



國立嘉義大學  
*National Chiayi University*

## 2014 年外國學生申請入學簡章

Studying at National Chiayi University  
International Degree Program Prospectus 2014

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## II. 2013 學年度開放招收外國學生之系所及學程 Degree Programs Open to International Students in Academic Year 2013

### A. Graduate and Undergraduate Degree Programs

提供的學位學程：**B**:表示學士學位；**M**:表示碩士學位；**D**:表示博士學位

**Available Degree Programs** : **B**: Bachelor's degree; **M**: Master's degree; **D**: Ph. D. degree

College/Department/ Graduate Institute	Website	Degree Offered	Page
<b>理工學院</b>			
<b>College of Science and Engineering</b>		<b><a href="http://www.ncyu.edu.tw/sce_eng/">http://www.ncyu.edu.tw/sce_eng/</a></b>	
應用數學系 Department of Applied Mathematics	<a href="http://www.ncyu.edu.tw/math_eng/">http://www.ncyu.edu.tw/math_eng/</a>	B & M	46
電子物理學系/光電暨固態電子碩士班 Department of Electrophysics/Graduate Institute of Optoelectronics and Solid State Electronics	<a href="http://www.ncyu.edu.tw/phys_en/">http://www.ncyu.edu.tw/phys_en/</a>	B & M	47
應用化學系 Department of Applied Chemistry	<a href="http://www.ncyu.edu.tw/chem_eng/">http://www.ncyu.edu.tw/chem_eng/</a>	B & M & D	47
生物機電工程學系 Department of Biomechatronic Engineering	<a href="http://www.ncyu.edu.tw/bioeng_eng/">http://www.ncyu.edu.tw/bioeng_eng/</a>	B & M	48
土木與水資源工程學系 Department of Civil and Water Resources Engineering	<a href="http://www.ncyu.edu.tw/civil_eng/">http://www.ncyu.edu.tw/civil_eng/</a>	B & M	49
資訊工程學系 Department of Computer Science and Information Engineering	<a href="http://www.ncyu.edu.tw/csie_eng/">http://www.ncyu.edu.tw/csie_eng/</a>	B & M & D	50
電機工程學系 Department of Electrical Engineering	<a href="http://www.ncyu.edu.tw/ee_eng/">http://www.ncyu.edu.tw/ee_eng/</a>	B & M	50
機械工程學系 Department of Mechanical and Energy Engineering	<a href="http://www.ncyu.edu.tw/energy/">http://www.ncyu.edu.tw/energy/</a>	B	51

## IV. 招生系所及相關規定

### Programs of Study- Departmental Requirements

#### F. 理工學院

## College of Science and Engineering

[http://www.ncyu.edu.tw/sci\\_eng/](http://www.ncyu.edu.tw/sci_eng/)



- Address: 300 Syuefu Rd., Chiayi 60004, Taiwan. (R.O.C.)
- Tel: +886-5-2717700
- Fax: +886-5-2717705
- E-mail: sci\_eng@mail.ncyu.edu.tw

The College of Science and Engineering at National Chiayi University is an incubating center for human resources in engineering and technology with training on existing technologies, aiming at industrial diversification, and the introduction of innovative technologies and emerging techniques.

#### Strategic Objectives

- ◆ Several multidisciplinary research teams have been established with the aim of facilitating the outstanding tradition of National Chiayi University in agricultural and biological technologies. The college pledges to continually improve our research facilities and hence provide the faculty with a better research environment.
- ◆ Four college-wide research centers and one laboratory are responsible for integration of various disciplines, provision of services to the industry, technology innovation, and education to students. The four affiliated research centers are: the Toxicology Research Center, the Natural Hazard Mitigation Research Center, the Digital Information Center, and the Automation Technology Research Center. The Hydraulic and Materials Testing Center supports both industrial services and professional teaching.
- ◆ To provide the faculty and students with a vital research and learning environment, the College has constructed a solid e-learning system to provide a world-class education for our students by continually assessing and improving our educational programs.

#### (1) 應用數學系/ Department of Applied Mathematics

代碼 No.	開放申請 學位類別 Program	中文程度要求 Chinese language requirements					TOEFL 成績 TOEFL score	申請時須繳碩士論 文 Master's thesis submission
		聽 Listening	說 Speaking	讀 Reading	寫 Writing	無 None		
501	學士班 Bachelor					◎	◎	
	碩士班 Master					◎	◎	
1. Website: <a href="http://www.ncyu.edu.tw/math">http://www.ncyu.edu.tw/math</a> 2. Tel.: +886-5-2717860 3. Fax: +886-5-2717869 4. Introduction:  The department aims at cultivating specialists in related areas of applied mathematics. Students are trained to develop independent thought as well as logical and analytical ability. It is expected that students learn the true meaning of theory through discussions and solving problems by computer. The department focuses on research and development of information and computational science. Research								

<p>groups are divided into three sections: computational science, probability and statistics, and information science. In addition, micro and nano computing, information content design, information digitalizing artificial intelligence and applied information software are also included. The challenge we face is enormous, and meeting it is essential. Our students deserve and need the best math education possible, one that enables them to fulfill personal ambitions and career goals in an ever-changing world.</p> <p>Bachelor</p> <p>Bachelor courses offered by the department are in the fields of applied mathematics, statistics, information science and computational science. To earn the bachelor's degree from the department, students are required to complete 55 required credits and a minimum of 43 elective credits of (applied) mathematics related courses as well as an additional 30 credits of general education.</p> <p>Master</p> <p>The master's courses offered by the department are in the fields of applied mathematics, statistics, information science and computational science. To successfully complete the master's program, students are required to complete 20 credits of elective courses, 4 credits of seminars, and 6 credits of MA thesis.</p>
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(2) 電子物理學系/光電暨固態電子碩士班 Department of Electrophysics/Graduate Institute of Optoelectronics and Solid State Electronics

代碼 No.	開放申請 學位類別 Program	中文程度要求 Chinese language requirements					TOEFL 成績 TOEFL score	申請時須繳碩士論文 Master's thesis submission
		聽 Listening	說 Speaking	讀 Reading	寫 Writing	無 None		
502	學士班 Bachelor	◎	◎					
	碩士班 Master	◎	◎				◎	
<p>1. Website: <a href="http://www.ncyu.edu.tw/phys_en/">http://www.ncyu.edu.tw/phys_en/</a>  2. Tel.: +886-5-2717910  3. Fax: +886-5-2717909  4. Introduction:</p> <p>Bachelor</p> <p>Development policies and characteristics: The mission of this department is to train <b>students</b> to have the research ability that is necessary for the rapid development of science and technology, and to support the optoelectronics and the semiconductor industries in Taiwan. Course objectives: (1) Foster basic physics knowledge and ability (2) Foster optoelectronics knowledge and ability (3) Foster solid state electronics knowledge and ability (4) Foster experimental skills To complete the program, students are required to complete 128 credits which include <b>65</b> credits of required courses, <b>33</b> for specialized elective courses, and 30 for general education required subjects.</p> <p>Master</p> <p>Development policies and characteristics: With the solid basis of academic research, the developing direction of our department lies mainly on optoelectronics science and solid-state electronic; cooperate enthusiastically with the industrial circles, and thus carry on forward-looking research and technological development. Course objectives: (1) Foster basic physics knowledge and ability (2) Foster optoelectronics knowledge and ability (3) Foster solid state electronics knowledge and ability (4) Foster experimental skills To complete the program, students are required to complete at least 30 credits, which include 4 credits of required courses, 20 of specialized elective courses, and 6 for the MA thesis.</p>								

## (3) 應用化學系/ Department of Applied Chemistry

代碼 No.	開放申請 學位類別 Program	中文程度要求 Chinese language requirements					TOEFL 成績 TOEFL score	申請時須繳碩士論文 Master's thesis submission
		聽 Listening	說 Speaking	讀 Reading	寫 Writing	無 None		
503	學士班 Bachelor					◎	◎	
	碩士班 Master					◎	◎	
	博士班 Ph. D.					◎	◎	◎
<p>1. Website: <a href="http://www.ncyu.edu.tw/chem_eng">http://www.ncyu.edu.tw/chem_eng</a>  2. Tel.: +886-5-2717899  3. Fax: +886-5-2717901  4. Introduction:</p> <p>The Department of Applied Chemistry offers academic programs with bachelor, master, and PhD degrees.</p> <p>Bachelor</p> <p>The undergraduate program in the Applied Chemistry Department aims to provide rigorous education in the fundamental areas of chemical knowledge and chemical experimentation. The courses are also designed to provide excellent preparation for advanced knowledge in the fields of biochemistry and material science, and link with basic and advanced knowledge for understanding the direction of industrial development of contemporary chemistry.</p> <p>To complete the program, students are required to take at least 128 credits, which include 61 credits for required courses, 37 credits for elective courses, 30 credits for general courses.</p> <p>Graduate Programs</p> <p>Master and Ph.D. Programs</p> <p>Teaching focuses on biocatalysis combined with modern organic, physical, analytical chemistry and material subjects for development of the capability of multi-disciplinary; thus, students are able to apply knowledge acquired in technology of biology, medicine, agriculture and materials.</p> <p>Courses are designed to instill in students the basic knowledge in biocatalysis and to improve advanced knowledge in their own professional fields (organic, inorganic, analytic, physical chemistry and bio-materials).</p> <p>To complete the master's program, students are required to complete at least 30 credits, which include 9 credits for required courses, 15 credits for elective courses, and 6 credits for a thesis. To complete the Ph.D. program, students are required to complete at least 34 credits, which include 4 credits for required courses, 18 credits for elective courses, and 12 credits for a thesis.</p>								

## (4) 生物機電工程學系/ Department of Biomechatronic Engineering

代碼 No.	開放申請 學位類別 Program	中文程度要求 Chinese language requirements					TOEFL 成績 TOEFL score	申請時須繳碩士論文 Master's thesis submission
		聽 Listening	說 Speaking	讀 Reading	寫 Writing	無 None		
504	學士班 Bachelor	◎						
	碩士班 Master	◎	◎				◎	
<p>1. Website: <a href="http://www.ncyu.edu.tw/bioeng_eng/">http://www.ncyu.edu.tw/bioeng_eng/</a>  2. Tel.: +886-5-2717640</p>								

<p>3. Fax: +886-5-2717647</p> <p>4. Introduction:</p> <p>Bachelor</p> <p>The department aims are to cultivate students in the fields of production, management, harvest, processing, and quality control for biological systems by applying mechatronics technology. Fundamentals and application of science is the core curriculum. Courses are categorized into required professional, elective professional and general education. The minimum graduation requirement for the bachelor's degree is 128 course credits including 70 required course credits, 28 elective course credits and 30 general course credits. Graduates can engage in the related fields of biological industry for engineering system manufacture and maintenance. They also can study in the graduate school of biomechatronic engineering, mechanical eng., electrical eng., and food eng. for further education.</p> <p>Master</p> <p>The department aims to cultivate the students to be capable of developing mechatronic systems, automation technology, biological products processing and storage, biological system facilities and environmental control. Integration of different fields is emphasized in order to enhance students' capability of applying knowledge to a specific situation. Control, inspection, and development of mechatronic systems are emphasized to meet the requirements of the biological industry. The graduation requirement for the MS program includes 4 required course credits, 20 elective course credits and 6 thesis credits. Graduates can engage in the related fields of biological industry for engineering system design and manufacture.</p>
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(5) 土木與水資源工程學系/ Department of Civil and Water Resources Engineering

代碼 No.	開放申請 學位類別 Program	中文程度要求 Chinese language requirements					TOEFL 成績 TOEFL score	申請時須繳碩士論 文 Master's thesis submission
		聽 Listening	說 Speaking	讀 Reading	寫 Writing	無 None		
505	學士班 Bachelor	◎	◎	◎	◎			
	碩士班 Master	◎	◎	◎	◎		◎	
<p>1. Website: <a href="http://www.ncyu.edu.tw/civil_eng/">http://www.ncyu.edu.tw/civil_eng/</a></p> <p>2. Tel.: +886-5-2717680</p> <p>3. Fax: +886-5-2717693</p> <p>4. Introduction:</p> <p>The Department of Civil and Water Resources Engineering at National Chiayi University offers civil and water resources engineering education as well as research opportunities for the society and the nation. The department's teaching and research activities include hydraulic engineering, water resources engineering, soil and water conservation engineering, geotechnical engineering, structural engineering, and construction management. For career development, graduates can either apply for master's programs at a related graduate school or work at research institutions. They may take exams to obtain licenses of professional engineering in structural, civil, hydraulic, soil and water conservation, survey and geotechnical engineering in order to remain competitive. In addition to this, they can take national exams for governmental jobs. As well, they can also work in engineering consultant corporations or other related occupations.</p> <p>Bachelor</p> <p>The educational objective of the BS program in Civil and Water Resources Engineering is to prepare students to be successful Civil and Water Resources Technology professionals and to be graduate students in Science and Engineering. The curriculum includes the following areas: Introduction of Civil and Water Resources, Hydrology, Fluid Mechanics, Construction Management, Engineering Geology, Soil Mechanics, Theory of Structures, Reinforced Concrete, Water Resources Engineering and Planning, and Foundation Engineering. The minimum graduation requirement for the BS program is 128 course credits including 65 required course credits, 33 elective course credits and 30 general course credits.</p>								

	<p>Master</p> <p>The educational objective of the MS program in Civil and Water Resources Engineering is as follows. Students will demonstrate a breadth of knowledge in Civil and Water Resources Engineering, in-depth knowledge in one of the offered areas, and the ability to conduct a research project under supervision. The minimum graduation requirement for the MS program includes 30 course credits and 6 thesis credits.</p>
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(6) 資訊工程學系/ Department of Computer Science and Information Engineering

代碼 No.	開放申請 學位類別 Program	中文程度要求 Chinese language requirements					TOEFL 成績 TOEFL score	申請時須繳碩士論文 Master's thesis submission
		聽 Listening	說 Speaking	讀 Reading	寫 Writing	無 None		
506	學士班 Bachelor	◎	◎					
	碩士班 Master					◎		
	博士班 Ph. D.					◎		◎
<p>1. Website: <a href="http://www.ncyu.edu.tw/csie_eng/">http://www.ncyu.edu.tw/csie_eng/</a>            2. Tel.: +886-5-2717740            3. Fax: +886-5-2717741            4. Introduction:</p> <p>Information Technology (IT) has been rapidly growing over the past decade and considered a significant future industry all around the world. In terms of the introduction of curriculum, the program focuses on theory, design, development and applications of computer system and information processing techniques. Our curriculum strikes a balance between theory and application so that students will have a solid background in computer science as well as in-depth knowledge and hands-on experience. We devote ourselves to lecturing on information technologies such as interactive media, 3D vision/video biomedical engineering, and a number of others. Some valuable results are being published continuously. Additionally, students may attend professional examinations for an IT-related certificate. This will ensure them a better career position after graduation.</p> <p>Bachelor</p> <p>The educational objective of the BS program in Computer Science and Information Engineering is to provide students with practical Information Technology. The curriculum includes the following areas: Software Engineering and Knowledge Engineering, Interactive Multimedia, and Computer Networks and Information Security. The minimum graduation requirement for BS program is 128 course credits including 59 required course credits, 39 elective course credits and 30 general course credits.</p> <p>Master</p> <p>The educational objective of the MS program in Computer Science and Information Engineering is as follows. Students will demonstrate a breadth of knowledge in Computer Science, in-depth knowledge in one of the offered areas, and the ability to conduct a research project under supervision. The minimum graduation requirement for the MS program includes 28 course credits and 6 thesis credits.</p> <p>Ph.D.</p> <p>The educational objective of the Ph.D. program in Computer Science and Information Engineering is as follows. Students will demonstrate a broad knowledge of the theoretical foundations of Computer Science, in-depth knowledge in the offered areas, and the ability to conduct research independently. The minimum graduation requirement for the Ph.D. program includes 18 course credits, 4 seminar credits and 12 dissertation credits.</p>								

## (7) 電機工程學系/ Department of Electrical Engineering

代碼 No.	開放申請 學位類別 Program	中文程度要求 Chinese language requirements					TOEFL 成績 TOEFL score	申請時須繳碩士論文 Master's thesis submission
		聽 Listening	說 Speaking	讀 Reading	寫 Writing	無 None		
507	學士班 Bachelor					◎		
	碩士班 Master					◎		
<p>1. Website: <a href="http://www.ncyu.edu.tw/ee_eng/">http://www.ncyu.edu.tw/ee_eng/</a>  2. Tel.: +886-5-2717588  3. Fax: +886-5-2717558  4. Introduction:</p> <p>The Department of Electrical Engineering (EE) was established in August 2008 with the mission of educating and <b>incubating</b> valuable high-tech human resources to the electrical engineering related industries. The EE department aims to <b>explore</b> students' potential <b>in finding and solving the</b> basic scientific and engineering problems in electrical engineering related areas, and to help the EE students in fulfilling their career in EE related industries. The curriculum in the EE department emphasizes <b>on both systems and electronics.</b></p> <p><b>Bachelor</b></p> <p>Undergraduate students of the EE department are required to complete a minimum of 128 credits of courses, which includes 30 credits of compulsory courses, 59 credits of required EE courses and 39 credits of elective courses.</p> <p><b>Master</b></p> <p>Graduate students in the master's program of the EE department are required to complete a minimum of 32 credits of courses, which includes <b>2 credits of compulsory seminar courses, 24 elective course credits and 6 thesis credits.</b></p>								

## (8) 機械與能源工程學系/ Department of Mechanical and Energy Engineering

代碼 No.	開放申請 學位類別 Program	中文程度要求 Chinese language requirements					TOEFL 成績 TOEFL score	申請時須繳碩士論文 Master's thesis submission
		聽 Listening	說 Speaking	讀 Reading	寫 Writing	無 None		
508	學士班 Bachelor					◎		
	<p>1. Website: <a href="http://www.ncyu.edu.tw/energy/">http://www.ncyu.edu.tw/energy/</a>  2. Tel.: +886-5-2717560  3. Fax: +886-5-2717561  4. Introduction:</p> <p>The Department of Mechanical and Energy Engineering provides high-quality engineering education and first-rate training in fundamentals and applied aspects of Mechanical and Energy Engineering. Our department places emphasis on the areas of green energy technologies &amp; precision machinery design &amp; manufacturing. There are currently five research groups established to involve students in cutting-edge technologies: Related to electric vehicles, biomass energy, intelligent engines, mechanical power generation, and precision machinery.</p> <p><b>Bachelor</b></p> <p>To earn <b>a bachelor</b> degree, students are expected to complete a minimum of 128 credits : 30 credits of general <b>compulsory courses</b>, 70 credits of required courses, and 28 credits of elective courses.</p>							