



جامعة الإمارات العربية المتحدة
United Arab Emirates University

UAEU



COLLEGE OF FOOD AND AGRICULTURE

2013 / 2014





UAEU

Facts Sheet

50%

of students live
in residence

76%
female

24%
male students

13,540

Total number of
registered students for
2012 /2013

639
Faculty

98
Instructors

258
UFP Lecturers

173

Emirati National Faculty

56,895

Total number of graduates

9

Colleges



#1  Research University in the GCC | #2  in the Arab World | #9  in the Muslim World | #370  Globally

Established in 1976

80 hectares – Size of the campus

The National University

One of the top **50** universities founded in the past **50** years

36

Total number
of Patents
filed since
2007

8

Number of
Research Centers

869

Number of
Publications for
2012/ 2013

2

Olympic-sized
swimming pools

272

Total number
of student
activities for
2012/ 2013

38

Total number
of clubs & societies
on campus

480

Labs on
campus

Students from

55

countries
(incl. UAE)

Largest electronic resources in the Arab World

140,000 eBooks

38,000 eJournals

50 Databases

TABLE OF CONTENTS

Dean’s Message	5
Overview of the College	6
Academic Programs	7
Undergraduate Information	9
Graduate Information	15
Research Capabilities	19
Consultancy & Community Services	21
Why Choose UAEU	22
Contact Us	24

DEAN’S MESSAGE

The College of Food and Agriculture (CFA) is one of the best agricultural colleges in the Middle East in terms of research, teaching and community involvement. There are more than 600 undergraduate students enrolled in various disciplines. Three academic programs: Horticulture; Marine Fisheries and Animal Science; and Agribusiness are accredited by the Agricultural Institute of Canada (AIC), while all programs are fully recognized by the UAE Ministry of Higher Education and Scientific Research. The College of Food and Agriculture at United Arab Emirates University (UAEU) is the first agricultural college in the region to receive accreditation from AIC and the only college in the Middle East to receive the (Pass 99) ISO certified (10002:2004/ ISO14001:2004/ ISO9001:2008/ ISO2200:2005/ OHSAS18001:2007). Also, the Animal Nutrition Lab is accredited by the National Forage Testing Association.

The strategy of the college is to develop a culture for the students that will improve their skills and scientific expertise along with academic and social development, through various activities, such as study abroad summer programs, internships, workshops, and providing opportunities for students to attend conferences, both national and international.

CFA is strongly committed to student success and provides academic programs that foster critical thinking and build the necessary skills to succeed in today’s competitive job market. You will find our faculty to have graduated from some of the best universities in the world. I trust that once you discover our state-of-the-art facilities, check out our high-tech labs and teaching technologies, meet our motivated students, accomplished faculty and dedicated and supportive staff; you’ll decide that CFA at UAEU is the place you should be in to build your future career.



Prof. Ghaleb Alhadrami
Dean, College of Food and
Agriculture

OVERVIEW OF THE COLLEGE

The College of Food and Agriculture (CFA) was first inaugurated as the College of Agricultural Sciences in the academic year 1980/1981. At that time the academic structure included only two departments, namely, the Department of Plant Production and the Department of Animal Production. In 1995 the college program was further developed to focus on 'Arid Land Agriculture' and 'Food Science and Nutrition' by adding the Department of Food Science and Nutrition.

Then in 2001, United Arab Emirates University (UAEU) took a major step in transforming the College of Agriculture Sciences to reflect the vision of a 21st century University and to follow the evolving nature of higher agriculture education where agriculture became an industry and a component of the economy and society. The University designed a new curriculum to meet the needs of the UAE and to conform to the latest trends and concepts of agricultural education of the new millennium. The new interdisciplinary curriculum is based on the concept of vertically integrated systems and encompasses production agriculture, food processing, agribusiness & natural resources, and the environment.

The CFA now consists of five departments: Aridland Agriculture Department; Food Science Department; Nutrition & Health Department; Agribusiness and Consumer Sciences Department; and the Veterinary Medicine Department; each offering a wide range of undergraduate and graduate degree programs. The language of instruction is English and the faculty focus on the quality of the learning experience for each student.

The CFA continues to support the UAE, which is committed to being a knowledge-based economy in which education and research play a critical role.

“What I like most about the college is the encouragement and support provided by the faculty and instructors to the students that helps us through challenging times.”

Saeed Ali Saeed Al Asmar,
Horticulture

ACADEMIC PROGRAMS



- UNDERGRADUATE PROGRAMS:**
- Bachelor of Science in Horticulture
 - Bachelor of Science in Marine Fisheries and Animal Science
 - Bachelor of Science in Agribusiness
 - Bachelor of Science in Food Science
 - Bachelor of Science in Nutritional Science
 - Bachelor of Science in Coordinated Program in Dietetics
 - Bachelor of Veterinary Medicine

- MASTER PROGRAM:**
- Master of Science in Horticulture

- PHD PROGRAMS:**
- PhD in Horticulture
 - PhD in Food Science
 - PhD in Nutritional Science



UNDERGRADUATE INFORMATION

ADMISSION CRITERIA

To be eligible for admission to UAEU, applicants must obtain a minimum of 75% on their Grade 12 Certificate or its equivalent from a science stream. Applicants must also have a valid National Identity Certificate and a valid UAE passport. Interested candidates should use the common National Admissions and Placement Office (NAPO) application form to apply to UAEU. The form is available from secondary schools, the UAEU's Admissions Office or NAPO.

Success at UAEU requires proficiency in both Arabic and English languages. Students admitted to the University are placed either directly into the undergraduate degree program or into the University Foundation Program (UFP). UFP is the bridge between high school and the degree programs offered at UAEU. Placement in a UFP course level will depend on your scores in the UFP Placement Exams. There are three levels in English, and two levels in each of the following three subjects: mathematics, computer technology and Arabic.

To be considered for direct admission to an undergraduate degree program, applicants must satisfy the following requirements:

- ▶ proof of English-language proficiency, which may take one of the following forms:
 - an internet-based TOEFL minimum score of 500/61
 - IELTS minimum score of 5.0
- ▶ pass placement tests in Mathematics (Algebra and pre-Calculus), Computer Technology and Arabic Language

** Please note that these are the minimum admission criteria, further details can be obtained from the Admissions Department.*

GRADUATION REQUIREMENTS

The duration of the undergraduate degree programs is approximately 4 years. A minimum of 120 credit hours are required for graduation except for the Veterinary Medicine Program. The duration of the Veterinary program is approximately 5 years with a minimum of 152 credit hours required for graduation. Students must complete the programs with a minimum GPA of 2.0, including the internship.

“This program is tailored to fit the needs of the student. My course work has allowed me to be a creative and critical thinker, offering many opportunities to gain hands-on practical experience which makes the learning process even more fun.”

Mariam Al Yammahi,
Food Science

INTERNSHIPS

UAEU has integrated mandatory internships for all students as part their degree program. Through the Internship and Work Integrated Learning (iWIL) program, the students are guided, prepared and placed in National and International private and government organizations. Internships add a significant real-world component to the student's education and provide students with the opportunity to earn academic credit while gaining valuable work experience.

CAREER OPPORTUNITIES

There are many career opportunities available to students with a degree from the College of Food and Agriculture in both private and government organizations. Some of these include: Ministry of Environment and Water, Ministry of Health, Health Authority Abu Dhabi, Abu Dhabi Food Control Authority, Farmers' Service Centre, Municipalities, Environment Agency - Abu Dhabi, Management standards and food standards, laboratories, universities, and private sector institutions (farms, factories, etc.). Some job positions may include: Agriculture Engineers, Agriculture Extensions, Lab Technicians, Food Inspectors, Hospital Dietitians, Veterinarians, and Teaching Assistants.

UNDERGRADUATE ACADEMIC PROGRAMS

BACHELOR OF SCIENCE IN HORTICULTURE

Horticultural plants play an important role in the life of everyone. They provide us with fresh, healthy fruits and vegetables and make our homes, gardens and urban landscapes look beautiful. At the same time horticultural plant production uses some of the most precious resources of mankind, such as soil and water. The sustainable management of these resources for horticultural activities requires up-to-date scientific knowledge, an understanding of the biological and technical processes, and lots of creativity and ambition. The aim of this program is to provide students with high-quality information and skills in an encouraging academic environment where they can develop, discuss and test new and exciting ideas.

In the face of a growing world population and the increasing depletion of natural resources, our graduates are in high demand with their knowledge and know-how to sustainably produce food and create pleasant and healthy urban landscapes. There are two alternative specializations offered within this program: 'Crop Production & Organic Farming' and 'Environmental Horticulture'.

BACHELOR OF SCIENCE IN MARINE FISHERIES AND ANIMAL SCIENCE

The consumption of animal products such as fish, eggs, meat and milk is on the rise worldwide. Along with the intensification of marine fishery and animal husbandry comes the need to develop strategies that ensure high quality products, disease prevention, sustainability, and

animal welfare. Within this program our students will experience some of the most innovative research in animal science in the Middle East with world-class teaching facilities. Experimental stations for poultry production, camel and sheep husbandry, as well as unique aquaculture and aquaponics facilities are available to our students for training and to develop and test creative ideas in research approaches. Students will have the choice to specialize in either 'Marine Fisheries' or 'Animal Science'.

The rapidly growing animal production sector in the Middle East has a high demand for young, well qualified graduates. Most of our students within this program receive job offers even before they finish their studies.

BACHELOR OF SCIENCE IN AGRIBUSINESS

United Arab Emirates is at a strategic position to be the center of international agricultural trade for the world. In the Agribusiness major, students are given opportunities and support to reach their highest potential and to prepare them for a career and leadership challenge in a dynamic agribusiness industry. Graduates can assume positions with managerial responsibilities in public and private agricultural and food-related enterprises and organizations. Some potential employers include meat, dairy, and poultry processing industries; feed manufacturing, seed and fertilizer firms; transportation and storage; and wholesale and retail food businesses.





Students who choose to study the agribusiness specialization focus on the vertical integration of agribusiness and trade, conduct market research to identify consumer desires, and learn how to direct UAE agribusiness firms towards fulfilling consumer needs to benefit the country and its economic growth. The objective of the internship offered in this program is to provide students with experience in the marketplace by applying basic research techniques and working with clients to solve real agribusiness problems.

BACHELOR OF SCIENCE IN FOOD SCIENCE

Food Science is a multidisciplinary specialization that applies basic sciences such as biology, chemistry, and engineering to develop food products and design processes to improve the safety and quality of food. The Food Science program provides students with a solid understanding of all aspects related to food quality & safety, food chemistry & analysis, and food processing & engineering. The program also educates students on food laws & regulations, novel & functional foods, and sensory & nutritional values of food.

BACHELOR OF SCIENCE IN NUTRITIONAL SCIENCE

Nutritional Science examines the way in which the food we eat affects our physical and psychological health. The Nutritional Sciences program provides students with a solid understanding of the key role that a diet plays in the prevention, development and treatment of most major diseases. The program also emphasizes basic sciences and human nutrition for students planning to conduct further studies in the health-related professions such as medicine, dentistry, nursing, or physical therapy.

BACHELOR OF SCIENCE IN COORDINATED PROGRAM IN DIETETICS

Students registered in the Dietetics program undergo a variety of courses such as, human nutrition in various age

stages, medical nutrition therapy, food service systems management, nutrition education & communication, and community nutrition. Upon successful completion of all courses, students undertake an internship placement which enables them to apply their knowledge and gain skills that will qualify them as competent entry level dietitians.

The Dietetics program prepares graduates to work in the applied field of dietetics in positions such as clinical dietitians, nutrition services managers, nutrition educators, and community nutritionists. Graduates provide leadership in various work settings to prevent and alleviate nutrition related problems among population groups in the region. The Coordinated Program in Dietetics at UAEU is currently working towards acquiring accreditation from the Accreditation Council for Education of Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics (AND).

BACHELOR OF VETERINARY MEDICINE

As a result of the importance of safeguarding the health of humans, domesticated and food animals, and the critical shortage of national veterinarians, the United Arab Emirates University decided to offer a Bachelor of Veterinary Medicine. Besides producing bachelor degree veterinarians who will satisfy international standards, this program will produce veterinarians who are uniquely trained relevant to the needs of the local environment of the UAE and the Middle East.

The Veterinary Medicine program will produce highly motivated and adaptable veterinary graduates, with a desire for continuing education, who are well equipped to embark on a successful career in veterinary practice, the veterinary pharmaceutical industry, bio-medical industry or public service, or in some cases to study higher degrees and become the academic teachers and researchers of the future.



GRADUATE INFORMATION

MASTER PROGRAM

Master of Science in Horticulture

Graduates from the Master's degree program in Horticulture are in high demand in today's job market. The occupational positions which can be filled by graduates of this proposed program include, but are not limited to, horticulture architects and designers, city horticulturists, research assistants and university instructors, among many others. Students who choose to enroll in this program can focus their study in the following areas: horticulture, agro-ecology, biotechnology, breeding, crop physiology, crop production, mineral nutrition, modeling & quantitative horticulture, plant growth & development, post-harvest physiology, renegotiation/restoration, as well as sustainable water management.

ADMISSION CRITERIA

- ▶ A Bachelor's degree or equivalent in Horticulture/ Agriculture or a closely related field with a minimum Grade Point Average (GPA) of 2.5 on a 4.0 scale.
- ▶ Since the program is conducted in English, applicants must have an approved TOEFL score of 500 or IELTS score of 5.0.
- ▶ Three letters of recommendations and a statement of research interests.
- ▶ The application is only valid for the semester for which the student applies. If an applicant is granted admission for a certain semester and fails to register, the application may be reconsidered upon request for the following semester only.

- ▶ The final admission decision will be made after a personal interview is conducted with the applicant and upon satisfying the basic admission requirements.
- ▶ Graduates of a university located outside the UAE, may be required to obtain an equivalency of their degree from the UAE Ministry of Higher Education and Scientific Research.

** Please note that these admission requirements may be subject to change. Please refer to the UAEU website for further details.*

FEE STRUCTURE

The total tuition fee for the M.Sc. in Horticulture program is AED 57,800 which is based on the following:

- ▶ AED 1,600 per credit hour, with 36 credit hours required for graduation
- ▶ AED 200 application fee

GRADUATION REQUIREMENTS

Students may enroll on a full-time or part-time basis. Full-time students are expected to complete the program in 4 semesters (two academic years), while part-time students are expected to complete the degree requirements in 6 semesters (three academic years).

- ▶ A minimum of 36 credit hours are required for graduation (including 6 hours for the Master Thesis).
- ▶ Courses are selected with the advice and consent of the student's academic advisor and the major professor who is also the chair of the thesis committee.



PHD PROGRAMS

The College of Food and Agriculture currently offers three PhD Programs in Horticulture, Food Science and Nutritional Sciences that cover all disciplines related to food and agriculture. Students are admitted through one of the following departments: Arid Land Agriculture, Agribusiness, Food Science, or Nutrition & Health. The key objective of the program is to impart rigorous training for innovative research.

The research areas include: Horticulture, Water Use in Agriculture, Aquaculture, Natural Resources, Food Quality and Safety (Food Composition and Analysis), Food Technology and Processing, Food Innovation, Functional Foods, Nutrition and Chronic Disease Management and Prevention, Sociocultural Determinants of Food Choices and Nutritional Disparities, and Community Nutrition Interventions. The program is designed for full-time students who will complete the cycle of course work, qualifying examinations, and doctoral dissertation.

ADMISSION CRITERIA

To be eligible for admission to the PhD program, applicants are required to satisfy the following:

- ▶ Meet the following minimum GPA standards in their undergraduate or previous graduate program from an accredited university:
 - If post Bachelor's degree entry – 3.5 out of 4.0 for all undergraduate work or 3.5 out of 4.0 for the final 60 credit hours (or equivalent period).
 - If post Master's degree entry – 3.5 out of 4.0 for Master level course work.
- ▶ Have a valid minimum TOEFL/iBT score of 575/88 that is no more than three years old as of the semester of intended enrollment.
- ▶ Submit an official score on the Graduate Record Examination (GRE).

** Please note that these admission requirements may be subject to change. Please refer to the UAEU website for further details.*

FEE STRUCTURE

The total tuition rate for students accepted into the PhD program is AED 115,400, which is based on the following:

- ▶ AED 2,400 per credit hour, with 48 credit hours required for graduation
- ▶ AED 200 application fee

GRADUATION REQUIREMENTS

Students may enroll on a full-time basis only. Full-time students with a master's degree can complete the degree requirements in 4 semesters (two academic years) while students entering with a Bachelor degree can complete the degree requirements in 6–8 semesters (three to four academic years). Students should complete the cycle of course work, pass the qualifying examination and successfully defend his/her doctoral dissertation at the end of the program before graduation.

“The lectures are taught by leading experts, offering a wide range of subjects with lab practicals utilizing state-of-the-art facilities. I have thoroughly enjoyed the course so far and have been very impressed with the high level of guidance and support provided by the teaching staff. I would highly recommend this course to anyone considering a future in Nutritional Science.”

Fatima Azahra,
Nutritional Science



RESEARCH CAPABILITIES



The College of Food and Agriculture offers outstanding research facilities which include three experimental stations, a food pilot plant, and several laboratories that are used for teaching, research, training and other purposes. The laboratories contain a broad range of instruments ranging from agriculture related instruments to biomedical, biochemical, hematological, and anthropometric analysis.



The college publishes the Emirates Journal of Food and Agriculture (EJFA) that is devoted to sharing original basic and applied research articles in the field of Food and Agriculture. The EJFA is the only scientific Journal in the Middle East that publishes 12 issues per year. The College of Food and Agriculture offers full-service research capabilities and has a broad range of active research areas that include water use in agriculture, protected agriculture, product development from camel milk and date fruits, etc.

“As well as top research facilities, the department offers a friendly atmosphere with world-class faculty. CFA is like a second home.”

Mohammed Nasser,
Horticulture



CONSULTANCY & COMMUNITY SERVICES

In October 2012, the Khalifa Fund in partnership with the College of Food and Agriculture and the College of Business and Economics established an effective business incubation program for the food sector to help foster an entrepreneurial culture among local female Emiratis. The Food Innovation Program is the first of its kind in the Middle East and North Africa (MENA) region and one of the very few programs globally that is fully integrated with a University that caters for:

- ▶ farmers looking to develop value-added products;
- ▶ restaurant owners interested in producing products for retail sale (salad dressings and sauces);
- ▶ talented bakers or cooks who want to sell their products; and
- ▶ anyone looking to start a food business.

WHY CHOOSE UAEU

1 Excellence

At UAEU we focus on the quality of the learning experience for each student. UAEU's "excellence agenda" involves every aspect of the University. Here you will find the finest faculty in the nation, the most advanced technology in the region, and the most modern and attractive campus facilities to be found anywhere. Our unrelenting focus on excellence ensures that your degree is highly regarded, both nationally and internationally, and that you will leave the University fully equipped for professional and personal success.

2 International Recognition

Based upon our international reputation, the employability of our graduates, and our research productivity, UAEU continues to rank among the best of the world's 13,000 universities. QS, a London-based international ranking of the world's leading universities, rates UAEU as number one in the nation and number 370 in the world. QS also includes UAEU on its list of the top 50 world universities that have been founded within the past 50 years.

3 Employability of our Graduates

Since our programs have been designed in partnership with employers, our graduates are highly sought after by both private and government entities. Our academic programs include not just classroom theory, but also practical internships and research experiences, and our graduates consistently find that their hands-on experience provides them both with the practical skills that employers value and with the connections and relationships that are an important part of the career-building process.

4 A Supportive Learning Environment

UAEU is committed to providing the support to ensure that every student can be successful. Our support services include counseling, healthcare, IT support, disability support, career services, financial aid, international student services, alumni services, a student success center and a student council. Regardless of the obstacles that you encounter along the way, there is always a mentor, a counselor, or an advisor nearby to help. Each student is provided with an individual academic advisor to assist with the critical decisions and choices that you face along the road to academic and career success.

5 A Vibrant Living Environment

Our goal is not only to give students an excellent degree qualification but also to ensure that you have fun along the way. Our students come from more than 50 countries, so you will interact with and learn from people of diverse cultural backgrounds. The University offers a wealth of extra-curricular activities and life-enhancing experiences to enrich your university experience, and with more than 50 Clubs and Societies at UAEU, there is no shortage of opportunities to have fun outside of lectures and to make friends. UAEU's campus is a real community with multiple cafés and restaurants, retail and banking facilities, bright, modern campus residences, and exceptional athletic and recreational facilities.

6 A Magnificent New Campus

The new UAEU campus features the most modern architecture, zones for specialized research centers, cutting edge IT network infrastructure, classrooms and labs that feature the latest equipment and instructional technology to enhance student learning, an expansive library offering vast physical and electronic resources, and two world class health clubs equipped with latest fitness equipment, two Olympic sized swimming pools, as well as tennis, basketball, and badminton courts.

7 Cutting-Edge Research

The UAEU is the nation's premier research university. We not only transmit knowledge to our students, but through our Colleges and research centers we create new knowledge, developing new treatments for cancer, new technology for addressing the world's energy needs, new techniques for increasing the global food supply, and each year our historians and archaeologists discover new information about history, the accomplishments, and the culture of people from this part of the world. As a UAEU student, you will have the opportunity to work side by side with internationally known research faculty on these exciting projects.

8 Community Outreach

As the UAE's national University, UAEU recognizes the responsibility of the University and our graduates to contribute to the wellbeing of the broader community. We encourage our students and staff to give back to the community through civic engagement, public service, and research. The University helps students connect with volunteer and community service organizations in the student's particular area of interest.

9 Choice

No university in the nation provides as many academic choices as UAEU. The University offers 63 undergraduate and 67 graduate programs across a broad range of disciplines, including business, economics, education, engineering, food and agriculture, humanities, the social sciences, IT, law, medicine and health sciences, and the natural sciences. Many of our degree programs are unique to UAEU, and many of them are offered in unique combinations. Whatever your interests, talents, and goals, UAEU has a program to match.

CONTACT US

COLLEGE OF FOOD AND AGRICULTURE

2nd Floor, Building F1, Maqam Campus
United Arab Emirates University
Al Ain, United Arab Emirates
P.O. Box 15551
Tel: +971-3-7134564
Email: FFA@uaeu.ac.ae
Web: www.uaeu.ac.ae

RESEARCH AND GRADUATE STUDIES

College of Food and Agriculture
2nd Floor, Building F1, Maqam Campus
United Arab Emirates University
Al Ain, United Arab Emirates
P.O. Box 15551
Tel: +971-3-7134565
Email: salih.abdu@uaeu.ac.ae

ENROLLMENT DEANSHIP (ADMISSIONS DEPARTMENT)

United Arab Emirates University
Al Ain, United Arab Emirates
P.O. Box: 15551
Tel: +971-3-7134355
Fax: +971-3-7634989
Email: Undergradadmissions@uaeu.ac.ae,
postgradadmissions@uaeu.ac.ae

ADVISING UNIT (MALE)

College of Food and Agriculture
Tel: +971-3-7134569
Email: sara.aljunaidy@uaeu.ac.ae

ADVISING UNIT (FEMALE)

College of Food and Agriculture
Tel: +971-3-7136564
Email: njunaibi@uaeu.ac.ae

