

• Department features

- Integrative subject : The department integrates knowledge and technology from the two subject areas of chemical engineering and materials engineering.
- Diversified research fields : This department provides diversified research fields, including materials synthesis and processing, energy materials, nanotechnology, thin film and surface science, catalytic materials, and biomaterials.
- Complete laboratory facilities : The department has modern and complete laboratory facilities and equipment, such as Advanced Materials, Unit Operations, Industrial Analysis, Polymer, Bioengineering, Electronic Ceramics Laboratories, etc.
- Industrial cooperation opportunities : The department has established close cooperative relationships with relevant industrial organizations, allowing students to understand industrial requirements and applications and enhance their employment competitiveness.
- Activities of International : The department actively promotes international exchanges and establishes academic cooperation with universities and research institutions, giving students the opportunity to expand their abilities and horizons.

• Future development

• Employment :

- Chemical industry, Plastic industry, Rubber industry, Optoelectronic semiconductor industry, Biochemical pharmaceutical industry, Material Technology industry, Energy Technology industry, Medical industry, Manufacturing industry, Service industry, Teaching and Public officials, etc.

• Certificates :

- Professional and technical personnel certification, including professional certificates for wastewater treatment, air pollution, industrial safety, and environmental engineering technicians, etc. ◦

• Program Elective Courses

- 「**Process System Engineering Field**」
Process Design, Experimental Design, Application of Computer in Chemical Industry
- 「**Material Engineering Field**」
Nanomaterials, Polymer Materials and Processing, Ceramic Manufacturing, Photoelectric Materials
- 「**Biochemical Engineering Field**」
Introduction to Biochemical Engineering, Microbial Engineering, Bio-Separations Technology

• Industry-oriented Course

- **Enterprise Internship** We offer industry-oriented courses, featuring guest lectures by professionals from various fields. Students also participate in hands-on research. In their final semester, from February to June, they have the option to intern and potentially secure future employment. Such as Holy Stone Enterprise Co., Ltd., and Good Furnace Refractory Industrial Co., Ltd., etc.
- **Forums and Lectures of Industry** (10~20 sessions/semester) and **Factory Visiting** (2~4 sessions/semester)

※Joint Dual-degree

Western Sydney University

- **Undergraduate Student (Bachelor)** :
2 years domestic + 2.5 years overseas.
- **Graduate School (Master)** :
1 years domestic + 1 years overseas.
- Ranked in the top 2% of universities worldwide.
- Ranked among the top 300 universities in the world.

※ By studying in two places and meeting both schools' graduation requirements, you can earn degrees from both.

※Laboratory and Research/Teaching equipment

Laboratory	
Advanced Materials	Unit Operations
Chemical Engineering	Industrial Instrument Analysis
Optoelectronics	Electronic Ceramics
Polymer	Bioengineering
Metallographic analysis	

Guaranteed Employment Scholarships:

Yieh United Steel Corporation

Scholarship Duration: From the third to fourth year, NT\$50,000/semester.
※ Scholarship recipients are required to complete an industrial internship program, and exceptional students will receive priority consideration for full-time employment opportunities after graduation.

Zhen Ding Technology Co., Ltd

Funding Duration: Two years for a master's degree, NT\$90,000/semester.
※ Exceptional students will be given priority for full-time job placement opportunities after graduation."

Work-Study Grant

1. Regular and General Education Courses: NT\$11,000/student.
2. Laboratory Courses: NT\$6,000/ student.
3. Full English-Taught Courses: NT\$11,000/student.

化學工程與材料工程學系

Financial Aid for Students

1. **K. Wah Foundation Scholarship:**
NT\$7,000/student, awarded to 5 students each semester.
2. **Ms. Chan Wong Sau Wan Memorial Scholarship:**
Details available in relevant announcements.
3. **Mr. Yang Shouzhen Memorial Scholarship:**
Details available in relevant announcements.
4. **Outstanding Engineering Student Scholarship from the Chinese Institute of Engineers:**
Details available in relevant announcements.



招生諮詢

