

## Admission Criteria and Qualification, Academic Year 2025

### TCAS Round 1 (Portfolio)

Faculty of Engineering, Mahidol University

Tel. 0 28892138 ext. 6030

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

**Bachelor of Engineering Program in Chemical & Process 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 be currently studying in Mathayom 6 (Academic Year 2024 (2567BE)) or have graduated from Mathayom 6 between Academic Year 2021 (2564 BE) and Academic Year 2023 (2566BE))
2. The applicant is currently studying or have earned a High School Certificate of Grade 12 in accordance with the American education system or Year 13 in accordance with the British education system.
3. The applicant must earned a Diploma or a certificate equivalent to high school education certified by the Ministry of Education, Thailand. And the applicant must completed one of the following requirements:
  - 3.1 GCE AS-Level or GCE A-Level with a minimum of 3 subjects, each with a grade of at least 'C'.
  - 3.2 International Baccalaureate (IB) with a total score of at least 24 points across 6 subjects, with no less than 4 points in each subject.
  - 3.3 GED with a total score of at least 660 points across 4 subjects, with no less than 145 points in each subject.

4. Applicants from any program or field of study are accepted, but the transcript must include at least 1 semester of Chemistry or Physics.

### Academic Achievements

1. Cumulative grade point average (GPAX)  $\geq 3.00$  (4 semesters for applicants who is currently studying, and 6 semesters for applicants who have graduated.)
2. Grade point average (GPA)

GPA	Physics or Chemistry	Mathematics	English
	$\geq 3.00$	$\geq 3.00$	$\geq 3.25$

**Note:** Grade point average (GPA) for Physics or Chemistry, Mathematics and English

3. Possess a positive attitude towards the chemical 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. The applicant must meet the English proficiency requirement by achieving a minimum score in **one of the following** English proficiency exams:
  - 5.1 IELTS (Academic test) at least 5.0
  - 5.2 TOEFL-iBT (Internet-based test) at least 64
  - 5.3 TOEIC at least 600
  - 5.4 MU-ELT at least 84
  - 5.5 MU Grad Test (Computer-based test) at least 70
  - 5.6 TOEFL-ITP (Paper-based test) at least 500
  - 5.7 SAT Reasoning Test at least 1,000
  - 5.8 Duolingo at least 90
  - 5.9 CEFR at least Level B2
  - 5.10 IB (English) at least Level 5
  - 5.11 ACT (English & Reading) at least 21
  - 5.12 AP (English) at least Level 3

**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 and must include the following:
  - 5.1 A self-introduction, 1–2 A4 pages in length, addressing the following points:
    - 5.1.1 Reasons for choosing to study in the Bachelor of Engineering in Chemical Engineering.
    - 5.1.2 Future career goals and aspirations.
    - 5.1.3 Attitude towards the chemical engineering profession.
  - 5.2 Any creative work, participation in activities, awards, or certificates from high school years.
6. 3 Recommendation letters from the academic teachers or instructors.
7. GPA Certification form (ใบรับรองคะแนนเฉลี่ย ของส่วนกลาง), download the form at <https://tcas.mahidol.ac.th>
8. 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 Chest X-ray report)

### **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	$\geq 3.00$	Graduates must use grades from 6 semesters, while current students use grades from 4 semesters.
GPA		
<ul style="list-style-type: none"> <li>- Physics or Chemistry</li> <li>- Mathematics</li> <li>- English</li> </ul>	$\geq 3.00$ $\geq 3.00$ $\geq 3.25$	
Interview Assessment (Total 100 points)		
<ul style="list-style-type: none"> <li>- Personality</li> <li>- Communication skills</li> <li>- General and professional attitude</li> <li>- General knowledge of engineering</li> </ul>	20% 30% 30% 20%	To pass the interview, the applicant must achieve a total score of at least 60%.

1. If the applicant's qualifications do not meet the specified criteria, and/ or the submitted documents are incomplete, and/or any documents are found to be false, the faculty reserves the right to disqualify the applicant from admission under any circumstances.
2. The applicant must attend the interview at the date, time, and location announced on the faculty of Engineering's website. **"Failure to attend the interview will be considered as forfeiting the right to enrollment."**
3. 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. Chemical Engineer
2. Process Engineer
3. Process Design Engineer
4. Project Engineer
5. Product Design Engineer
6. Polymer Engineer
7. Pharmaceutical Engineer
8. Energy Engineer