



MARIANO MARCOS STATE UNIVERSITY

Supporting Aquatic Ecosystems Through Education

MMSU has dedicated undergraduate and graduate courses educational programmes on fresh-water ecosystems (water irrigation practices, water management/conservation) for local or national communities.

SDG 14: Life Below Water

Undergraduate Programs

Bachelor of Science in Fisheries. The Bachelor of Science in Fisheries program is designed to prepare well-rounded and highly competent fisheries professionals with competencies in the science and practice of fisheries science. The curriculum is more of general fisheries education which provides students with a strong scientific background on aquatic resources and ecology, aquaculture, marine fisheries, and post-harvest fisheries. However, the students may select any topic in the field of aquatic resources and ecology, aquaculture, capture fisheries, or post-harvest fisheries for their research and On-the-Job Training (<https://casat.mmsu.edu.ph/department/fisheries>).

BS in Environmental Science (BSES). The BSES program is an interdisciplinary four-year science-based degree program. The program is based on the major discipline of science such as biology, chemistry, physics, earth science, and mathematics. Graduates can be employed as environmental officers, research specialists, environmental scientists, teachers, quality controllers and environmental planners. They can also venture in environmental businesses like waste recycling, organic farming, waste treatment, and biotechnology firms, etc. (<https://cafesd.mmsu.edu.ph/department/environmental-science/offering>).

Bachelor of Science in Agricultural and Biosystems Engineering. The Bachelor of Science in Agricultural and Biosystems Engineering program is designed to produce graduates who possess knowledge, skills, and attitudes in the application of engineering science and designs to the processes and systems involved in the sustainable production, post-production, and processing of safe food, feed, fiber, timber, and other agricultural and biological materials; the efficient utilization of, conservation, and management of natural and renewable resources; and development of climate change mitigation measures to enhance human health in harmony with the environment. Agricultural and Biosystems (AB) consist of crops, poultry, livestock, fisheries and aquaculture resources, forestry and other plants, new and renewable energy, wastes, natural resources, and climate.

The graduates of BSABE are expected to understand and apply engineering science and designs to identify, analyze, and create solutions for problems concerning land development; irrigation, and drainage including dams, farm roads and bridges; AB production machinery; new and renewable energy; AB buildings and structures; postharvest and processing technologies; climate change, and natural resources, environmental and waste management (<https://coe.mmsu.edu.ph/department/agricultural-and-biosystems-engineering-abe/offering>).

Graduate Programs

Master of Science in Engineering Major in Soil and Water Resources Engineering. The program for higher learning in the field of agricultural engineering is in response to the Republic Act 8559 known as the Philippine Agricultural Engineering Act of 1998 (<https://gs.mmsu.edu.ph/department/master-of-science>).