

The School of Aquaculture and Aquatic Sciences is a unique program in Kentucky. It is the region's only full-service aquaculture program offering opportunities in teaching, research, and Extension. As an early adopter of distance education technologies, this Program of Distinction began offering its first online course more than 15 years ago. Today, Aquaculture has reached more than 1150 students from 40 states and 27 countries through online classes. The School of Aquaculture is now equipped to offer a Certificate Degree in Aquaculture/ Aquatic Sciences completely online. Students must complete 12 credit hours to earn the Certificate Degree. Courses taught live on Kentucky State University's Frankfort, Kentucky campus will also count toward the degree.

## IMPACT ON EXISTING PROGRAMS

The Certificate Degree will complement the College of Agriculture, Communities, and the Environment School of Aquaculture's other degree offerings. It will allow the program to offer a fully-online degree option. The Certificate Degree also provides an interim degree for those students pursuing the Option in Aquaculture within the Bachelor of Science in Agriculture, Food, and Environment degree. Interim degrees have been shown to positively impact retention and graduation rates.



## PROGRAM FACULTY

**Dr. Boris Gomelsky**, Professor, Fish Genetics and Reproduction

**Dr. Sid Dasgupta**, Professor, Economics and Marketing

**Dr. Bob Durborow**, Professor, Fish Disease and Water Quality

**Dr. Waldemar Rossi**, Assistant Professor, Nutrition

**Dr. Andrew Ray**, Assistant Professor, Marine Shrimp and Biofloc Systems

**Dr. Ken Semmens**, Assistant Professor, Physiology and Reproduction

**Dr. Jim Tidwell**, Professor, Principles and Production Methods

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## Certificate Degree in **AQUACULTURE/ AQUATIC SCIENCES**



**COLLEGE OF AGRICULTURE,  
COMMUNITIES, AND THE ENVIRONMENT  
AND LAND GRANT PROGRAM**

## OVERVIEW

In the United States, over 90% of seafood consumed is imported from other countries. Aquaculture is now the world's leading provider of seafood and the fastest growing segment of world agriculture. Kentucky State University is home to one of the top aquaculture programs in the country and is highly regarded for its research and academic efforts. Known for its innovative research, KSU supports aquaculture initiatives across Kentucky. As KSU's Program of Distinction, the School of Aquaculture offers more online aquaculture courses than any other university in the U.S. A Certificate Degree in Aquaculture/Aquatic Sciences can be earned by completing 12 credit hours of course work, which can be taken completely online or in the classroom on KSU's campus in Frankfort, Kentucky.

## PROGRAM DESCRIPTION

The Certificate Degree in Aquaculture/Aquatic Sciences requires a minimum of 12 completed credit hours of course work chosen by the student from the School of Aquaculture offerings (AQU prefix). These courses can be classroom or online classes. Only classes in which students receive a "C" or better will count toward the Certificate Degree. These classes can also count toward the Bachelor of Science in Agriculture, Food, and Environment Option in Aquaculture Systems under the College of Agriculture, Communities, and the Environment and/or the Aquaculture Minor.



## COURSE OFFERINGS

Course #	Course Name	Credit hours	Online or Classroom
AQU 407:	Fish Genetics	3	Online
AQU 409:	Biostatistics	4	Classroom
AQU 410:	Fish Disease Lab	1	Classroom
AQU 411:	Fish Diseases	3	Online
AQU 412:	Fish Morphology and Physiology	4	Classroom
AQU 421:	Fish Nutrition	3	Classroom
AQU 422:	Principles of Aquaculture	3	Online
AQU 427:	Fish Reproduction and Spawning Techniques	3	Online
AQU 428:	Fish Reproduction Lab	1	Classroom
AQU 451:	Survey of Production Methods	3	Online
AQU 452:	Aquaponics	3	Online
AQU 460:	Water Quality Management	3	Classroom
AQU 461:	Water Quality Lab	1	Classroom
AQU 480:	Introduction to Geographic Information Systems	3	Classroom