



### 大學部核心能力 Common Professional Elective Courses

- A. 運用數學、科學、生物醫學與工程知識的能力  
Ability to apply mathematics, science, biomedicine and engineering knowledge
- B. 執行實驗設計與數據分析的能力  
Ability to execute experiment design and data analysis
- C. 強化工程實務與應用專業工具的能力  
Ability to strengthen engineering practice and apply professional tools
- D. 設計醫工系統與熟悉臨床醫療器材運作的能力  
Ability to design biomedical engineering system and be familiar with the operation of clinical medical devices
- E. 培養專案管理、跨域整合與團隊合作的能力  
Ability to cultivate project managing, multidiscipline integration and spirit of team work
- F. 發掘、分析與處理問題的能力  
Ability to find, analyze and solve problems
- G. 認識全球時事與培養持續學習的能力  
Ability to know the global news and keep continuous learning
- H. 理解專業倫理、社會責任與多元觀點的能力  
Ability to understand professional ethics, social responsibility and multiple viewpoints

### 大學部基本素養 Profession Literacy for Undergraduate Level

- I. 理解專業醫學與工程倫理及社會責任  
Understand professional medical and engineering ethics and society responsibility.
- J. 培養有效溝通、表達及團隊合作精神之能力  
Cultivate effective communication, presentation, and cooperation.
- K. 培養終身學習的能力  
Lifelong learning ability.
- L. 培養具備國際觀及外語能力  
Global vision and foreign languages.
- M. 永續環境、社會關懷與人文素養  
Care for environment and society, and quality of humanism.

- 必修項目  
Required Courses
- 醫學電子與感測組專業選修  
Professional elective courses for  
Biomedical Electronics and Biosensor track
- 生物力學與材料組專業選修  
Professional elective courses for  
Biomechanics and Biomaterial track
- 共同專業選修  
Common Professional elective courses