

## AY 2020 STUDENT ENROLLMENT BEHAVIOR

*This report focuses on cross-institutional enrollment by students within the UA system. It addresses an ongoing concern that others have expressed that universities and campuses within the UA system are “siphoning” students from each other. The data gathered here indicate that the impact of cross-institutional enrollment is minimal, and that students are benefiting from increased options for enrollment.*

**Definitions of Enrollment Behaviors.** The literature identifies eight types of student enrollment behaviors. The two of interest here include back-and-forth, multi-institution attendance patterns and concurrent enrollment at two (or more) institutions<sup>1</sup>.

### INTER-UNIVERSITY STUDENT ENROLLMENT BEHAVIOR

#### *Among the three Universities in the UA system*

The data indicate that students enrolled in UA universities move fluidly within the system, enrolling in courses across universities and campuses. This reflects efforts over the last several years to align curriculum, allowing easier credit transfers among the universities. The ability for students to take classes from more than one university in the UA system increases flexibility for all in pursuing their educational goals in Alaska.

In AY20, 1,426 UAA students (7.2% of total annual headcount) also enrolled in courses offered by UAF or UAS. That same year, 1,642 UAF and UAS students (may include duplicates) enrolled in courses offered by UAA. The data reveals that the back-and-forth enrollment has minimal impact on total student credit hour production for any of the three universities. Among all courses, UAA lost a net of only 613 credit hours to UAF and UAS out of a total 266,473 credit hours produced in AY20.

AY 20	Student Credit Hours	Headcount
UAA students taking courses at UAF	4,263	919
UAF students taking courses at UAA	3,642	935
<b>Result – mixed, UAF gain in SCH: UAA gain in HC</b>	<b>-621</b>	<b>16</b>
UAA students taking courses at UAS	2,404	507
UAS students taking courses at UAA	2,396	707
<b>Result – net gain for UAA</b>	<b>8</b>	<b>200</b>
UAF students taking courses at UAS	1,174	256
UAS students taking courses at UAF	1,036	217
<b>Result – net gain for UAS</b>	<b>138</b>	<b>39</b>

Source: DSDMGR.DSD\_Student\_Statistics; DSDMGR.DSD\_Registration

**NOTE: Enrollment** is a duplicate count of students enrolled (“seats occupied”) in all course section offerings.

<sup>1</sup>de los Santos, A. Jr. and I Wright, “Maricopa’s Swirling Students: Earning One-third of Arizona State’s Bachelor’s Degrees,” Community, Technical, and Junior College Journal, Vol. 60, No. 6, 1990, pp. 32-34

**INTER-UNIVERSITY  
STUDENT ENROLLMENT  
BEHAVIOR Top 10  
Disciplines**

The tables here show the top 10 disciplines that majors at each UA institution are taking at their home campus and other universities in the system.

- At UAA, Mathematics produces the most credit hours.
- Education is the #1 discipline UAA students take from UAF and UAS.
- Health is the top discipline UAF majors take from UAA.
- Biology is the top discipline UAS majors take at both UAA and UAF.

**UAA MAJORS**

RANK	University of Alaska Anchorage				University of Alaska Fairbanks				University of Alaska Southeast			
	Discipline	HC	Enrollment	SCH	Discipline	HC	Enrollment	SCH	Discipline	HC	Enrollment	SCH
1	Mathematics -MATH	5,667	7,850	26,040	Education -ED	318	478	698	Education -ED	410	618	957
2	Writing -WRGT	5,018	6,453	19,615	Mathematics -MATH	129	157	565	Mathematics -MATH	47	53	176
3	Biology -BIOL	3,462	8,033	18,253	Psychology -PSY	71	79	251	ED: Ed Dev & Leadership -EDL	108	125	172
4	Business Administration -BA	2,399	5,449	16,251	Biology -BIOL	44	92	209	Writing -WRGT	35	43	127
5	Psychology -PSY	3,135	5,048	14,699	Philosophy -PHIL	51	54	162	ED: Special Education -EDSE	56	76	115
6	Nursing Science -NS	463	3,295	9,563	Writing -WRGT	28	32	94	Psychology -PSY	30	36	108
7	Chemistry -CHEM	1,975	4,036	9,276	Art -ART	27	31	86	Biology -BIOL	23	45	103
8	History -HIST	2,115	2,955	8,840	ED: Special Education -EDSE	37	41	67	Communication -COMM	24	24	72
9	Education -ED	3,086	4,679	7,431	Arctic Engineering -AE	22	22	66	Art -ART	16	24	67
10	Communication -COMM	2,359	2,455	7,365	Statistics -STAT	17	19	62	History -HIST	14	15	45
	TOP 10 TOTALS	29,679	50,253	137,333	TOP 10 TOTALS	744	1,005	2,260	TOP 10 TOTALS	763	1,059	1,942
	TOTALS		97,677	266,473	TOTALS		49,755	137,607	TOTALS		12,606	37,764
	Percentage of TOTAL		51%	52%	Percentage of TOTAL		2%	2%	Percentage of TOTAL		8%	5%

**UAF MAJORS**

RANK	University of Alaska Anchorage				University of Alaska Fairbanks				University of Alaska Southeast			
	Discipline	HC	Enrollment	SCH	Discipline	HC	Enrollment	SCH	Discipline	HC	Enrollment	SCH
1	Health -HLTH	120	135	423	Mathematics -MATH	1,496	2,439	7,332	Education -ED	54	61	147
2	Education -ED	126	150	375	Business Administration -BA	1,330	2,400	7,124	Health -HLTH	21	25	71
3	Business Administration -BA	83	87	263	Writing -WRGT	1,804	2,309	6,946	Spanish -SPAN	6	10	50
4	Biology -BIOL	48	65	236	Biology -BIOL	949	1,863	6,791	Fisheries -FISH	15	22	48
5	Mathematics -MATH	55	68	209	Chemistry -CHEM	833	1,925	5,229	History -HIST	12	14	42
6	Early Childhood Education -ECE	38	67	192	Health -HLTH	922	1,450	5,064	Psychology -PSY	10	12	36
7	Applied Business -ABUS	45	68	179	Comm & Journalism -COJO	1,401	1,668	4,996	Mathematics -MATH	8	13	35
8	Psychology -PSY	45	52	174	Applied Business -ABUS	854	1,694	4,677	Justice -JUST	8	11	33
9	Spanish -SPAN	31	39	157	Psychology -PSY	877	1,367	4,138	Early Childhood Education -ECE	16	18	31
10	Justice -JUST	29	43	129	Education -ED	841	1,423	3,807	Comp & Info Tech Systems -CITS	3	9	30
	TOP 10 TOTALS	620	774	2,337	TOP 10 TOTALS	11,307	18,538	56,104	TOP 10 TOTALS	153	195	523
	TOTALS		97,677	266,473	TOTALS		49,755	137,607	TOTALS		12,606	37,764
	Percentage of TOTAL		1%	1%	Percentage of TOTAL		37%	41%	Percentage of TOTAL		2%	1%

**UAS MAJORS**

RANK	University of Alaska Anchorage				University of Alaska Fairbanks				University of Alaska Southeast			
	Discipline	HC	Enrollment	SCH	Discipline	HC	Enrollment	SCH	Discipline	HC	Enrollment	SCH
1	Biology -BIOL	169	217	852	Biology -BIOL	50	59	208	Education -ED	524	1,443	4,023
2	Education -ED	74	117	263	Education -ED	26	47	126	Biology -BIOL	633	1,033	3,526
3	Chemistry -CHEM	41	43	164	Chemistry -CHEM	19	23	81	Mathematics -MATH	561	746	2,780
4	Health Science -HS	30	41	148	Psychology -PSY	18	21	63	Business Administration -BA	375	831	2,493
5	Business Administration -BA	37	45	135	Justice -JUST	3	18	48	Writing -WRGT	504	648	2,109
6	Accounting -ACCT	34	38	114	Statistics -STAT	12	12	37	Health Science -HS	337	414	1,690
7	Justice -JUST	7	37	99	Mathematics -MATH	8	10	35	Art -ART	440	633	1,475
8	Anthropology -ANTH	29	33	99	Art -ART	14	17	35	Accounting -ACCT	289	464	1,392
9	Political Science -PS	9	16	90	Public Administration -PADM	3	10	30	Psychology -PSY	347	446	1,333
10	ED: Special Education -EDSE	21	26	78	Fisheries Tech -FT	3	10	27	Justice -JUST	84	494	1,318
	TOP 10 TOTALS	451	613	2,042	TOP 10 TOTALS	156	227	690	TOP 10 TOTALS	4,094	7,152	22,139
	TOTALS		97,677	266,473	TOTALS		49,755	137,607	TOTALS		12,606	37,764
	Percentage of TOTAL		1%	1%	Percentage of TOTAL		0.5%	0.5%	Percentage of TOTAL		57%	59%

## INTRA-UAA STUDENT ENROLLMENT BEHAVIOR

### Among UAA Campuses

The tables that follow offer a perspective on the Intra-University enrollment behavior of ALL students at UAA. **The tables do not take into account a student's physical location. Students can be physically located in one community while admitted to a program based in another community or campus.**

The data appear to indicate that Anchorage majors are utilizing courses offered at three of four campuses at higher rates than in AY14, the last year this study was completed. While this has caused some concern, it is important to recognize that the flexibility to take classes through UAA campuses when and where it is convenient to the students expands their access to needed courses and reduces the risk of losing them to other institutions. The next page of this report provides a look at the top-10 credit hour producing disciplines students admitted to Anchorage programs are taking from other UAA campuses. A review of Anchorage course schedules could inform future decisions about scheduling to better serve Anchorage students.

### STUDENT CREDIT HOURS IN AY20

CAMPUS PROVIDING THE COURSE	CAMPUS WHERE STUDENT IS ADMITTED				
	Anchorage	Kenai	Kodiak	Mat-Su	PWS
Anchorage Campus	<b>206,071</b>	801	204	1,264	182
Kenai Peninsula College	11,826	<b>9,002</b>	275	609	84
Kodiak College	3,193	133	<b>2,077</b>	194	43
Mat-Su College	9,269	93	17	<b>10,092</b>	13
Prince William Sound College	1,590	110	70	117	<b>3,118</b>

### PERCENTAGE OF TOTAL CREDIT HOURS PRODUCED BY PROGRAMS AT EACH CAMPUS VS. PROGRAMS AT OTHER CAMPUSES IN AY20

CAMPUS PROVIDING THE COURSE	CAMPUS WHERE STUDENT IS ADMITTED				
	Anchorage	Kenai	Kodiak	Mat-Su	PWS
Anchorage Campus	<b>98.8%</b>	0.4%	0.1%	0.6%	0.1%
Kenai Peninsula College	54.3%	<b>41.3%</b>	1.3%	2.8%	0.4%
Kodiak College	58.2%	2.4%	<b>37.8%</b>	0.3%	1.3%
Mat-Su College	47.3%	0.4%	0.1%	<b>51.5%</b>	0.6%
Prince William Sound College	31.8%	2.2%	1.4%	2.3%	<b>62.3%</b>

**INTRA-UAA STUDENT ENROLLMENT BEHAVIOR**

**Top 10 Disciplines Taken by Students Admitted to Programs on the Anchorage Campus**

This table shows the top 10 disciplines in which students admitted to programs on the Anchorage campus enroll across UAA campuses. It is important to note that students may be admitted to a program based on the Anchorage campus but may be physically located elsewhere.

In AY20 students admitted to an Anchorage program took courses in these top 10 disciplines, and produced a low of 26% of all credit hours at Prince William Sound, and a high of 45% at Kodiak College.

Mathematics generated more credit hours at UAA in AY20 than any other discipline at 21,520 credit hours. The majority of these credit hours (61.2%) were produced by Anchorage students enrolled in math courses on the Anchorage campus. More detail on mathematics enrollment patterns is provided on the following pages.

Rank	ANCHORAGE			KODIAK			KENAI			MAT-SU			PRINCE WILLIAM SOUND		
	Discipline	HC	SCH	Discipline	HC	SCH	Discipline	HC	SCH	Discipline	HC	SCH	Discipline	HC	SCH
1	Mathematics -MATH	2,928	13,312	Biology -BIOL	130	617	Mathematics -MATH	695	2,694	Mathematics -MATH	287	1,182	Mathematics -MATH	108	362
2	Business Administration -BA	1,719	12,279	Writing -WRTG	123	416	Writing -WRTG	382	1,263	Biology -BIOL	204	1,017	Occupational Safety & Health -OSH	49	258
3	Writing -WRTG	2,987	11,760	Business Administration -BA	132	414	Biology -BIOL	253	1,113	Writing -WRTG	209	801	Medical Assisting -MA	49	147
4	Biology -BIOL	2,136	11,555	Accounting -ACCT	99	339	Chemistry -CHEM	272	934	Art -ART	155	630	Geology -GEOL	54	138
5	Psychology -PSY	2,062	11,375	Medical Assisting -MA	87	309	Psychology -PSY	203	722	Anthropology -ANTH	195	597	Anthropology -ANTH	41	123
6	Nursing Science -NS	437	10,090	Dietetics & Nutrition -DN	44	132	Statistics -STAT	188	646	Business Administration -BA	143	486	Astronomy -ASTR	28	111
7	Education -ED	2,761	6,925	Art -ART	36	120	Business Administration -BA	133	465	Chemistry -CHEM	99	392	Communication -COMM	28	87
8	Communication -COMM	1,751	5,574	Psychology -PSY	38	120	History -HIST	110	441	History -HIST	103	375	Technology -TECH	19	57
9	Chemistry -CHEM	1,090	4,957	Anthropology -ANTH	31	93	Communication -COMM	121	363	Physics -PHYS	85	367	Statistics -STAT	16	48
10	History -HIST	1,088	4,858	Economics -ECON	25	90	Dietetics & Nutrition -DN	105	321	Psychology -PSY	110	363	Philosophy -PHIL	14	42
	TOP TEN TOTALS	18,959	92,685		745	2,650		2,462	8,962		1,590	6,210		406	1,373
	CAMPUS TOTALS		212,763			5,869			22,886			19,691			5,264
	Top Ten % of Total		44%			45%			39%			32%			26%

## INTRA-UAA STUDENT ENROLLMENT BEHAVIOR

### In Mathematics courses

As the table on page 4 shows, Mathematics is the #1 credit hour producing discipline by Anchorage students at all but one campus. Tables below show fall 2019 and spring 2020 capacity and actual schedules for all math courses, by headcount in traditional face-to-face sections, distance sections, and courses offered in the evening (after 5 p.m.). The majority (74%) of actual headcount in math sections were in face-to-face classes in spring 2020, and Anchorage sections produced 62% of total headcount.

**Distance-delivered courses** have grown steadily over the last 10 years, reflecting student demand and improvements in course quality. In AY20, headcount in all eLearning courses was up 15% while total headcount was down 30% from AY11. Students who enroll in eLearning now comprise nearly two-thirds of all students, compared to one-third in AY11. Distance-delivered courses produced 37% of all credit hours in AY20, compared to 18% in AY11. It is clear that alternate delivery, even before it was forced upon the institution by the pandemic, was drawing more and more students.

In AY20, enrollment in math courses offered via distance represented nearly 22% of the total headcount in all math courses in spring 2020, up from 17% in fall 2019. Of the 26 sections of all math courses offered via distance, none were offered from the Anchorage campus.

**Evening offerings:** Fourteen sections were offered at 5:30 p.m. or later. Enrollment in these courses declined 19% from fall 2019 to spring 2020, compared to 14.7% enrollment decline overall. Fill-rates also declined both for all sections and among those sections offered by Anchorage locations.

**Traditional face-to-face offerings:** In all, 93 sections were offered in spring 2020 with a fill rate of 65% across all campuses, significantly lower than the 72% fill rate in fall 2019. In Anchorage, all math sections had a fill rate of 72% in spring 2020, also lower than the rate from the previous fall.

#### FALL 2019

	ALL MATH All UAA Sections			Anchorage Sections Only		
	Capacity	Actual	Fill Rate	Capacity	Actual	Fill Rate
Distance	792	537	68%	20	9	45%
Evening	276	171	62%	192	152	79%
Traditional	3,406	2,522	74%	2,379	1,920	81%
Total	4,474	3,230	72%	2,591	2,081	80%

#### SPRING 2020

	ALL MATH All UAA Sections			Anchorage Sections Only		
	Capacity	Actual	Fill Rate	Capacity	Actual	Fill Rate
Distance	792	532	67%	0	0	0%
Evening	276	138	50%	146	100	68%
Traditional	2,884	1,884	65%	2,048	1,477	72%
Total	3,942	2,554	65%	2,194	1,577	72%

**Drilling a little deeper-A look at Math 105:**

Math 105 has the highest enrollment of any single math course. In spring 2020, Math 105 represented 23% of the headcount and credit hours for all math courses and 16% of all sections of math offered.

Fill rates in distance delivered sections of Math 105 were near capacity in spring 2020, none of which were offered from Anchorage. Fill rates for traditional face-to-face sections in Anchorage were also high. This suggests that distance offerings expand capacity and provide access especially for high demand courses like Math 105.

**FALL 2019**

MATH 105 All UAA Sections				Anchorage Sections Only		
	Capacity	Actual	Fill Rate	Capacity	Actual	Fill Rate
Distance	160	131	82%	0	0	0
Evening	114	89	78%	90	83	92%
Traditional	744	667	90%	480	459	96%
Total	1,018	887	87%	570	542	95%

**SPRING 2020**

MATH 105 All UAA Sections			Anchorage Sections Only		
Capacity	Actual	Fill Rate	Capacity	Actual	Fill Rate
144	137	95%	0	0	0%
80	49	61%	80	49	61%
554	408	74%	363	310	85%
778	593	76%	443	359	81%