

# 中興

NATIONAL CHUNG HSING UNIVERSITY



國立中興大學

National Chung Hsing University



National

**CHUNG HSING**

University

## Contents

- 02 President's Foreword
- 04 History
- 05 Campus
- 06 Academic Affairs at NCHU
- 08 Research at NCHU
- 10 Student Life at NCHU
- 12 International Cooperation at NCHU
- 14 NCHU Academics
- 16 NCHU Administration
- 17 NCHU Statistics
- 18 College of Liberal Arts
- 20 College of Agriculture and Natural Resources
- 22 College of Science
- 24 College of Engineering
- 26 College of Life Sciences
- 28 College of Veterinary Medicine
- 30 College of Management
- 32 College of Law and Politics
- 34 Biotechnology Center
- 35 Center of Nanoscience & Nanotechnology
- 36 Research Center for the Humanities and Social Sciences
- 37 Center for General Education
- 38 Computer and Information Network Center
- 39 Center for Academia-Industry Collaboration and Intellectual Property Management
- 40 Art Center
- 41 Alumni Center
- 42 School of Innovation and Industry Liaison
- 43 Library
- 44 Honors and Awards
- 48 Map of the Campus

# President

## Dr. Der-Tsai Lee

### Current position :

President & Chair Professor of Computer Science and Engineering, National Chung Hsing University (2011–)

### Education :

Ph.D., Computer Science, University of Illinois at Urbana-Champaign, USA (1978)

### Professional Experience :

1. Professor, Department of Electrical and Computer Engineering, Northwestern University, USA (1978–1998)
2. Director, Institute of Information Science, Academia Sinica (1998–2008)
3. Distinguished Research Fellow, Institute of Information Science, Academia Sinica (1998–)
4. Executive Director, Taiwan Information Security Center, Research Center for Information Technology Innovation, Academia Sinica (2007–2011)
5. Chair, CODATA National Member, ICSU, Academy located in Taipei, Academia Sinica, Taiwan (2008–)
6. President, Institute of Information & Computing Machinery, Taipei, Taiwan (2002–2006)
7. Executive Director, National Digital Archives Program (NDAP), National Science Council (2002–2011)
8. Deputy Program Director, Taiwan e-Learning and Digital Archives Program (TELDAP), National Science Council (2007–)

### Honors :

1. Fellow, Institute of Electrical and Electronic Engineers, USA (1992)
2. Fellow, Association for Computing Machinery, USA (1997)
3. Outstanding Research Award, Pan Wen-Yuan Foundation, Taiwan (2001)
4. Information Science Honorary Medal, Institute of Information and Computing Machinery, Taiwan (2002)
5. Academician, Academia Sinica, Taiwan (2004)
6. Humboldt Research Award, Alexander von Humboldt Foundation, Germany (2007)
7. Member, Engineering Sciences, The Academy of Sciences for the Developing World (TWAS), Mexico City, Mexico (2008)
8. Bronze Science Profession Medal, National Science Council, Taiwan (2008)
9. Ambassador Scientist, Alexander von Humboldt Foundation, Germany (2010–)



Many individuals of high caliber have graduated from National Chung Hsing University (NCHU) since its establishment in 1919. First started as a College of Agriculture, NCHU is now one of a few comprehensive national universities with a long history, consolidated basis, and prestigious faculty. The university consists of eight colleges (College of Liberal Arts, College of Agriculture and Natural Resources, College of Science, College of Engineering, College of Life Sciences, College of Veterinary Medicine, College of Management, and College of Law and Politics), and several research centers (Biotechnology Center, Center of Nanoscience and Nanotechnology, Research Center for the Humanities and Social Sciences, E-Commerce Research Center, Center for Environmental Restoration and Disaster Reduction, Center for Advanced Industry Technology and Precision Processing, International Agriculture Center, Bioenergy Research Center, Research Center for Intelligent Automation and Precision Machinery and Animal Medical Center). The Extension Division for In-service and Continuing Education was transformed into School of Innovation and Industry Liaison as a part of a national effort to cultivate professionals for emerging industries. The university possesses various resources and facilities such as four experimental forest stations (Huisun, Hsinhua, Tungshih, and Wenshan) covering a combined area of eight thousand hectares, a veterinary hospital, and several agricultural and veterinary experimental farms. At present, there are 757 faculty members, and 17,259 students enrolled in NCHU. It is the only top research-oriented university in central Taiwan, funded by the Ministry of Education's Aim for Top University Plan.

Since assuming the post in August, 2011, I have been actively coordinating and integrating local resources,

strengthening existing cutting-edge research areas, and promoting environmental restoration and sustainable development, internationalization, and academia-industry collaboration. Our academic goal is to "nurture young adults to have knowledge of both science and the humanities, capability to communicate and innovate, and a global vision tempered by a consciousness of social responsibilities." It is expected that NCHU will become one of the top universities in the world, serving as "Taiwan's knowledge powerhouse and a global think tank."

In terms of research activities, NCHU ranks in the top 1% of Essential Science Indicators (ESI) in eight areas: Agricultural Sciences, Plant & Animal Science, Engineering, Materials Science, Computer Science, Chemistry, Biology & Biochemistry, and Clinical Medicine. Existing outstanding performance in agricultural science, life sciences, and veterinary medicine, accompanied by future research developments in agricultural biotechnology, agricultural green environment, the humanities and social sciences, and advanced industry technology and precision processing will be the driving force for NCHU to become the prime university in central Taiwan.

Meanwhile, NCHU promotes interdisciplinary research activities in digital humanities and art multimedia contents, and enhances green technology and nano technology. NCHU will strengthen collaborations with public and private universities in central Taiwan, and work cooperatively with research institutes and organizations such as Industrial Technology Research Institute of Taiwan, Central Taiwan Science Park, and Chung Hsing New Village Higher-Level Research Park. Together, we will work to develop central Taiwan. NCHU will play an essential role in developing the Western Taiwan Green Technology Corridor by utilizing the above mentioned resources, as well as resources from the Taiwan Comprehensive University System, known as the T4 Alliance.

In terms of international exchange program, we have 176 sister universities around the world, 8 of which have agreements on dual degree programs: University of Delaware (US), AgroParis Tech (France), Czech Technical University in Prague (Czech), La Trobe University (Australia), Toyota Technological Institute (Japan), etc.

In recent years, NCHU has successfully promoted Taiwan's agricultural technology to Southeast Asian countries such as Thailand and Vietnam. We have contracted with Kasetsart University and the Royal Project Foundation of Thailand to provide agricultural technology support, fostering the birth of a think tank for agricultural development in Southeast Asia. Under the International Research-Intensive Centers of Excellence (I-RiCE) Program, initiated by the National Science Council, NCHU has established an international collaborative research

center on Plant and Food Biotechnology (NCHU-UCD Plant and Food Biotechnology Center, PFBC), jointly with the University of California at Davis. In the future, the university will further international collaboration with world-leading universities such as UC San Diego, UCLA, USC, etc. Through the establishment of international research programs, NCHU will become world's leading research think tank. It is our aim that the ranking of agricultural science and technology will climb to world's top 50, and engineering will ascend to world's top 100. The university will not just be a world-leading institute in agriculture and life sciences, but will continue to upgrade other research areas such as "precision processing," "nano technology," "digital humanities," and other areas associated with creative industries to a global-leader level.

Students are the core of education, and to become a top university requires both teaching and research efforts to mold students' character and integrity, develop critical thinking skills, innovation, and independent learning. At NCHU, "students are the focal point," and thus, the university has established an interdisciplinary learning platform to train cross disciplinary work force. Through diverse teaching and service learning activities, students' cultural literacy, self-learning abilities, interpersonal skills, and critical thinking ability can be developed. Students could apply their know-how to solve problems and create innovative knowledge. The university encourages both students and faculty to participate in extra-curricular activities in communities and physical education in the hope of cultivating extraordinary Chung-Hsing-Zen. The university does everything it can to serve all the students, faculty, and alumni, making them proud of being a Chung-Hsing-Zen, and in turn willing to make contributions or donations to the university.

The university's most precious treasures are its prestigious faculty, outstanding students, united alumni, and efficient administrative team. Looking back at its past, NCHU, with the joint efforts of its students and faculty, has become an excellent learning and living environment for teaching, research, and academia-industry collaboration. In the future, NCHU will continue its efforts in consolidating resources and collaboration within and beyond the university, as well as regional and global cooperation in order that the university could excel in its teaching and research, and increase its impact on society and well-being of human development. We will train our students to meet the needs of society so they can easily adapt themselves into the job market when they graduate. With its goals of becoming Taiwan's knowledge powerhouse and a global think tank, NCHU will develop into a world-leading research-oriented comprehensive university.

# History

NCHU has undergone a number of stages of change. It was first established in 1919, during the Japanese occupation, as the Advanced Academy of Agronomy and Forestry in Taipei. In 1928, the academy became a special department affiliated to Taihoku Imperial University (now known as the National Taiwan University). In 1943, the department became an independent school and was moved to Taichung.

After 1945 when control of Taiwan was transferred from Japan to the ROC, the school was reorganized and renamed as "Taiwan Provincial Taichung Agricultural Junior College". In 1946, the Junior College was promoted to the level of provincial college, the Taiwan Provincial College of Agriculture. In 1961, the school was combined with the newly-founded College of Science and Engineering on the same Taichung campus, and the College of Law and Business, established in Taipei in 1949, to form the Taiwan Provincial Chung Hsing University.

Since then, NCHU has continued to grow in size. In 1964, an Evening School was set up on the Taipei campus. In 1968, another Evening School and College of Liberal Arts were added to Taichung campus. In 1971, the school became a national university, and assumed its present name: National Chung Hsing University. The College of Veterinary Medicine was established in September of 1999. In February of 2000, the Taipei campus, including the College of Law & Business and the Taipei Evening School, became the National Taipei University. The College of Social Sciences & Management was established on Taichung campus at the same time.

NCHU has become one of the top universities in Taiwan since the school was granted under the "Development Plan for World Class Universities and Research Centers of Excellence program" funded by the Ministry of Education in 2006. In September, 2010, the Extension Division for In-service and Continuing Education was transformed into the School of Innovation and Industry Liaison. In August, 2011, the College of Social Science & Management was renamed as the College of Management, and the College of Law and Politics was established at the same time.



## Brief History

1919-1928

Advanced Academy of Agronomy and Forestry

1928-1943

A Special Department affiliated to Taihoku Imperial University (now National Taiwan University)

1943-1945

Taichung College of Agronomy and Forestry

1946-1961

Taiwan Provincial College of Agriculture

1961-1971

Taiwan Provincial Chung Hsing University

1971-present

National Chung Hsing University





## Campus

The main campus contains the College of Liberal Arts, the College of Agriculture and Natural Resources, the College of Science, the College of Engineering, the College of Life Sciences, the College of Veterinary Medicine, the College of Management, the College of Law and Politics, and the School of Innovation and Industry Liaison. It is located in the south of Taichung City and has an area of approximately 53 hectares.

The university owns four experimental forest stations located respectively in New Taipei City (Wenshan Forest Station), Nantou County (Huisun Forest Station), Taichung City (Tungshih Forest Station), and Tainan City (Hsinhua Forest Station). It also owns two experimental farms located at Wufeng and Wujih in Taichung City and a Horticultural Experiment Station located at Renai in Nantou County.



<http://www.oaa.nchu.edu.tw/eng/index.htm>

e-mail : [oaaweb@nchu.edu.tw](mailto:oaaweb@nchu.edu.tw)

Tel : +886-4-22840208

Fax : +886-4-22871530



# Academic Affairs at NCHU

First established in 1919 as an academy of Agronomy and Forestry, the National Chung Hsing University (NCHU) is now a comprehensive university where one can study a wide range of disciplines such as agriculture, science, engineering, literature, law and politics, business management, and the veterinary medicine. As one of the 12 institutions supported by the Ministry of Education's NT\$50 billion Aim for Top University Plan, multiple initiatives to strengthen the academic quality of the university have been set up. Because of the resources provided by the university, students are poised to excel academically. The academic goal of the university is to nurture young adults to have knowledge of both science and the humanities, capability to communicate and innovate, and a global vision tempered by a consciousness of social responsibilities.

## DISCIPLINES AND SPECIALTIES

The university has 8 colleges, which are subdivided into 32 departments, 21 graduate institutes and 10 cross-department degree programs, with the Center for General Education as an independent academic organization set up to ensure the balanced study of different academic fields. The School of Innovation and Industry Liaison has seven continuing education programs, all offering

bachelor's degrees. In total, the university offers more than 40 bachelor's programs, 81 master's programs and 38 doctoral programs. The school offers over 6,500 courses each year, among which more than 2,600 are for undergraduate level and 300 are in English, supporting future 10 completely English-taught degree programs. Because of all of this, the academic environment created at NCHU offers all students the freedom to choose their own particular path of learning.

## FACULTY AND STUDENTS

Currently, NCHU has approximately 17,000 students with 757 full-time faculty members, of which 92% hold doctorate degrees from top national and foreign universities. The student population is comprised of 9,730 undergraduates, 5,867 master's students and 1,662 doctoral students. The faculty members at NCHU include 375 professors, 220 associate professors, 131 assistant professors and 31 lecturers, among which there is 1 academican of Academia Sinica, 1 national chair professor by Ministry of Education, 7 chair professors, 80 distinguished professors of the National Science Council. The university has conferred bachelor's, master's and doctoral degrees on over 130,000 graduates since the establishment of NCHU at 1971. Of these there are two

alumni, graduated from the department of plant pathology and veterinary medicine, that have been elected as academicians of Academia Sinica.

### BALANCED CURRICULUM

In order to achieve academic excellence, a complete multi-level education system has been formed at NCHU. In addition to the undergraduate and graduate programs, there is also a professional veterinary school, an extension division for in-service and continuing education and a center for general education, ensuring that humanities, social science and natural science are built-in to every student's curriculum, equally emphasizing both general and specialized knowledge. NCHU offers a series of language courses, community service programs, self-study courses that are designed to improve the students' abilities to think critically, to communicate, to integrate different opinions and to solve problems. One highlight event is the Hui Sun Chair Lecture Series in which international leaders and masters of all disciplines including sciences, politics, business, religion, arts, and sports are invited to share their life experiences of knowledge and practical skills.

### LEARNING AND TEACHING

To better serve the students and faculty and to facilitate academic affairs at NCHU, the office of academic affairs was established. The office of academic affairs assists in student recruitment and admissions, course enrollment, curriculum management, record and transcript management, academic diplomas and certificates, and is responsible for faculty teaching enhancement and development. Outcome-oriented course road maps have been designed for students to satisfy their learning needs. Student coursework is enforced by one-on-one tutoring services to improve both the fundamental and the specialized subjects. Students at academic risk are monitored by a warning system to lessen and hopefully preclude any possibility of dropping out. Internationally, NCHU promotes partnerships with foreign universities and has developed several dual-degree programs with partner universities, more than 40 international institutions are partnered with NCHU, offering hundreds of exchange opportunities each year to further expand student horizons. Faculty members are encouraged to share teaching ideas and learning experiences through specialty workshops and conferences. Mentoring and teaching assistant programs with resource websites are available for new faculty. Strategies to build up young talents at

NCHU are implanted. For instance, contracted exchanges to internationally renowned schools such as UC Berkeley, University of Chicago, Harvard University, Massachusetts Institute of Technology, and London Imperial College are available for faculty as well as students. The ever increasing group of scholars who come from abroad for academic exchanges further enriches the NCHU campus and benefits both the students and the faculty.

### ACADEMIC ALLIANCES

Academic alliances with local elite senior high schools are a strategy that NCHU uses to facilitate regional academic interactions and promote interest in admission to the university. NCHU recently signed agreements with 29 local high schools, offering numerous academic advantages for all participating schools. In addition to the complementary library access, free admission to academic and scientific events and camp discounts, there are reserved spots for pre-college scientific training, college-level AP courses, and summer courses for pre-approved college-bound students from alliance member schools. These course credits are also recognized by the other member universities of the Taiwan Comprehensive University System (TCUS), which includes NCHU, NCKU, CCU and NSYSU.

### LOOKING INTO THE FUTURE

With competitively ranked academic programs, highly competent faculty and outstanding facilities, NCHU offers versatile opportunities to make your academic experience rich and fruitful. We look forward to continuing to foster mature, knowledgeable and responsible students with global vision, concern for our environment and humanity towards others in society.





[http://research.nchu.edu.tw/index\\_en.aspx](http://research.nchu.edu.tw/index_en.aspx)

e-mail : [research@nchu.edu.tw](mailto:research@nchu.edu.tw)

Tel : +886-4-22860139

Fax : +886-4-22852787

## 農業科學競逐世界

### 研究成果

**農業科學排名進入世界百大**

本校農業科學領域在2012年QS世界大學排名中，首度進入世界百大，2013年QS世界大學排名中，首度進入世界前100名，2014年QS世界大學排名中，首度進入世界前50名，2015年QS世界大學排名中，首度進入世界前20名，2016年QS世界大學排名中，首度進入世界前10名，2017年QS世界大學排名中，首度進入世界前5名，2018年QS世界大學排名中，首度進入世界前3名，2019年QS世界大學排名中，首度進入世界前1名。

### ESI 農業科學排名迅速提升

Year	Rank
2006	1257
2007	1077
2008	94
2009	91
2010	85
2011	80
2012	79

### 國際化

**學術合作與產學研合作**

- 與美國加州大學聖地亞哥分校 (UCSD) 合作，共同開發「智慧農業」。
- 與美國加州大學聖地亞哥分校 (UCSD) 合作，共同開發「智慧農業」。
- 與美國加州大學聖地亞哥分校 (UCSD) 合作，共同開發「智慧農業」。

**實踐「文化綠色砂谷」**



# Research at NCHU

## BUILDING UP "A WORLD-CLASS RESEARCH ENVIRONMENT"

In support of NCHU's goal to become one of the top research universities in the world, the office of R&D along with 4 advanced research centers and 8 colleges on campus have made great efforts to provide a world-class research environment which is internationally competitive, has a research vision and ambition, and cares about global issues.

## RESEARCH TEAMS AT NCHU

NCHU has more than 90 years of history and a good reputation for its participation in the agricultural industry and environmental protection acts. Experts in the fields of biotechnology and sustainable development on campus have helped to achieve an affordable, sustainable and clean supply of food and energy and to sustain a clean environment. In addition to its full support of two of the most competitive research fields, agricultural biotechnology and sustainable development technology, NCHU has set up three top-ranking research centers: First, the Center for Advanced Industry Technology and Precision Processing, which is focused on the new generation of ultraviolet light-emitting diodes (UV-LEDs) as well as the required UV-resistant packaging materials, construction of interdisciplinary patent engineering, and establishment of miniaturized eco-UV application systems. Second, the

Animal Medical Center, which is focused on the functional genomics for domestic animals and the development of vaccines. Third, the Research Center for Intelligent Automation and Precision Machinery, which aims to create an intelligent-living environment and provide advanced automation solutions for industry. NCHU actively promotes cutting-edge research projects as well as many interdisciplinary and international research collaborations.

## RESEARCH FOCUSES

NCHU is well known for its outstanding research in agricultural biotechnology, particularly in the fields of agricultural molecular biotechnology, transgenic plant and animal science, and agricultural production. The research outcomes derived are the school's invaluable assets, giving NCHU a competitive edge among the world's top-ranking universities. With the efforts of all experts on campus, NCHU has grown quickly in these research areas.

NCHU's faculty have also made great contributions to the advancement of Taiwan's international agricultural aid and diplomatic relationships with other nations. Additionally, in 2012, the "NCHU-UCD Plant and Food Biotechnology Center" has also been founded in collaboration with UC Davis.

In terms of sustainable development technology, NCHU is leading the country in research on disaster prevention and energy-saving, and has made great achievements in

the fields of environmental protection technology, disaster prevention technology, advanced industry technology and precision processing.

In addition to the two major fields, agricultural biotechnology and sustainable development technology, NCHU also emphasizes research in the humanities and social sciences. Working closely with the College of Liberal Arts, the College of Law & Politics, the College of Management, and the Arts Center, the Research Center for Humanities and Social Sciences promotes the idea of a "cultural green silicon valley" and provides a platform for dialogues between humanities and sciences. NCHU has become an important hub for scholars of the humanities, arts, and sciences in central Taiwan.

### RESEARCH FUNDING

In support of cutting-edge research and individual research projects on campus, NCHU spends about NT\$1.6 billion in research funding every year. Our research is mainly sponsored by government institutes, foundations, as well as some private corporations. Starting in 2006, the Ministry of Education in Taiwan has funded a two-phase plan, called the ATU (Aim for Top University) project, with the goal of improving the quality and breadth of higher education and raising our international competitiveness in the 21st century. Because of the ATU plan, NCHU is granted an annual subsidy of NT\$300-450 million. With this support, NCHU's research performance has made significant progress.

### HONORS & AWARDS

In the **THES-QS** world university survey in 2012, NCHU ranked 105<sup>th</sup> among the Asia's top universities. And according to the **ESI (Essential Science Indicators)** database in 2012 (Table I), the highly cited articles published by NCHU faculty in 8 specialized fields (agricultural sciences, plant & animal science, engineering, materials science, computer science, chemistry, biology & biochemistry, and clinical medicine) have all reached the top 1% of the world ranking. The number of articles published by NCHU faculty in journals of the SCI, SSCI, and A&HCI citation indexes in 2005 was 659, whereas in 2012 it increased to 1083. The number of HiCi articles has also increased from 6 in the year 2005 to 53 in the year 2012.

As for the honors and awards (see Table II), NCHU is the only university in Taiwan granted with 3 "Project of Excellence" awards in the field of biology & agricultural biotechnology by the National Science Council and Ministry

of Education. Many of our faculty members have received awards and honors domestically and internationally. Some of them are also editors of major international journals or fellows of important academic societies such as AAAS, ACM, IEEE, IAFoST, ACS, IFT, SOCS, CIC, CIFST, RSC, NACB and AC.

### RESEARCH COLLABORATION AND INFLUENCES

To raise its research potential and reputation, NCHU works to reinforce its research cooperation with not only top domestic universities but also some international partner universities, such as Cornell University, UC Davis, UC San Diego, and UC Berkeley. NCHU also encourages its research teams to establish long-term partnerships with industrial or professional entities in order to strengthen the university's leading role in academia-industry collaboration in central Taiwan. Cooperation with prestigious research institutes and hospitals of Taiwan is also underway to expand our research capacity and to further enhance the influence of NCHU in the region and nationwide.

Table I. World's Top 1% Ranking Research in NCHU (ESI)

	Disciplines	World ranking in 2012	
		Publication	Citation
1	AGRICULTURAL SCIENCES	75	66
2	PLANT & ANIMAL SCIENCE	205	398
3	ENGINEERING	206	260
4	MATERIALS SCIENCE	206	319
5	COMPUTER SCIENCE	221	351
6	CHEMISTRY	364	402
7	BIOLOGY & BIOCHEMISTRY	452	714
8	CLINICAL MEDICINE	1,205	1,769

Table II. Honors & Awards in Research

Honors & Awards	Number
International Academician	2
Domestic Academician	1
Academic Fellow	9
Organization President or vice President	4
National Chair Professorship Award of MOE	2
Academic Award of MOE	3
Distinguished Research Fellow Award of NSC	7
Outstanding Research Award of NSC	64
Ta-You Wu Memorial Award of NSC	6
Outstanding Achievement Award in Science and Technology of the Executive Yuan	1
Presidential Agriculture Innovation Award	1
National Ten Outstanding Young Person Award	1
Far Eastern YZ Hsu's innovative Patent Award	3
TECO Award	1
Research Award for Junior Research Investigators	7



<http://www.osa.nchu.edu.tw/osa/english/>

e-mail : [nchuosa@nchu.edu.tw](mailto:nchuosa@nchu.edu.tw)

Tel : +886-4-22840222

Fax : +886-4-22874839

*Cheerleading team at the annual sports game (2011)*

## Student Life at NCHU

### OFFICE OF STUDENT AFFAIRS

The Office of Student Affairs has 8 units that provide services and facilities, creating a safer academic environment and assuring students' extracurricular success, autonomous learning, and connection with campus communities. The Office of Student Affairs assists students as they prepare for their future roles in a diverse and global society.

### STUDENT CLUBS

There are over 120 student clubs at NCHU, providing students with diverse activities for various interests. There are various types of student clubs, such as community service, sport, and music related clubs, which inspire students not only to improve themselves but also to contribute individual or group capability to the community.

The Student Association is the highest student-run organization, and its purpose is to manage all affairs associated with students on campus. Students in this association can learn skills such as leadership, communication, career planning, etc. Other than student

clubs, other programs provided by the Office of Student Affairs can also assist students in reinforcing abilities in many aspects of college life.

### INTERNATIONALIZED ENVIRONMENT

Awareness of globalization is necessary for all students to prepare for the future. At NCHU, there are international students and overseas Chinese students studying on campus, which provides opportunities to learn about other cultures and get a global view. In the dormitories, international students and local students can exchange their experiences about things such as language learning, discussion of culture and art, and participation in festivals.

Local students are offered a total of over NT\$150 million in scholarship and assistantship funds that can be requested from the Division of Student Life. In addition, the Career Development Center of the Office of Student Affairs also offers many useful programs to broaden students' vision and help them plan their career, such as international volunteer groups, where NCHU students go overseas to provide volunteer services, as well as service learning and career development lectures.



Rolling lucky balls at the New Year's Eve party (2012)



A student martial arts show at the New Year's Eve party (2012)

## HEALTH AND COUNSELING

All students on campus possess free physical and mental health care. The Health Center and Counseling Center provide services for all students on campus, including international students. There are many lectures and other learning programs provided during semesters as well about things such as pressure relief, weight reduction, and learning efficiency improvement.

Professional and licensed psychologists are available for students in Counseling Center providing service, as needed.

The Counseling Center also manages the mentor system on campus. There are over 500 mentors on campus. Each mentor is assigned up to 30 students, and can assist students with learning and living on campus. There are many programs offered by the Counseling Center to these mentors to improve their ability. Rewards for excellent mentor work are given every year to encourage teachers of each college. Taking good care of students' physical and mental health is an important task on campus.

## STUDENT HOUSING

No matter whether students are living on or off campus, the Division of Student Housing Services provides facilities and assistance with lease and related problems. In addition, student staff are trained to plan and manage most affairs to provide services for residents.

## COMMUNITY SERVICES AND VOLUNTEERING

Local community services, including service for aborigines and disadvantaged minorities, are also emphasized by the Office of Student Affairs. After having the opportunity to provide service, students can share their learning experiences with younger students in their local areas and contribute their knowledge and skill to others. Through participating in all kinds of service activities on campus and in the local community, students can develop a strong concept of teamwork and grow as an unselfish individual.



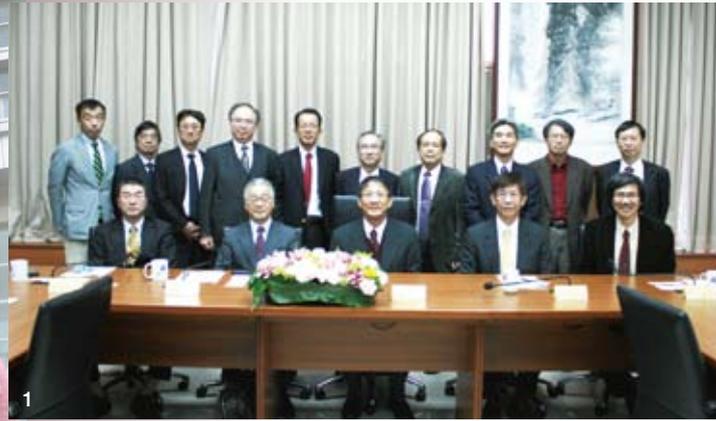
[http://www.oia.nchu.edu.tw/index\\_en.php](http://www.oia.nchu.edu.tw/index_en.php)

e-mail : [oia@nchu.edu.tw](mailto:oia@nchu.edu.tw)

Tel : +886-4-22840206

Fax : +886-4-22857313

# International Cooperation at NCHU



In order to become a top-ranking university in the international academic community, NCHU actively promotes international affairs. Currently, there are about 600 foreign students from all over the world seeking academic degrees at NCHU. By December of 2012, NCHU has established formal partnership with 176 institutions in more than 30 countries all over the world. With its strong faculty and student exchange programs, NCHU itself is a small-scale international community.

NCHU collaborates with many well-known international universities for dual-degree programs, such as Case Western Reserve University in the USA, Toyota Technological Institute in Japan, Czech Technical University in Prague, La Trobe University in Australia, and AgroParisTech in France. Outstanding students in these programs receive scholarships from NCHU to study abroad, and graduate with a double degree.

NCHU has regularly held various international conferences and established centers to enhance international collaborations, such as the EU Center at NCHU:

## The EU Center at NCHU

Opened in April 2010, the European Union (EU) Center at NCHU is not only an office, but also an information hub for promoting the EU related activities on campus. The EU Center coordinates the EU Program for undergraduate students, sets up the EU collection and display area in the library, and assists NCHU students in forming the EU student club. In addition, the EU Center also collaborates with the European Union in Taiwan (EUTW) to organize the EU forums and other international events, hoping more people will have better understanding and knowledge about studies and policies of the EU.

## INTERNATIONAL STUDENTS

NCHU strives to recruit international students and assist them with university and government policies and procedures, such as scholarship applications, general consultation, and information needed for their campus life. The staff of OIA (the Office of International Affairs) is especially helpful in assisting international students with issues like accommodation, health insurance, medical examinations, part-time work permits, alien registration, scholarship information and extra-curricular activities. The



1. President Lee and other faculty members of NCHU hosting guests from Hokkaido University, Japan
2. NCHU students studying abroad in Germany (exchange program)
3. Thai Student Association at NCHU holding "International Songkran Festival" to celebrate Thai New Year
4. International students learning Chinese calligraphy in the Chinese Language and Culture Program at NCHU
5. Dean of the Office of International Affairs, Dr. Sy-Sang Liaw, joining international education affairs abroad (EAIE) and promoting NCHU

OIA organizes activities, such as cultural field trips, forums, celebrations of local and international festivals to help international students experience the rich culture of Taiwan.

### CHINESE LANGUAGE PROGRAM

NCHU has established a Chinese Language Program for students interested in learning Chinese language and culture. There are three program types, designed for different needs: Chinese Program, Business Mandarin Courses, and 1 on 1 Tutorial Program. The program offers elementary, intermediate, high-intermediate, and advanced level courses. The elementary and intermediate levels focus on the acquisition of Chinese for daily use, while the high-intermediate and advanced courses focus more on culture-oriented topics. The classes are small in size. The instructors are all professionally trained and highly experienced.

### SUMMER PROGRAMS FOR PARTNER UNIVERSITIES

In the past few years, NCHU has designed several summer programs for international students from NCHU's partner universities to delve into the cultural beauty of

Taiwan. These summer programs offer a series of Mandarin language and Chinese cultural courses, as well as field trips where students can learn about things such as martial arts, calligraphy, and architecture of Taoist and Buddhist Temples. NCHU earnestly invites international students to participate in these cultural discovery trips.

#### \* Information about NCHU Summer Programs

- Chinese Language and Culture Program (2 weeks in July-Aug)
- Intensive Chinese Language and Cultural Program for Tubingen University, Germany
- Taiwan Economics and Culture Program for Innsbruck University, Austria

(For more information, please check on the website: <http://www.oia.nchu.edu.tw>)

To become a top-ranking research university, NCHU will continue to improve the internationalization of the campus and provide a world-class research environment for all faculty and students.



# NCHU Academics

## NCHU ACADEMICS

		Bachelor Programs	Master Programs	PhD Programs
College of Liberal Arts	Department of Chinese Literature	●	●	●
	Department of Foreign Languages and Literatures	●	●	
	Department of History	●	●	●
	Graduate Institute of Library and Information Science		●	
	Graduate Institute of Taiwan Literature and Transnational Cultural Studies		●	
College of Agriculture and Natural Resources	Department of Agronomy	●	●	●
	Department of Horticulture	●	●	●
	Department of Forestry	●	●	●
	Department of Applied Economics	●	●	●
	Department of Plant Pathology	●	●	●
	Department of Entomology	●	●	●
	Department of Animal Science	●	●	●
	Department of Soil and Environmental Sciences	●	●	●
	Department of Soil and Water Conservation	●	●	●
	Department of Food Science and Biotechnology	●	●	●
	Department of Bio-Industrial Mechatronics Engineering	●	●	●
	Graduate Institute of Biotechnology		●	●
	Graduate Institute of Bio-Industry Management		●	
	Bachelor Program of Biotechnology	●		
	Bachelor Program of Landscape and Recreation	●		
	International Bachelor's Program of Agribusiness	●		
	Bachelor Program of Bio-Industry Management	●		
	International Master Program of Agriculture		●	
	Master Program of Landscape and Recreation		●	
Inservice Master Program of Agricultural Business Management		●		
College of Science	Department of Chemistry	●	●	●
	Department of Applied Mathematics	●	●	●
	Department of Physics	●	●	●
	Department of Computer Science and Engineering	●	●	●
	Graduate Institute of Statistics		●	
Graduate Institute of Nanoscience		●		

NCHU ACADEMICS

		Bachelor Programs	Master Programs	PhD Programs
College of Engineering	Department of Civil Engineering	●	●	●
	Department of Mechanical Engineering	●	●	●
	Department of Environmental Engineering	●	●	●
	Department of Electrical Engineering	●	●	●
	Department of Chemical Engineering	●	●	●
	Department of Materials Science and Engineering	●	●	●
	Graduate Institute of Precision Engineering		●	●
	Graduate Institute of Communication Engineering		●	
	Graduate Institute of Optoelectronic Engineering		●	
	Graduate Institute of Biomedical Engineering		●	
	Post-Baccalaureate Program of Photovoltaic System	●		
College of Life Sciences	Department of Life Sciences	●	●	●
	Graduate Institute of Molecular Biology		●	●
	Graduate Institute of Biochemistry		●	●
	Graduate Institute of Biomedical Sciences		●	●
	Graduate Institute of Genomics and Bioinformatics		●	
	Inservice Master Program in Life Sciences		●	
College of Veterinary Medicine	Department of Veterinary Medicine	●	●	●
	Graduate Institute of Microbiology and Public Health		●	●
	Graduate Institute of Veterinary Pathobiology		●	●
College of Management	Department of Finance	●	●	●
	Department of Business Administration	●	●	●
	Department of Marketing	●	●	
	Department of Management Information Systems	●	●	
	Department of Accounting	●	●	
	Graduate Institute of Technology Management		●	●
	Graduate Institute of Sports and Health Management		●	
	Executive Master of Business Administration		●	
College of Law and Politics	Department of Law	●	●	
	Graduate Institute of International Politics		●	●
	Graduate Institute of National Policy and Public Affairs		●	
	Graduate Institute of Professional Development for Educators		●	
Interdisciplinary programs	PhD Program in Tissue Engineering and Regenerative Medicine			●
	PhD Program in Microbial Genomics			●
	Inservice Bachelor Program of Culture and Creative Industry	●		

\*This table is for the 2012 school year, and is intended for reference only. This information is subject to change.

NCHU Academics
Center for General Education

NCHU Research
Biotechnology Center
Center of Nanoscience and Nanotechnology
Research Center for the Humanities and Social Sciences
E-Commerce Research Center
Center for Environmental Restoration and Disaster Reduction
Center for Advanced Industry Technology and Precision Processing
International Agriculture Center
Bioenergy Research Center
Research Center for Intelligent Automation and Precision Machinery
Animal Medical Center

# NCHU Administration

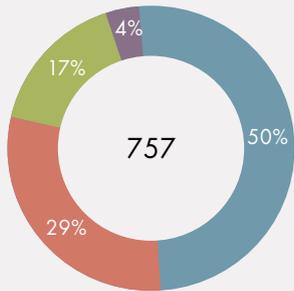
## President

## Vice President

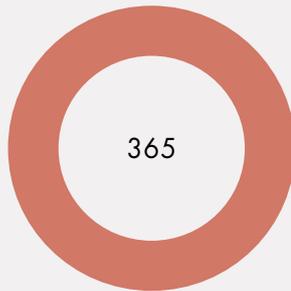
Office of Academic Affairs	Office of Student Affairs	Office of General Affairs	Office of Research and Development
<ul style="list-style-type: none"> <li>◆ Division of Registration</li> <li>◆ Division of Curriculum</li> <li>◆ Division of Recruitment &amp; Information</li> <li>◆ Center for Development of Teaching &amp; Learning</li> </ul>	<ul style="list-style-type: none"> <li>◆ Office of Military Education</li> <li>◆ Division of Student Life</li> <li>◆ Division of Extracurricular Activities</li> <li>◆ Health Center</li> <li>◆ Career Development Center</li> <li>◆ Division of Overseas Chinese Students Affairs</li> <li>◆ Counseling Center</li> <li>◆ Division of Student Housing Service</li> </ul>	<ul style="list-style-type: none"> <li>◆ Division of Business</li> <li>◆ Division of Construction and Maintenance</li> <li>◆ Division of Property Management</li> <li>◆ Division of Cashier</li> <li>◆ Division of Operation and Management</li> <li>◆ Division of Campus Security</li> </ul>	<ul style="list-style-type: none"> <li>◆ Division of Planning</li> <li>◆ Division of Project Affairs</li> <li>◆ Division of Academic Development</li> <li>◆ Instrument Center</li> <li>◆ Task Force of "Top University Plan"</li> </ul>
Office of International Affairs	School of Innovation and Industry Liaison	Library	Office of Physical Education and Sport
<ul style="list-style-type: none"> <li>◆ Division of Academic Exchange</li> <li>◆ Division of Foreign Student Affairs</li> <li>◆ Division of Mainland Affairs</li> </ul>	<ul style="list-style-type: none"> <li>◆ Division of Marketing and Planning</li> <li>◆ Division of Continuing Education</li> <li>◆ Division of Extension and Inservice Training</li> <li>◆ Division of General Affairs</li> </ul>	<ul style="list-style-type: none"> <li>◆ Division of Acquisitions and Cataloging</li> <li>◆ Division of Circulation</li> <li>◆ Division of Reference</li> <li>◆ Division of Serials</li> <li>◆ Division of Information Systems</li> <li>◆ Division of University Archives</li> </ul>	<ul style="list-style-type: none"> <li>◆ Division of Teaching and Research</li> <li>◆ Division of Sports Activities</li> <li>◆ Division of Sports Facilities</li> </ul>
Secretariat Office	Office of Personnel	Office of Accounting	Computer and Information Network Center
<ul style="list-style-type: none"> <li>◆ Division of Administrative Affairs</li> <li>◆ Division of Media Relations</li> <li>◆ Division of Documents and Files</li> </ul>	<ul style="list-style-type: none"> <li>◆ First Division</li> <li>◆ Second Division</li> <li>◆ Third Division</li> <li>◆ Fourth Division</li> </ul>	<ul style="list-style-type: none"> <li>◆ First Division</li> <li>◆ Second Division</li> <li>◆ Third Division</li> <li>◆ Fourth Division</li> </ul>	<ul style="list-style-type: none"> <li>◆ Division of Computer Operations</li> <li>◆ Division of Application System Development</li> <li>◆ Division of Administration and Consultation</li> <li>◆ Division of Research and Development</li> <li>◆ Division of Information and Network</li> </ul>
Center for Teacher Education	Alumni Center	Art Center	Center for Environmental Protection and Occupational Safety and Health
<ul style="list-style-type: none"> <li>◆ Division of Practicum and Internship</li> <li>◆ Division of Local Educational Counseling</li> </ul>	<ul style="list-style-type: none"> <li>◆ Division of Liaison</li> <li>◆ Division of Service</li> </ul>	<ul style="list-style-type: none"> <li>◆ Division of Environmental Protection</li> <li>◆ Division of Labor Safety and Health</li> </ul>	<ul style="list-style-type: none"> <li>◆ Division of Intellectual Property Management(DIPM)</li> <li>◆ Division of Academia-Industry Collaboration Management(DAIC)</li> <li>◆ Division of Innovation Incubation Management(DIIM)</li> </ul>

# NCHU Statistics

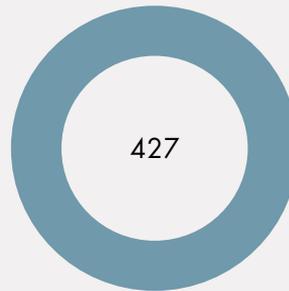
## FACULTY & STAFF



- Professors 375
- Associate Professors 220
- Assistant Professors 131
- Lecturers 31

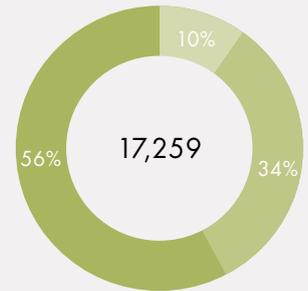


**Adjunct Faculty**



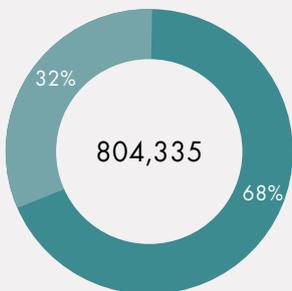
**Supporting Staff**

## STUDENTS



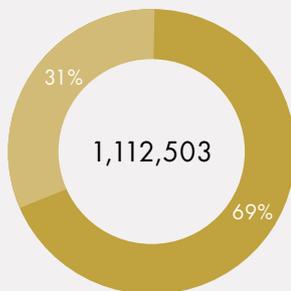
- PhD Program 1,662
- Master Program 5,867
- Bachelor Program 9,730

## LIBRARY STATISTICS



**Books**

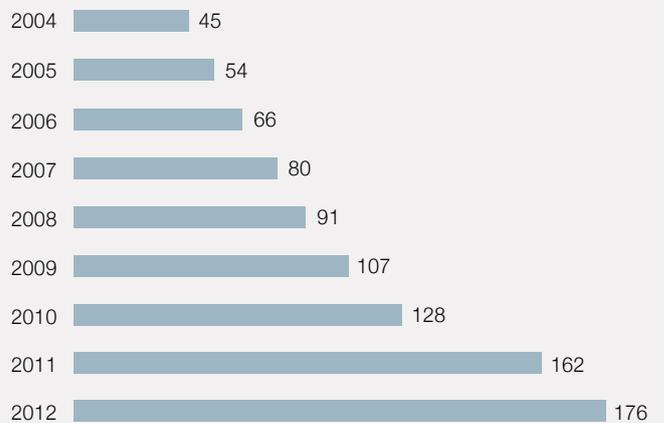
- Chinese 549,315
- Non-Chinese 255,020



**Non-Book**

- e-Books 763,414
- audio/ video 349,089

## PARTNER UNIVERSITIES



## ACADEMIC STRUCTURE

College	Bachelor Programs	Master Programs	PhD Programs
College of Liberal Arts	5	8	2
College of Agriculture and Natural Resources	15	19	12
College of Science	4	9	4
College of Engineering	6	19	7
College of Life Sciences	1	6	4
College of Veterinary Medicine	1	3	3
College of Management	6	10	3
College of Law and Politics	1	7	1
Interdisciplinary programs	1	0	2
<b>Total</b>	<b>40</b>	<b>81</b>	<b>38</b>

\*These data are for the 2012 school year, and are intended for reference only. This information is subject to change.



# College of Liberal Arts

<http://www.nchu.edu.tw/~lit>

e-mail : [cla@nchu.edu.tw](mailto:cla@nchu.edu.tw)

Tel : +886-4-22840313

Fax : +886-4-22854871



## FEATURES

The College of Liberal Arts was established in 1969. As a liberal arts College in the sole comprehensive national university in central Taiwan, the College has instructors and facilities par excellence and a good learning environment. The faculty of the College has outstanding achievement in research on modern literature, the history of foreign relations, and transnational and intercultural studies.

The College aims to cultivate students well versed in both Chinese and Western scholarly traditions, and dedicated to the understanding of local cultures while maintaining a global horizon. In addition to the core curricula offered by the departments and graduate institutes, the College has also established specialized programs and offers courses to support students in developing many different skills and areas of knowledge.

The Teaching Chinese as a Second Language Program is set up to meet the global need for the Chinese language teachers, and the Humanities Digital Archives and Value-Added Applications Program offers courses to equip students with knowledge about digital archival collections. The Deer Cultural Heritage Center, consisting of an e-newsletter, a film studio, and a campus e-channel, offers

training courses and internship opportunities to develop students' skills in news coverage and editing, as well as media and image production and broadcasting.

The Language Center is not only the greatest foreign language test site in both scale and scope in central Taiwan but also the first TOEFL-iBT test center in Asia. To meet the growing demands of international academic exchange and global business, the Language Center has set up a simultaneous oral interpretation lab to train students to be professional translators and interpreters. The Language Center also offers a Chinese course series intended for foreigners and international students.

## STATUS

The College of Liberal Arts includes the Department of Chinese Literature (BA, MA and PhD programs), the Department of Foreign Languages and Literatures (BA and MA), the Department of History (BA, MA and PhD), the Graduate Institute of Library and Information Science (MA), the Graduate Institute of Taiwan Literature and Transnational Cultural Studies (MA), the Language Center, and the Deer Cultural Heritage Center.

There are nearly 80 full-time faculty members and 80

part-time faculty members. The College has also recruited adjunct faculty members from Academia Sinica, the National Taiwan Museum of Fine Arts, and Providence University to enhance its research and teaching. There are about 2,200 students in the College, including 26 international students and exchange students.

In addition to regular classrooms, seminar rooms and computer labs, several special rooms are reserved for particular subjects, such as calligraphy, Chinese opera, music appreciation, and cinematic historiography. The Language Center also reserves a self-learning section equipped with multimedia software for language learning. A new building for the Humanities is under construction and expected to be completed in 2013.

## RESEARCH

The faculty members of the College are known nationally and internationally for their research and scholarly accomplishments. Many of their publications are included in journals such as SCI, SSCI, A&HCI, TSSCI, THCI Core, and others. In the last three years (2009–2012), the faculty of the College have conducted 77 research projects funded by grants totaling NT\$57 million from the National Science Council of Taiwan. Two faculty members of the College have received the Outstanding Research Award from the National Science Council of Taiwan, one of whom is a two-time winner of the award.

The Department of Chinese Literature has recruited faculty members with expertise in the areas of Chinese philosophy, Classical Chinese literature, Chinese linguistics, Modern Chinese literature, and popular culture studies. The faculty of the Department of Foreign Languages and Literatures has remarkable performance in research on ethnic studies, aboriginal literature studies, gender studies, Asian-American studies, posthumanism studies, globalization discourse, environmental discourse, children's literature studies,

James Joyce studies, and cyber literature studies. The department also places equal importance on research in culture and linguistics, including pragmatics. The Department of History focuses research on the areas of Chinese socio-economic history, history of foreign relations and world history, intellectual history, historiography, and Taiwanese history. The Graduate Institute of Library and Information Science has focused their research on library services and management, information organization and retrieval, knowledge management and information systems, scholarly communication and information behavior, as well as digital archives and value-added applications. The Graduate Institute of Taiwan Literature and Transnational Cultural Studies pioneers research that moves beyond the traditional discipline of Taiwan literature towards an interdisciplinary subject. Their faculty members are dedicated to promoting international collaborative networks and situating the research of Taiwan literature and culture in transnational contexts; they are also committed to helping Taiwan society through active engagement of and communication with national and international academic communities.

## VISION

- To set up the International PhD Program in Taiwan Literature and Transcultural Studies.
- To provide a better environment for foreign language teaching and learning.
- To continue our efforts to strengthen the competitive capability of our students in global contexts.
- To promote international academic exchanges.
- To establish a digital archives center for the humanities in cooperation with the NCHU Research Center for the Humanities and Social Sciences.
- To integrate internal and external resources to make the College become the cultural and artistic center of central Taiwan.



The film studio in the Deer Cultural Heritage Center



Ang Li, writer-in-residence (autumn 2008)



Dr. Pang-Yuan Chi receiving an Honorary PhD Degree from NCHU in 2009



# College of Agriculture and Natural Resources

*<http://canr.nchu.edu.tw/EnglishWeb/intro.htm>*

*e-mail : [canr@nchu.edu.tw](mailto:canr@nchu.edu.tw)*

*Tel : +886-4-22873091*

*Fax : +886-4-22862960*

## FEATURES

Agriculture has always been an important resource for humans, and the society of Taiwan is both directly and indirectly influenced by agriculture. Therefore, it is vital to the society to direct land, water, and other natural resources, as well as human resources, to benefit the continuous improvement of agriculture sector. The College of Agriculture and Natural Resources (formerly known as the College of Agriculture) is not only the largest College in the university in terms of faculty and student numbers but also the oldest one among the eight faculties.

The College has a proud history in designing and promoting strategic plans for food supply, soil and water conservation, and natural conservation in Taiwan. Many pioneering experts in society who have contributed to the foundation and continuous growth of the agricultural development in Taiwan graduated from the College of Agriculture and Natural Resources. Six alumni of the College have been appointed as the Minister of the Council of Agriculture for the central government.

The College of Agriculture and Natural Resources places emphasis on teaching and research in the areas of sustainable farming, natural resource conservation and management. In addition, the College strengthens communication and cooperation with non-agricultural sectors in local communities and promotes international

contacts, exchanges, and cooperation. Through a dynamic educational system, innovative research program, and down-to-earth extension services, the College is continuously advancing.

In an official review conducted by the Ministry of Education of Taiwan in 2005, the College was awarded the honor of being declared the top higher-educational agricultural institution among all the major universities on Taiwan. The faculty and staff are dedicated to internationalization of the College, providing the students and faculty members with a broader vision of their career possibilities. The College continuously offers broad and in-depth study-abroad activities for the students, and is also willing to provide services to the youth in other parts of the world by offering them opportunities in various academic units. It is the collective ideal of the university to build up a global campus.

## STATUS

The College now contains 20 teaching units offering 15 BS, 16 MS and 12 PhD programs. Also, there are 14 affiliated units for extension service.

Eleven of the departments in the College offer both undergraduate and graduate programs: Agronomy, Horticulture, Forestry, Applied Economics, Plant Pathology, Entomology, Animal Science, Soil and Environmental Sciences, Soil and Water Conservation, Food Science and

Biotechnology, and Bio-Industrial Mechatronics Engineering.

There are five independent graduate institutes respectively specializing in Biotechnology, Bio-Industry Management, Landscape and Recreation, International Agriculture, and Agricultural Business Management. The College also offers four bachelor programs, including Biotechnology, Landscape and Recreation, International Agribusiness, and Bio-Industry Management.

The College runs 14 affiliated units, including Agriculture Experimental Station, Experimental Forest Management Office, Agricultural Extension Center, Horticultural Experiment Station, Experimental Animal Farm, Pilot Plant of Food Science and Biotechnology, Soil Survey and Testing Center, Agricultural Machinery Workshop, Agricultural Automation Center, Agricultural Products Approval and Certification Center, Pesticide Residue Analysis Center, Debris Flow Disaster Mitigation and Information Center, Research Center for the Remediation of Soil and Ground Water Pollution, and Agricultural Policy Research Center.

The College currently has 188 full-time and 60 part-time teaching faculty members, 120 non-teaching staff members, and 4,527 students, 1,522 of which are post-graduate students.

## RESEARCH

The College has received 31 Outstanding Research Awards from the National Science Council. During the year of 2011, the total research funds received was NT\$460,171,400.

There were 1,003 research papers published in international and local academic journals from 2008 to 2011, and 121 invention patents and technology transfers during 2009-2011.

An international collaborative research center on plant and food biotechnology (NCHU-UCD Plant and Food Biotechnology Center, PFBC) was established jointly with UC Davis in 2012.

Numerous special research achievements were made by the faculty of the College. Just to name a few highlights:

- Application of Molecular Biotechnology on Plant Pathology
- Technology of Organic Agriculture Production and Management
- Animal Transfer Technology
- Research and Application on Biological Chips
- Research and Application on Biological Pesticides
- Research on Animal Genetic and Breeding, Production Management, and Products Utilization
- Research on Health and Leisure Food

## VISION

The College intends to make every effort in the future to continue playing a pivotal role in agricultural and natural resources education, research, and extension to meet the challenges of agricultural and natural environment development in Taiwan. The following aspects are identified as major goals in the upcoming decades:

- To reinforce research, teaching, and outreach regarding sustainable farming, biotechnology, and natural resources conservation and protection.
- To strengthen communication and cooperation with non-agricultural and local communities.
- To increase international cooperation in agriculture and natural resources.



The team from Professor Chang-Hsien Yang of Institute of Biotechnology identified a role for *Arabidopsis* MADS box gene *FOREVER YOUNG FLOWER (FYF)* in regulating flower senescence and abscission.



# College of Science

<http://science.nchu.edu.tw/>

e-mail : [scie@nchu.edu.tw](mailto:scie@nchu.edu.tw)

Tel : +886-4-22840408

Fax : +886-4-22853870

## FEATURES

The College of Science combines four major fundamental areas of scientific research: Chemistry, Mathematics, Physics, and Computer Science. Over the past 50 years, our excellent faculty has contributed extensively in all of these research fields. We offer a comprehensive set of educational experiences for both graduate and undergraduate students. The goal of the College of Science is to provide fundamental and advanced education in natural science to train researchers to innovate and to become leaders in industry, academia, and the government in the career of their choice.

## STATUS

The Department of Chemistry provides BS, MS, and PhD programs; it presently has 219 undergraduate students and 191 graduate students. The department also offers basic chemistry courses to approximately 1,800 undergraduate students among five other different Colleges weekly. At present there are 36 full-time faculty members.

The Department of Applied Mathematics provides BS, MS and PhD programs for students developing mathematical models and quantitative techniques that can

be implemented for solving problems encountered in the real world. Currently, the department has 27 full time faculty members, 314 undergraduate students and 127 graduate students.

The Department of Physics is particularly keen on developing new research fields such as nanoscience and nanotechnology. Our research program seeks to find a balance between theory and practice. Our experienced faculty are conducting research and advising students in both experimental physics and theoretical physics.

The Department of Computer Science and Engineering provides BS, MS, and PhD programs. Currently, the CSE department has 23 faculty members, 193 undergraduate students, and 389 graduate students. The faculty members have expertise in the design and development of computer software and hardware. There are more than 20 labs, including a networking and switch systems lab, an image processing and multimedia database lab, an information security lab, a VLSI/CAD lab, and others. In 2011, a cloud computing lab was established with facilities supporting teaching and research on programming for cloud computing, virtualization technology, and cloud data center networks.

## RESEARCH

The Department of Chemistry conducts about forty projects annually, with a total funding of more than NT\$6 million from the National Science Council. Two recent articles were published in well-known journals, "Porphyrin-Sensitized Solar Cells with Cobalt(II/III)-Based Redox Electrolyte Exceed 12 Percent Efficiency" by Yeh's organic chemistry group in *Science* in 2011, and "Heat-Assisted Electrodeposition of Platinum in an Ionic Liquid" by Huang's analytical chemistry group in *Angewandte Chemie* in 2012, which is about a new method for recycling platinum.

The Department of Applied Mathematics' research topics focus on the related fields of applied statistics, scientific computation, and mathematical analysis. Professor Tze-Fen Li has developed a computer speech recognition system which can recognize tones in many languages, including Mandarin, English, Taiwanese and others, with more than 99.9% accuracy. This speech recognition system could be used in the future to control and manipulate robots or machines such as airplanes, cars and ships. Professor Watson Kuo, in collaboration with Professor K. J. Lin of chemistry, applied nanofabrication techniques to build electronic devices to study the conduction of vanadium oxide nanowires. They reported that trapped gas molecules may control electrical current in these nanowires, and the response may last for hours after evacuation of the gas. This property may lead to e-nose technology for flavor sensing.

The research in the Department of Computer Science and Engineering focuses mainly on embedded systems, networking and multimedia systems, and intelligent systems. The CSE Department is committed to

strengthening its teaching and research in fields such as cloud computing and services, big data analysis, green information technology, and smart phone application development. The CSE Department will also focus on interdisciplinary collaboration on digital archives, privacy protection, bioinformatics, and biomedical engineering.

## VISION

According to a report by the Higher Education Evaluation and Accreditation Council of Taiwan (HEEACT), the National Chung Hsing University was ranked No. 121 worldwide in the field of Computer Science; in the 10-year ranking system announced on Jan. 5, 2012, NCHU was ranked among ESI top 1%, the Department of Chemistry was ranked 247 in the world in 2011. In another report by Web of Science, NCHU was ranked No. 11 in imaging science. It is essential for our university to promote a rewarding climate for teaching and research in order to gain recognition. Our goals are:

- To encourage the faculty to have close collaborations with faculty and students in other departments and universities, and to publish research papers and build connections with the world.
- To expand our focus from the traditional realm of physics to new frontiers of interdisciplinary research such as nanosciences, nonlinear sciences, biophysics, etc.
- The strengthen teaching and research in response to the paradigm shift toward cloud computing, green computing and big data analysis.



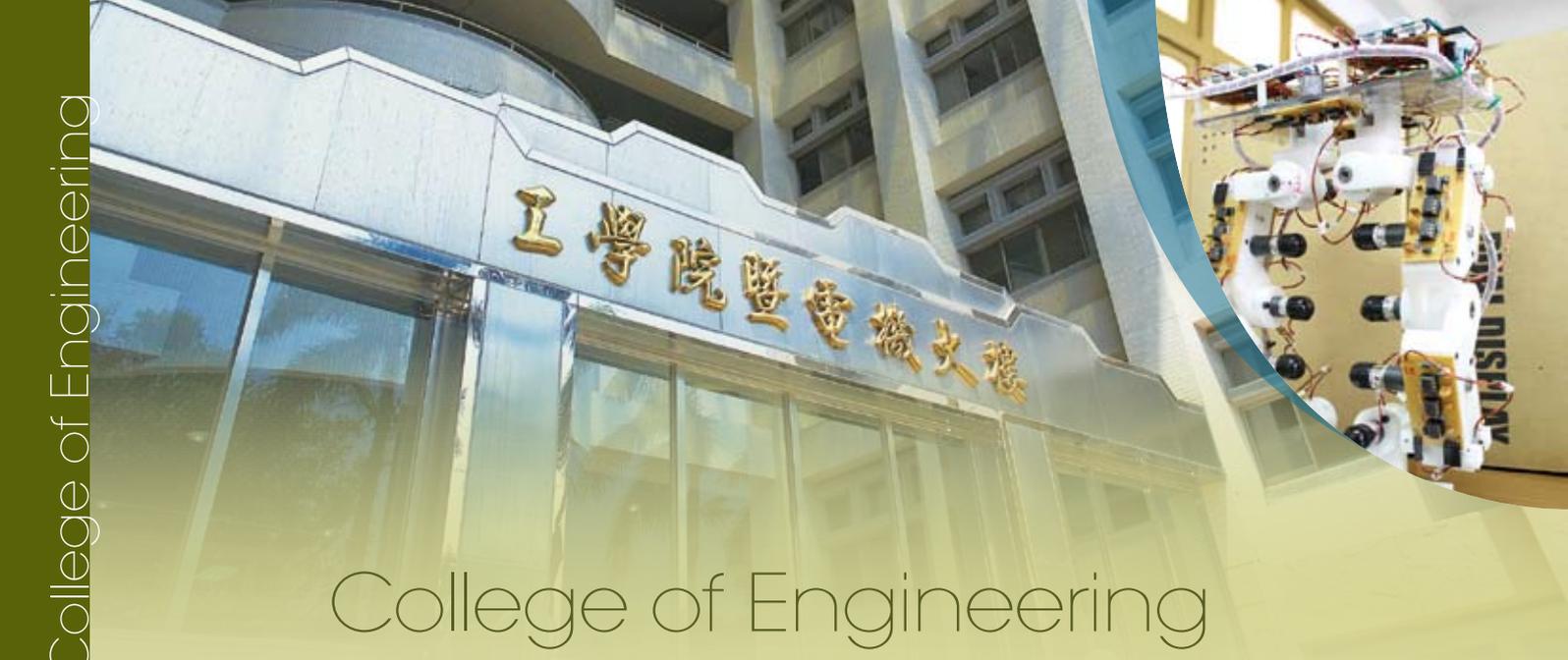
Laboratory



Cloud Computing Lab



Library



# College of Engineering

<http://www.engineer.nchu.edu.tw/english/>

e-mail : [engineer@nchu.edu.tw](mailto:engineer@nchu.edu.tw)

Tel : +886-4-22840430

Fax : +886-4-22852862

## FEATURES

Founded in 1961, the College of Engineering is committed to excellence in finding technical solutions for challenging problems, while preparing highly skilled engineers and academic elites to spearhead the industry and advance the technological development of Taiwan. We are ranked among the world's best 200 engineering Colleges, and all departments and graduate institutes of the College have passed the Engineering and Technology Education Certification accredited by Institute of Engineering Education Taiwan.

The College also acts as a resource for industry by providing technology transfer and technical assistance. Central Taiwan is the headquarters of Taiwan's precision machinery and tool industries. With the establishment of the Central Taiwan Science Park in 2003, the collaboration between academia and industry has been one of the College's strengths. Our aim is to continuously put innovations and discoveries into the hands of the public and private sectors.

## STATUS

The College is comprised of six departments, four graduate institutes, and four research centers. The six departments are civil engineering, mechanical engineering, environmental engineering, electrical engineering, chemical engineering, and materials science and engineering. The four graduate institutes are precision engineering, optoelectronic engineering, communication engineering and biomedical

engineering. The College also fosters the Center for Research and Development of Engineering Technology, the Men Yao Chip Center, the NCHU Machine Shop, and the Metal Research and Development Center. The College has more than 150 faculty members with PhD degrees and nearly 4000 students, including approximately 2000 undergraduate students, 1500 master's students and 450 doctoral students.

## RESEARCH

### Distinguished Performance and Honors

- The College of Engineering at NCHU ranks 185<sup>th</sup> in the world according to the "2011 Performance Ranking of Scientific Papers for World Universities."
- Our research performance in Engineering and Materials Science is listed within the top 1% of the universities worldwide by Essential Science Indicators in 2011.
- One faculty member is elected as an IEEE fellow in 2012, and 7 faculty members have been elected as IET fellows.
- Five faculty members in the College have received the "Outstanding Research Award" from the National Science Council of Taiwan.
- Six young faculty members in the College received the "Ta-You Wu Memorial Award" from the National Science Council for their outstanding contribution in scientific research.
- Two faculty members in the College have been awarded the NCHU Chair Professorship for their extraordinary research performance.
- Twenty-one faculty members in the College have received

the Distinguished Professorship for their exceptional contributions in engineering.

### Research Highlights

**Civil Engineering:** The research interests of the department are mainly concerned with hazard assessment and mitigation of natural disasters such as flooding, earthquakes, and landslides. The Department also has cutting-edge test facilities for development and testing of new construction materials.

**Mechanical Engineering:** The department collaborates with industry in advanced manufacturing technology, system design and control, biomedical engineering, micro-electro-mechanical systems, and thermal fluid and energy systems. The department also manages the newly established Center for Intelligent Automation and Precision Machinery, which cooperates with the Central Taiwan Science Park for research in advanced manufacturing technology and system control and design.

**Environmental Engineering:** The department focuses on sustainable use of water resources, management of air resources, renewable resources and energies, soil and groundwater resources, environmental management and analysis technology, and green energy technology.

**Electrical Engineering:** The department involves four major research groups, focusing on communication and information, systems and control, electronics, and system-on-chip technology. The department also runs the Men Yao Chip Center, a leading IC design institution in central Taiwan. The center trains IC chip designers for the electronics industry and cooperates with companies for advanced chip design projects.

**Chemical Engineering:** Besides the fundamentals, the department emphasizes the research areas of advanced materials and precision chemical processing, biomedical and biochemical engineering, as well as polymer materials and nanotechnology.

**Materials Science and Engineering:** The department focuses on the field of materials processing, including nanotechnology, plasma processing, nano-optical device fabrication, surface technologies, and micro-joining, and the field of functional materials, such as nano-materials, biomaterials, future data storage materials, high temperature materials, and optoelectronic, sensor and energy materials.

**Precision Engineering:** This institute is an interdisciplinary institute of mechanics, electro-optics, material engineering, automation, and precision manufacturing. Its research interests include the development of micro-manufacturing, assembly and optical design technologies, as well as MEMS, LED, and display fields.

**Optoelectronic Engineering:** This institute operates the Optoelectronic and Semiconductor Devices Fabrication Center, which provides facilities for research of fabrication and analysis of solar cells, light-emitting devices, photodetectors, flat-panel display devices, and organic optoelectronic devices.

**Communication Engineering:** The research interests of the institute include communication systems, network technologies, and signal processing. The institute seeks breakthroughs in communication theory, develops advanced communication systems, and supports the local communication-related industries.

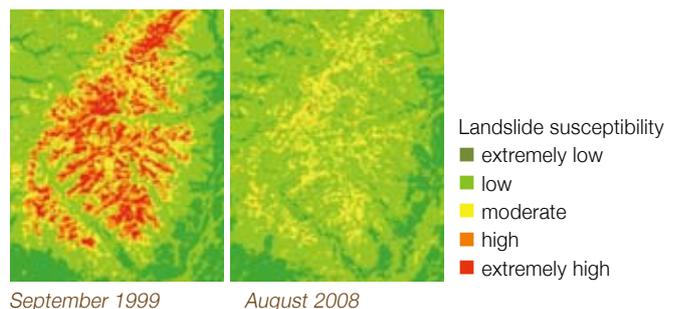
**Biomedical Engineering:** This institute integrates engineering, biotechnology, and medical science to develop new materials and devices for clinical diagnosis and treatment. The research interests include tissue engineering and regenerative medicine, nanotechnology applications, microfluidic chips and biochips, electrophysiological stimulation and interface, and biophotonics.

**Center for Research and Development of Engineering Technology (CRDET):** CRDET focuses on upgrading engineering technologies, improving the quality of engineering education and enhancing collaboration on technology development.

**Metal Research and Development Center:** Besides assisting the innovation and development of metal industry in Taiwan, the center provides training for working with metals. Its research interests include application design, processing, and manufacturing.

### VISION

- To develop the College into a global academic leader in central Taiwan.
- To serve as a cradle of innovation, creativity and entrepreneurship.
- To promote outstanding engineering education throughout the world.
- To perform as a fountainhead of frontier technologies and facilitator of industrial development.



September 1999

August 2008

A decade variation of landslide susceptibility map in Mt. Jou-Jou derived from multi-date satellite images since the 1999 Chi-Chi earthquake



*Lectures on the comparative anatomy of vertebrates*

# College of Life Sciences

<http://lifesci.nchu.edu.tw/>

e-mail: [lifesci@nchu.edu.tw](mailto:lifesci@nchu.edu.tw)

Tel: +886-4-22840370

Fax: +886-4-22860164

## FEATURES

The College of Life Sciences has recruited excellent faculty members with different academic backgrounds, especially in the areas of ecology and biodiversity. We have a strong emphasis on research and our research accomplishments have been published in major academic journals such as *New England Journal of Medicine*, *Cancer Cell*, *Journal of the National Cancer Institute*, *Journal of Clinical Oncology*, *Cancer Research*, *Nucleic Acids Research*, *EMBO J*, and *Journal of Cell Biology*.

The goal of our College is to cultivate students with professionalism in life sciences, leadership, global perspective, the ability to solve problems, interdisciplinary integration, and innovative ideas. The College of Life Sciences also provides students with a high quality core curriculum and offers the only Inservice Master Program in Life Sciences in Taiwan.

## STATUS

Established in 1994, the College of Life Sciences has been a leading research-oriented institute with excellent faculty members and core facilities in central Taiwan. Our research areas span from basic science education and basic research to biotechnology and conservation.

The College of Life Sciences comprises the Department of Life Sciences (with BS, MS, and PhD programs), the Institute of Molecular Biology (MS and PhD), the Institute

of Biochemistry (MS and PhD), the Institute of Biomedical Sciences (MS and PhD), the Institute of Genomics and Bioinformatics (MS), and an Inservice Master Program in Life Sciences.

The College has a total of 63 faculty members composed of professors, associate professors, assistant professors, lecturers, and full-time teaching assistants. In addition, we have also recruited several adjunct professors from Academia Sinica, the National Health Research Institute, China Medical University, the National Museum of Natural Science, and Taichung Veterans General Hospital to promote academic collaboration and teaching. There are nearly 1000 students in our College, including 30 international students. The ratio of graduate students to undergraduate students is 3 to 2, and the student to faculty ratio is 17 to 1.

Our excellent facilities and laboratories are equipped with state-of-the-art equipment, including but not limited to a FACS Sorter, a high resolution quadruple/time-of-flight MS, an isothermal titration calorimeter, an ultra-centrifuge, a total internal reflection fluorescence microscope, a real time PCR system, a multi-functional analyzer, and a flow cytometer.

## RESEARCH

Life sciences are the basic and applied sciences that investigate the inner workings of animals, plants, and

microorganisms. Life sciences is a quickly developing and pioneering area of research. The research areas of the College of Life Sciences include ecology, zoology, botany, microbiology, and medical sciences, as well as interdisciplinary areas.

### Main Research Areas

#### Department of Life Sciences

- Biodiversity
- Animal / Plant physiology
- Biotechnology

#### Institute of Molecular Biology

- Gene function and regulation mechanism
- Enzymatic catalysis and gene expression platforms
- Biomedical applications of chemical and structural biology

#### Institute of Biochemistry

- Structural biology
- Transcriptional and translational regulation of genes
- Interactions of plants and pathogens

#### Institute of Biomedical Sciences

- Cancer research
- Molecular genetics
- DNA vaccines

#### Institute of Genomics and Bioinformatics

- Systems biology
- Structure bioinformatics and protein engineering
- Molecular modeling and drug design

### Research Performance

The faculty of the College of Life Sciences publishes over 230 articles annually in SCI journals such as the New England Journal of Medicine, Cancer Cell, Journal of the National Cancer Institute, Journal of Clinical Oncology, Cancer Research, Nucleic Acids Research, EMBO J, and Journal of Cell Biology. The average number of publications

for each faculty member is 3.8 per year. Three faculty members in the College of Life Sciences have received the "Outstanding Research Award" from the National Science Council for their extraordinary performance in research in the following fields:

**Cell biology** – mechanisms in cell migration and invasion

**Cancer research** – new microarray technology and applications in biomedical sciences and agriculture, molecular mechanism of cancer metastasis, and functional genomics

**Biochemistry** – structural studies of *Xanthomonas campestris* and *Stenotrophomonas maltophilia*

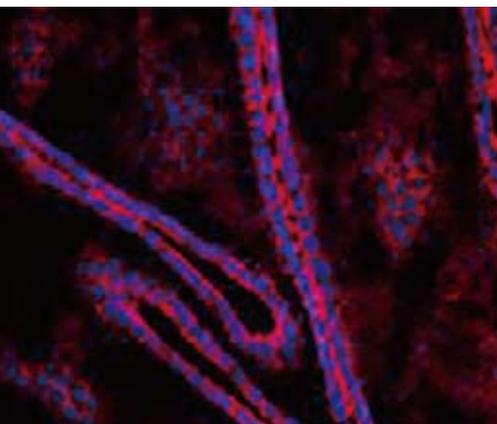
In addition, nine faculty members in the College of Life Sciences have received Distinguished Professorship positions for their exceptional contributions in research of life sciences.

### Research Grants

Research grants awarded to the College of Life Sciences total in approximately USD \$4 million annually. Of these grants, 73% are from the National Science Council, while others are from the Council of Agriculture and other government agencies.

### VISION

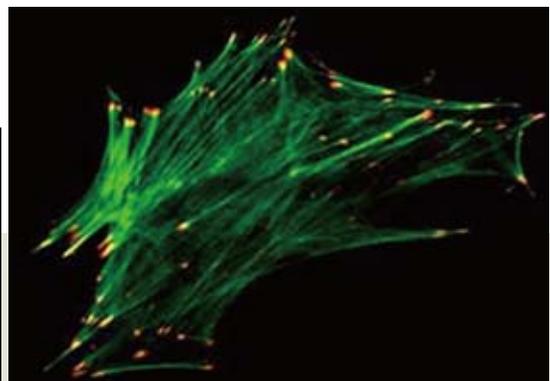
- To make the College of Life Sciences more competitive as a whole, both nationally and internationally.
- To promote inter-institute and intra-institute collaboration to enhance our international visibility.
- To integrate available resources to create top-quality research projects.
- To make College-wide resources accessible to promote teaching and research.



Tubule formation by kidney epithelial cells in a 3D culture, with immunofluorescent staining showing the nucleus (blue) and actin (red)



*Mesembryanthemum crystallinum*, also known as ice plants



Immunofluorescent staining for stress fibers (green) and focal adhesions (red) in fibroblasts



# College of Veterinary Medicine

<http://www.vmc.nchu.edu.tw/english.html>

e-mail : [vmc@nchu.edu.tw](mailto:vmc@nchu.edu.tw)

Tel : +886-4-22840894

Fax : +886-4-22852658

## FEATURES

The College of Veterinary Medicine, established in 1999, includes the Department of Veterinary Medicine, the Graduate Institute of Microbiology and Public Health, and the Graduate Institute of Veterinary Pathobiology, as well as the Veterinary Medical Teaching Hospital and Animal Disease Diagnostic Center. It provides a clinically-oriented doctor of veterinary medicine (DVM) program supported by all the faculty members and affiliated units. The mission of the College of Veterinary Medicine is to advance animal and human health through education, research and service.

The goal of the College of Veterinary Medicine is to integrate the functions of the Veterinary Medical Teaching Hospital, Animal Disease Diagnostic Center, and Animal Research Center. These units advance the teaching, research, and clinical service of veterinary medicine, aiming to establish an advanced animal medical center.

## STATUS

Presently, the College is composed of three academic units and two affiliated units. The undergraduate program is clinically oriented, to meet our society's demands for quality veterinary clinicians by providing medical services to companion animals and farm animals. Extra efforts are invested in specific research areas such as zoonotic studies, laboratory animal medicine, and molecular biology.

The faculty members of our College are grouped together depending on their fields of specialization. This arrangement has proven to be very efficient in terms of human and material resources for achieving a high standard of clinical teaching and collaborative research, in conjunction with the use of the facilities at the Veterinary Medical Teaching Hospital and the Animal Disease Diagnostic Center. We are dedicated to keeping a balance between basic sciences and clinical medicine so that our graduates will have a balanced education in veterinary science.

Besides training veterinarians, we also strive to raise the level of veterinary research and education to an international standard. Through the enhancement of extension services by the Animal Disease Diagnostic Center and the expansion of the Veterinary Medical Teaching Hospital to a Veterinary Medical Center, we envision the College of Veterinary Medicine at National Chung Hsing University as being the most comprehensive in Taiwan and competitive in the world.

## RESEARCH

Recently, many outstanding articles from the College of Veterinary Medicine have been published in international journals. One of them has been selected as continuing education credits of American veterinary medicine. The performance in the field of veterinary sciences in the Web of Science citation index is outstanding.

As a distinguished alumna of the Department of Veterinary Medicine, Chair Professor Li-Huei Tsai has been elected as an academician of Academia Sinica. Professor Tsai focuses on the research of the development of new drugs for elderly dementia. Three faculty members in the College of Veterinary Medicine have received the "Outstanding Research Award" from the National Science Council (NSC) of Taiwan. One faculty member has received the "Outstanding Technology Transfer Contribution Award" from NSC.

Faculty members in the College of Veterinary Medicine have solid collaborative relationships with the veterinary medical industry and success in technology transfer. For example, the subunit vaccine of fowl cholera caused by

*Pasteurella multocida* and the subunit vaccine for infectious coryza, both developed by faculty members of the College, are now being produced and marketed by Formosa Biomedical Inc., and a monoclonal antibody against H5 influenza virus is being sold by Kao-Rong Biotech Inc.

## Department of Veterinary Medicine

- Biotech development
- Zoonosis
- DVM training

## Graduate Institute of Microbiology and Public Health

- Development and application of biotechnology to disease prevention
- Vaccine development
- Zoonotic disease surveillance

## Graduate Institute of Veterinary Pathobiology

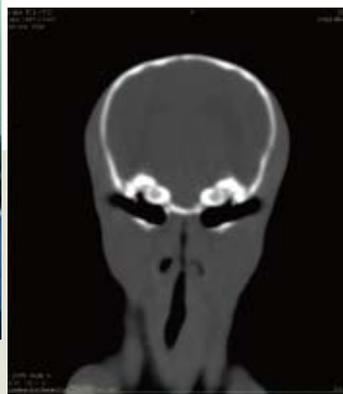
- Specialization in the field
- Diagnostic analysis system
- Vaccine development

## VISION

- To expand the Veterinary Medical Teaching Hospital to a Veterinary Medical Center.
- To strengthen domestic and international collaboration.
- To enhance the extensive service of the Animal Disease Diagnostic Center.



*Performing epidural anesthesia for an operation*



*CT image of a dog skull*



*Clinical practice- farm animals*

# College of Management

<http://www.com.nchu.edu.tw/eng/>

e-mail : [cssm@nchu.edu.tw](mailto:cssm@nchu.edu.tw)

Tel : +886-4-22840808

Fax : +886-4-22856233



## FEATURES

The College of Management consists of 5 departments, 2 graduate institutes, 4 research centers and an Executive Master of Business Administration (EMBA) Office. We offer five 4-year BBA programs, nine 2-year MBA programs, a part-time 2-year EMBA program and three PhD programs in various academic fields, including accounting, business administration, finance, management information systems, marketing, sports and health management, technology management, and e-commerce. Our MBA in e-commerce, MBA in Technology Management and PhD in Technology Management are taught entirely in English.

## STATUS

The College of Management (CoM) has offered education programs and leadership training for more than ten years. The College pursues high teaching quality and is dedicated to academic innovation, fostering academia-industry cooperation, and building up an effective knowledge-sharing platform.

### Accreditation

Because of our commitment to excellence in teaching and learning, all of our programs have been accredited by the Higher Education Evaluation and Accreditation Council

of Taiwan (HEEACT), and are currently in the process of accreditation by the Association to Advance Collegiate Schools of Business (AACSB).

### Faculty

At present, there are 80 faculty members in the College of Management including 36 professors, 23 associate professors, 20 assistant professors and 1 lecturer. Most of them have their PhD from top-notch universities in Australia, Japan, UK and US. To leverage the continuous changes in the academic and business worlds, we are in search of outstanding candidates to join our faculty and are committed to excellence in teaching, learning, research and community services.

### International Collaborations

To strengthen international exposure, we have established strong connections with various overseas universities by conducting collaborative research projects, organizing conferences, offering dual master degree programs and exchange programs. Our College has continuously attracted students from America, Europe and Asia. In 2011, we had 107 international students (13 in PhD programs, 26 in MBA programs and 68 in BBA programs).

### RESEARCH

Our faculty members do not just engage in quality teaching, but also excel in academic research. In 2011, we secured around NT\$57 million, funding 91 projects and

producing 134 research articles. Below are examples of some of our research:

- Dr. Liang-Chuan Wu published "Pharmaceutical Patent Evaluation and Licensing Using a Stochastic Model and Monte Carlo Simulations" in Nature Biotechnology in 2011.
- The Envisioning Ubiquitous Commerce Laboratory developed "HoJava," an App for Android 2.2, collecting 150,000 pieces of information about delicacies in Taiwan in 2012.
- The E-Commerce Research Center developed "5star," a platform for online shops, integrating abundant academia-industry consortium resources and practical experience of advisory panels from the industries.

### VISION

The vision of the College is to be the leader in the management-related field of academic, teaching and industrial research, to assume the key position of the regional academia-industry consortium, and to become a top-ranked College of Management internationally.



Inauguration of the CoM on October 29, 2011



Seminar on Entrepreneurs in the fall of 2011



Case Study Workshop for the faculty members



# College of Law and Politics

<http://law.nchu.edu.tw/~LPI/index.html>

e-mail : [clp@nchu.edu.tw](mailto:clp@nchu.edu.tw)

Tel : +886-4-22840822~4

Fax : +886-4-22859278

## FEATURES

Founded in 2011, the College of Law and Politics comprises one department and three graduate institutes, which all originated from the College of Social Science and Management. The College has a reputation for excellence in teaching and research, and it has links with professionals, industry and non-governmental organizations. It aims to increase the range of knowledge and understanding in the areas of law, politics, public affairs and professional education, so as to prepare our graduates for their future careers and to make contribution to society. The core value of the College is to pursue excellence in research and teaching.

The College offers bachelor's, master's and doctoral programs for local and international students. As of 2012, there are about 630 students in the College, including 220 undergraduates, 400 postgraduates and 8 international students.

## STATUS

The College comprises the Department of Law, the Graduate Institute of International Politics, the Graduate

Institute of National Policy and Public Affairs, and the Graduate Institute of Professional Development for Educators. Overseas students are welcome to apply for postgraduate studies if they hold a bachelor degree and produce evidence of proficiency in written and spoken English or Chinese adequate for their course of study.

### The Department of Law

The Department of Law, formerly the Department of Financial and Economic Law, was established in 2001, and has since developed into one of the leading law departments in Taiwan. Its teaching standards and research quality have received wide recognition among legal professionals and the industry. The department has a student population of about 340 (220 undergraduates and 120 postgraduates) with 14 full-time faculty members and 12 adjunct lecturers.

The Department offers Bachelor of Law (LL.B.) and Master of Law (LL.M.) programs, the former mainly for local students, as it focuses on Taiwanese law and is taught in Chinese. The four-year LL.B. program provides fundamental legal courses on constitutional, civil, criminal and administrative laws, upon completion of which

students will automatically acquire the qualification for taking the bar and judicial personnel examinations in Taiwan. The LL.M. programs encourage comparative and international perspectives on science and technology law. This also reflects the approach of the Department.

The Department provides excellent facilities and support for students. There is a Law Information Center which contains over 10,000 volumes, and the University has developed a computer network providing free access to domestic and international online databases such as Westlaw International.

#### **The Graduate Institute of International Politics**

The Graduate Institute of International Politics was established in 2000, aiming at providing students knowledge on international affairs. There are about 140 students with 7 full-time faculty members. The Institute offers master and doctoral programs for local and overseas students. The focuses of research are placed on four main areas, namely, basic theories on international politics, international political economy, global peace and strategy, and Taiwan-China cross straits affairs.

As of the year 2012, there are 8 international students from North America and Europe. The career prospect for graduates is not limited to government sector; they may also look into the roles in areas such as the mass media, political parties and think tanks.

To enhance and facilitate research in specialized areas, several centers have been established. They include the Global Strategic and Peace Center, the Japanese Studies Center, and the Contemporary Chinese Research Center.

#### **The Graduate Institute of National Policy and Public Affairs**

The Graduate Institute of National Policy and Public Affairs was established in 2006, aiming at becoming the most important research base on public affairs in central Taiwan. Presently, the Institute has about 110 students doing the master programs. It has 7 full-time faculty members with varied background and research interests. The main goal of the Institute is to cultivate and improve the analytical power of students on public affairs. Graduates have proved themselves to be valuable either in public or private sector.

#### **The Graduate Institute of Professional Development for Educators**

The Graduate Institute of Professional Development for Educators was formally founded in 2007, focusing on theoretical and practical research on professional development for educators. As of 2012, it has a total of 29 students doing the master's programs. The 8 full-time faculty members are dedicated to providing students with certain core competence, such as communication and conversation, critical thinking, professional ethics, and aesthetic perception.

#### **RESEARCH**

The 36 faculty members in the College have wide research interests ranging from international politics, law, public affairs to professional education. Their achievements are best reflected in the publications in different languages (Chinese, English, Japanese and Korean) over the years. Many of the faculty members also serve as either committee members or consultants to various different government branches, private corporations and non-governmental organizations. Some of the publications have become important references for the Executive and the Legislature to form new policies, draft new laws or amendments. Professor Bernard Y. Kao of the Law Department, for instance, was one of the drafters of Taiwan's Human Trafficking Prevention Act of 2009, a significant legislation and contribution to the fight against modern slavery, according to the United States Department of State in its 2010 Trafficking in Persons Report.

Research grants are awarded every year on a competitive basis from the National Science Council, the Ministry of Education, the Ministry of Interior, the National Health Administration, the Council of Agriculture, and other public or private institutes.

#### **VISION**

- To extend its reach around the globe, providing high quality education and training through cooperation with top universities, professional associations and industry.
- To make the College into a representation of distinguished research and teaching.
- To create a cosmopolitan collegiate atmosphere.
- To continue to attract high quality staff and students.

# Biotechnology Center

<http://btc.nchu.edu.tw/en/index.php>

e-mail : [btc@nchu.edu.tw](mailto:btc@nchu.edu.tw)

Tel : +886-4-22840450

Fax : +886-4-22861905



## MISSION

The Biotechnology Center (BTC) is the first genetic engineering research center established in Taiwan. BTC has established various core facilities and laboratories to meet the needs of teaching and research in the university. BTC also coordinates scientists from various academic fields for pursuing excellent teaching and research by integrating biotechnology related teaching courses, research and services in NCHU. In order to enhance academia-industry collaboration, BTC bridges fundamental research and practical applications of biotechnology, with an aim to develop the biotechnology industries in Taiwan.

## STATUS

### Teaching

The Biotechnology Center provides several teaching programs and teaching-related services, including teaching laboratories and class facilities. We provide two inter-school PhD programs: Tissue Engineering and Regenerative Medicine with NHRI, and Microbial Genomics with Academia Sinica. Our training programs will be reorganized according to the requirements of new biotechnology. We promote international biotechnology programs. We provide 6 pilot educational programs funded by the Ministry of Education in translational medicine and agriculture:

- Stem Cell and Regenerative Medicine
- Clinical Application of Genomics and Proteomics
- Clinical Laboratory Sciences and Medical Devices
- Aquaculture
- Crops and Floral Industry
- Poultry Industry

### Research

The Biotechnology Center also provides services and facilities for research, including core laboratories for research related to genomics and proteomics. We promote cooperative projects among different universities and research institutes, including the Agricultural Biotechnology

Center, part of the ATU Plan of the Ministry of Education, and the "NCHU-UCD Plant and Food Biotechnology Center" by I-RiCE program of the National Science Council. We integrate interdepartmental collaboration for research funds and promote international cooperation in research.

## Services

In addition to the teaching and research resources, BTC also provides several services. BTC hosts symposia and training workshops to publicize new discoveries and techniques, and demonstrates research performances in the Biotech Exhibition. There are also the core laboratory services such as DNA sequence determination, biochips and real-time PCR quantitative analysis, peptide and protein mass determination with MALDITOF and Qstar LC, a MS-MS system, and flow cytometry service.

## Administration of biotechnology related affairs:

BTC is responsible for administration of the following matters:

- Supervising radiation safety.
- Supervising recombinant DNA and biological safety.
- Supervising animal rights regulations.
- Promoting academia-industry cooperation.
- Approving, monitoring, and reviewing biomedical and behavioral research involving humans.

## VISION

Currently, BTC integrates teaching and research resources to develop key techniques and services in order to enhance the reputation of NCHU and upgrade the biotechnology industries in Taiwan.

### The future goals of BTC are:

- To improve teaching and research for personnel training and development.
- To emphasize the development of key techniques and the upgrading of biotechnology industries.
- To promote academia-industry cooperation, both domestic or international for new technological development.

# Center of Nanoscience and Nanotechnology

[http://nanocenter.nchu.edu.tw/  
index\\_eng.php](http://nanocenter.nchu.edu.tw/index_eng.php)

*e-mail:nanocente@nchu.edu.tw*

*Tel: +886-4-22840502*

*Fax: +886-4-22851149*

## MISSION

- To attract, educate, and mentor a diverse population of students at undergraduate and graduate level in nanoscale science and engineering.
- To promote collaborations to integrate the research resources in nanoscience and nanotechnology.
- To enrich and reinforce research infrastructure for nanoscience and nanotechnology.
- To foster potential research teams for competing nationally and internationally.
- To use on-campus R&D and expertise of nanotechnology for industry-oriented innovations.

## STATUS

The Center of Nanoscience & Nanotechnology (CNN), founded in 2003, promotes world-class research and fosters future talents in nanoscience and nanotechnology. The Center supports the pursuit of new opportunities and promotion of nanotechnology, thus a core-facility laboratory has been established to serve as a center for integrating inter-disciplinary collaboration. Such core facilities include a high-resolution transmission electron microscope, an ultrahigh vacuum scanning probe microscope, an atomic force microscope, a bio-atomic force microscope, a 3D nanoscale Raman/PL microscope, a field emission scanning electron microscope and others. Besides the core-facility laboratory, the Nano-Material Measurement Laboratory in CNN offers an accreditation platform for industrial product measuring services. These services can provide Nanotag certifications for measurements on nano-sized materials, and for more than 80 nanoproperties of a material. This well-established laboratory in CNN is committed to becoming a world-class testing laboratory for

providing services for nano-related products.

To bridge on-campus R&D and expertise of nanotechnology for industry-oriented innovations, 25 core members have been recruited from different institutes as adjunct professors in CNN. Research platforms are constructed and led by distinguished professors focusing on directions of material nanotechnology for engineering, medical nanotechnology for drug delivery and bio-imaging systems, and green nanotechnology for agriculture and energy. The framework that has been created for cooperative programs in CNN has built strong links both among academic researchers, and also between academia and industry in all aspects related to future advances in nanoscience and nanotechnology.

## VISION

- To strengthen our research network as a basis for CNN participants to compete for external funding from governmental and industrial sources.
- To provide more learning opportunities for undergraduate and graduate students.
- To promote educational & technical outreach for collaborators on regional campuses.
- To strengthen nano-related facilities to promote research in academia and industry.
- To actively engage in discussions of social, environmental, ethical and philosophical issues raised by nanoscience and nanotechnology.





*Signing a cooperative agreement between Jeju National University in Korea and National Chung Hsing University on November 25, 2011*

# Research Center for the Humanities and Social Sciences

<http://rchss.nchu.edu.tw/eng/index.php>

e-mail : [nchuhum@nchu.edu.tw](mailto:nchuhum@nchu.edu.tw)

Tel : 886-4-22840708

Fax : 886-4-22855020



## MISSION

The mission of the Research Center for the Humanities and Social Sciences includes research, teaching, and knowledge sharing. The main tasks of the Center are as follows:

- To draft university-wide research and development plans for the humanities and social sciences, improve teaching quality, and establish a platform to facilitate research, teaching and community outreach.
- To nurture a new generation of cross-disciplinary scholars/teachers, encouraging them to participate in various international academic communities and helping them broaden their perspectives.
- To provide a forum for scholars to exchange professional ideas or knowledge at regional, national, or international scales.
- To establish cooperative relationships with research institutes in Taiwan and abroad, initiating and participating in international academic exchanges, and raising the university's scholarly reputation in the humanities and social sciences.

## STATUS

Founded in 2008, the Research Center for the Humanities and Social Sciences (RCHSS) at NCHU is one of the four such centers in Taiwan funded by the Ministry of Education. As the only center of this kind located in central Taiwan, the Center serves as a pivot for regional, national and international academic collaborations.

## VISION

The primary aim of the RCHSS is to create a scholarly atmosphere grounded in multidisciplinary empirical research, with emphasis on both theory and practical problem-solving, which not only pursues teaching and learning excellence but also provides an intellectual ground for resolving social and cultural disputes over important local or global issues.

# Center for General Education

[http://cah.nchu.edu.tw/nchu\\_eng/intro/about.htm](http://cah.nchu.edu.tw/nchu_eng/intro/about.htm)

e-mail : [cah@nchu.edu.tw](mailto:cah@nchu.edu.tw)

Tel : 886-4-22840597

Fax : 886-4-22857861

## MISSION

The Center for General Education offers general education courses based on NCHU's educational objective: "nurturing educated elites with humanities and science literacy, communication skills, innovative minds, global vision and social consciousness".

## STATUS

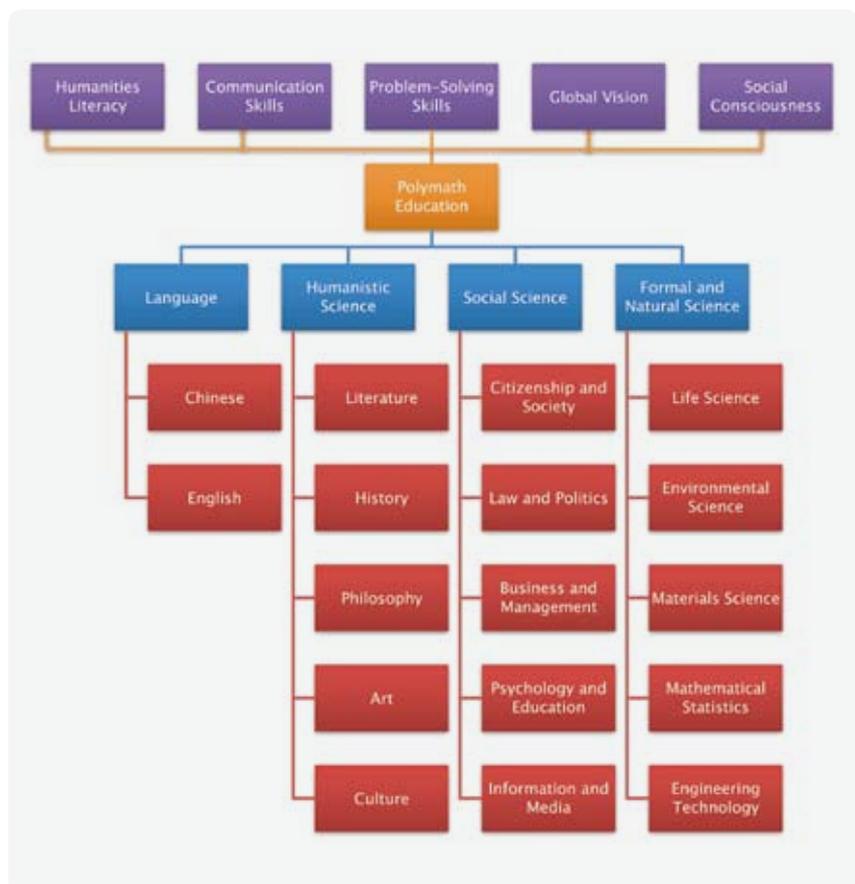
Aimed at broadening students' horizons and providing interdisciplinary learning, the Center for General Education coordinates more than two hundred specialized courses, categorized into four areas and fifteen subjects (as shown in the chart below), and offers multi-dimensional practices such as activity-oriented courses, on-campus and long-distance lectures, and ecological forest tours to provide students with multiple learning choices.

## VISION

The Center for General Education has established the "Students' Proactive Learning" system, which integrates and

distributes information about special speeches, artistic events and various other activities to students via email, to stimulate students to learn actively and

further achieve the Center's educational vision of nurturing polymaths.





# Computer and Information Network Center

<http://www.cc.nchu.edu.tw>

e-mail : [ccmail@nchu.edu.tw](mailto:ccmail@nchu.edu.tw)

Tel : +886-4-22840306~309

Fax : +886-4-22871774

## MISSION

The Computer and Information Network Center (CINC) is committed to providing the secure and contemporary IT tools and infrastructure necessary to help faculty, students, and staff in their learning, teaching, research, outreach, administration, and support activities. Additionally, CINC cooperates with the Ministry of Education (MOE) and Taiwan Advanced Research & Education Network (TWAREN) to promote and provide high-quality networking services in Taichung area. CINC has been rated as an outstanding unit by MOE for three consecutive years (2008, 2009, and 2010).

## STATUS

Our services mainly fall into the following categories:

- **Administrative Information Systems Development & Services** – We design, develop, and manage administrative information systems needed to run the University's business transactions and record keeping functions, including academic affairs, student affairs, human resources, payroll, etc.

- **Telecommunication and Networking Services** –

We provide support for NCHU's core networks, Internet connectivity, and telecommunication equipment and functions. We also provide high speed and seamless wireless network access for students, faculty, staff, and visitors.

- **Research Computing and Cloud Infrastructure Services** –

We adopt virtualization techniques to support the computing needs of scholars in their education and research endeavors at the University.

- **Software Resources** –

We provide University members with legal access to a variety of software resources.

## VISION

CINC continually strives toward excellence by providing cost-effective IT resources required to carry out the university's many missions.

# Center for Academia-Industry Collaboration and Intellectual Property Management (CAIC-IPM)

<http://caic.nchu.edu.tw/en/>

e-mail: [caicpm@nchu.edu.tw](mailto:caicpm@nchu.edu.tw)

Tel: +886-4-22851811/22840558/22859477

Fax: +886-4-22851672

## MISSION

In light of the growing importance of the intellectual property economics, the Ministry of Education (MOE) of Taiwan has been consistently promoting policies supporting the academia-industry collaboration. To support such policies, National Chung Hsing University (NCHU) has taken on a broader view of a university's role in modern society and actions, such as enhancing academia-industry collaboration and encouraging research that would meet the needs of society.

Furthermore, NCHU also strives to promote a friendly campus policy for academia-industry cooperation by encouraging faculty members to conduct research that would meet industry needs, thereby strengthening the exchange of professional expertise and resources between university and industry.

## STATUS

To expedite the process, NCHU reorganized its management system in 2009 by integrating the Technology Licensing Office, two Innovation Incubators, and the Academia-Industry Cooperation Office into the Center for Academia-Industry Collaboration and Intellectual Property Management (CAIC-IPM). CAIC-IPM aims to facilitate the remodeling and upgrading of industries in central Taiwan through active academia-industry collaboration. CAIC-IPM also aims to fulfill NCHU's responsibility of serving society and contributing to social and economic growth. CAIC-IPM

consists of three divisions:

### Division of Intellectual Property Management:

- Manage IP issues regarding R&D achievements
- Commercialize NCHU R&D achievements

### Division of Academia-Industry Collaboration Management:

- Plan and facilitate collaboration between NCHU and other public or private organizations

### Division of Innovation Incubation Management:

- Encourage and assist university members to start up new businesses
- Support and assist incubator tenants

## VISION

- To integrate university resources and increase academia-industry collaboration capacity.
- To establish a friendly campus for academia-industry collaboration.
- To nurture talents for academia-industry collaboration and intellectual property (IP) management.
- To provide IP management services to university faculty.
- To promote awareness of and commercialize the R&D achievements of NCHU.



## Art Center

<http://www.nchu.edu.tw/~art/>

e-mail : [art@nchu.edu.tw](mailto:art@nchu.edu.tw)

Tel : +886-4-22840449

Fax : +886-4-22850116



1. Art Troupe, Beijing University  
 2. "Red Birds" by Chyi-Woei Liou  
 3. "The Beauty of Waterfalls in the World," an Exhibit of Photography by Feng-Jyi Chang

### MISSION

Our mission is to encourage students to participate in artistic activities, to foster their interest in aesthetics, and to bolster their social engagement through art education. We believe that a university student requires a balance in knowledge of art and technology, and that this will contribute to better decision making in his or her career. The appreciation of art may bring serenity to his or her mind when confronted with difficulties in life.

To fulfill these missions, the Art Center conducts exhibitions, performances, lectures, and classes on a regular basis, providing a forum for students to interact with art masters. These events entail a great array of artworks and long processes of consultation and preparation. As such, the Art Center makes every effort to solicit donations from artists and businessmen to augment its art archives. As for lectures and performances, we routinely update our resource database, keep ourselves informed of the best performers in town and assess their likelihood of visiting our campus.

### STATUS

As the first university art center approved by the Ministry of Education in Taiwan, the Art Center at NCHU has a legacy of success in classical and modern art displays. This tradition will be maintained in our pursuit of excellence. In addition, in response to the rise of digital art, the Center is recalibrating its administrative regulations in order to accommodate computer-generated art. Currently, a small digital art exhibit is displayed weekly, testing the Center's relevant capacities and seeking feedback from both audience and experts. This digital deployment anticipates the construction of a computer art program at NCHU.

### VISION

New media art, a combination of humanities and technology, has swept the world, becoming interwoven with our lives. To keep abreast of current trends, we aim to establish a digital art studies department. In the long run, we hope that the department will evolve into a place where the best talents from all walks of life will converge and help transform Taiwan into a green silicon island.

*The 16th outstanding alumni award ceremony*

## Alumni Center

<http://alumni.nchu.edu.tw/e-main01.asp>

e-mail : [alumni@nchu.edu.tw](mailto:alumni@nchu.edu.tw)

Tel : +886-4-22840249

Fax : +886-4-22854119

NCHU began as the Advanced Academy of Agronomy and Forestry, founded by the Japanese in Taipei in 1919. Today, more than 130,000 alumni shine in many specialized fields and many of them have become leaders. In order to consolidate its alumni power, NCHU set up the Alumni Center (AC) in 1996 to develop a strong alumni network and strengthen University services to alumni.

The mission of the AC is to coordinate the worldwide NCHU Alumni Associations, provide campus services and information through multi-channel to the alumni, raise funds to assist the planning and implementations of school projects, and promote cooperation between NCHU and the industries where alumni have a presence. Currently, the AC is comprised of two divisions: the division of alumni liaison and the division of alumni service. The ultimate goal is to serve as bridge between alumni and their alma mater, and to unite our often influential alumni.

The Alumni Center holds some activities, such as the outstanding alumni award ceremony, through which alumni members can get together and expand their interpersonal activities, and it also publishes NCHU's alumni magazine and outstanding alumni magazine annually, in order to provide up-to-date information about the University and set up the university-industry information network.

In addition, more and more alumni donate cash, buildings, facilities, and scholarships to NCHU, so the Alumni Center creates funding plans and manages resources from alumni to assist with long term projects. The total amount of money

donated per year is now more than NT\$20 million, especially designated for the scholarship and assistantship funds, and it's increasing every year.

The general headquarters of the NCHU Alumni Association was founded in June 1999, now the branches and activities of the NCHU Alumni Association have spread all over the world, from New York and California in USA to Malaysia, China, and others. It holds some activities every year, such as the "Alumni Association Spring Feast" and the "Alumni Association General Assembly".

NCHU's alumni can obtain an alumni card from the AC. It provides various benefits, including discounts for transportation, lodging, dining and shopping in all stores that have an agreement with NCHU ([http://oga.nchu.edu.tw/upload/DocFile/DocFile1339115546\\_2.htm](http://oga.nchu.edu.tw/upload/DocFile/DocFile1339115546_2.htm)). In addition, alumni can use their identity cards to access and utilize university campus resources, such as their e-mail account, the main library, the swimming pool, and the facilities in the gymnasium. In addition, NCHU's alumni can also stay at the hotel in Hui-Sun Forest at a discounted room rate.



*The donation ceremony of NCHU Alumni Bus*



# School of Innovation and Industry Liaison (SIIL)

<http://www.siil.nchu.edu.tw/>

e-mail: [siil@nchu.edu.tw](mailto:siil@nchu.edu.tw)

Tel: +886-4-22873274

Fax: + 886-4-22850831

## MISSION

Formerly known as the Continuing Education School, the School of Innovation and Industry Liaison (SIIL) has relentlessly pursued the mission of better serving local communities and industries with high quality training programs. Specifically, SIIL aims to offer courses that (1) target at useful knowledge that industries need and that the University can provide, (2) provide continuing education opportunities, and (3) develop professionals with innovative thinking.

## STATUS

SIIL was ranked as the top affiliate by Taiwanese Central Occupation Development and Training Bureau in 2010. As such, SIIL of NCHU has established a reputation in continuing education in central Taiwan. Currently, SIIL consists of the following four divisions to achieve the above mission and goals:

- **The Division of Marketing and Planning**, which develops and bids for training projects
- **The Division of Continuing Education**, which manages and implements training programs
- **The Division of Extension and In Service Training**, which maintains curriculum records and offers degrees
- **The Division of General Affairs**, which counsels students and provides administrative support

SIIL also offers eight continuing education programs for

bachelor or postgraduate degrees:

- Chinese Literature
- Foreign Languages and Literatures
- History (stopped recruiting students since 2011 school year)
- Business Administration
- Accounting (stopped recruiting students since 2009 school year)
- Bio-Industry Extension and Management
- Cultural Innovation
- Light Emitting Diodes

## VISION

- To cooperate with various sponsoring institutions such as the City Government of Taichung and various government departments to offer diverse classes.
- To play a key role in matching external needs and offering competitive learning programs.
- To provide excellent adult education and training services to the general public and promote public awareness of NCHU's continuing education achievements.

*Personnel training lab class*



## Library

<http://en.lib.nchu.edu.tw/>  
e-mail : [reflib@nchu.edu.tw](mailto:reflib@nchu.edu.tw)  
Tel : +886-4-22840291  
Fax : +886-4-22873454

### MISSION

The National Chung Hsing University Library was established in 1961. On September 21, 1999, the devastating 921 earthquake destroyed the Library. Not long after, the new library building was built, and it was inaugurated on September 21, 2005. It is a 7 story structure over a basement and offers 2,000 reading seats. The Library provides a wide range of services and facilities as well as an array of resources for users. The Library supports NCHU's teaching and research needs in a variety of subjects. As of 2012, it holds a collection of 801,381 books, 761,958 e-books, 1,670 serial titles, 53,245 e-journal titles, 348,953 items of audio/visual materials, and a sizable collection of electronic resources.

In addition to the open stack area, the Library also has set up several special reading areas such as the Learning Commons, the Assisted Reading Area, the Multimedia Center, music areas, research rooms, and group study rooms. It is hoped that the Library will provide a highly accessible and inviting environment to support lifelong learning, and will be developed into a center for academic resources in central Taiwan.

### STATUS

The Library has six divisions: the Division of Acquisitions and Cataloging, the Division of Circulation, the Division of Reference, the Division of Serials, the Division of Information Systems, and the Division of University Archives. The Library is responsible for building library collections and serves to

support the learning, teaching and research needs of the students and faculty. It has a total of 42 employees, including one director, 31 certified staff members, 6 contract staff members, 1 project assistant, 2 maintenance workers and a technical assistant.

### VISION

- To be an intellectual center for our research-oriented university.
- To continue to develop and maintain up-to-date library information resources.
- To support a broad range of research and learning activities for the faculty and students.
- To create comfortable physical and virtual space to meet the information needs of users.
- To collaborate with the Central Taiwan Science Park to provide professional information services.
- To provide continuing education for the staff and help them to improve their professionalism.

# Honors and Awards

## International Academic Honors and Awards

Name of Recipients	Department	Honors and Awards
Der-Tsai Lee	Department of Computer Science and Engineering	Humboldt Ambassador Scientist, Alexander von Humboldt Stiftung/Foundation, Bonn, Germany (2010-2015)
		Member - Engineering Sciences, The Academy of Sciences for the Developing World (TWAS), Mexico City, Mexico (2008)
		Humboldt Research Award, Alexander von Humboldt Foundation, Germany (2007)
		Fellow, Association for Computing Machinery, USA (1997)
		Fellow, Institute of Electrical and Electronics Engineers, USA (1992)
Jei-Fu Shaw	Department of Food Science and Biotechnology	The Academy of Sciences for the Developing World (TWAS) Prize in Agricultural Science (2008)
		Honorary Doctor degree (Biotechnology) of Maejo University, Thailand (2008)
		Storer Lectureship of UC Davis, USA (2008)
		Fellow, American Association for the Advancement of Science (2006)
		Biotechnology Lifetime Achievement Award, American Oil Chemists' Society (2005)
Shyi-Dong Yeh	Department of Plant Pathology	Fellow, The American Phytopathological Society (APS)(2008)
Gow-Chin Yen	Department of Food Science and Biotechnology	Fellow, International Academy of Food Science and Technology (IAFoST)(2008)
		Fellow, American Chemical Society, Division of Agriculture and Food Chemistry (2005)
Chiu-Chung Young	Department of Soil and Environmental Sciences	Life Achievement Awards on Environmental Sciences, The International Council for Science (ICSU)(2010)
		ROC Member Standing Committee of International Biosciences Union Team Award for the INPUTS Project: East-West Center (1978)
Chung-Cheng Lu	Department of Life Science	Honorary Membership (Lifetime Achievement Award), Cephalopod International Advisory Council (2006)
Su-Chin Chen	Department of Soil and Water Conservation	International Trade Fair "Ideas-Inventions-New Products"(IENA), NUREMBERG GERMANY -Gold Medal Award : "Hooked Collars around Bridge Piers to Reduce the Local Scour "(2006)
Jenn-Wen Huang	Department of Plant Pathology	President, Asian Association of Agricultural Colleges and Universities (AAACU)(2006-2008)
Guu-Chang Yang	Department of Electrical Engineering	Fellow, Institute of Electrical and Electronics Engineers, USA (2012)

## Academician, Academia Sinica

Name	Department	Year
Der-Tsai Lee	Department of Computer Science and Engineering	2004

## Award for Outstanding Contributions in Science and Technology, Executive Yuan

Name of Recipients	Department	Year
Chiu-Chung Young	Department of Soil and Environmental Sciences	2004
Ching-Wei Cheng	Department of Bio-industrial Mechatronics Engineering	2007

## National Chair Professorship, Ministry of Education

Name of Recipients	Department	Year
Chiu-Chung Young	Department of Soil and Environmental Sciences	2009, 2005

## Academic Award, Ministry of Education

Name of Recipients	Department	Year
Chung-Tu Yang	Department of Entomology	1990
Chiu-Chung Young	Department of Soil and Environmental Sciences	1998
Shyi-Dong Yeh	Department of Plant Pathology	2005

**Bronze Science Profession Medal, National Science Council**

Name of Recipients	Department	Year
Der-Tsai Lee	Department of Computer Science and Engineering	2008

**Merit NSC Research Fellow Award**

Name of Recipients	Department	Year
Chiu-Chung Young	Department of Soil and Environmental Sciences	2002
Roger F. Hou	Department of Entomology	2002
Gow-Chin Yen	Department of Food Science and Biotechnology	2002
Shyi-Dong Yeh	Department of Plant Pathology	2006
Jeii-Fu Shaw	Department of Food Science and Biotechnology	2006
Long-Huw Lee	Department of Veterinary Medicine	2008

**NSC Research Fellow**

Name	Department	Year
Chin-Ning Sun	Department of Entomology	1996
Roger F. Hou	Department of Entomology	1996
Chi-Min Sung	Department of Agronomy	1998
Hao-Yang Tseng	Department of Food Science and Biotechnology	1998
Shyi-Dong Yeh	Department of Plant Pathology	2000
Chiu-Chung Young	Department of Soil and Environmental Sciences	2002, 1996
Gow-Chin Yen	Department of Food Science and Biotechnology	2002, 1996
Jeii-Fu Shaw	Department of Food Science and Biotechnology	2003, 2000
Long-Huw Lee	Department of Veterinary Medicine	2005, 2000

**Outstanding Research Award, National Science Council**

Name of Recipients	Department	Year
Der-Syh Tzeng	Department of Plant Pathology	1990
Roger F. Hou	Department of Entomology	1992, 1990, 1988, 1986
Chiu-Chung Young	Department of Soil and Environmental Sciences	1993, 1991, 1989, 1987, 1985
Gow-Chin Yen	Department of Food Science and Biotechnology	1994, 1992, 1990
Chin-Ho Lin	Department of Life Sciences	1994
Shyi-Dong Yeh	Department of Plant Pathology	1998, 1996, 1994
Tien-Jye Chang	Department of Veterinary Medicine	1998, 1996
Chien-Chang Lin	Department of Applied Mathematics	1998, 1996
Long-Huw Lee	Department of Veterinary Medicine	2000, 1997, 1995
Chang-Hsien Yang	Graduate Institute of Biotechnology	2002
Jyh-Myng Zen	Department of Chemistry	2003, 1996
Jason Tzen	Graduate Institute of Biotechnology	2003, 1998
Ming-Ke Wang	Department of History	2003
Hong-Chen Chen	Department of Life Sciences	2003

# Honors and Awards

Name of Recipients	Department	Year
Ming-Yen Wey	Department of Environmental Engineering	2003
Chin-Yih Hong	Graduate Institute of Biomedical Engineering	2003
Ming-Hui Huang	Graduate Institute of Electronic Commerce	2003
Meng-Hsiao Meng	Graduate Institute of Electronic Commerce	2004
Wen-Hwei Hsu	Graduate Institute of Molecular Biology	2004
Guu-Chang Yang	Department of Electrical Engineering	2004
Shan-Ho Chou	Graduate Institute of Biochemistry	2004, 1999
Dong-Sing Wu	Department of Materials Science and Engineering	2008
Maw-sheng Chien	Graduate Institute of Veterinary Pathobiology	2009
Jeng-Leun Mau	Department of Food Science and Biotechnology	2010
Kuei-Fen Chiu	Graduate Institute of Taiwan Literature and Transnational Cultural Studies	2010, 1999
Chun-Liang Lin	Department of Electrical Engineering	2010, 2003, 1999
Jian-Wei Chen	Graduate Institute of Bioinformatics Sciences	2010, 2007

## Honorary Doctorate, NCHU (1998 ~ 2010)

Name	Experience	Year
Chuan-Chin Lo	Legislator	1998
Gerald C. Hsu	Former president of Avant Co., Ltd. CEO of Eclair Group Inc.	2000
Yuan-Tseh Lee	Recipient of the Nobel Chemistry Prize in 1986 President of Academia Sinica	2007
Wan-Nien Lin	President of Spacy Industrial Co., Ltd.	2007
Pang-yuan Chi	The first chair of Department of Foreign Languages and Literatures, NCHU Winner of The 2009 Presidential Culture Awards	2009
Chi-Huey Wong	President of Academia Sinica	2010

## Professors Emeritus/Emerita, NCHU

Name	Department	Year
Tso-Chuan Chuang	Department of Soil and Environmental Sciences	2004
Cheng-Tzu Liu	Department of Forestry	2005
Wen-Shyg Chiou	Department of Animal Science	2005
Ming-Je Lo	Department of Applied Economics	2006
Jiunn-Shiow Wang	Department of Veterinart Mediane	2007
Fu-Ming Wu	Department of Veterinart Mediane	2007
Feng-Jyi Chang	Department of Forestry	2007
Tsai-Yung Chen	Department of Forestry	2007
Shaw-Lin Lo	Department of Forestry	2007
Ming-Ming Wu	Department of Marketing	2008
Chu-Seng Hu	Department of Chinese Literature	2009
Chung-Hsuan Tung	Department of Foreign Languages and Literatures	2009
Happy K. Shieh	Department of Veterinary Medicine	2009

Name	Department	Year
Sheng-Ming Chen	Department of Life Sciences	2009
Cheng-Sheng Chien	Department of Applied Mathematics	2009
Chin-Ho Lin	Department of Life Sciences	2010
Yu-Tsai Jen	Department of History	2010
Tsong Yen	Department of Civil Engineering	2010
Wen-Hwei Hsu	Graduate Institute of Molecular Biology	2011
Roger F. Hou	Department of Entomology	2011

### Outstanding Alumni, NCHU

Name				Year
Ching-Yi Chen Shu-Shih Chen	Hou-Kao Lee	Hui-Hsing Tsai	Li-Te Hsu	1997
In-Jaw Lai Ying-Huan Chou	Pin-Kung Chiang	Tsong-Teh Kuo	Tun-Ho Yang	1998
Hsin-Chih Hsu Jung-Ming Wu	Hsiu-Hua Hsu	Huai-Nan Peng	Hung-Tsai Cheng	1999
Chun-Yi Lin Yung-Tai Chen	Gerald C. Hsu	Sheng-San Lin	Wan-Lan Wu	2000
An-Kuo Liu Wan-Nien Lin	Hsien-Ta Liu	Kuei-Jung Wang	Lien-Ho Chen	2001
Chung-Hsi Kao	Kuan-Chung Huang	Kuo-Chin Li	Ling-Hui Cheng	2002
Charles H.C. Kao Peter P.Y. Liu	Chen-Tan Ho Tian-Yow Tsong	Ching-Lung Lee	Edward T.H. Yang	2003
Chung-Shing Huang Tompson Weng	Fu-Kuo Chang	Irene J. Li	Lin-Yung Kuo	2004
Ching-Fwu Lin Timothy Huang	Chin-Seng Chen Yi-Nan Chiang	Chung-Hsung Shih	Sung-Ching Hsieh	2005
Boon-Swee Chew Chuan Shih Neng-Jen Shih	Chiao-Ming Yu Hsin-Sheng Tsay Shain D. Kung	Chien-Chang Lin Hsun Tu Wen-Ruey Chang	Ching-Wen Kao Huei-Long Wu Ying Yeh	2006
Ann-Shyn Chiang Li-Huei Tsai Tso-Cwei Peng	Ching-Chiang Tsai Ming-Chao Liu	Hsin-Sui Ko Ming-Yuan Hsien	Laura Lee Pen-Chih Lai	2007
Chwan-Jinin Lo Pan-Ming Huang	Jen-Teh Yen Shy-Hwa Cheng	Mao-Sheng Lee Wu-Hsiung Chen	Ming-Ming Wu	2008
Dai-Gee Shaw Hsieh-Shih Tsang Lien-Gene Chen Sheng-Zhong Lin Y.S. Lin	F.H.Chang Jen-Hsiang Chang Nancy Lin Tsai-Mu Shen Yue-Hsing Huang	Fa-De Chang Jinn-Lih Chen Pen-Tsao Chang Wen-Ben Yang Yu-Hsieh Sung	Hei-Ti Hsu Kuan-Min Wu Ping-Shi Yang Xiang Fu Kong	2009
Chen-Shih Lin I-Hsuan Lin Shih-Pin Wang Wei-Fuu Yang	Chia-Wei Li Leung-Chip Chen Sou-Shan Wu Yao-Ying Lin	Horng-Ming Yang Ming-Fu Wu Steve Lin Ying-Yao Chuang	Hsin-Hung Hsu Robert Tu Ting-Pang Tsai	2010
Chung-Nan Chang Kasem Dee Ming-Huang Chen Tzann-Feng Lin	Endy Wang Kuo-Ching Ho Muh-Kuen Lo Yin-Tung Wang	Hung-Chang Huang Shiuh-Ying Lee Yin Scheng-Ming Tschen Yiu-Lung Chen	Join-Sane Lin Melanie Hsu Tein-Chen Chou	2011
Chiu-Chung Young Rong-Jou Wang William Lu	Chiu-Jung Tsai Steve Ruey-Long Chen Xue-Zheng Lin	Chun-Kons Lee Su-May Yu Yu-Chan Chao	Jean Lee Tian-Hang Gong Yueh-Hsi Wu	2012

# Map of the Campus

- |   |  |
|---|--|
| 01. Humanities Building                           | 39. Plant Science Building                           |
| 02. Language Center                               | 40. Information Science Building                     |
| 03. President's Residence (Ying-Lu)               | 41. Chemistry Building                               |
| 04. Coniferous Tree Area                          | 42. College of Science Building                      |
| 05. Security Office                               | 43. Applied Economics Building 1A                    |
| 06. Main Entrance                                 | 44. Tennis Court                                     |
| 07. Hui-Sun Auditorium                            | 45. Civil & Environmental Engineering Building       |
| 08. Student Center                                | 46. Men's Dormitory                                  |
| 09. Small Auditorium                              | 47. Yun-Ping Building                                |
| 10. International Agriculture Center              | 48. Library  |
| 11. Women's Dormitory (Chin Hsuan)                | 49-50. Green House                                   |
| 12. Women's Dormitory (Pu Hsuan)                  | 51. Mechanical Engineering Building                  |
| 13. Women's Dormitory (Hua Hsuan)                 | 52. Machinery Workshop                               |
| 14. Faculty Housing                               | 53. Innovation Incubator                             |
| 15. Women's Dormitory (Yi Hsuan)                  | 54. Bio-Industrial Mechatronics Engineering Building |
| 16. Post Office                                   | 55. Mechanical Engineering Building 2A               |
| 17. Faculty Housing                               | 56. Concrete Technology Building                     |
| 18. Integrated Teaching Building                  | 57. Men's Dormitory (Jen Chai)                       |
| 19. Nan Garden                                    | 58. Men's Dormitory (Yi Chai)                        |
| 20. Administration Building                       | 59. Men's Dormitory (Li Chai)                        |
| 21. Chemical & Material Engineering Building      | 60. Men's Dormitory (Chih Chai)                      |
| 22. Electrical Engineering Building               | 61. Men's Dormitory (Hsin Chai)                      |
| 23. Life Science Building                         | 62. Dormitory Mail Room                              |
| 24. Applied Science & Technology Building         | 63. Sports Field                                     |
| 25. Science & Engineering Building                | 64. Basketball Court                                 |
| 26. Forestry Building                             | 65. Volleyball Court                                 |
| 27. Water & Soil Conservation Building            | 66. Tennis Court                                     |
| 28. Water & Soil Conservation Building 2A         | 67. Gymnasium  |
| 29. Applied Economics Building 2A                 | 68. Crop Science Laboratory                          |
| 30. Graduate Institute of Biotechnology           | 69. Indoor Swimming Pool                             |
| 31. Food Science & Biotechnology Building         | 70. Animal Experiment Center                         |
| 32. Food Science & Biotechnology Processing Plant | 71. Experimental Farm for Agronomy Department        |
| 33. Animal & Plant Health Inspection Building     | 72. Large Animal Facilities                          |
| 34. Social Science & Management Building          | 73. Animal Science Building                          |
| 35. Chung-Hsing Lake                              | 74. Veterinary Medicine Building                     |
| 36. Agricultural & Environmental Science Building | 75. Animal Disease Diagnostic Center                 |
| 37. Precision Engineering Building                | 76. Veterinary Medical Teaching Hospital             |
| 38. Horticultural Experiment Station              |  |





國立中興大學  
National Chung Hsing University

台中市南區402國光路250號  
250, Kuo Kuang Road, Taichung 402, Taiwan  
Tel: +886-4-22857848 / Fax: +886-4-22873702  
Website: <http://www.nchu.edu.tw>

NCHU Photos by Mr. Chien-Ming Chen, Ms. Ching-Jung Tsai, Mr. Pin-Hsueh Chiang,  
Mr. Chi-Sheng Chen, Mr. Ling Chuang, Mr. Chiung-Hung Lai, Photography Club, Sincer Inc., etc.