



SUMMARY REPORT

on joint international accreditation of the Bachelor
educational programme

«Plant Protection»

delivered by China Agricultural University
(People's Republic of China)

While preparing this Summary Report we used information from the Self-Evaluation Report and the Report on the External Review of the Bachelor educational programme «Plant Protection» delivered by China Agricultural University (People's Republic of China).

The presentation document for the use by the National Accreditation Board.

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GENERAL INFORMATION ON EDUCATIONAL INSTITUTION

Full name of the educational institution	<i>China Agricultural University</i>
Founders	<i>Ministry of Education of the People's Republic of China</i>
Year of foundation	<i>1905 – Agricultural University under the Imperial University of Peking 1950 – Beijing Agricultural University 1995 – China Agricultural University</i>
Location	<i>No.2, Yuanmingyuan, Haidian District, Beijing, 100193</i>
Vice-President	<i>Sun Qixin, Professor</i>
Number of students	<i>19195 of whom: 11415 are Bachelor and Master students 4486 are postgraduate students 3294 are doctoral students</i>

CHINA AGRICULTURAL UNIVERSITY

China Agricultural University was founded in 1905 as Agricultural University by Imperial University of Peking. The present university was opened in 1995 by merging Beijing Agricultural University and Beijing Agricultural Engineering University. China Agricultural University is directly subordinated to the Ministry of Education of the People's Republic of China. It is a higher education institution that specializes in agriculture, biology, engineering, veterinary medicine, economy, management, social science and the Humanities. It is one of the universities participating in 2 national programmes for development of higher education in China (211 and 985 Projects).

The University delivers 19 doctoral programmes and 57 Bachelor and Master programmes. The total number of students is 19195, including 11415 Bachelor and Master students, 4486 postgraduate students and 3294 doctoral students. The educational programmes are delivered by the teaching staff that comprises 1800 people, including 5 academicians of the Chinese Academy of Sciences and 7 academicians of the Chinese Academy of Engineering.

Material and technical resources of China Agricultural University include a big research library divided into 2 parts: western and eastern libraries with the stock of more than 2 million units of training, research, methodological, fine and foreign literature. The university has 3 state laboratories, 1 national engineering and technical laboratory, 2 national research centres and 68 provincial and ministerial laboratories (bases and centres). The following facilities are created: the academic and technological demonstration park, 8 work stations in Beijing, Hebei, Shandong, Shanxi, Ningxia, Sichuan and Fujian, and the biggest student facilities for practical training that include more than 20 research institutes and enterprises.

China Agricultural University pays great attention to the development of international exchange programmes and cooperation with foreign universities. By now the educational institution has agreements with 60 leading universities from 20 countries, including the USA, Germany, Canada, Great Britain, the Netherlands, Denmark, Japan, Korea, Thailand, Australia, New Zealand, Russia, Israel, etc. Every year hundreds of leading foreign researchers and experts are invited to deliver lectures and share experience. The international centres established on the basis of the university together with other countries promote research work (German-Chinese Centre for Development of Agriculture, Sino-Japanese Training Centre for Maintenance of Agricultural Machinery, Sino-Israeli International Centre for Research in Agriculture, Sino-Japanese Research Centre for Management of Live-Stock Breeding).

China Agricultural University is listed in the Top-100 of the QS University Rankings: BRICS 2019 and Top-150 of the QS University Rankings: Asia 2019; it also ranks 35th in the Top Chinese University Ranking by QS, 2019.

The «Plant Protection» has traditionally been a key discipline of China Agricultural University. In 1949 the programmes «Plant Protection» of University of Peking, Tsinghua University and North University of China merged into one programme of Beijing Agricultural University. In 1996 the educational programme became a key discipline of the Project 211, and in 2004 – a key discipline of the Project 985. The College of Plant Protection comprises two Departments: the Department of Plant Pathology and the Department of Entomology.

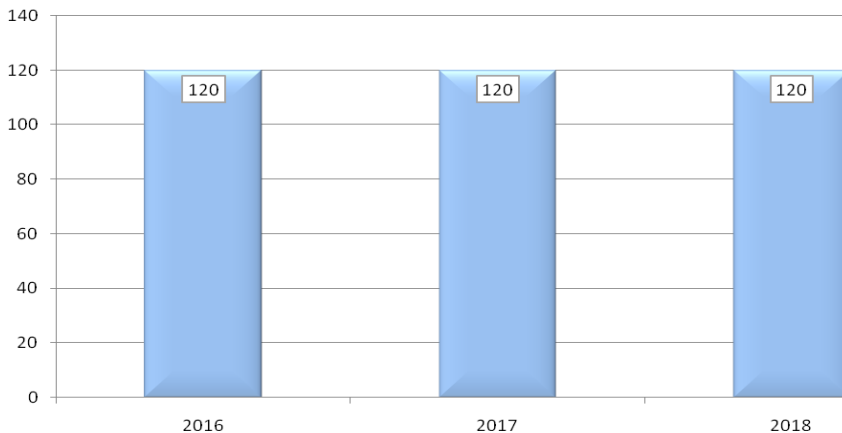
The teaching staff comprises 82 people, including 37 Professors and 37 Associate Professors. It also includes Vice-President of the Asian Association of Plant Pathology, Vice-President of the International Society of Specialists in Insects, Director of the Chinese Society of Plant Protection, Vice-President of the Entomological Society of China, etc.

The College has the laboratory for pests monitoring, laboratory for seeds quality control, Research Centre of Plant Viability, and experimental farms located in Beijing, Heilongjiang, Liaoning and other Chinese provinces.

INFORMATION ON THE STUDY PROGRAMMES UNDERGOING ACCREDITATION

Educational programmes	<i>«Plant Protection»</i>
Level of training / Standard period of training	<i>Bachelor Programme / 4 years</i>
Structural subdivision	<i>College of Plant Protection</i>
Degree-granting departments	<i>Department of Plant Pathology Department of Entomology</i>
Dates of Review	<i>December 04-07, 2018</i>
Person responsible for accreditation	<i>Youliang Peng PhD., Professor</i>

REFERENCE DATA ON STUDENT ENROLLEMENT FOR THE EDUCATIONAL PROGRAMME «PLANT PROTECTION»



ACHIEVEMENTS OF THE STUDY PROGRAMMES

Quality of the delivered educational programmes

The quality of the educational programme is ensured by the highly qualified teachers and their systematic professional development; active research work of teachers and students; international relations and close cooperation with employers; development and continuous improvement of teaching materials and the use of innovative educational technologies in the educational process.

Providing up-to-date content of education

The content of the educational programmes and curricula is annually renewed and improved with the account of recommendations of graduates and employers. Students have an opportunity to choose courses due to the system of individual learning paths.

Teaching staff

The teaching staff comprises 82 people, including 37 Professors (45,12%), 37 Associate Professors (45,12%) and 8 teachers (9,76%) that provides high quality of education. The centres for training of teachers are created. The teachers regularly serve internships in leading foreign universities and large enterprises of the country.

Employability of graduates

The university has a stable system of teaching and management providing academic, psychological and career guidance support of students. Graduates are in high demand on the labour market in China and other countries. For the last three years the employment rate was 95,68%, 68,10% of graduates continue their education (56,27% - in China, 11,83% - abroad), 8,96% of graduates work in government institutions, 21,51% work in private institutions in the spheres of agriculture, forestry, construction and environmental protection. The majority of students continuing their education choose higher education institutions participating in the Project 985, and such institutions of the Chinese Academy of Sciences as Tsinghua University, Peking University and Zhejiang University. Students also choose foreign HEIs such as University of California, Cornell University (USA), Wageningen University (Netherlands).

Educational resources

The educational programme unites various forms and methods of teaching and focuses on combination of online and offline training. A new model of teaching «3 in 1» is created at the university and includes the experimental teaching center, discipline laboratory and off-campus base that provides balance of the theoretical and practical training, teaching and science.

In addition, there are experimental farms in Beijing, Heilongjiang, Liaoning, Henan, Hebei, Shandong, Hainan, etc. The student internship bases are created together with 18 research institutes and enterprises where students improve their practical skills.

Academic mobility of students

The College of Plant Protection and the university actively supports students participating in innovative and entrepreneurial programmes and programmes of academic mobility. For example, in 2018 several outstanding students served summer internships in Tanzania as part of the national strategy «One Belt – One Road».

International projects

China Agricultural University actively carries out joint international projects together with foreign universities, organizations and enterprises. Nowadays the College of Plant Protection has cooperation agreements with 30 countries and regions. The educational programme «Plant Protection» is delivered together with Auburn University (USA) for many years. In 2017 the university started negotiations with Kentucky University on joint delivery of the programme due to the system 2+2.

EXTERNAL REVIEW PANEL



Yulin Chen (China)

Review Chair

PhD, Professor, Vice-President, Northwest University, Chair of the Department of Animal Ecology, Chinese Association of Animal Science and Veterinary Medicine

A nominee of the Higher Education Evaluation Centre of the Ministry of Education, HEEC



Wei Zhang (China)

Panel member

PhD, Professor, Director of the Department for Academic Affairs, Nanjing Agricultural University

A nominee of the Higher Education Evaluation Centre of the Ministry of Education, HEEC

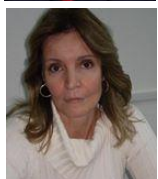


Xiangdong Li (China)

Panel member

PhD, Professor, Director of the Division of International Exchange and Cooperation, Shandong Agricultural University, council member of the China Society of Plant Protection

A nominee of the Higher Education Evaluation Centre of the Ministry of Education, HEEC



Elena Pakina (Russia)

Panel member

Candidate of Biological Sciences, Associate Professor, Deputy Director of the Agrobiotechnology Department of the Agrarian and Technological Institute, Peoples' Friendship University of Russia

A nominee of the Guild of Experts in Higher Education



Natalia Lepp (Russia)

Panel member

Candidate of Biological Sciences, Associate Professor, Deputy Head for Educational Work of the Department of Plant Protection and Quarantine, Saint Petersburg State Agrarian University

A nominee of the Guild of Experts in Higher Education



Juan Zeng (China)

Panel member, representative of professional community

Senior agronomist, Deputy Director of the National Agricultural Centre of the Ministry of Agriculture and Rural Affairs of the People's Republic of China

A nominee of the Higher Education Evaluation Centre of the Ministry of Education, HEEC



Jianguo Ke (China)

Panel member, representative of professional community

Professor, Vice-President, Nonglian High-Tech Industrial Development

A nominee of the Higher Education Evaluation Centre of the Ministry of Education, HEEC

INFORMATION ON THE LEADING TEACHERS OF THE EDUCATIONAL PROGRAMMES

Youliang Peng

PhD, Professor, Dean of the College of Plant Protection, member of the editorial board of the annual journal «Phytopathology», Vice-President of the International Society for Plant Pathology, Chairman of the Chinese Society for Plant Pathology, Chang Jiang Scholars Professor, recipient of the National Science Fund for Distinguished Young Scholar, chief expert of the National Basic Research and Development Program (973 programmes), expert of the modern agricultural industry technology system of the Ministry of Agriculture and Rural Affairs

Qi Wang

PhD, Professor, Vice-Chairman of the Asian Plant-growth Promoting Rhizobacteria Society, executive director of the Chinese Society for Plant Pathology, winner of New Century Outstanding Talents of the Ministry of Education, expert of the modern agricultural industry technology system of the Ministry of Agriculture and Rural Affairs, winner of the national outstanding science and technology workers

Wanzhi Cai

PhD, Professor, Associate Dean of the College of Plant Protection, standing council member of the Entomological Society of China, standing council member of the Chinese Society for Plant Protection, Vice-Chairman of the Entomological Society of Beijing, teaching master of the National High-level Personnel of Special Support Program, winner of the National Science Fund for Distinguished Young Scholars, chief-editor of the Journal of Plant Protection (formerly as Acta Phytophylacica Sinica)

Xiwu Gao

PhD, Professor, Vice-Chairman of the Chinese Society for Plant Protection, associate editor of «Acta Entomologica Sinica» and Journal of Plant Protection, expert of the modern agricultural industry technology system of the Ministry of Agriculture and Rural Affairs, winner of Special Government Allowances of the State Council

Ding Yang

PhD, Professor, member of the editorial board of the journals «Acta Zootaxonomica Sinica», «Entomotaxonomia», «Fauna Sinica», «Terrestrial Arthropod Reviews», winner of Special Government Allowances of the State Council, recipient of the National Science Fund for Distinguished Young Scholars

Zhanhong Ma

PhD, Professor, Vice-Secretary and council member of the Chinese Society for Plant Protection, Chairman of the Plant Resistance to Disease and Insect Pest Committee, Vice-Chairman of the Grassland Plant Protection Committee of the Chinese Grassland Society, backbone young teacher of the New Century National Talent Project of Ministry of Education

Jianqiang Li

PhD, Professor, Chairman of the Beijing Society for Plant Pathology, executive director of the Chinese Society for Plant Pathology, member of the Teaching Committee of the International Society for Plant Pathology, winner of New Century Outstanding Talents of the Ministry of Education

Zaifeng Fan

PhD, Professor, member of the editorial board of the journals «Acta Phytopathologica Sinica», «Plant Protection», member of the Virus Committee of the Chinese Society for Plant Pathology, member of the American Phytopathological Society, member of Society for General Microbiology

Ligang Zhou

PhD, Professor, First Vice-Chairman of the Plant-Derived Pesticide Industry Technology Alliance, member of the 7th editorial board of Guihaia, member of the 9th Board of Directors of the Chinese Society for Plant Protection

Hanwen Ni

PhD, Professor, winner of the National Special Fund for Biosafety Research on Genetically Modified Crops

Zejian Go

PhD, Professor, Director of the Chinese Society for Plant Pathology, deputy editor of the journal «Acta Phytopathologica Sinica»

Chenggui Han

PhD, Professor, expert of the modern agricultural industry technology system of the Ministry of Agriculture and Rural Affairs, Vice-Chairman and Secretary of the Chinese Society for Plant Pathology

Zhihong Li

PhD, Professor, personal standing director of the China Society of Inspection and Quarantine, member of the Biological Invasion Branch of the China Society for Plant Protection, member of the collaboration group of plant quarantine experts of the Ministry of Agriculture and Rural Affairs

Jie Shen

PhD, Professor, Associate Dean of the College of Plant Protection, council member of the Entomological Society of China, standing council member of the Entomological Society of Beijing, winner of New Century Outstanding Talents of the Ministry of Education, member of National High-level Personnel of Special Support Program

Zhangwu Zhao

PhD, Professor, council member of the Entomological Society of China, standing committee member of the Sleep Physiology and Pharmacology Committee of the Chinese Sleep Research Society, standing committee member of the Physiology and Biochemistry Committee of the Entomological Society of China, member of the Academic Committee of the State Key Laboratory of Integrated Management of Pest Insects and Rodents

Jun Fan

PhD, Professor, Associate Dean of the College of Plant Protection, winner of the Outstanding Instructor Award for 100 Excellent Graduation Thesis for Undergraduates of China Agricultural University (2014, 2017)

Wangpeng Shi

PhD, Professor, Director of the China Society of Plant Protection, Head of the Department of Entomology, China Agricultural University, chief expert of GAP in Asian Development Bank.

Xin Zhou

PhD, Professor, Deputy Director and Executive Director of the National Gene Bank of Shenzhen, chief scientist of the Beijing Advanced Innovation Center for Food Nutrition and Human Health, member of National High-level Personnel of Special Support Program

Xingyue Liu

PhD, Professor, Vice-President of the International Neuropteran Insect Society, member of the Young Workers Committee of the Entomological Society of China, member of the Entomological Classification and Palaeoentomology Subcommittee, Excellent Young Scientists Fund of Notational Natural Science Foundation of China

Xuehong Wu

PhD, Professor, Deputy Head of the Department of Plant Pathology, China Agricultural University, member of the Chinese Society for Plant Pathology, member of the China Society of Plant Protection, member of the American Phytopathological Society, expert of the Beijing Modern Agricultural Industry Technology System

COMPLIANCE OF THE EXTERNAL REVIEW OUTCOMES WITH THE STANDARDS

STANDARD 1. Educational objectives

Compliance with the standard: **full compliance**

Good practice:

The objectives of the educational programme meet the requirements of the modern labour market and are coordinated with the mission and development strategy of the university.

In 2017 the programme was included in the project «First-Class Disciplines of the People's Republic of China» that is aimed at creating world-class disciplines by the end of 2050.

A new model of teaching «3 in 1» is created at the university and includes the experimental teaching center, discipline laboratory and off-campus base that provides balance of the theoretical and practical training, teaching and science.

The educational programme is holistically reviewed every 8 years and partially reviewed every 4 years. Due to this fact the objectives of the programme meet the requirements of the country development.

Areas for improvement:

It is recommended that representatives of the professional community and business experts should be involved in review of the objectives of the educational programme.

It is advisable that cooperation with a real sector of economy should be enhanced; agreements with large agricultural enterprises of China should be signed for practical training of students.

STANDARD 2. Graduate outcomes

Compliance with the standard: **full compliance**

Good practice:

The expected learning outcomes fully correspond to the objectives of the educational programme.

The graduates are in high demand (employability rate is 94%).

Material and technical resources allow students to understand the whole process of agricultural production as well as to develop skills, including the sphere of information technologies and innovations.

Employers are highly satisfied with the quality of graduates' training (100%).

Areas for improvement:

It is recommended that courses on critical thinking with theory, practice-oriented exercises and tests should be introduced in the educational programme.

It is advisable that students should be more actively involved in resolution of life situations; they should visit rural areas and fields. It is recommended that summer practical courses should be improved.

It is necessary to actively use modern information technologies in agriculture. It is advisable that the educational programme should include courses (for example, intellectual plant protection) that help to understand how IT-sphere can be used in plant protection.

STANDARD 3. Curriculum

Compliance with the standard: **partial compliance**

Good practice:

The curricula of the educational programme fully meet the requirements of the National Qualifications Framework.

The content of the curricula and programmes are corrected and regularly reviewed under the conditions of constantly changing requirements of the labour market; students, teachers and graduates are involved in this process.

Different methods of teaching are used, including «blended learning», online courses and work in small groups.

Areas for improvement:

It is recommended that the number of elective courses should be increased.

It is advisable that forms of cooperation with associations of graduates and large enterprises should be extended to create bases for practical training in the south regions of the country.

STANDARD 4. Faculty

Compliance with the standard: **full compliance**

Good practice:

The teaching staff is well balanced and highly qualified (97,6% of teachers are Doctors of Sciences). Many teachers have experience of work in agriculture.

High publication activity of the teaching staff is in place. Teachers receive patents for inventions and participation in important research programmes on the national and provincial levels.

The University supports the state initiative «One Belt One Road» and the strategy «Going out, Bringing in» that provide visit of the teaching

staff to foreign universities for learning and research as well as involvement of foreign leading teachers in the educational process to deliver lectures.

Areas for improvement:

It is recommended that the system of motivation and incentives of the teaching staff should be improved.

It is advisable that the teaching staff should complete the courses of professional development in the sphere of modern information technologies.

It is necessary to more actively involve graduates and young scientists from other leading universities of China in the educational process.

STANDARD 5. Teaching and Learning Resources

Compliance with the standard: **full compliance**

Good practice:

The educational programme is provided with modern material and technical resources, multimedia classrooms, professional laboratories and bases for practical training (including 20 off-campus bases for practical training).

The research library is sufficiently provided with research, educational, fine and foreign literature (more than 2 million exemplars).

A new modern academic building of the College of Plant Protection is built.

Areas for improvement:

It is advisable that students should be divided into small groups for practical training and development works.

It is recommended that the teachers should more actively develop their study guides.

STANDARD 6. Quality assurance

Compliance with the standard: **full compliance**

Good practice:

The complex system of quality assurance is in place and includes the system of management decisions, system of monitoring of the educational process, system of improvement of pedagogical activities and complex system of evaluation.

The internal and external system of evaluation of education quality is regularly used.

The university actively cooperates with the universities of the USA (University of Kentucky, Auburn University, Cornell University) in development of new systems and reforms of teaching.

Areas for improvement:

It is recommended that the role of representatives of employers, government institutions and the Ministry of Education in correction of the educational programmes should be enhanced.

It is advisable that the indicators of national and international systems of ranking of higher education institutions should be used as a tool of independent evaluation of the educational programme.

STANDARD 7. Student development

Compliance with the standard: **full compliance**

Good practice:

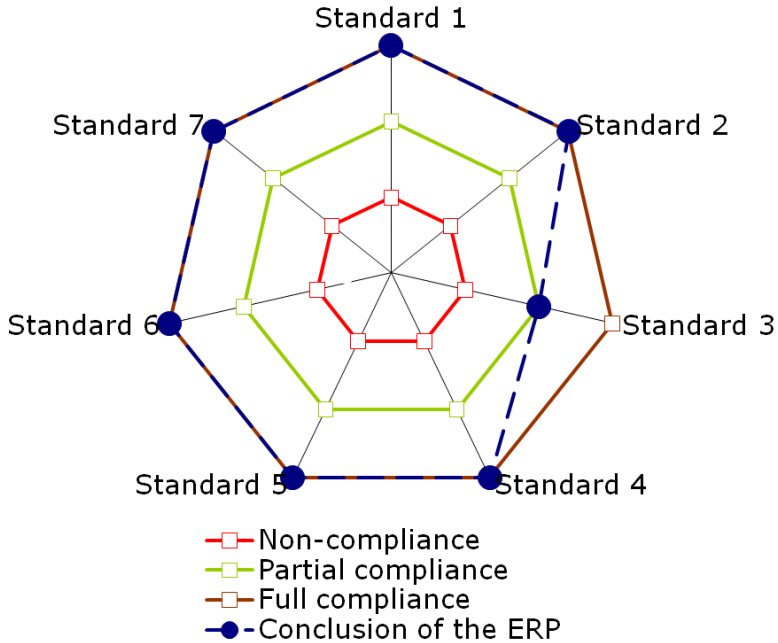
Systematic career guidance work is carried out. Engagement and support of talented applicants is in place.

The university actively carries out joint international projects together with foreign universities, organizations and enterprises. The educational institution has agreements with 30 countries and regions.

The educational programme «Plant Protection» is delivered together with Auburn University (USA).

A complex system of support of students is in place (including support of academic affairs, organization of cooperation with the university administration; issues of employability and participation in leisure activities).

DISTRIBUTION DIGRAM OF THE EXTERNAL REVIEW OUTCOMES



- Standard 1. Educational objectives
- Standard 2. Graduate outcomes
- Standard 3. Curriculum
- Standard 4. Faculty
- Standard 5. Teaching and Learning Resources
- Standard 6. Quality assurance
- Standard 7. Student development

CONCLUSION OF THE EXTERNAL REVIEW PANEL

Based on the self-evaluation report analysis, documents and data submitted the External Review Panel has come to the conclusion that the Bachelor educational programme «Plant Protection» delivered by China Agricultural University **fully** complies with the joint standards and criteria of accreditation of the National Centre for Public Accreditation and the Higher Education Evaluation Centre of the Ministry of Education of the People's Republic of China.

The Panel recommends that the National Accreditation Board accredit the Bachelor educational programme «Plant Protection» delivered by China Agricultural University for the period of **six** years.

SCHEDULE OF THE SITE VISIT OF THE EXTERNAL REVIEW PANEL

Date	Time	Activity
December 4, Tuesday	19:00 -19:30	First meeting of the Panel and coordinators of programmes' review
	19:30 -20:30	Internal meeting of the Panel
December 5, Wednesday	8:30-9:30	Meeting with the university administration and people responsible for accreditation
	10:00-11:00	Excursion
	11:00-12:00	Visiting classes, holding meetings and interviews, work with documents
	12:10-13:00	Lunch
	14:00-18:00	Holding meetings and interviews
	18:30-19:30	Dinner
	19:30-20:30	Internal meeting of the Panel
December 6, Thursday	8:30-12:00	Visiting classes, holding meetings and interviews, work with documents
	12:10-13:00	Lunch
	14:00-16:30	Holding meetings and interviews
	16:30-17:30	Internal meeting of the Panel
	18:00-19:00	Dinner
	19:30-21:00	Internal meeting of the Panel
December 7, Friday	9:00-11:00	Closing meeting of the External Review Panel with the representatives of the university
	11:30-13:00	Lunch