualify for admission. An average grade of at least 3 in these three courses is also required to qualify for admission.

❑ **Thanawiya Amma (Egypt):**

Completion of math, physics, chemistry and an additional science course is required to qualify for admission. A minimum overall *thanawiya amma* score of 80 percent is required to qualify for admission.

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

Completion of math, physics and chemistry courses is required to qualify for admission. A minimum overall Arab *thanawiya amma* score of 82 percent (after excluding any religion course) is also required to qualify for admission.



## 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:**

To qualify for admission, completion of pre-calculus, physics and another science or computer course, which could be completed in Grades 10, 11 or 12 is required. In addition, a minimum SAT I-MATH score of 560 and a minimum GPA of 3.0 in the science courses completed in Grades 10, 11 and 12 are required.

❑ **British Certificate (IGCSE/GCSE):**

Completion of four O-level science courses (mathematics, physics and two other science or information technology courses), plus **EITHER** two science courses in the AS-level (math and physics), **OR** an advanced-level math course is required to qualify for admission. Students should score As or A\*s in the 5(6) courses. However, a minimum grade of B is accepted in no more than two courses of the 5(6), provided the two Bs are not both in math courses.

❑ **Canadian Certificate:**

Completion of math courses in grades 11 and 12, and a physics course in grade 11 or 12, (another science or computer course may also be taken in grades 11 or 12) is required to be eligible for admission. A minimum overall score of 80 percent, in addition to a minimum per subject score of 80 percent are required to qualify for admission.

❑ **French Baccalaureate:**

Completion of a math, physics and another science or computer course is required to qualify for admission. A minimum average of 70 percent in the three courses is required to qualify for admission.

❑ **German Abitur:**

Completion of a math, physics and another science or computer course is required to qualify for admission. A minimum grade of 10 in math and physics, and a minimum average of 10 in the three courses are required to qualify for admission.

❑ **International Baccalaureate (IB):**

Completion of a math, physics and another science or computer course is required to qualify for admission. A minimum average grade of 4 in the three courses is required to qualify for admission.

❑ **Thanawiya Amma:**

Completion of a math, physics, chemistry and two additional science courses is required to qualify for admission. A minimum overall thanawiya amma score of 90 percent is required to qualify for admission.

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

Completion of a math, physics and another science course is required to qualify for admission. A minimum overall Arab thanawiya amma score of 92 percent (excluding any religion course) is also required to qualify for admission.



## SCHOOL OF SCIENCES AND ENGINEERING MATH GENERAL REQUIREMENTS

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

**❑ American High School Diploma:**

Completion of pre-calculus and another science or computer course, covered in grades 10, 11 or 12, is required to qualify for admission.

**❑ British Certificate (IGCSE/GCSE):**

Completion of three O-level science courses (mathematics and two other science or information technology courses), plus EITHER AS-level math, OR an advanced-level math course is required for admission. Students should score As or A\*s in the 5(6) courses. However, a minimum grade of B is accepted in no more than two courses of the 5(6), provided the two Bs are not both in math courses.

**❑ Canadian Certificate:**

Completion of advanced-level math (calculus) in grade 12, and another science or computer course taken in grades 10, 11 or 12 is required to qualify for admission. A minimum overall, as well as per subject score of 80 percent, is required to qualify for admission.

**❑ French Baccalaureate:**

Completion of one math and another science or computer course is required to qualify for admission. A minimum average of 70 percent in these courses is required to qualify for admission.

**❑ German Abitur:**

Completion of one math course with a minimum grade of 10 and one other science or computer course is required to qualify for admission.

**❑ International Baccalaureate (IB):**

Completion of high-level math and another science or computer course that can be a subsidiary-level course is required to qualify for admission. A minimum average grade of 4 in the two courses is required to qualify for admission.

**❑ Thanawiya Amma (Egypt):**

Completion of one math course with a minimum score of 80 percent, plus two other science courses is required to qualify for admission. A minimum overall score of 90 percent is also required to qualify for admission.

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

Completion of one math and another science course is required to qualify for admission. A minimum overall score of 92 percent (excluding religion courses) is also required to qualify for admission.



SCHOOL OF SCIENCES AND ENGINEERING  
**PHYSICS**  
GENERAL REQUIREMENTS

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

**American High School Diploma:**

Completion of two math courses and one physics course is required to qualify for admission.

**British Certificate (IGCSE/GCSE):**

Completion of two O-level science courses (math and physics), plus an AS-level math course is required to qualify for admission.

**Canadian Certificate:**

Completion of two math courses and one physics course in grades 11 and 12 is required to qualify for admission.

**French Baccalaureate:**

Completion of math and physics courses is required to qualify for admission.

**German Abitur:**

Completion of math and physics courses is required to qualify for admission.

**International Baccalaureate (IB):**

Completion of math and physics courses is required to qualify for admission.

**Thanawiya Amma (Egypt):**

Only thanawiya amma math or science students are qualified for admission.

**Thanawiya Amma (Arab Countries):**

Only thanawiya amma science students are qualified for admission.