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**Doctor of Philosophy Program in Polymer Science and Technology (International Program)**

**Faculty of Science**

**Department of Chemistry**

**Admission Requirements**

**A candidate must:**

1. Hold a Bachelor's degree in Polymer Science and Technology, Polymer Science, Chemistry, Industrial Chemistry, Physics, Materials Science, or other degrees with an honor grade point average or
2. Hold a Master's degree in Polymer Science and Technology, Polymer Science, or other related fields (e.g. Chemistry, Industrial Chemistry, Physics, Materials Science) with a minimum grade point average of 3.50 and
3. Have a TOEFL ITP score of at least 500, TOEFL Internet-based score of 61 or IELTS score of 5 .

Exemption from the above conditions may be granted by the Program Committee under exceptional circumstances.

**Curriculum Structure**

	<b>Credit</b>
<b>Plan 2</b>	
<b>For students with Bachelor's degree</b>	
Required Courses	19
Elective Courses no less than	5
Thesis	48
<b>For students with Master's degree</b>	
Required Courses	6
Elective Courses no less than	6
Thesis	36

	<b>Credit</b>
<b>Required Courses</b>	
<b>For students with Bachelor's degree</b>	
SCCH 523 Polymer Chemistry	3(3-0-6)
SCCH 524 Polymer Characterisation	1(1-0-2)
SCCH 596 Polymer Rheology and Processing	2(2-0-4)
SCCH 543 Polymer Physics	3(3-0-6)
SCCH 565 Techniques in Polymer Science	2(0-6-2)

SCCH 588 Polymer Seminar I	2(2-0-4)
SCCH 632 Advanced Polymer Chemistry	3(3-0-6)
SCCH 680 Polymer Seminar II	2(2-0-4)
SCID 518 Generic Skills in Science Research	1(1-0-2)
<b>For students with Master's degree</b>	
SCCH 632 Advanced Polymer Chemistry	3(3-0-6)
SCID 518 Generic Skills in Science Research	1(1-0-2)
SCCH 680 Polymer Seminar II	2(2-0-4)
<b>Elective Courses</b>	
<b>1. For students with Bachelor's degree no less than 5 Credit</b>	
<b>2. For students with Master's degree no less than 6 Credit</b>	
SCID 516 Biostatistics	3(3-0-6)
SCCH 526 Polymer Modification	3(3-0-6)
SCCH 527 Polymer Colloids	3(3-0-6)
SCCH 597 Advanced Polymer Processing	3(3-0-6)
SCCH 598 Nanomaterials	3(3-0-6)
SCCH 550 Rubber Science and Technology	3(3-0-6)
SCCH 633 Advanced Polymer Physics	3(3-0-6)
SCCH 634 Polymer Surfaces	3(3-0-6)
SCCH 635 Polymer Blends and Composites	3(3-0-6)
SCCH 668 Selected Topics in Polymer Science and Technology	3(3-0-6)
SCCH 600 Current Topics in Polymer Sciences	3(3-0-6)
<b>Thesis</b>	
SCCH 699 Dissertation	36/48(0-108/144-0)
<b>* These may change in cases where there are suggestions for the improvement of the curriculum</b>	

### **Additional advantages of the programme**

This program is designed to produce high quality graduates of international stature dedicated to research and to train personnel who will support the growth and needs of polymer industries in Thailand.

### **Details of Scholarships**

1. Teaching Assistantships.
2. TGIST Grants.
3. Grants from the Royal Golden Jubilee Ph.D. Program.
4. Scholarship of the 60<sup>th</sup> Year Supreme Reign of His Majesty King Bhumibol Adulyadej.

### **Application Process**

Application is only available *via* online application at [www.grad.mahidol.ac.th](http://www.grad.mahidol.ac.th)

## Required Documents

Prepare the following required documents to submit via online admission system or post:

1. Completed an Online Application at [www.grad.mahidol.ac.th](http://www.grad.mahidol.ac.th) which comprised with
  - Form A** : Application Form
  - Form B** : Background and Proposed Field of Study
  - Form C** : Recommendation Forms (directly submitted by at least 2 referees)
2. Two copies of Degree Certificate (with officially certified English translation)
3. Two copies of Academic Transcript (with officially certified English translation)
4. Two copies of Recent Photos (Passport size)
5. Two copies of Passport
6. Two copies of English certificate (TOEFL/ IELTS/ MU-Grad Test)

### (For Doctoral Program)

- TOEFL ITP score of at least 500, TOEFL Internet-based score of 61, or IELTS score of 5

### (For Master's Program)

- TOEFL ITP score of at least 480, TOEFL Internet-based score of 54, IELTS score of 5 or MU GRAD TEST score of 60.

### Notes

- Only accept TOEFL ITP score from examination center arranged by Faculty of Graduate Studies, Mahidol University.
  - TOEFL ITP taken from other domestic and overseas institutes are invalid.
  - The test date must be within previous 2 years before application date
  - Applicant who obtained a valid English score must submit an **official score certificate** along with your application. Otherwise, your English score will not be considered.
  - Detail of English Competency Standard for Admission:  
<http://www.grad.mahidol.ac.th/en/current-students/language-center.php>
7. Two copies of Curriculum Vitae
  8. Two copies of Statement of Purposes and Career Goals
  9. Two copies of Current bank statement / Scholarship letter (if any)
  10. Two copies of Concept paper / research proposal (recommended for all applicants)
  11. Two copies of additional documents may be requested by each program (such as letter of work experience / professional license/ related certificates and awards)

Submitting documents via online admission system.

- All documents must be in pdf format (maximum size 2 MB)
- Recent photograph must be in jpeg format only (maximum size 2 MB)

### Job option after graduation

- Scientists and experts
  - Research and development personnel
  - Analysts
  - Quality control or processing specialists
  - Entrepreneurs in polymer science and technology and related fields
- In the field of polymer science and technology  
For government or private sectors.

Further information may be obtained from the Director of Graduate Studies,  
Polymer Science and Technology :

1. Assoc. Prof. Panya Sunintaboon (E-mail : [panya.sun@mahidol.ac.th](mailto:panya.sun@mahidol.ac.th))  
Room SC 4-413, SC-4 Building, Floor 4,  
Department of Chemistry, Faculty of Science (Salaya).  
Tel. : 0 2441 9816-20 Ext. 1138 Fax. : 0 2441 0511

**Program Coordinator**

- Mrs. Pimnicha Keawprapan (E-mail : [pim\\_numbuay@hotmail.com](mailto:pim_numbuay@hotmail.com))**  
Room R2/2, SC-3 Building, Floor 2,  
Department of Chemistry, Faculty of Science (Salaya).  
Tel. : 0 2441 9816-20 Ext. 1115 Fax. : 0 2441 0511

**Note** 1. For more education information : [www.grad.mahidol.ac.th](http://www.grad.mahidol.ac.th)

**For more information please contact The Student Admission Section.  
Tel . 0 2441 4125 ext. 208-210 , 0 2441 9129, E-mail : [gradinter@mahidol.ac.th](mailto:gradinter@mahidol.ac.th)**



Department of Chemistry  
MAHIDOL UNIVERSITY

**Statement of Purpose (send by post only)**  
**APPLICANT: Please provide name**

\_\_\_\_\_

(First)

\_\_\_\_\_

(Last)

Please post to: Director of Graduate Program in Polymer Science and Technology  
Department of Chemistry, Faculty of Science, Mahidol University  
Rama 6 Road, Bangkok 10400

**(Applicant must send documents to the Department of Chemistry)**

*This Statement of Purpose **must be posted** to the Director of Graduate Program in Polymer Science and Technology, Department of Chemistry at the above address with postal stamp.*

**Applicant:** Please type or print.

Name of applicant: \_\_\_\_\_  
(first name) (family name)

Current E-mail address: \_\_\_\_\_

Degree applied:  M.Sc.  Ph.D.

Signature of applicant: \_\_\_\_\_ Date: \_\_\_\_\_

**Awards/Distinctions:** List academic awards, prizes, honors, fellowships or other distinctions you have received.

**Work/Research Experience:** List research activities or employment occupation relevant to your graduate goals.

**Publications:** If relevant to your proposed field of study, please list your publications and any scholarly activities.

Statement of Purpose: On the back of this form or in an additional sheet, please state your purpose in applying for graduate study, your particular area of specialization within Polymer Science and Technology, your plans for future occupation or profession, and any additional information that may aid the selection committee in evaluating your preparation and your ability for graduate study.

If you have discussed your plans for graduate study with a faculty member in the Department, please list that person's name: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



### 3. Additional information about the applicant

Please type or print your letter. Write candidly about the applicant to provide additional information, which will serve as additional credentials for the applicant's admission to the Graduate Program. Indicate how long and in what capacity you have known the applicant. Discuss the applicant's qualification and potential to carry on advanced study in the specified field, as well as his or her promise of professional success. In describing such attributes as motivation, intellects, and maturity, discuss both strong and weak points. Indicate rank in class, if possible. *The letter can be written in Thai or in English.*

### 4. Summary

- Strongly recommend
- Recommend
- Not recommended

- Recommend with confidence
- Recommend with reservation

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_ Title: \_\_\_\_\_

E-mail address: \_\_\_\_\_ Telephone: \_\_\_\_\_

Institution: \_\_\_\_\_ Address: \_\_\_\_\_

Mailing the completed recommendation letter: Seal the recommendation letter and this completed form in an envelope and sign your name across the seal. Return the signed, sealed envelope to the applicant well before the deadline indicated. Alternatively, you may send it directly to the Director of Graduate Program in Polymer Science and Technology Department of Chemistry, Faculty of Science, Mahidol University, Rama 6 Road, Rajdhevee, Bangkok 10400. Tel: (02)-201-5110-2 or Fax: (02)-354-7151.

*(Please sent documents to the Department of Chemistry).*

This recommendation letter will remain confidential during the admission process and will only be used in its procedures in admission and fellowships.