



2018-2019 Thunder Mountain High School Career & Technical Education Highlights

Marine Biology students with teacher **Kristen Wells** and Dr. Shannon Atkinson with UAF, are rearticulating two marine mammal skeletons this spring, a ribbon seal and ringed seal, and will start the process on an adult Humpback whale flipper. Students also participate in a collaboration project with the University of Minnesota about The Changing Earth exploring learning about environmental challenges including water and glaciers. **Applied Science-STEM** students learned coding and engineering design and engaged in project-based learning using 3D and 2D technology. TMHS students engage in the **Ocean Guardian Program** working on local projects including reducing recyclable items going to the landfill from the schools.

Digital Arts students in **Janna Lelchuk's** classes submitted entries to the ASTE state iDida photography, video and 3D design contests. The 2018 Falcon Yearbook cover created by students is on national display and won first place in the National ASPA contest.

Finance and Investing students with teacher **Svetlana Filkova** learned about taxes, insurance, banks, checking and savings accounts, credit cards, loans, credit history and financial identity, and how to create and manage personal budgets. Classes were enriched with guest speakers from local banks and the Alaska Permanent Fund.

AP Computer Science students in both high schools are working with teacher **Carol May** learning about object-oriented programming through JAVA and designing their own classes and objects. **Introduction to Computer Science** students in both high schools are learning the basics of programming with Python and using programming to synthesize music, create dance routines and how to handle large data files.

Human Anatomy and Physiology students with teacher **Kathleen Galau** are learning about medicines, the importance of picking the right over the counter medications, how medicines are approved for use including clinical trials, and the difference between dietary supplements. Students also participated in a tour of Bartlett Hospital and learned about the various health careers at the hospital.

Outdoor Biology students with teacher **Adrianna Northcutt** worked on a salmon incubator project with DIPAC, engaged in field research with Fish and Game biologists and UAS faculty this fall, and are working on a cryosphere snow project this winter.

Work Readiness students with teachers **Randy Quinto and Alan Young** explore career interests, learn about taxes, time management, job search and interview skills, and engage in projects such as learning how to buy a car.

Culinary students in **Jay Watt's** classes have earned AKDEC Food Worker Cards required for employment in Alaska food establishments, recently learned how to make essential cooking oils with a chemist from NOAA, and are learning about the local food movement, and food presentation skills.

Woods students in **Al Tingley's** classes are learning employability skills and building small boxes and cutting boards.

TMHS Robotics had three teams qualify for the state competition. Teams are working on earning extra points by having their robots hang from a latch 2 feet off the ground.

Future of Women Science club led by teacher **Adriana Northcutt** hosted a recent STEM speed dating event connecting girls with Juneau scientists.

