



Annual Report 2024

Educating to nurture life.

Vision

To be leaders in the training of agents of change with values, who inspire, imagine and transform agri-food systems, making them more sustainable, resilient and inclusive.

Mission

To transform lives and positively impact society through access to a comprehensive and innovative education system that provides solutions to agri-food systems in a socially, environmentally and financially sustainable environment.

Pillars

- Academic Excellence
- Learning by doing
- Values
- Cultural Diversity (Pan-Americanism)

A message from the President

Dear Zamorano Community,

It is with great joy that I address you as President of the Pan-American Agricultural School, Zamorano. Almost two years ago I took on this important challenge, and every day I reaffirm my admiration for our institution. Zamorano not only stands out for its educational excellence, but also for its transformative capacity in the human sphere and in the agri-food systems of our region.

Our constant purpose is to develop leaders who not only master their areas of expertise but are also deeply committed to transforming the agri-food sector. Every student at Zamorano reflects our mission: to educate to nurture life.

2024: A Year of Transformation and Reconnection

This year has been one of the greatest progress for Zamorano. Based on our fundamental pillars – Academic Excellence, Learning by Doing, Values and Pan-Americanism – we took decisive steps towards our ambition for 2030, which allow us to continue consolidating ourselves as a benchmark in education in agrifood systems and sustainability, strengthening our academic quality, expanding our impact in the region and promoting innovative solutions to global challenges.

Below, I want to share with you some of the most outstanding achievements of this year, the result of the collective effort of our community:

Academic innovation and comprehensive training

In 2024, significant progress was made in our curriculum reform by improving and updating our content, adopting methodologies focused on practical learning, and strengthening essential transversal competencies to face global challenges. In addition, we introduced innovative Learning by Doing modules, which integrate technology, experiential learning, and case studies based on real-world challenges.

In the area of continuing education, significant progress was made in expanding our online offerings, as well as with the implementation of micro-certifications designed to respond to the growing demand for continuous and specialized training.

In postgraduate studies, we expanded our educational offer with new programs focused on emerging areas of the agri-food and environmental sector. Additionally,



we began the design of the Professional Doctorate program, which is mainly focused on agricultural sciences, which complements our most advanced and high-level academic offerings. In line with our digital transformation processes, we started an ambitious world-class technological project, which aims to make a qualitative and quantitative leap in terms of student academic management and information.

We also celebrate the achievements of our student community, who excelled in global competitions, professional internships in prestigious institutions and international academic experiences, reflecting their preparation and commitment to excellence and innovation.

Global leadership and strategic alliances

We strengthen our international presence through the **President Roadshows**; a strategic initiative aimed at reconnecting Zamorano with key players in the region.

This initiative strengthened ties with governments, companies and international organizations, as well as with our graduate community. In this way, we managed not only to reconnect, but also to expand our collaboration network, consolidating Zamorano as a key player in the global agri-food space. Additionally, it allowed the exchange of ideas and initiatives to face global challenges such as sustainability, food security and climate change.

In the eight countries visited, multiple high-level meetings were held, resulting in the signing of seven new memorandums of understanding and the realization of multiple high-impact projects for our institution.

Commitment to the community and the future

We consolidated spaces such as the **President's Lecture Series**, a strategic forum for convergence between academia and leaders in the agri-food industry. This event brought together leading experts and decision-makers to discuss critical issues such as water governance, strengthening our role as a bridge between academia, industry and governments.

With each edition, this space will continue to strengthen Zamorano's leadership in the regional and international agri-food field, reaffirming our commitment to the generation of transformative solutions that respond to current challenges and define the future of the sector.

In line with our commitment to society, and our vision to lead a future based on innovation and sustainability in the agri-food sector, we are launching the **Youth in Science** programme. This initiative seeks to inspire students from communities neighboring the university, and who are at the basic level, to enter the world of science, promoting the development of future generations of leaders committed to transformation and sustainable progress.

We are convinced that investing in the training of new generations is not only an act of responsibility, but an essential act to guarantee the future of the agri-food sector. This program sows the seeds of change by preparing future scientists and researchers who, with their creativity and knowledge, will drive scientific advancement and contribute to building a more sustainable, competitive, and innovative Honduras.

Productive impact

In a joint effort with the Ministry of Agriculture and Livestock (SAG) of the Government of Honduras, the Productive Technology Bonus was consolidated as a high-impact program, far exceeding production goals and directly benefiting thousands of small Honduran farmers. This program not only provided high-quality seeds to improve productivity but also strengthened climate resilience and promoted food security in rural communities, contributing to the sustainable development of the agri-food sector.

Our vision for 2030

2024 reaffirmed our commitment to excellence and global impact, marking another step on our path to an ambitious vision for 2030. Our purpose is clear: to consolidate ourselves as a world leader in tropical agriculture, leading with innovation and sustainability in all areas of our work.

This aspiration includes transformative goals such as consolidating our position among the best agri-food universities in Latin America and expanding into potential new areas of knowledge such as biotechnology, veterinary sciences, animal nutrition, among other possibilities. These initiatives open new opportunities to attract international talent, strengthen our global networks, and make a significant impact on agrifood systems.

At the heart of our identity is sustainability, a fundamental axis that guides our actions. We face challenges such as food security, climate change and resource management with boldness and innovation, positioning ourselves as ethical leaders on the global stage. This commitment not only optimizes our operations and strengthens our resources but also reinforces our alignment with the social and environmental values that today's world demands.

United for a transformative future

Today, more than ever, we reaffirm our ambition to transcend borders, mobilize knowledge and empower the next generations. Our goal is not only to educate, but also to inspire and transform, building a legacy that has a lasting impact on our communities and the world.

I am honored to lead this institution and witness the commitment and dedication of each member of our community, students, teachers, collaborators and graduates. Together, we continue to build a strong, resilient and transformative Zamorano, positively impacting the living conditions of the inhabitants of Honduras and the regional agri-food sector.

A big greeting to the entire university community that day by day demonstrates great commitment to this noble task.

Affectionately,

Sergio Rodríguez Royo
Rector | President

A Message from the Board of Trustees

Dear Zamorano Community,

2024 has been a year of reconnection, growth, and transformation. Zamorano reaffirms his commitment to excellence, adjusting strategies to face global challenges and train leaders visionaries in a dynamic world.

Thanks to initiatives such as curriculum reform, academic expansion and the strengthening of alliances We have provided our students with the tools to face the challenges of the XXI century. In addition, innovation and sustainability remains fundamental pillars of our mission, promoting solutions that positively impact communities and the planet.

The leadership of President Sergio Rodríguez Royo and his team has been crucial in this process, tracing a Strategic Plan towards 2030 that will position Zamorano as a global benchmark in agriculture tropical and sustainability. From the Board of Trustees, we support this vision and ensure that the institution evolves to face future challenges with determination.

We are deeply grateful to our community—students, faculty, researchers, collaborators and strategic allies—whose efforts have been key to each achievement achieved.

This year, the Board of Trustees has undergone significant transformations that reflect our commitment to institutional strengthening. We warmly welcomed James Nealon and Marvin Moncada as new members, while Juan Medrano successfully concluded his term of office, leaving a significant legacy. We also recognized Carlos Mesa, Alice Pell, and Frank Almaguer as Trustees Emeritus, in appreciation for their invaluable contribution and years of dedicated service. With deep respect, we remember two dear colleagues emeritus, Richard Kimberly and Duncan Cameron, who sadly passed away this year. His legacy and contributions will live on in our community and in the history of Zamorano.

These changes reflect our capacity for renewal and consolidation. We continue to strengthen our governance, reaffirming our commitment to a promising future for Zamorano and its educational mission. With this solid foundation, we look to the future renewed in our mission to develop leaders capable of transforming the world. Inspired by our vision of transformative education, we remain committed to graduating



professionals prepared to face global challenges and contribute to a sustainable future.

I invite you to continue to be an active part of this vibrant and engaged community. Together, let's build a legacy where innovation, sustainability and social impact are pillars of our development.

Cordially,

Erik Peterson
President | Board of Trustees

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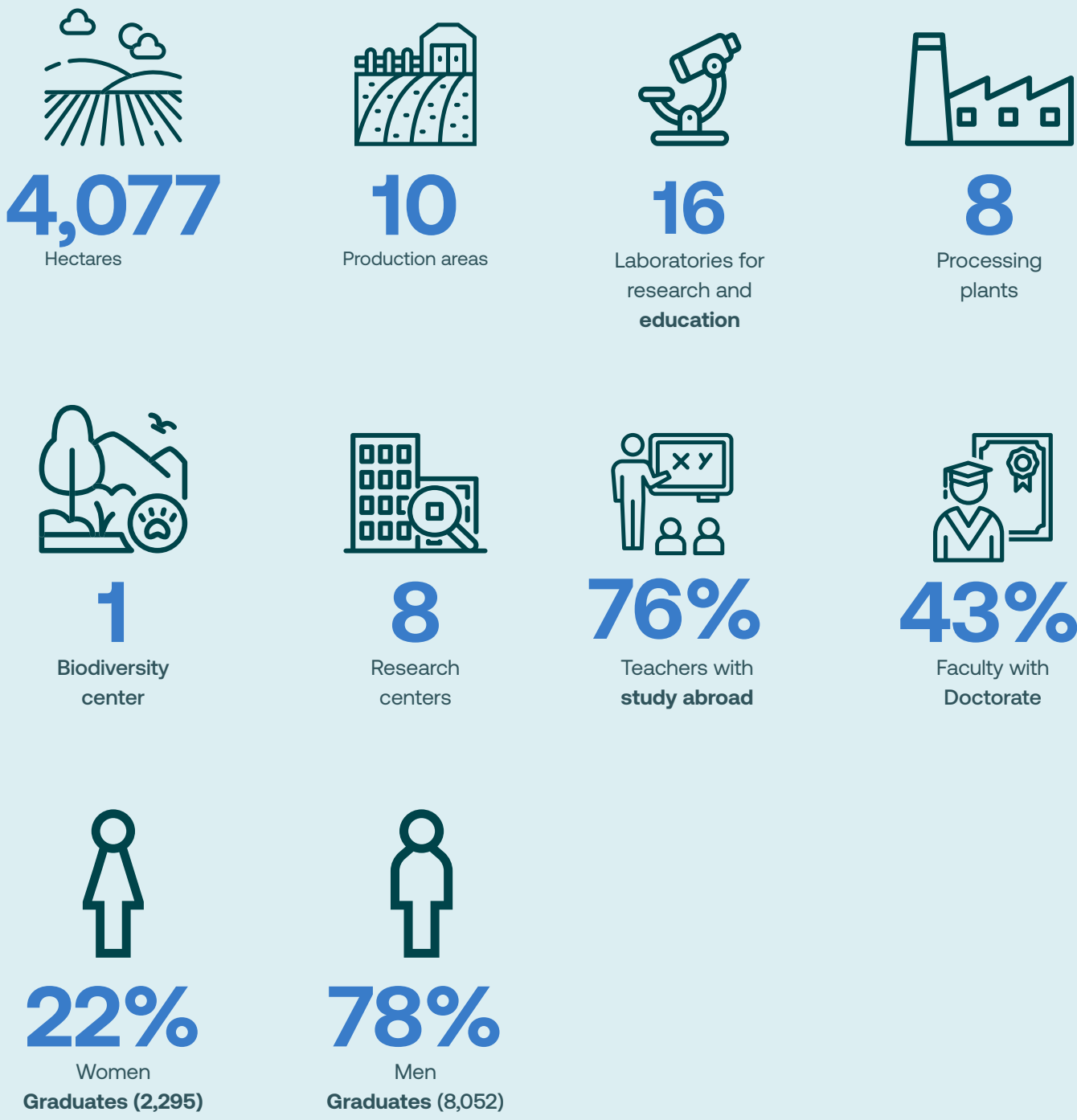
Introduction

The 2024 Annual Report presents an exhaustive analysis of the achievements, activities and results achieved during the year by the different areas of the Pan-American Agricultural School, Zamorano.

This document highlights the institutional commitment to academic excellence, innovation, sustainability, and the integral development of our students and the community in general.



Zamorano in numbers



*Data as of January 31, 2025.

Graduation 2024

Undergraduate – Class "Titanium" 2024

In December 2024, a total of **237 people** graduated from the engineering careers of the Pan-American Agricultural School, from eighteen (18) countries:



- Belize: 2
- Bolivia (Plurinational State of): 2
- Canada: 1
- Colombia: 6
- Costa Rica: 2
- Ecuador: 46
- El Salvador: 22
- United States of America: 2
- Guatemala: 30
- Haiti: 3
- Honduras: 96
- Italy: 1
- Mexico: 2
- Nicaragua: 7
- Panama: 10
- Paraguay: 1
- Peru: 3
- Dominican Republic: 1

The distribution of graduates by academic program for the Class of 2024 was as follows:



Thesis with Honorable Mention Class "Titanium" 2024



María Zapata López
Career: Administration of Agribusiness
Name project: Financial feasibility assessment for the implementation of a Hass avocado packing plant: case study in Golden Hass Colombia.



Esdras Argote Figueroa
Career: Food Agribusiness
Name project: Influence of a sugar reduction strategy on the baking properties of cookies.



Alberto Domínguez Meléndez
Career: Environment and Development
Name project: Analysis of greenhouse gas emissions from the implementation of agroforestry systems in coffee production.



Sebastián Salvatierra Saavedra
Career: Ingeniería Agronómica - área de Zootecnia
Name project: Assessing the Effect of Postbiotic Supplementation on Microbial Protein Synthesis and Milk Production in Transition Holstein Dairy Cows.



Jonathan Burga Potosí
Career: Agronomic Engineering: Plant Science Area
Name project: Diversity and importance of bees (*Hymenoptera: Apoidea: Anthophila*) in Zamorano, Honduras.

Graduates in 2024 with academic excellence by career:



María Clara Zapata López
Country: Colombia
Career: Agribusiness Administration
Average: **92.24**



Michelle Betancourt Cárdenas
Country: Honduras
Career: Food Agribusiness
Average: **93.91**



Kimberly Aragón Miguel
Country: Guatemala
Career: Environment and Development
Average: **94.24**



Víctor Emiliano Posadas Rivera
Country: Guatemala
Career: Agronomic Engineering
Average: **95.90**

Academic excellence of all careers:



Graduated with the best average of the Titanium Class of 2024: Victor Emiliano Posadas Rivera, from Guatemala.

Average
95.90%

Gender Distribution



Female:
114 people **(48.1%)**



Male:
123 people **(51.9%)**

Graduate

Graduation of the 5th cohort of the master's degree in Sustainable Tropical Agriculture

In September 2024, a total of 15 people (6 women (40%) and 9 men (60%)) made up the fifth promotion of the master's degree in Sustainable Tropical Agriculture, MATS. This ceremony was attended by representatives of the Nippon Foundation and the International Center for Tropical Agriculture (CIAT). The countries of origin of the graduates were:

- Colombia: 4
- Nicaragua: 1
- Ecuador: 2
- Honduras: 3
- Belize: 1
- Costa Rica: 1
- Guatemala: 1
- Peru: 2



Female:
6 people (40%)



Male:
9 people (60%)

Graduation of the 3rd. cohort of the master's degree in Agribusiness (Zamorano - EAFIT)

Graduation ceremonies were held on October 7 and November 27, 2024, in Zamorano, Honduras, and EAFIT, Colombia, respectively, for the master's degree students of the cohort of the master's degree in agribusiness. In these ceremonies, 16 professionals (5 women (31%) and 11 men (69%)) from four countries were awarded their degrees:

- Honduras: 5
- Nicaragua: 2
- Colombia: 7
- Ecuador: 2



Female:
5 people (31%)



Male:
11 people (69%)



Strategic alliances

In 2024, Zamorano signed 22 new framework cooperation agreements (MOU) with the following institutions:

- Sanitary Regulation Agency of the Republic of Honduras (ARSA)
- Food Bank Association of Honduras
- Catholic Relief Services
- International Potato Center (CIP) Ecuador
- INFOTEP
- ASER INTERNATIONAL Society
- Catholic University of Chile
- University of Cuenca
- University of Florida
- NETA FIM
- Ministry of Education of the Republic of Honduras
- Ministry of Agriculture and Livestock of the Republic of Ecuador
- Maseno University
- Feed the Children
- IFPRI
- Fabretto Children's Foundation
- Fertilizers of the North (DISAGRO)
- New Seed in Guatemala
- Honduran Association of Agro-Industrialists "ASHDA"
- Ingemann Data A/S
- Improvement Company
- Pro Produção Profissional Ltda (Brazil)

Similarly, during 2024, the operation of 44 new linkage projects began, implemented in 5 countries (Honduras: 32, Guatemala: 5, El Salvador: 3, Bolivia: 1, others: 3). These projects are:

- **Pennsylvania State University**, Feed the Future Innovation Lab for Current and Emerging Threats.
- **AECID**, Researching Food Systems (ISA).
- **IICA**, Evaluation of soaking after mechanical demucilage in the physicochemical and sensory characteristics of coffee.
- **IICA**, Evaluation of the type of coverage on the moisture retention capacity of coffee soils.
- **IICA**, Profile of the Local Coffee Consumer: A Sustainability Perspective.
- **USAID/ASHA RFA FY20**, Strengthening the Zamorano University Food Science and Technology Learning by Doing Program.
- **Kolping work**, Establishment of banana, bean and chicken production of dual purpose to improve the nutritional food security of producing families.
- **European Union**, Integrated Management of the Biosphere of the Plátano River.
- **ACDIVOCA**, Strengthening and Updating of the

Technical-Scientific Capacities of the Zamorano Soil Laboratory.

- **UC Davis**, Feed the Future Innovation Lab for Horticulture (Fellowship Program)
- **Price Philanthropies**, Agricultural Enterprise Training for Honduran Youth.
- **National Diaconate of Honduras**, Technical assistance for the production of vegetables and seedlings under a protected greenhouse type structure to Empresa Hortícola el Coyolar Tilapa Sociedad de Responsabilidad Limitada, Department of Olancho.
- **FIPAH**, Humanitarian Assistance for Food Security in Honduras.
- **Michigan State University**, Release and dissemination of promising common bean cultivars to improve security in Honduras and Guatemala.
- **CATIE**, Transformation of farms into low-carbon production systems.
- **USAID/ASHA RFA FY19**, Zamorano Greenhouse Horticulture Program for Latin America.
- **Food Bank Association of Honduras**, Strengthening of food production and generation of a productive enterprise in the Support Center: Church in Transformation program "Buen Provecho".
- **DAI (USAID)**, Climate Adaptation.
- **AMUPROLAGO (USAID)**, Generating Sustainable Economic Opportunities in the Lake Yojoa Basin.
- **ACDI VOCA**, Transforming Market System Activity.
- **Standard Fruit de Honduras, S.A.**, Implementation of a participatory model of water management for sustainable development.
- **TRANSGENSA**, CBC Carbon Credits Honduras.
- **British Embassy in Guatemala**, Organization of workshops in Guatemala on the management of late blight in potatoes.
- **SSG Advisor, LLC (USAID)**, Women's Network for the Agri-Food Sector (RMA).
- **Smithsonian Institution**, Stakeholder Representation effect on Mangrove Loss in the Mesoamerican Reef Ecoregion.
- **Pennsylvania State University**, Research on gender violence in western Honduras to design and implement climate adaptation initiatives that effectively address the needs of rural women.
- **BID**, Strengthening of administrative and soft skills for the operation of businesses in the various sectors of agriculture.
- **Walmart**, Training in Bioinputs for Sustainable Agriculture.
- **World Renew**, Preparation of technical material for agricultural promoters.
- **MINED**, Strengthening School Feeding in Integral Development Centers.
- **BROTEK S.A. de C.V.**, Biological evaluation of two

- biostimulant/biocatalyst molecules I-369® and I-358®.
- [ACDI/VOCA](#), Effective formulation of bioinputs based on atmospheric nitrogen-fixing bacteria, soil phosphorus solubilizers and entomopathogens, free of a cold chain.
 - [Evonik](#), Evaluation of methionine sources (DL-methionine and MHA-FA) on the productive performance, performance and feathering quality in broilers.
 - [World Renew](#), Preparation of technical material for agricultural promoters served by World Renew.
 - [MINED](#), Strengthening the capacities of the educational community in food and nutrition education, food handling, administrative processes and promotion of healthy lifestyles.
 - [University of California Davis](#), Establishment of the regional center and director of the regional center of the Horticultural Innovation Laboratory-USAID-UC Davis for Central America.
 - [FAPVS/ICF](#), Support for the Biannual Operational Plan of the Uyuca Biological Reserve Protected Area.
 - [ICF](#), Restoration of forest area affected by the weevil plague in Uyuca.
 - [Central America Poultry Export Quota, Inc.](#), Modernization of poultry facilities and strengthening of the scholarship program.
 - [Colorado State University](#), Rapid: Impact of Hurricanes ETA and IOTA on Lake Yojoa.

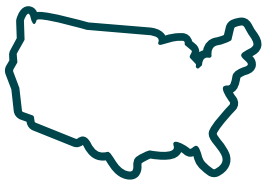


Positioning Zamorano on the global agenda

In 2024, the Pan-American Agricultural School was present at:



four (4) high-level global events



(2) in the United States of America



(2) in Mexico) where Zamorano was the only university in Central America invited

In addition, eight (8) international tours were carried out (Mexico, the United States of America, Chile, Guatemala, Ecuador, El Salvador, Nicaragua and Panama), where the following were carried out:

- 96 high-level meetings
- 275 potential opportunities were identified for Zamorano, including:
 - Future linkage projects,
 - Continuing Education Course Opportunities (ZEEDs),
 - 29 joint research initiatives.
 - 36 internships.
 - 30 scholarship possibilities.

The concrete results of the international tours were:

- First 2 scholarships confirmed for Zamorano's new PhD program, for just over \$100K.
- Development of the AgroHub: In collaboration with the IDB-Lab, agri-food innovation was promoted through a project of more than USD \$1.5M that promotes entrepreneurship in the sector.



Curricular reform

Driven by our ambition to 2030:

Life Sciences: Expand our academic offer new areas of knowledge, and Sustainability: as our institutional identity; During 2024 we have taken significant steps in expanding our academic offerings.

The undergraduate academic programs are in the process of curricular reform and will be based on a competency-based approach that promotes student-centered learning, adapting the educational offer to their needs and interests. These programs incorporate current trends in higher education, with a strong emphasis on multimodality and flexibility. In addition, work is being done to strengthen transversal skills, such as soft skills, entrepreneurship, innovation and sustainability. The Learning by Doing program was strengthened by renewing the offer of modules seeking to promote comprehensive training, where each student can acquire knowledge

and skills directly applicable in the workplace and social environment.

In operational terms, these programs will be characterized by smaller classes that allow for more personalized attention, flexible programming to adapt to the different needs of the student body, and the possibility of repeating mathematics courses throughout the year. This will help reduce the dropout rate and allow students to choose from a wider variety of electives and career-based orientations.

This flexible and adaptable educational model facilitates more dynamic learning, in which students have more control over their academic career, improving both their performance and their satisfaction with the educational process.



Learn by Doing

The renewed "Learning by Doing" program is always structured in three general years and one specialized year, with a focus on homologation to facilitate academic programming. The distribution of value chains is optimized and space is freed up for the life skills program, student recreational activities, and early weekend options. In addition, space is created for training and other activities aimed at instructors, maintaining the participation of the different departments of the institution.



Excellence in research

Zamorano is distinguished as an institution that leads research of excellence in Latin America. These initiatives generate a positive impact by addressing key issues in sustainability, food security, climate governance, and agricultural development. Below, we present a series of recent publications that highlight the commitment of the Agricultural School to the generation of knowledge and innovative solutions:

#	Title	Authors	Source/Magazine	
1	Women smallholder farmers growing horticultural crops	Academic team of the Graduate Program.	Women and smallholder farming (Libro)	2024
2	Master's Degree in Sustainable Tropical Agriculture, transforming agriculture in Latin America	-	Institutional publication	2024
3	Impact of Nutritional Education Intervention on Food Choice Motivations and Eating Behaviors Among Latin American Students	Jean Pierre Enríquez, Adriana Hernandez Santana, Dulce Yanira Del-Cid.	Journal of Hunger & Environmental Nutrition	2024
4	Challenges for the transition to food system sustainability in Honduras	Lourdes Gaucho, Mayra Atehortua, Emma Navarro Roque, Adriana Hernández, Luis Ricaurte, Gesler Antúnez Méndez, Francisco Villamar, Jaqueline Chuquillanqui, Denis Huamani, Arazay Avain Albelo, Wesly Curruchich, Francely Concepción Flores, Elías Hernández Lozano, Fritzner Pierre, Jessika Becerra, Abril Santiago Benavides Bernal, William Igeler.	Ceiba Magazine	2024
5	Response of Native and Improved Maize Varieties to Fertilization and Inoculation with <i>Mycorrhizae-Arbuscular Fungi</i>	Fritzner Pierre, Francisco José Arévalo Castro, Iveth Yassmin Rodriguez, Raphael Wesly Colbert, Juan Carlos Rosas.	Ceiba Magazine	2024
6	Towards a food agribusiness that nurtures and contributes to sustainability	Adriana Hernández, Brandon Gutierrez-Soto, Emma Navarro Roque, Angie Barrios	Ceiba Magazine	2024
7	Water Governance and Climate Action: An Experimental Perspective from the Honduran Dry Corridor	Santiago Loaiza Briceño, Arie Sanders, Jorge Cárcamo	Ceiba Magazine	2024
8	Dietary Intake and Physical Activity of Schoolchildren in Rural Honduras	Adriana Hernández, Yazimiel Bustillo, Luis David Jarquín	Ceiba Magazine	2024
9	Systematization of the implementation of Farmers' Field Schools (FFS) in Intibucá, Honduras	Emil Vasquez, Wilmer Perez, Arie Sanders	Ceiba Magazine	2024
10	Adaptability and Yield Performance of Introduced Tomato Lines under Greenhouse and Open Field Conditions in Honduras	Francely Flores, Hugo O. Ramirez-Guerrero, Lourena Maxwell, Assaf Eybishitz, Derek W. Barchenger, M. Carolina Avellaneda.	HortScience	2024

11	Characterization of agrobiodiversity and the management of family gardens in San Andrés, Lempira	Emil Floricia Vasquez Reyes, Rina Fabiola Díaz Maradiaga, Francis Denisse McLean Rodriguez	Ceiba Magazine	2024
12	Evaluation and estimation of calibration curves of devices to measure soil moisture.	González de León, A. D., Sandoval Mejía, L. A., Arévalo-Valderrama, G. E., Gómez, O. M., & Caro, B. S.	Mesoamerican Agronomy.	2024
13	Perception of the glass ceiling and job satisfaction among women in the agricultural industry of Latin America.	Lopez-Escobar, M., Morales, S., Sandoval, L., & Soto, R.	Journal of International Agricultural and Extension Education.	2024
14	Visual attention to sustainability messages and self-reported willingness to pay for sustainable takeout and delivery packaging in Honduras.	Sandoval, L.A. López, M.J., Mejía, W.A., Morales, S., Mamani, B.A.	Conference Paper.	2024
15	Adaptability and Yield Performance of Introduced Tomato Lines Under Greenhouse and Open Field Conditions in Honduras.	Flores, F., Ramirez-Guerrero, H. O., Maxwell, L., Eybishitz, A., Berchenger, D.W., and Avellaneda Barbosa M.C.	HortScience.	2024
16	Comparing tar spot epidemics in high-risk areas in the United States and Honduras,	Carlos C. Gongora-Canul, Carlos Puerto, Fidel E Jiménez-Beitia, Darcy E. P. Telenko, Nathan Kleczewski, Juan Carlos Rosas, Carolina Avellaneda, Arie Sanders, Iveth Y. Rodriguez, Stephen B. Goodwin, Lenin E. Henriquez-Dole, Mariela Fernandez-Campos, Da-Young Lee, Andres P. Cruz & C. D. Cruz.	Canadian Journal of Plant Pathology.	2024
17	Synopsis of the Mesembrinellidae (Diptera: Oestroidea) from Honduras.	Orozco Jesus, PhD.	SciELO Brazil.	2024
18	First Record of the Beekeeping Pest <i>Aethina tumida</i> Murray (Coleoptera: Nitidulidae) for Honduras.	Orozco Jesus, PhD.	University of Nebraska Lincoln.	2024
19	Thrips (Insecta: Thysanoptera) associated with onions, lettuce, sweet peppers and associated weeds in El Zamorano, Honduras.	Gómez-Santos, A, Orozco J, Valdespino R.	CTA Magazine	2024
20	Supplementation of noni (<i>Morinda citrifolia</i>) in the production of red tilapia (<i>Oreochromis</i> sp.).	Donis-Salazar R., Paz P.	Ceiba Magazine	
21	Nutrient loading from a sustainably certified aquaculture operation dwarf's annual nutrient inputs from a large multi-use watershed, Lake Yojoa, Honduras.	Jemma M. Fadum (Colorado State University) (corr-auth), Matthew R. Ross (Colorado State University), Erika A. Tenorio (Universidad Zamorano), Casey A. Barby (Colorado State University), Ed Hall (Colorado State University).	Earth's Future	2024
22	Exploring rural school students' perceptions, willingness, motivations, and concerns regarding greywater treatment and reuse in southern Peru.	Bautista Quispe, J. I., L. C. Campos, B. Trejos, A. Bogush.	Sustainable Environment	2024

23	Climate Change: Relationship between Knowledge and Perception in Students of an Agricultural-Based University in Ecuador.	Cornejo, G.A., P. Lamiño, B. Trejos	Sustainability	2024
24	Urban floral visitors and their importance for Ciudad Universitaria-UNAH, Tegucigalpa, Honduras.	Lilian Ferrufino-Acosta, Luis Benito Martínez, Lizbeth Fabiola Bautista and Rina Fabiola Díaz.	Journal of the National Botanical Garden – Ecology and Conservation.	2024
25	A Taxonomic Odyssey: An annotated checklist of Peromyscus (Cricetidae, Rodentia) in Honduras.	Celeste M. López, Manfredo A. Turcios-Casco, Eric van den Berghe, Nicté Ordóñez-Garza, Martin R. Álvarez.	ZooKeys	2024
26	List of Birds of Honduras	Dubón, F., L. Herrera, R. Juárez, O. Komar, M. Mejía, F. Rodríguez Vásquez & J. van Dort.	Birds Honduras	2024
27	Bee richness and abundance at seven sites in San Antonio de Oriente, Honduras	van den Berghe, E., Caprotti, G. & Tercero Iglesias, J. F.	Nicaraguan Journal of Entomology	2024
28	Confirmation and potential distribution of the Western Black Widow (Latrodectus aff. occidentalis Valdez Mondragón, 2023) and the North American Black Widow (Latrodectus aff. mactans Fabricius, 1775) (Araneae, Theridiidae) for Nicaragua.	Salazar-Saavedra, M., Villagra, I., Álvares, V., Cash, N., & van den Berghe, E.	Nicaraguan Journal of Biodiversity	2024

Expansion of our academic offer

An exhaustive market study in Central America revealed a growing demand for university technical professionals in key sectors such as agribusiness, sustainability, agro-export and agricultural production. Likewise, the need for specific skills such as communication, teamwork and technical expertise was identified.

In response to these demands, we have initiated the development of new formal and non-formal programs. At the graduate and continuing education (ZEED) level, we explore areas such as agricultural and environmental sciences, agri-food systems, veterinary sciences, and biology.

To strengthen this offer with a vision towards 2027, the Graduate Program has worked in 2024 to formulate, prepare, and deliver the following curricula:

- Master's Degree in Project Management (Zamorano – EAFIT)
- Master's Degree in Precision Agriculture (Zamorano-EAFIT)
- Master of Science in Human Nutrition and Community Development
- Master's Degree in Rural Development and Social Innovation (Zamorano-TTU)
- Master's Degree in Animal Production
- Master's Degree in Sustainable Tropical Agriculture (reform)
- PhD in Sustainable Agriculture and Agri-Food Systems

These initiatives not only strengthen our current academic offerings but also ensure Zamorano's sustainability by responding to the changing needs of the labor market and contributing to the development of the agricultural sector in the region.

Continuing Education ZEED

Our Zamorano Everlasting Education (ZEED) program experienced remarkable growth during 2024, cementing its position as a leader in continuing education, with achievements including:



Creation of 55 new courses, reaching a growth of **150%** compared to 2023.



Training of more than **1,400** people of 9 nationalities, representing an increase of **118%** over the previous year.



Integration of eClass with more than **60** Micro-certifications, strengthening the commercial strategy.



Generation of revenues of more than USD \$250K, representing an increase of **83%** compared to 2023.



International expansion by joining **RECLA**, a continuing education network in Latin America and Europe.



Student Wellbeing and university life

Student wellbeing continued to be a priority in 2024, with notable progress in key areas such as:

Reform of the Student Regulations: Processes were simplified, and measures were implemented to promote positive leadership and healthy coexistence.

Increase in psychological services: There was a 17% increase in psychological care, benefiting 37% of the student population.

Extracurricular activities: More than 517 activities organized promoted integration, sports and personal development.



Strategy and innovation

In 2024, the Directorate of Strategy and Innovation made significant progress that strengthened Zamorano's positioning as a key player in the national innovation ecosystem. Key accomplishments include:

- **Progress in the WSCUC Institutional Accreditation Process:** Phase 2 of the accreditation process was completed, culminating in the submission of the Eligibility Report. The review meeting was scheduled for January 2025.
- **Clarification of institutional processes:** Assessment mechanisms were reviewed and optimized, establishing priorities to strengthen evaluation and continuous monitoring.
- **Adoption of innovative tools:** The implementation of a tool for project evaluation allowed the efficient management of 9 projects and 24 initiatives under development.



Events & institutional visits

Zamorano organized and participated in multiple strategic events in 2024, strengthening its institutional impact. Among them are:



Inauguration of the Sustainable Consumption Laboratory and Neuromarketing Module: An initiative aimed at closing the gap between supply and demand for sustainable products.



Soil Nutrition Symposia focused on training leaders in the agri-food sector.



President's Lecture: key event chaired by the Rector, which brought together experts, academics and leaders of the agri-food sector to discuss relevant issues at the local and global level. This instance is the intersection between the university – and academia – with decision-makers and influencers from the agri-food sector. It is a catalyst for innovation, education and transformation, positioning Zamorano as a leader in the advancement towards local, regional and global agri-food solutions.



Youth in the Sciences: an initiative that aims, within the framework of University Social Responsibility, to train professionals in the sciences and research of the future in Honduras, which is crucial to promote knowledge in the country, ensuring innovation and sustainable progress that will allow to better address future challenges in the country's agri-food sector.

- We hold twenty (20) institutional events
- We received 43 official visits: attending a total of 653 people.

Fundraising campaigns

Fundraising campaigns were a key pillar in 2024 to ensure inclusive access to education. Among the outstanding results are:



Zamotón 2024: online event that, for 24 hours, raised an estimated more than \$80K with the participation of 321 donors, representing 76% of the established goal.



1 Day for the Scholarship Fund: Zamorano employees contributed just over \$10K, showing a strong commitment to education.



Cultivate Your Future: This Zamorano program promotes academic excellence and equitable access, supporting outstanding students with economic limitations by partially covering their tuition. Since 2016, it has benefited six students from Guatemala, Honduras, Colombia, and Peru, transforming their lives. In addition, it fosters a culture of early donation among young graduates, integrating social impact into their professional development.



Class Scholarships: Class scholarships are a powerful example of the solidarity legacy that characterizes the Zamoran community. Through this program, our graduates repay the help they received, committing to make periodic donations according to their possibilities. This collective effort has made it possible to finance scholarships for three young talents to date.

These initiatives not only strengthen Zamorano's mission but also reflect the power of collaboration and the lasting impact our donation campaigns make on the lives of talented young people across the region.

Zamorano community

Committed to the well-being and integration of our work community, the Human Resources Department developed twenty-two (22) events during 2024, of which six (6) were dedicated to institutional celebrations and sixteen (16) focused their efforts on promoting well-being and personal growth. These initiatives reached an outstanding participation of 2,393 people, surpassing the attendance recorded in similar events the previous year. A significant achievement was that 60% of our staff were directly benefited by wellness-oriented events, a testament to the positive impact these actions have had on our work community.

The detailed results demonstrate our strategic approach for the 2030 Plan in creating a healthy, inclusive and motivating work environment.

Institutional activities that prioritized our staff:

Fecha	Nombre evento	N° asistentes
Jan, 2024	Honduran Women's Day	269
Mar, 2024	Honduran Father's Day "Hawaiian Theme"	303
May, 2024	Honduran Mother's Day "Lunch in Paris"	240
Sep, 2024	Children's Day "The Film Festival"	300 children
Oct – Nov, 2024	Football tournament 'Copa Héctor Flores'	120
Dec, 2024	Christmas celebration (recognition of employees for loyalty/years in college)	800 103

Wellness Programs:

N°	Name of the workshops or courses	Number of attendees
1	Women's empowerment.	13
2	Mindfulness-based Meditation and Yoga.	21
3	Personal care and image consulting.	46
4	Professional makeup.	32
5	Strategies to enhance personal image.	22
6	Understanding and managing stress.	24
7	Basic Bonsai workshop.	21
8	Art therapy.	17
9	Breast cancer prevention.	11
10	Demonstrations on Healthy Recipes.	12
11	Metabolic Disease Awareness.	16
12	Tropical rhythms for fun exercise.	5
13	Management of irrational ideas - Telephone of Hope.	19
14	Prevention of common diseases in men.	2
15	Laughter therapy.	4
16	Mindfulness Program.	396

Financial results 2024



Educar para sustentar la vida.

Estado de Situación Financiera Al 31 de Diciembre de 2024 (Expresado en Lempiras)

	2024
ACTIVOS	
Activos circulantes:	
Efectivo y equivalentes de efectivo	LPS 229,560,368
Inversión a corto plazo	146,411,600
Cuentas por cobrar a corto plazo	79,260,305
Préstamos estudiantiles a corto plazo por cobrar, neto	4,160,778
Contribuciones por recibir	-
Inventarios, neto	98,708,362
Gastos prepagos a corto plazo	22,676,916
Total de activos corrientes	580,768,329
Activos no corrientes:	
Cuentas por cobrar a largo plazo	-
Préstamos estudiantiles a largo plazo por cobrar, neto	-
Documentos por cobrar a largo plazo	-
Activos restringidos (efectivo) para uso futuro	-
Cartera de inversiones	3,096,890,277
Propiedades y equipo, neto	438,961,849
Activos agrícolas	21,600,245
Gastos prepagos a largo plazo	-
Total del activo no corriente	3,557,452,372
Total de activos	4,138,220,701
PASIVOS Y ACTIVOS NETOS	
Pasivo circulante:	
Cuentas por pagar	180,298,386
Retenciones	19,323,577
Obligaciones acumuladas	94,134,235
Anticipos reembolsables	40,127,976
Ingresos diferidos a corto plazo	34,615,492
Total pasivos corrientes	368,499,666
Pasivos no corrientes:	
Provisión para indemnización por despido	159,481,167
Pasivos totales no corrientes	159,481,167
Responsabilidad total	527,980,832
Activos netos	
Sin restricción de donantes	2,638,516,387
Con restricción de donantes	-
Perpetuo	1,071,723,481
Tiempo y propósito	-
Activos netos totales	3,610,239,869
PASIVO TOTAL Y ACTIVOS NETOS	LPS 4,138,220,701




Representante Legal/
V.P. Operaciones y Finanzas



Honduras
Valle de Yeguaré km 30
Carretera de Tegucigalpa a Danlí
Francisco Morazán, Honduras, C.A.

United States
1701 Pennsylvania Ave. NW
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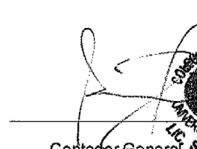
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Educar para sustentar la vida.

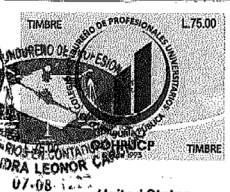
Estado de Actividades

Para el año que finalizó el 31 de diciembre de 2024 (Expresado en Lempiras)

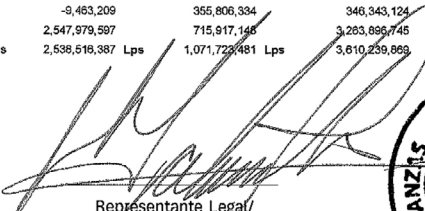
	Sin restricción de donantes	Con restricción de donantes	Total 2024
Actividades de operación:			
Ingresos por matrícula de estudiantes	Lps 607,437,504	Lps 0	Lps 607,437,504
Menos: Ayuda financiera y subsidio	-140,882,605	0	-140,882,605
Matrícula neta para estudiantes	466,554,899	0	466,554,899
Subvenciones y contratos privados	15,273,118	0	15,273,118
Rentabilidad de la dotación designada para la inversión			
Operaciones Actuales	119,577,967	0	119,577,967
Otros ingresos por inversiones	20,645,634	0	20,645,634
Venta de materiales y servicios educativos.	376,404,722	0	376,404,722
Empresas auxiliares	55,452,966	0	55,452,966
Otros ingresos	12,130,957	0	12,130,957
Subtotal antes de activos netos liberados de restricciones	1,066,040,262	0	1,066,040,262
Activos netos liberados de restricciones	172,385,080	0	172,385,080
Ingresos totales de operación	1,238,425,342	0	1,238,425,342
Gastos operativos:			
Educación y Generales			
Instrucción	181,254,552	0	181,254,552
Investigación	16,282,455	0	16,282,455
Servicio público	172,385,080	0	172,385,080
Soporte académico	359,830,094	0	359,830,094
Servicios estudiantiles	169,031,624	0	169,031,624
Apoyo institucional	195,269,180	0	195,269,180
Operación y mantenimiento	118,627,456	0	118,627,456
Total de gastos educativos y generales	1,212,680,391	0	1,212,680,391
Empresas auxiliares	47,542,640	0	47,542,640
Gastos totales de operación	1,260,223,030	0	1,260,223,030
Cambio en los activos netos de las operaciones	-21,797,688	0	-21,797,688
Actividades no operativas:			
Ganancia			
Subvenciones y contratos del gobierno federal	0	38,333,776	38,333,776
Subvenciones y contratos privados	0	46,059,825	46,059,825
Regalos y contribuciones	0	17,331,626	17,331,626
Otros ingresos	0	120,133,167	120,133,167
Ingresos totales no operativos	0	220,858,394	220,858,394
Activos netos liberados de restricciones	0	-172,385,080	-172,385,080
Total de actividades no operativas	0	48,473,314	48,473,314
Otros cambios no operativos en los activos netos:			
Activos netos liberados para mejora de planta	0	0	0
Donaciones de capital e instalaciones	3,241,278	0	3,241,278
Rendimiento de la inversión de dotación superior al monto asignado para las operaciones	0	306,041,228	306,041,228
Aportaciones para dotación	0	1,291,791	1,291,791
Reclasificaciones	0	0	0
Venta de activos fijos	4,543,921	0	4,543,921
Otro	-180,884	0	-180,884
De transferencia	4,710,165	0	4,710,165
Cambio en los activos netos de actividades no operativas	12,334,479	355,806,334	368,140,813
Cambio en los activos netos	-9,463,209	355,806,334	346,343,124
Activos netos al inicio del año	2,547,979,587	715,917,145	3,263,896,745
Activos netos al final del año	Lps 2,538,516,387	Lps 1,071,723,481	Lps 3,610,239,869




Contador General



07-08



Representante Legal



07-08

Honduras

Valle de Yeguaré km 30

Carretera de Tegucigalpa a Danlí

Francisco Morazán, Honduras, C.A.

United States

1701 Pennsylvania Ave. NW

Suite 300

Washington, DC 20006

www.zamorano.edu

Our donors

During 2024, we mobilized approximately \$16 million dollars, thanks to the support of 853 donors. Part of these donations will be used to award 111 scholarships (38 full and 74 partial) to new students of the Class of 2028, who began their studies in January 2025. In addition, part of these resources were used to implement 44 linkage projects in Honduras, Guatemala, El Salvador and Bolivia.

We would like to express our sincere thanks to all the people and institutions, governments, companies and foundations that generously contributed to the achievement of our mission.

Peregrine Falcon (\$200,000.00 +)

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