

ANIMAL, VETERINARY, AND FOOD SCIENCES (AVFS)

AVFS 101 Introduction to Animal, Veterinary and Food Sciences (1 credit)

An overview of animal, veterinary and food sciences for first year AVFS students. An introduction of programs, courses, and facilities, including weekly faculty speakers, activities, discussions, and presentations of topics concerning issues facing animal, veterinary, and food scientists. Cooperative: open to WSU degree-seeking students.

AVFS 204 (s) Special Topics (1-16 credits, max 99)

Credit arranged Typically Offered: Varies.

AVFS 435 Fish Genetics (2 credits)

Joint-listed with AVFS 535

This course will cover most aspects of qualitative, quantitative, chromosomal and ecological aspects of fish genetics with emphasis on applications to aquaculture and fisheries management. Six major areas will be covered: 1) Inheritance of Qualitative/Quantitative Traits in Fish, 2) Selection, Breeding and Hybridization 3) Genetic Markers and Their Applications, 5) Cytogenetics of Fish Reproduction and Sex Control 6) Introduction to Gene Engineering and Genomics. A writing assignment is mandatory for graduate credit. Typically Offered: Spring.

Prereqs: BIOL 115 and 115L or equivalent

AVFS 503 (s) Workshop (1-16 credits)

Credit arranged

AVFS 524 (s) Data Carpentries (1-2 credits, max 6)

Cross-listed with BCB 524

This series of hands-on workshops will cover basic concepts and tools for processing data and reproducibly performing data analyses. This includes spreadsheet management, program design, data visualization in R and Python, and task automation in Unix, R, or Python - depending on the session. We will cover best practices for collecting and organizing data to streamline data processing and statistical analyses. Participants will be encouraged to help one another and to apply what they have learned to their own research problems. The course is aimed at graduate students and other researchers that are working with scientific data but is open to undergraduate students with instructor permission. Graded Pass/Fail. Typically Offered: Fall and Spring.

Prereqs: Senior or graduate status, or instructor permission.

AVFS 535 Fish Genetics (2 credits)

Joint-listed with AVFS 435

This course will cover most aspects of qualitative, quantitative, chromosomal and ecological aspects of fish genetics with emphasis on applications to aquaculture and fisheries management. Six major areas will be covered: 1) Inheritance of Qualitative/Quantitative Traits in Fish, 2) Selection, Breeding and Hybridization 3) Genetic Markers and Their Applications, 5) Cytogenetics of Fish Reproduction and Sex Control 6) Introduction to Gene Engineering and Genomics. A writing assignment is mandatory for graduate credit. Typically Offered: Spring.