



Pacific Education Institute

Aquaculture and Fisheries CTE Framework Sequence

Pathways to Green Jobs

Aquaculture and Fisheries (A&F) job openings are expected to increase in coming years, yet employers struggle to find applicants with the entry level skills and experience needed to enter this field.

Washington State is the nation's largest industry for commercial fisheries, aquaculture, and seafood businesses with a value of \$1.2 billion. The industry provides almost 10,000 jobs and more than half a billion dollars in wages in our state.

PEI's A&F statewide equivalency high school frameworks and industry recognized credentials prepare students succeed in the workforce through career connected learning at employer sites.



Standards Alignment:

- Designed for use in Career and Technical Education (CTE) programs
- Next Generation Science Standards
- Agriculture, Food and Natural Resources Career Cluster
- 21st Century Skills
- Washington State Mathematics Learning Standards

Sequence Overview:

- Introduction to Aquaculture and Fisheries (A&F)
 - 1 credit Lab Science, Algebra 1, or Integrated Math I
- Advanced A&F
 - 1 credit Lab Science, Geometry I, or Integrated Math II
 - Designed for dual credit

Course Units Include:

- Safety and well-being
- Stewardship and sustainability
- Aquatic organisms, biology, and ecology
- Water quality and animal husbandry
- Data science - collection and analysis
- Facility and equipment operations
- Communication and marketing
- Career pathways
- Supervised agricultural experience

Workforce Partners Include:



PEI's Aquaculture and Fisheries frameworks were funded by a Career Connect Washington Program Builder Grant through a USDOL grant. To learn more about funding, follow this QR code.



Entry Level Skills Valued by Employers:

- Safety and teamwork
- GIS, Outlook, Excel
- Data collection
- Driver's license and clean driving record
- Aquatic species husbandry
- Facility operation



Contact PEI to launch a course at your school, district, or skills center