

## COMPETENCY PROFILE

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### SALMONID BIOLOGY

**BTC: FISH 111 (36 clock hours/3 credits)**

This course covers the identification of salmon and trout, their life cycles and the characteristics of each species.



- Identify Steelhead, Cutthroat and the five species of Pacific Coast Salmon in each of the life stages (to include fry, fingerling, smolt, spawning and adult stage) using a dichotomous key.
- Describe how the life cycles of each of the salmonids are alike and how they are different.
- Describe habitat requirements for each of the salmonids.
- Describe the difference between anadromous and land-locked fish and provide examples of how alike and how different they are.
- Explain the difference between hatchery and wild fish.
- Identify and explain why there are different percentages of survival (eggs hatched) in a hatchery, spawning channel, or in a stream.
- Explain why some fish species are better candidates than others for hatchery rearing.
- Describe the habitat requirements that different salmonid species need.
- Identify, describe and demonstrate various enhancement methods used in our areas (such as: egg boxes, egg tubes, net pens, hatcheries, habitat restoration).
- Describe the WA State permitting requirements (law and regulations) regarding enhancement.

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#### College Textbook:

 Salmon Ranchers Manual

 Field Guide of Coastal Juvenile Salmon

This document is to certify that this student has completed the required coursework as defined by the Whatcom County Tech Prep Articulation Agreement and has demonstrated mastery for college credit. Further information about any aspect of this program may be obtained by contacting the school and instructor named on this profile.