

Admission Criteria and Qualification, Academic Year 2025

TCAS Round 1 (Portfolio)

Faculty of Engineering, Mahidol University

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Website: <https://www.eg.mahidol.ac.th/egmu/education/admissions/bachelor-programs.html>

Bachelor of Engineering Program in Biomedical Engineering

Tuition fee: for Thai nationality students 600,000 Bath (75,000 Bath/semester)

for international students 960,000 Bath (120,000 Bath/semester)

In addition to meeting the basic qualifications outlined in the "Mahidol University Announcement on the Admission and Selection of Individuals for Undergraduate Studies, TCAS Round 1 Portfolio (Round 1/1 and Round 1/2), Academic Year 2025" (ประกาศมหาวิทยาลัยมหิดล เรื่อง การรับสมัครและคัดเลือกบุคคลเข้าศึกษาระดับปริญญาตรี ระบบ TCAS รอบที่ 1 Portfolio (รอบที่ 1/1 และ รอบที่ 1/2) ปีการศึกษา 2568), applicants must also possess the following qualifications and criteria.

Educational Qualifications

1. The applicant must currently be studying in Mathayom 6
2. The applicant must either currently be studying or have earned a High School Certificate of Grade 12 in accordance with the American education system, Year 13 in accordance with the British education system or earned a Diploma or a certificate equivalent to high school education certified by the Ministry of Education, Thailand such as GED, International Baccalaureate (IB), GCE As-Level or GCE A-Level.
3. Applicants with the educational qualifications according to section 1, must have studied in Math-Science program or other relevant programs. For applicants from international high school, any program or field of study is accepted.
4. Applicants with a Diploma or a certificate equivalent to high school education certified by the Ministry of Education, Thailand must complete one of the following requirements:
 - 4.1 GCE AS-Level or GCE A-Level with a minimum of 3 subjects, each with a grade of at least 'C'.
 - 4.2 International Baccalaureate (IB) with a total score of at least 24 points across 6 subjects, with no less than 4 points in each subject.

4.3 GED with a total score of at least 660 points across 4 subjects, with no less than 145 points in each subject.

Academic Achievements

1. Cumulative grade point average (GPAX) ≥ 3.25 (4 semesters for applicants who is currently studying, and 6 semesters for applicants who have graduated.)
2. Grade point average (GPA)

GPA	Physics	Chemistry	Mathematics
	≥ 3.25	≥ 3.25	≥ 3.25

3. Possess a positive attitude towards the biomedical engineering profession.
4. Demonstrate academic excellence in Mathematics, Physics, or Chemistry, or have participated in or received awards, certificates, or achievements in activities during high school.
5. Must not have severe color blindness.
6. The applicant must meet the English proficiency requirement by achieving a minimum score in one of the following English proficiency exams:
 - 6.1 IELTS (Academic test) at least 5.5
 - 6.2 TOEFL-IBT (Internet-based test) at least 65
 - 6.3 TOEFL-ITP (Paper-based test) at least 520
 - 6.4 MU-ELT at least 90
 - 6.5 MU Grad Test (Computer-based test) at least 80
 - 6.6 Duolingo at least 100
 - 6.7 CEFR at least level B2

Note: The English proficiency examinations should have been taken no more than 2 years prior to the interview date.

Application documents (required to be upload on MU-TCAS system)

1. A 1.5 x 2-inch straight-faced student ID photo, without sunglasses or a hat. Digital editing is prohibited. The file must be in .jpg format and must not exceed 240 KB.
2. A copy of the identification card or passport (for international applicants), including the date of birth and passport's expiration date. The document must be signed and certified as a true copy. The file must be in .pdf format and must not exceed 2 MB.

If the applicant's name-surname does not matching with the one in the transcript, a photocopy of name-surname change certificate is required.

3. A copy of the house registration (Thai residents only). The document must be signed and certified as a true copy. The file must be in .pdf format and must not exceed 2 MB.
4. A copy of the most recent transcript (4 semesters for applicants who is currently studying, and 6 semesters for applicants who have graduated.) or a copy of diploma or certificate showing the completion of high school education or equivalent is required, based on the education system. The file must be in .pdf format and must not exceed 2 MB.
5. Portfolio, the entire portfolio should not exceed 10 pages included personal information, educational record, creative work, participation in activities, awards, or certificates from high school years.
6. An essay about future career goals in English, 1 page in length.
7. 3 recommendation letters from reputable individuals, such as teachers from educational institutions or professionals in relevant academic fields. Parents, relatives, or siblings are not accepted as recommenders.
8. Official report of one of the following English proficiency tests as specified in section 6.
9. GPA Certification form (ใบรับรองคะแนนเฉลี่ยของส่วนกลาง), download the form at <https://tcas.mahidol.ac.th>
10. Medical certificate approved by the public or private hospital of any country to certify that the applicant has no health conditions, which may interfere during education. (Medical check-up report and color blindness test)

Interview fees

The qualified applicant eligible for interview must pay the interview fees 200 Bath.

The interview will be assessed based on the following criteria:

Enrollment Eligibility Criteria (Total 100%)		
GPAX	≥ 3.25	25%
GPA		
- Physics	≥ 3.25	
- Chemistry	≥ 3.25	
- Mathematics	≥ 3.25	
English proficiency tests		25%

Enrollment Eligibility Criteria (Total 100%)		
Portfolio		20%
Academic excellence, awards, certificates, or achievements		15%
Professional attitude		10%
Recommendation letters		5%
Interview Assessment (Total 100 points) - Personality - Communication skills - General and professional attitude - General knowledge of engineering		20% 30% 30% 20% To pass the interview, the applicant must achieve a total score of at least 60%.
Medical examination		The test results must meet the specified criteria and the applicant must <u>not</u> have severe color blindness.

Noted: The decision of the Student Admissions Committee for the Bachelor of Engineering program, faculty of Engineering, Mahidol University, for the Academic Year 2025 (Administrative Division) is considered final.

Careers Available After Graduation

1. Researcher with skills and competencies in biomedical engineering.
2. Entrepreneur in the medical technology industry.
3. Various positions in medical device companies, such as product specialist, researcher, or engineer.
4. Officer in government agencies in the field of biomedical engineering or related fields.
5. Biomedical engineer.