UNIVERSITY OF ALASKA EDUCATION AND TRAINING PROGRAMS RELATED TO OIL AND GAS WORKFORCE

REFERENCE HANDOUT

PREPARED BY:

UNIVERSITY OF ALASKA STATEWIDE OFFICES OF WORKFORCE PROGRAMS
AND
INSTITUTIONAL RESEARCH AND BUDGET

JULY 2013

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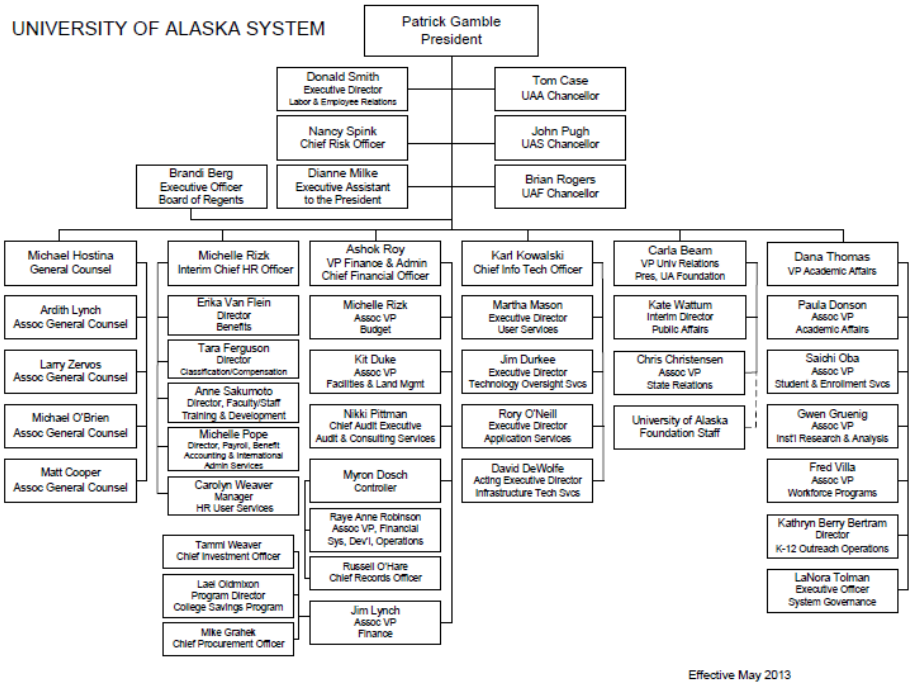
UNIVERSITY OF ALASKA (UA) OVERVIEW

Organizational Charts

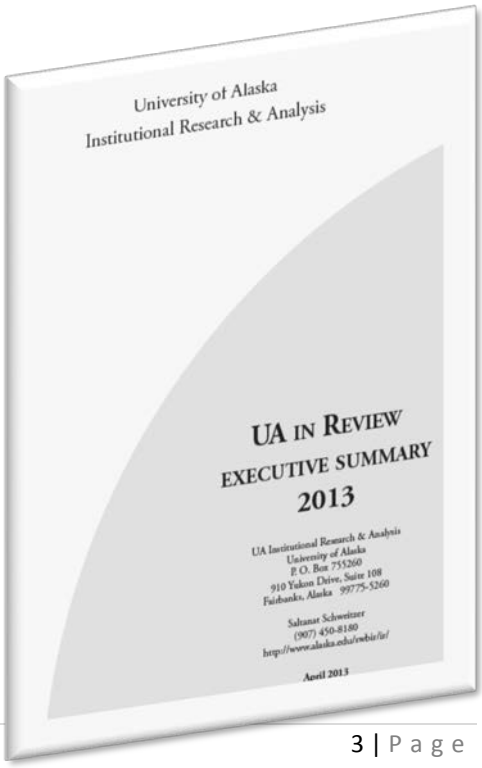
www.alaska.edu/OrgCharts/ Link to organizational charts for UA Statewide, UA Anchorage, UA Fairbanks and UA Southeast.



Effective May 2013

UA in Review

www.alaska.edu/swbir/ir/ua-in-review/ Link to the UA in Review, a comprehensive, system-wide publication reporting on the University of Alaska, organized around the structure of the University system including the four major administrative units: UA Statewide; UA Anchorage; UA Fairbanks; and, UA Southeast.



EDUCATION AND TRAINING PROGRAMS

ACADEMIC PROGRAMS BY UA CLUSTER AND DEGREE LEVEL

The University of Alaska utilizes Career Clusters as a way to group University of Alaska education and training programs into broad industry sector career areas. The following education and training programs are associated with oil and gas industries and occupations and are categorized using University of Alaska Career Clusters designations. See page 10 for additional information on UA Career Clusters. See page 15 for list of Acronyms.

ARCHITECTURE AND CONSTRUCTION

AAS, Apprenticeship Technology
AAS, Archit & Engr Technology
AAS, Construction Management
AAS, Construction Technology
AAS, Construction Trades Technology
AAS, Drafting Technology
AAS, Maintenance Technology
AAS, Refrig & Heat Technology
AAS, Weld & NonDestruct Test Tech
BS, Construction Management
CT1, Architectural Drafting
CT1, Civil Drafting
CT1, Construction Technology
CT1, Drafting Technology
CT1, Indust Weld Tech
CT1, Mech & Elect Drafting
CT1, NonDestruct Testing
CT1, Structural Drafting
CT1, Welding
CT2, Construction Trades Technology
CT2, Drafting Technology
CT2, Refrig & Heat Technology
GCRT, Construction Management
MS, Project Management
OEC, Bldg Enrg Rtrft Tech OE
OEC, CAD for Building Construction
OEC, Commercial HVAC Syst
OEC, Construction Technology
OEC, CTT: Facilities Maintenance
OEC, Electrical
OEC, Entry Level Welder
OEC, Residential Air Cond & Ref
OEC, Residential Heat/Vent
OEC, Welding Technology

ENERGY, ENVIRONMENTAL SCIENCE, AND GREEN JOBS

BS, Environmental Science
CT2, Power Generation
CT2, Powerplant
CT2, Safety, Hlth & Envn Aware Tech
GCRT, Environmental Reg & Permitting
MO, Appl Environ Science & Techno
MS, Appl Environ Science & Techno
MS, Environmental Engineering
MS, Environmental Quality Engr
MS, Environmental Quality Science

FISHERIES, AGRICULTURE, AND NATURAL RESOURCES

AAS, Fisheries Technology
BA, Fisheries
BS, Fisheries
BS, Fisheries Science
BS, Geological Science
BS, Geology
BS, Marine Biology
BS, Natural Resources Management
CT2, Fisheries Technology
MNRMG, Natural Res Mgmt & Geography
MS, Fisheries
MS, Geology
MS, Marine Biology
MS, Natural Resources Management
MS, Oceanography
MS, Resource & Applied Economics
PHD, Fisheries
PHD, Geology
PHD, Marine Biology
PHD, Natural Res. & Sustainability
PHD, Oceanography

HEALTH SCIENCES

AA, Nursing Science
AAS, All Hlth Non-Major
AAS, Community Health
AAS, Dental Assistant
AAS, Dental Assisting
AAS, Dental Hygiene
AAS, Fire & Emergency Services Tech
AAS, Fire Science
AAS, Health Information Mgt
AAS, Health Science
AAS, Medical Assistant
AAS, Medical Assisting
AAS, Medical Lab Technology
AAS, Nursing
AAS, Paramedical Tech
AAS, Pre-Major Dental Assisting
AAS, Pre-Major Dental Hygiene
AAS, Pre-Major Medical Assisting
AAS, Pre-Major Medical Lab Tech
AAS, Pre-Major Nursing
AAS, Pre-major Paramedical Tech
AAS, Premajor Radiologic Technology
AAS, Radiologic Technology
BS, Dental Hygiene
BS, Dietetics
BS, Health Sciences
BS, Medical Technology
BS, Nursing Science
BS, Nutrition
BS, Physical Education
BS, Pre-Major Dental Hygiene
BS, Pre-Major Dietetics
BS, Pre-Major Health Science (BS)
BS, Pre-Major Nursing
BS, Pre-Major Nursing Science
CT1, Community Wellness Advocate
CT1, Health Information Mgt
CT1, Nursing
CT1, Pre-Radiologic Technology
CT2, Community Health
CT2, Community Wellness Advocate
CT2, Dental Assistant
CT2, Dental Assisting
CT2, Health Care Reimbursement
CT2, Health Info Mgt Coding Spec
CT2, Health Information Mgt
CT2, Healthcare Privacy & Security
CT2, Medical Assistant
CT2, Medical/Dental Reception
CT2, Practical Nursing
CT2, Pre-Major Dental Assisting
CT2, Pre-Nursing Qualifications
CT2, Veterinary Science
GCRT, Dietetic Internship
GCRT, Nursing Education
GCRT, Psychia & Mentl Hlth Nur Pract
MPH, Public Health Practice
MS, Nursing Science
OEC, Clinical Assistant
OEC, Community Wellness Advocate
OEC, Healthcare Information Tech
OEC, Limited Radiography
OEC, Medical Billing
OEC, Medical Coding
OEC, Medical Office Coding
OEC, Medical Office Reception
OEC, Medical Office Supp
OEC, Nurse Aide
OEC, Pharmacy Technology
OEC, Phlebotomist
OEC, Rural Nutrition Services
OEC, Veterinary Assisting

LAW, PUBLIC SAFETY, AND SECURITY

AAS, Emergency Services
BEM, Emergency Management
CT1, Indust Safety Program Support

MINING, MANUFACTURING, AND PROCESS TECHNOLOGY

AAS, Industrial Proc Instrumentatn
AAS, Industrial Technology
AAS, Occupational Safety & Health
AAS, Process Technology
BI, Premajor - Mining Engineering
BI, Premajor-Petroleum Engineering
BS, Mining Engineering
BS, Petroleum Engineering
CT2, Industrial Technology
CT2, Instrumentation Technology
MS, Mineral Preparation Engineer
MS, Mining Engineering
MS, Petroleum Engineering

SCIENCE, TECHNOLOGY, ENGINEERING, AND RESEARCH

AAS, Geomatics
AAS, Technology
AS, Associate of Science
BA, Anthropology
BA, Biological Sciences

BA, Biology
BA, Chemistry
BA, Earth Science
BA, Mathematics
BA, Physics
BA, Pre-major Biology
BI, Premajor - Anthropology
BI, Premajor - Applied Physics
BI, Premajor - Biological Sciences
BI, Premajor - Chemistry
BI, Premajor - Civil Engineering
BI, Premajor - Computer Engineer
BI, Premajor - Earth Science
BI, Premajor - Electrical Engineer
BI, Premajor - General Science
BI, Premajor - Geography
BI, Premajor - Geological Engineer
BI, Premajor - Mathematics
BI, Premajor - Mechanical Engineer
BI, Premajor - Physics
BI, Premajor - Wildlife Biology
BS, Anthropology
BS, Applied Physics
BS, Biological Sciences
BS, Biology
BS, Chemistry
BS, Civil Engineering
BS, Electrical Engineering
BS, Engineering
BS, Engineering Non-Major
BS, General Science
BS, Geological Engineering
BS, Geomatics
BS, Math & Science Non-Major
BS, Mathematics
BS, Mech/Elect Engr Consortium
BS, Mechanical Engineering
BS, Natural Sciences
BS, Physics
BS, Pre-Major Biology
BS, Pre-Major Civil Engineering
BS, Pre-major Engineering
BS, Pre-Major Technology
BS, Statistics
BS, Technology
BT, Technology
CT1, Civic Engagement
CT1, Geographic Information Sys
CT1, Pre-major Engineering
GCRT, Earthquake Engineering
GCRT, Statistics
MA, Anthropology
MA, Chemistry
MCE, Civil Engineering
MEE, Electrical Engineering
MS, Arctic Engineering
MS, Atmospheric Sciences
MS, Biochemistry/Molecular Biology
MS, Biological Sciences
MS, Biology
MS, Botany
MS, Chemistry
MS, Civil Engineering
MS, Computational Physics
MS, Electrical Engineering
MS, Engineering Management
MS, Geological Engineering
MS, Geophysics
MS, Mathematics
MS, Mechanical Engineering
MS, Physics
MS, Science Management
MS, Space Physics
MS, Statistics
PHD, Anthropology
PHD, Atmospheric Sciences
PHD, Biochemistry/Molecular Biology
PHD, Biological Sciences
PHD, Engineering
PHD, Geophysics
PHD, Mathematics
PHD, Physics
PHD, Space Physics

TRANSPORTATION, DISTRIBUTION, AND LOGISTICS

AAS, Air Traffic Control
AAS, Automotive Technology
AAS, Aviation Administration
AAS, Aviation Maint Technology
AAS, Aviation Maintenance
AAS, Heavy Duty Trans & Equip
AAS, Logistics & Supply Chain Ops
AAS, Logistics Operations
AAS, Professional Piloting
BBA, Global Log Supply Chain Mgt
BBA, Global Logistics Mgmt
BS, Aviation Technology
CT1, Logistics
CT1, Logistics & Supply Chain Ops
CT2, Airframe
CT2, Airframe and Powerplant
CT2, Automotive Technology
CT2, Aviation Maint - Airframe
CT2, Aviation Maint - Powerplant

CT2, Aviation Maint Technology
CT2, Diesel/Heavy Equipment
CT2, Ground Vehicle Maint Tech
CT2, Heavy Duty Trans & Equip
GCRT, Port & Coastal Engineering
GCRT, Supply Chain Management
MS, Global Supply Chain Mgmt
OEC, Automotive Technology
OEC, Brakes, Suspension, Align
OEC, Diesel/Heavy Duty
OEC, Diesel/Marine
OEC, Engine Performance
OEC, Logistics
OEC, Logistics & Supply Chain Ops
OEC, Marine Engine Room Prep

TRAINING PROGRAMS

UA is the state's largest supplier of workforce training. In addition to baccalaureate and master's degree programs such as nursing, engineering and accounting that involve internships and lead directly to employment, UA campuses provide hundreds of short-term training programs that get people out of the classroom and into a job in 1-2 years or less.

The Mining and Petroleum Training Service (MAPTS) is of particular interest for oil and gas training programs. In its 30+ year history, MAPTS has evolved to provide the following types of training programs:

- OSHA.
- MSHA.
- EPA.
- DOT.
- IADC Well Control & related classes, NSTC, HAZWOPER, ECS.
- Entry Level Roustabout.
- DEC Classes.
- CITS Cook Inlet Training.
- NSTC+H2S.
- IADC WellCAP.
- IADC Intro to Well Control.
- IADC Well Intervention (pending IADC approval).
- Rigging – Entry Level.
- Mechanical Maintenance
- Pre- and post- employment training for a variety of employers and agencies in the resource industries and professional training and development, design and evaluation, as well as consulting services.
- Other customized industry related certification training.

Mining and Petroleum Training Service
Bill Bieber, Executive Director
(Main Office)
162 College Road
Soldotna, Alaska 99669
Phone: (907) 262-2788
Fax: (907) 262-2812

(Anchorage Office)
3901 Old Seward Hwy - University Center Mall
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Anchorage, Alaska 99524
Phone: (907) 786-6413
Fax: (907) 786-6414

BEST PRACTICES

CERTIFICATE & DEGREE PROGRAMS, COURSEWORK FOR NON-DEGREE SEEKING STUDENTS

Examples of innovative programs related to oil and gas workforce development include:

- Industry led Health, Safety, Environment (HSE) program in development
- Emergency Services programs, for example:
  - www.ctc.uaf.edu/programs/emergency/
  - www.uaa.alaska.edu/alliedhealth/academics/fire.cfm
- Marine Technology, Port and Coastal Engineering
  - www.uas.alaska.edu/career_ed/maritime/
  - www.uaa.alaska.edu/pathways/upload/Civil-Grad-MS-MCE.pdf
- Arctic and Petroleum Engineering, Geoscientists , Arctic Exploration, for example:
  - Department of Petroleum Engineering: http://cem.uaf.edu/pete
  - Civil Engineering Program (Arctic Engineering) http://cem.uaf.edu/cee/degrees.aspx
  - Geoscience
    - http://www.uaf.edu/geology/
    - http://www.uaa.alaska.edu/geology/

APPRENTICESHIP PROGRAMS

UAA – CTC APPRENTICESHIP TECHNOLOGIES
WWW.UAA.ALASKA.EDU/CTE/ACADEMICS/APPRENTICESHIP/INDEX.CFM

The Apprenticeship Technologies program is a 60 credit Associate of Applied Science degree, coordinated and delivered collaboratively by UAA, UAF and UAS.

- Integrates general coursework and training for career and technical occupations
- Individuals must complete an apprenticeship registered by the US Department of Labor, Office of Apprenticeship and hold journey worker status.
- Students are encouraged to start while still an apprentice, and graduate after completing both the coursework and apprenticeship.
- Journey workers can apply at any time.

Up to 38 credits can be transcripted for approved apprenticeship programs.

Graduates can seamlessly enroll in the Bachelor of Science, Technology (UAA) or Bachelor of Technology (UAF) degree. See more at: www.uaa.alaska.edu/cte/academics/apprenticeship/index.cfm#sthash.WBQfZOOl.dpuf

UAF – CTC APPRENTICESHIP TECHNOLOGIES WWW.CTC.UAF.EDU/PROGRAMS/APT/

The A.A.S. degree in apprenticeship technologies provides vocational training and supporting course work to prepare students for the rapidly changing global workplace. The program also helps Alaska industries by training workers who can meet increasing certification requirements which reflect complex business and industrial standards.

Program Overview

The apprenticeship technologies program is a 60-credit A.A.S. degree delivered collaboratively through UAA, UAF and UAS. The practical integration of general course work and training for vocational and technical trades specifically reflects the commitment of the university to high-quality instruction and public service. Individuals earning this degree must complete an apprenticeship program approved by the U.S. Department of Labor, and they must hold journey-level status in trades recognized by the U.S. Department of Labor, Bureau of Apprenticeship and Training.

Students declaring a major in apprenticeship technologies must present documentation of acceptance into an apprenticeship program approved by the U.S. Department of Labor, Bureau of Apprenticeship and Training. The appropriate College of Rural Alaska campus will review the documentation and may recommend up to 38 credits of course work following completion of all courses listed below. Students are encouraged to begin the required courses while completing the apprenticeship program to expand the quality and breadth of the program. Students who complete this program may be eligible to enroll in the B.S. technology degree program at UAA or the B.T. technology degree program at UAF.

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Phone: 455-2847
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UAS
WWW.UAS.ALASKA.EDU/ACADEMICS/UNDERGRAD/ASSOC/AAS/APPRENTICESHIP_TECH.HTML

The associate of applied science degree is a two-year degree awarded in a specific career or occupational field of experience. Residency requirement is 15 UAS semester credits.

The Apprenticeship Technology program is available to individuals who have completed a formal apprenticeship program and hold journeyman-level status in trades recognized by the U.S. Department of Labor, Bureau of Apprenticeship and Training. This degree is available through campuses of the University of Alaska that offer the required academic credit courses. Upon completion of all the academic credit courses, the apprenticeship program will be evaluated and appropriate credit awarded. Fees may be involved. No more than 38 credit hours may be awarded for the formal apprenticeship program. Contact Career Education for assistance with course planning toward the Associate of Applied Science degree.

MILITARY

See handout titled, "UA Matrix of MAU Policies: Awarding Credit for Military Training".

DUAL ENROLLMENT/DUAL CREDIT

Dual Credit Policies and Practices at UAF, UAA and UAS (Board of Regents Meeting, September 2012)

www.alaska.edu/files/bor/120927Ref13_Dual_Credit_Policies_Practices.pdf

UA CAREER CLUSTERS, NASDCTEC/DOL CLUSTERS, O'NET CLUSTERS

Career clusters and career pathways are a useful tool to organize and categorize groupings of occupations as well as education and training programs. At UA, 15 career clusters are used for the purpose of organizing education and training programs. As utilization of this classification method becomes even more widespread in Alaska, we are undertaking a conversation with partners to better understand current usage of this classification system to ensure consistency.

The National Association of State Directors of Career and Technical Education Consortium (NASDCTEc) spearheaded the national effort to develop and utilize Career Clusters. Below is a cross-walk between UA Career Clusters and the NASDCTEc career clusters. www.careertech.org/career-clusters/

O'NET career clusters *"contain occupations in the same field of work that require similar skills. Students, parents, and educators can use Career Clusters to help focus education plans towards obtaining the necessary knowledge, competencies, and training for success in a particular career pathway*." www.onetonline.org/find/career

University of Alaska Career Clusters	NASDCTEc Clusters (aka DOL Cluster)	O'NET Career Clusters
Fisheries, Agriculture, & Natural Resources	Agriculture, Food and Natural Resource Science, Technology, Engineering and Mathematics Government and Public Administration	– Agriculture, Food and National Resources – Architecture & Construction – Arts, AV Technology, and Communications – Business, Management, and Administration – Education and Training – Finance – Government and Public Administration – Health Science – Hospitality and Tourism – Human Services – Information Technology – Law, Public Safety, Corrections and Security – Manufacturing
Energy, Environmental Science, & Green Jobs	Science, Technology, Engineering and Mathematics Agriculture, Food and Natural Resource Transportation, Distribution, and Logistics Architecture and Construction Manufacturing	
Architecture & Construction	Architecture and Construction Manufacturing Transportation, Distribution and Logistics Science, Technology, Engineering and Mathematics	
Arts, AV Technology, & Communications	Arts, Audio/Video Technology and Communications Education and Training Cluster	

	Business, Management and Administration	– Marketing, Sales and Service – Science, Technology, Engineering, and Mathematics – Transportation, Distribution, and Logistics
Business, Management, & Administration	Business, Management and Administration Marketing Sales and Service Finance	
Education & Training	Education and Training Human Services Science, Technology, Engineering and Mathematics Agriculture, Food and Natural Resource	
Government, Public Policy, & Administration	Government and Public Administration Human Services Science, Technology, Engineering and Mathematics	
Health Sciences	Health Science Law, Public Safety, Corrections and Security Science, Technology, Engineering and Mathematics	
Hospitality & Tourism	Hospitality and Tourism Human Services	
Human Services	Human Services Education and Training Business, Management and Administration Hospitality and Tourism Health Science	
Information & Technology	Information Technology Business, Management and Administration Manufacturing Architecture and Construction	
Law & Public Safety	Law, Public Safety, Corrections and Security Business, Management and Administration Manufacturing Human Services	
Mining, Manufacturing, & Process Technology	Manufacturing Science, Technology, Engineering and Mathematics Agriculture, Food and Natural Resource	
Science, Technology, Engineering, Research	Science, Technology, Engineering and Mathematics Manufacturing Architecture and Construction Information Technology Agriculture, Food and Natural Resource	
Transportation, Distribution, & Logistics	Transportation, Distribution, and Logistics Business, Management and Administration Architecture and Construction Science, Technology, Engineering and Mathematics	

EMPLOYMENT AFTER GRADUATION

Number of Students Graduated 2007-2011 by Oil and Gas Clusters					
	2007	2008	2009	2010	2011
Architecture and Construction	111	113	102	156	143
Energy, Environmental Science, and Green Jobs	20	26	19	17	24
Fisheries, Agriculture, and Natural Resources	65	71	74	73	68
Health Sciences	409	436	400	485	476
Law, Public Safety, and Security	19	23	15	12	29
Mining, Manufacturing, & Process Technology	99	106	112	118	132
Science, Technology, Engineering, and Research	325	332	371	411	421
Transportation, Distribution and Logistics	168	161	171	144	187
Total	1216	1268	1264	1416	1480

Number of Students Graduated 2007-2011 Who Were Employed One Year After Exit					
	2007	2008	2009	2010	2011
Architecture and Construction	86	93	64	111	106
Energy, Environmental Science, and Green Jobs	16	23	14	12	17
Fisheries, Agriculture, and Natural Resources	46	45	47	42	54
Health Sciences	350	371	346	412	384
Law, Public Safety, and Security	16	21	14	10	27
Mining, Manufacturing, & Process Technology	85	81	93	105	99
Science, Technology, Engineering, and Research	225	229	266	311	278
Transportation, Distribution and Logistics	110	113	120	105	136
Total	934	976	964	1108	1101

RESEARCH AND OTHER SPONSORED PROGRAMS

Full listing of UA Research and Documentation Centers can be found in Board of Regents Policy at www.alaska.edu/bor/policy/10-02.pdf

UA Grants Related to Oil and Gas Industry

FY	Grant Title	Max Fund Amount	Grant Type	Agency
2008	North Slope Arctic Fox Diagnostic and Research Initiative: Health Status and Zoonotic Diseases	14,040.0	Research/Development	BP Exploration AK Inc
2008	Oil Spill Recovery Graduate Fellowship for James Alanko	50,033.0	Research/Development	Prince William Sound Science Center
2008	Environmental Studies of Port Valdez, Alaska - 2008	216,274.0	Research/Development	Alyeska Pipeline Service Co.
2008	Experimental Study on Bending Behavior of Natural Gas Pipeline at the Boundary of Permafrost and Non-permafrost: Planning a Field Experiment for West Siberia	6,997.3	Research/Development	Hokkaido University
2008	Physical oceanographic measurements in the Klondike and Burger prospects of the Chukchi Sea	90,217.0	Research/Development	Conoco
2008	Conoco-LAB : Assessment of the planktonic communities in the Klondike and Burger prospect regions of the Chukchi Sea	6,075.0	Research/Development	Conoco
2008	ConocoPhilips 2008 Environmental Studies Program in Chukchi Sea: Benthic Ecology	33,000.0	Research/Development	Conoco
2009	Oil in Ice: Transport, Fax, and Potential Exposure	63,156.0	Research/Development	Oil Spill Recovery Institute
2009	Environmental Studies of Port Valdez, Alaska - 2009	225,646.0	Research/Development	Alyeska Pipeline Service Co.
2009	Schrader Bluff Enhanced Oil Recovery	332,000.0	Research/Development	BP Exploration AK Inc
2009	ConocoPhilips 2008 Environmental Studies Program in Chukchi Sea: Benthic Ecology	299,782.0	Research/Development	Conoco
2009	Phase 2: Conoco: Assessment of the planktonic communities in the Klondike and Burger prospect regions of the Chukchi Sea	117,546.0	Research/Development	Conoco
2009	ISER Energy Related Programs	300,000.0	Research/Development	President's Special Projects
2009	UAF Phased Research Proposal to Evaluate the Effects of Dispersed Oil on Cold Water Environments Of the Beaufort and Chukchi Seas	197,000.0		NewFields
2009	INVESTIGATION OF PHYSICAL CHANGES OF BIOPOLYMER DRILL-IN FLUID SYSTEMS DURING DRILLING OPERATIONS IN ALASKA	50,000.0	Research/Development	BP Exploration AK Inc
2009	Phase 2: Conoco: Physical oceanographic measurements in the Klondike and Burger prospects of the Chukchi Sea	73,417.0	Research/Development	Conoco
2009	Scientific Exploration in the Arctic Ocean Workshop	50,000.0	Other Sponsored Activity	Shell Oil Company
2009	Shell - Application of High-Frequency Radar to Potential Hydrocarbon Development Areas in the Northeast Chukchi Sea	300,000.0	Research/Development	Shell International Exploration and Production Inc.
2009	Conoco - Application of High-Frequency Radar to Potential Hydrocarbon Development Areas in the Northeast Chukchi Sea	400,000.0	Research/Development	ConocoPhillips
2009	The Geochronology and the Historical Changes in Trace Metals and isotopes of Carbon and Nitrogen in Sediments of Chukchi Sea, Arctic Alaska	54,286.0	Research/Development	Conoco
2009	Monitoring Changes in the Arctic Ocean: A Collaborative Study	175,000.0	Research/Development	Shell Oil Company
2009	Monitoring Pad Pore-Water Flow on the Crude Oil Topping Unit	40,000.0	Research/Development	BP Exploration AK Inc

2010	Characterization and Quantification of the Methane Hydrate Resource Potential associated with the Barrow Gas Fields (Phase II)	150,000.0	Research/Development	Petrotechnical Resources Alaska
2010	Subaward: Alaska North Slope Oil and Gas Transportation Support System	689,501.0	Research/Development	GW Scientific
2010	Environmental Studies of Port Valdez, Alaska ? 2010	220,331.0	Research/Development	Alyeska Pipeline Service Co.
2010	DOE/EPPR Strategic Planning, Coordination, and Execution of Activities in Oil and Gas Mandate	90,896.0	Other Sponsored Activity	Battelle Pacific Northwest Lab
2011	Population assessment of snow crab, Chionoecetes opilio, in the Chukchi and Beaufort Seas including oil and gas lease areas	116,571.0	Research/Development	Coastal Marine Institute
2011	Monitoring Seabirds and Marine Mammals in the Chukchi Sea as Part of the Alaska Monitoring and Assessment Program	111,947.0	Research/Development	Shell Oil Company
2011	OSRI Graduate Research Fellowship: Cultural dimensions of community response preparation and vulnerability to Copper River fisheries and the communityof Cordova	49,937.0		Oil Spill Recovery Institute
2011	Environmental Studies of Port Valdez, Alaska 2011	212,730.0	Research/Development	Alyeska Pipeline Service Co.
2011	Pad Pore Water Movement Through North Slope Gravel Pads	120,000.0	Research/Development	BP Exploration AK Inc
2012	Data rescue: Epibenthic invertebrates from the Beaufort Sea sampled during WEBSEC and OCS cruises in the 1970s	49,984.0	Research/Development	Oil Spill Recovery Institute
2012	Environmental Studies of Port Valdez, 2012	201,266.0	Research/Development	Alyeska Pipeline Service Co.
2012	Zooplankton communities of the Beaufort Shelf 2011	119,691.0	Research/Development	Shell International Exploration and Production Inc.
2012	Coastal zooplankton communities of the Chukchi Sea	85,278.0	Research/Development	Shell International Exploration and Production Inc.

ACRONYMS

Degree Level --Degree level is determined by the primary degree that the student is working towards within the organization being reported.

AAS - Associate of Applied Science degree (2-year)
AS – Associates of Science degree
BBA – Bachelor of Business Administration degree
BA - Bachelor of Arts degree
BEM – Bachelor of Emergency Management
BI – Bachelor's Intended (means that a student intends to enroll in bachelor's degree program, but has not yet met the admission qualifications to do so)
BS -Bachelor of Science degree
BT – Bachelor of Technology degree
CT1 - Certificate (one year certificate program)
CT2 – Certificate (two year certificate program)
GCRT – Graduate Certificate
MA – Master of Arts
MCE – Master of Civil Engineering
MEE – Master of Electrical Engineering
MO – Master, other
MNRMG – Masters of Natural Resource Management Geography
MPH – Master Public Health
MS – Master of Science
OEC – Occupational Endorsement Certificate
PHD – Doctor of Philosophy

Selected terms:

Career Clusters: groupings of occupations/career specialties used as an organizing tool for curriculum design and instruction. Career clusters "represent a distinct grouping of occupations and industries based on the knowledge and skills they require". - See more at: www.careertech.org/career-clusters/glance/careerclusters.html#sthash.B5ALcWAz.dpuf

Continuing Education Units (CEU): This type of non-credit course focuses on community outreach. Courses are designated by a course approval code and typically have a course number ranging between 001 and 049. Source: UA datacookbook

Dual Enrollment: Dual enrollment includes all students who are still in high school, not enrolled in a Tech-Prep program at their high school and taking courses at the University of Alaska. Those students are in the [14-18] age bracket and the courses that they enrolled in are GPA eligible. Source: UA datacookbook

GER: General Education Requirement, the courses that are required for any undergraduate degree.

MAU: Major Administrative Unit: the MAUs are UA Anchorage, UA Fairbanks, UA Southeast and Statewide.

O'NET: The nation's primary source of occupational information. See http://www.onetcenter.org/overview.html for more information.