

State of Alaska FY2017 Governor's Operating Budget

Department of Education and Early Development Alaska Native Science and Engineering Program Component Budget Summary

Component: Alaska Native Science and Engineering Program

Contribution to Department's Mission

The Alaska Native Science and Engineering Program (ANSEP) component reflects activities that are designed to increase Alaska Native student achievement. ANSEP active partnerships include multiple Alaska school districts, multiple University of Alaska (UA) campuses, as well as various federal agencies, private entities and corporations, including the Alaska Federation of Natives, Alaska Airlines, Bureau of Land Management and ConocoPhillips.

Core Services

- Active Partnerships

Major Component Accomplishments in 2015

- The Urban Institute completed a \$500,000 external evaluation of ANSEP. The study was funded by the Rasmuson Foundation. The report validated ANSEP's outcome data sets. ANSEP is the most successful and cost effective Science, Technology, Engineering and Mathematics (STEM) program in the nation.
- Middle School Academy: 77% of all Middle School Academy students successfully complete Algebra 1 prior to high school graduation. The national average for all students for the same measure is 26%. Anchorage School District data shows an 11.6% completion rate for Native students. There were 485 Middle School students who participated in Middle School Academy on the University of Alaska, Anchorage campus this past year.
- High School Acceleration Academy: 95% of all students advance one full level in math each summer. Fifty-nine students completed the following courses:
 - Math 105 – Intermediate Algebra
 - Math 107 – College Algebra
 - Math 108 – Trigonometry
 - Math 200 – Calculus I
 - Math 201 – Calculus II
 - Comm 111 – Fundamentals of Communication
 - Math 302 – Ordinary Differential Equations
- ANSEP's goal is to increase the effectiveness of the home schools of each of the participating students by improving student performance, offering courses not available in home schools, and improving graduation rates. An additional major benefit of the ANSEP pre-college components is that students become socialized to the university campus, thereby easing the transition from the village to the university.
- ANSEP raises the bar for students and is designed so that every middle school student successfully completes Algebra 1 prior to middle school graduation and every high school student successfully completes Calculus 1 at a minimum prior to high school graduation. Alaska now has students who are graduating from high school a full year early with a differential equations class successfully completed. This places these students in the upper tier of all students nationwide in terms of math completion prior to college.

Key Component Challenges

- ANSEP is working to raise awareness of the success of the program's approach and the potential to raise the bar for every student in the state; and,
- ANSEP is working to raise awareness of the cost effectiveness of the program.

Significant Changes in Results to be Delivered in FY2017

No changes in results to be delivered to the Department of Education and Early Development in FY2017.

Statutory and Regulatory Authority

No statutes or regulations.

Contact Information
<p>Contact: Dr. Susan McCauley, Director Phone: (907) 465-2857 Fax: (907) 465-6760 E-mail: susan.mccauley@alaska.gov</p>

Component Detail All Funds
Department of Education and Early Development

Component: Alaska Native Science and Engineering Program (3103)
RDU: Teaching and Learning Support (56)

Non-Formula Component

	FY2015 Actuals	FY2016 Conference Committee	FY2016 Authorized	FY2016 Management Plan	FY2017 Governor	FY2016 Management Plan vs FY2017 Governor	
71000 Personal Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
72000 Travel	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
73000 Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
74000 Commodities	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
75000 Capital Outlay	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
77000 Grants, Benefits	0.0	1,660.0	1,385.2	1,385.2	1,000.0	-385.2	-27.8%
78000 Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Totals	0.0	1,660.0	1,385.2	1,385.2	1,000.0	-385.2	-27.8%
Fund Sources:							
1004Gen Fund (UGF)	0.0	1,660.0	1,385.2	1,385.2	1,000.0	-385.2	-27.8%
Unrestricted General (UGF)	0.0	1,660.0	1,385.2	1,385.2	1,000.0	-385.2	-27.8%
Designated General (DGF)	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Other Funds	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Federal Funds	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Positions:							
Permanent Full Time	0	0	0	0	0	0	0.0%
Permanent Part Time	0	0	0	0	0	0	0.0%
Non Permanent	0	0	0	0	0	0	0.0%

Change Record Detail - Multiple Scenarios with Descriptions
Department of Education and Early Development

Component: Alaska Native Science and Engineering Program (3103)

RDU: Teaching and Learning Support (56)

Scenario/Change Record Title	Trans Type	Totals	Personal Services	Travel	Services	Commodities	Capital Outlay	Grants, Benefits	Miscellaneous	Positions		NP
										PFT	PPT	
***** Changes From FY2016 Conference Committee To FY2016 Authorized *****												
FY2016 Conference Committee												
1004 Gen Fund	ConfCom	1,660.0	0.0	0.0	0.0	0.0	0.0	1,660.0	0.0	0	0	0
		1,660.0										
Reduce Alaska Native Science and Engineering Program												
1004 Gen Fund	Unalloc	-274.8	0.0	0.0	0.0	0.0	0.0	-274.8	0.0	0	0	0
		-274.8										
Subtotal												
		1,385.2	0.0	0.0	0.0	0.0	0.0	1,385.2	0.0	0	0	0
***** Changes From FY2016 Management Plan To FY2017 Governor *****												
Reduce Funding for Alaska Native Science and Engineering Program Grant												
1004 Gen Fund	Dec	-385.2	0.0	0.0	0.0	0.0	0.0	-385.2	0.0	0	0	0
		-385.2										
Totals												
		1,000.0	0.0	0.0	0.0	0.0	0.0	1,000.0	0.0	0	0	0

The Alaska Native Science & Engineering Program (ANSEP) is administered by the University of Alaska-Anchorage, and receives funding through multiple sources, including funding from the state that is provided by a grant through the department. ANSEP Pre-College components are the spark that illuminates a vision of a career in engineering or science for middle school and high school students. It is not known the exact impact that this reduction will have on the overall program as it operates from multiple funding sources. After this reduction the base grant funding for ANSEP will be \$385.2. In addition, ANSEP will continue to receive additional state funding in FY2016 through the Middle School STEM Pilot Project grant funding appropriated from HB278 of \$1,000.0. The total ANSEP is expected to receive from the department in FY2016 is \$1,385.2 UGF.

Reduce funding for Alaska Native Science and Engineering Program (ANSEP) grant. These funds are passed-through directly to the University of Alaska (UA). While the funds provide support for a program that engages students and fosters academic achievement, the grant is utilized at UA to promote postsecondary career training. The department supports the ANSEP program; however, since the department focuses on K-12 success, this reduction is appropriate to maintain the department's most important services and functions, which first serves Alaskan school districts and K-12 students.

Line Item Detail
Department of Education and Early Development
Grants, Benefits

Component: Alaska Native Science and Engineering Program (3103)
RDU: Teaching and Learning Support (56)

Line Number	Line Name			FY2015 Actuals	FY2016 Management Plan	FY2017 Governor
77000	Grants, Benefits			0.0	1,385.2	1,000.0
Expenditure Account	Servicing Agency	Explanation		FY2015 Actuals	FY2016 Management Plan	FY2017 Governor
77000 Grants, Benefits Detail Totals				0.0	1,385.2	1,000.0
77341	Other Services (Benefits)	Univ	RSA with the University of Alaska for the Alaska Native Science and Engineering Program and middle-school STEM (science, technology, engineering and mathematics) grant	0.0	1,385.2	1,000.0

Interagency Services
Department of Education and Early Development

Component: Alaska Native Science and Engineering Program (3103)
RDU: Teaching and Learning Support (56)

Expenditure Account	Service Description	Service Type	Servicing Agency	FY2015 Actuals	FY2016 Management Plan	FY2017 Governor
77341	Other Services (Benefits) RSA with the University of Alaska for the Alaska Native Science and Engineering Program and middle-school STEM (science, technology, engineering and mathematics) grant	Inter-dept	Univ	0.0	1,385.2	1,000.0
77341 Other Services (Benefits) subtotal:				0.0	1,385.2	1,000.0
Alaska Native Science and Engineering Program total:				0.0	1,385.2	1,000.0
Grand Total:				0.0	1,385.2	1,000.0