

To: AB 705 Committee

From: Mallory Newell, Office of Research and Planning

Date: 9/28/2022

Subject: Progress on AB 705 Implementation, 2015-16 to 2021-22

Overview: De Anza piloted AB 705 implementation strategies in summer 2018 for math and fall 2018 for English, one year prior to statewide implementation in fall 2019. Now in the third full year of AB 705 implementation the college is seeing vast improvements in outcomes for transfer-level completion in both English and math.

Methodology: Students who enrolled in their first math or English course at any level between fall 2016 and fall 2021 were tracked and given one full year (4 quarters) to successfully complete any transfer-level math or English course. Successful completion of a transfer-level course reflects grades of A, B, C or P. Only students with an educational goal of degree or certificate were included in the analysis. The throughput rates reflect students who started in any level math or English course and completed its transfer-level course in one year. The data is disaggregated by high school GPA band, and additional disaggregations are available in the [Statewide Transfer-Level Gateway Dashboard](#).

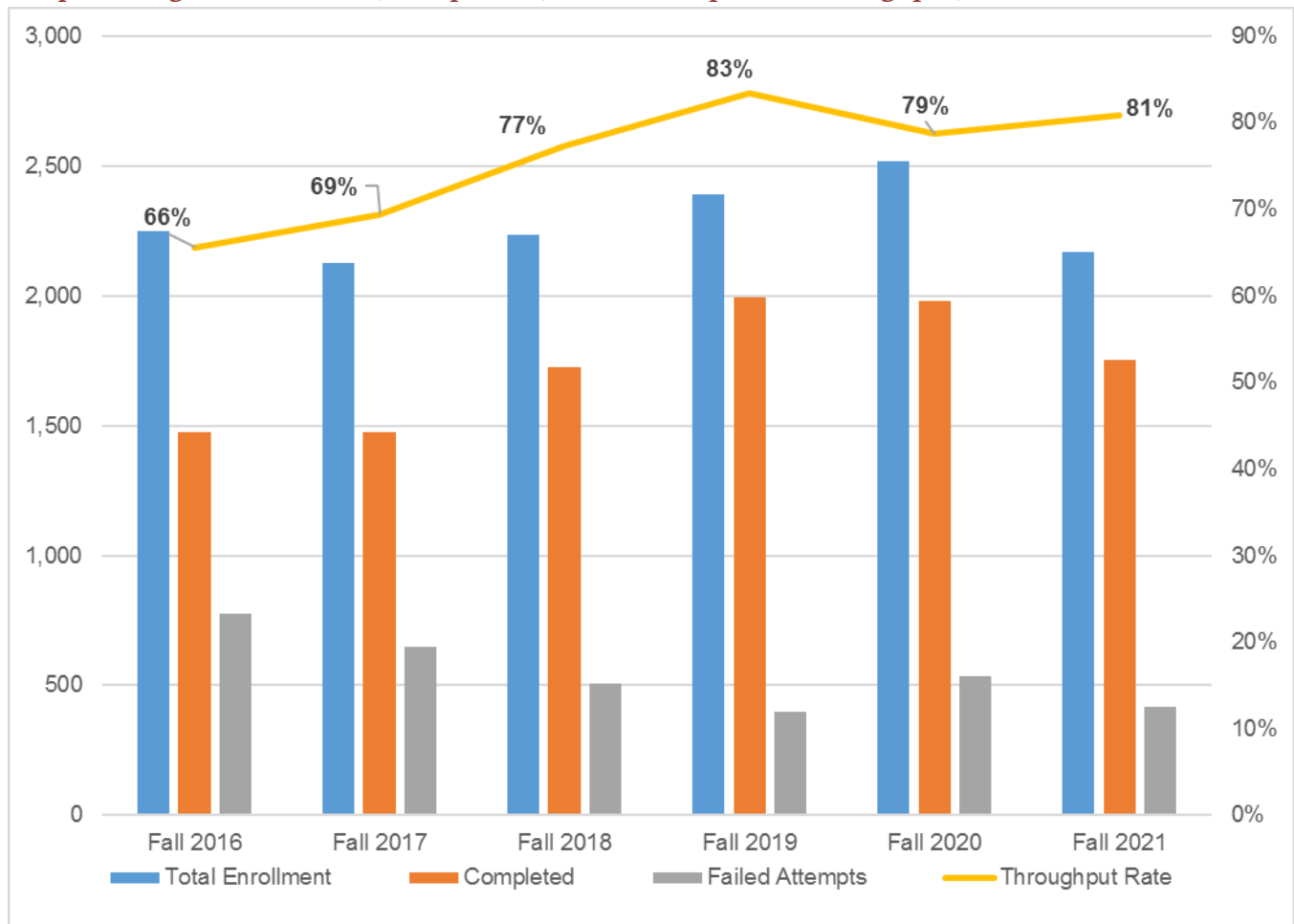
Key Findings:

- **Enrollment** across **English** courses in the fall term **remained stable** between fall 2016 and fall 2021, with only a 3% decrease, while enrollment in **math courses decreased by 22%**, a rate similar to total enrollment declines observed collegewide over the same time period.
- The **number of students who successfully completed a transfer-level** course within one year **increased by 19% for English and 39% for math** between fall 2016 and fall 2021.
- The **failure rate** (rate in which students did not pass a transfer level course or failed to enroll in a transfer level course after enrolling in a below transfer-level course) **decreased by 46% for English and decreased by 67% in math** between fall 2016 and fall 2021.
- The throughput rate for students who completed a transfer-level course within one year **increased by 15 percentage points for English, from 66% to 81% and by 33 percentage points for math, from 42% to 75%.**
- **Throughput rates increased for all student groups across all GPA bands¹, but increased the greatest for students in the lowest GPA band.**
 - Students in the **lowest GPA band saw throughput rates improve by 15 percentage points in English, from 36% to 51% and increased by 43 percentage points in math, from 9% to 51%.**

¹

<https://static1.squarespace.com/static/5a565796692ebefb3ec5526e/t/5faf24c61c7089551ae4ab7c/1605313734474/AB705+Chart001.pdf>

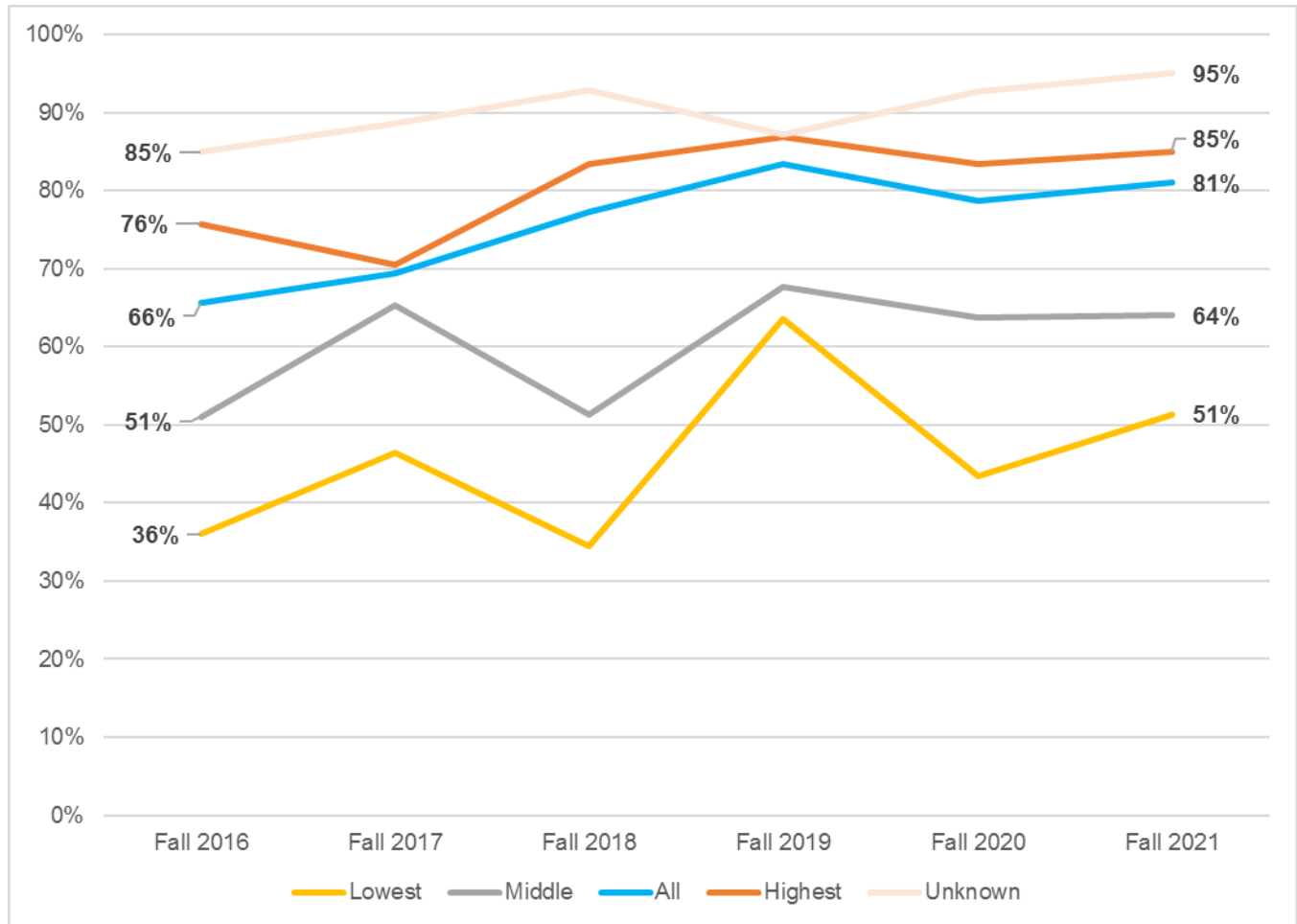
Graph 1. English enrollment, completion, failed attempts and throughput, fall 2016 to fall 2021



As displayed in Graph 1, for all students whose first English course was in the fall term and who started at any level, over a one year timeframe:

- **Total Enrollment** (blue bar) in English courses **remained stable with only a 3 percent decline over six years**, while the college saw a 22% decline in total enrollments over the same time-period. Therefore, the implementation of AB 705 did not have a negative effect on English enrollment by removing below transfer level sections as would be expected.
- The **number of students who successfully completed a transfer-level English** course within one year (orange bar) **increased 19%** from 1,474 to 1,754 over the six years. With an enrollment high of 1,994 in fall 2019, the first full year of AB 705 implementation (see Appendix A for rates).
- The **failure rate** (rate in which students did not pass a transfer level course or failed to enroll in a transfer level course after enrolling in a below transfer-level course) (grey bar) **dropped from 774 failed attempts to 416 attempts, or a 46% decrease**. The lowest failure rate was observed in fall 2019 with 396 failed attempts.
- The **throughput rate** (yellow line) **increased from 66% in fall 2016 to 81% in fall 2021, a 15-percentage point increase** in completion of a transfer-level English course. The throughput rate peaked at 83% in fall 2019.

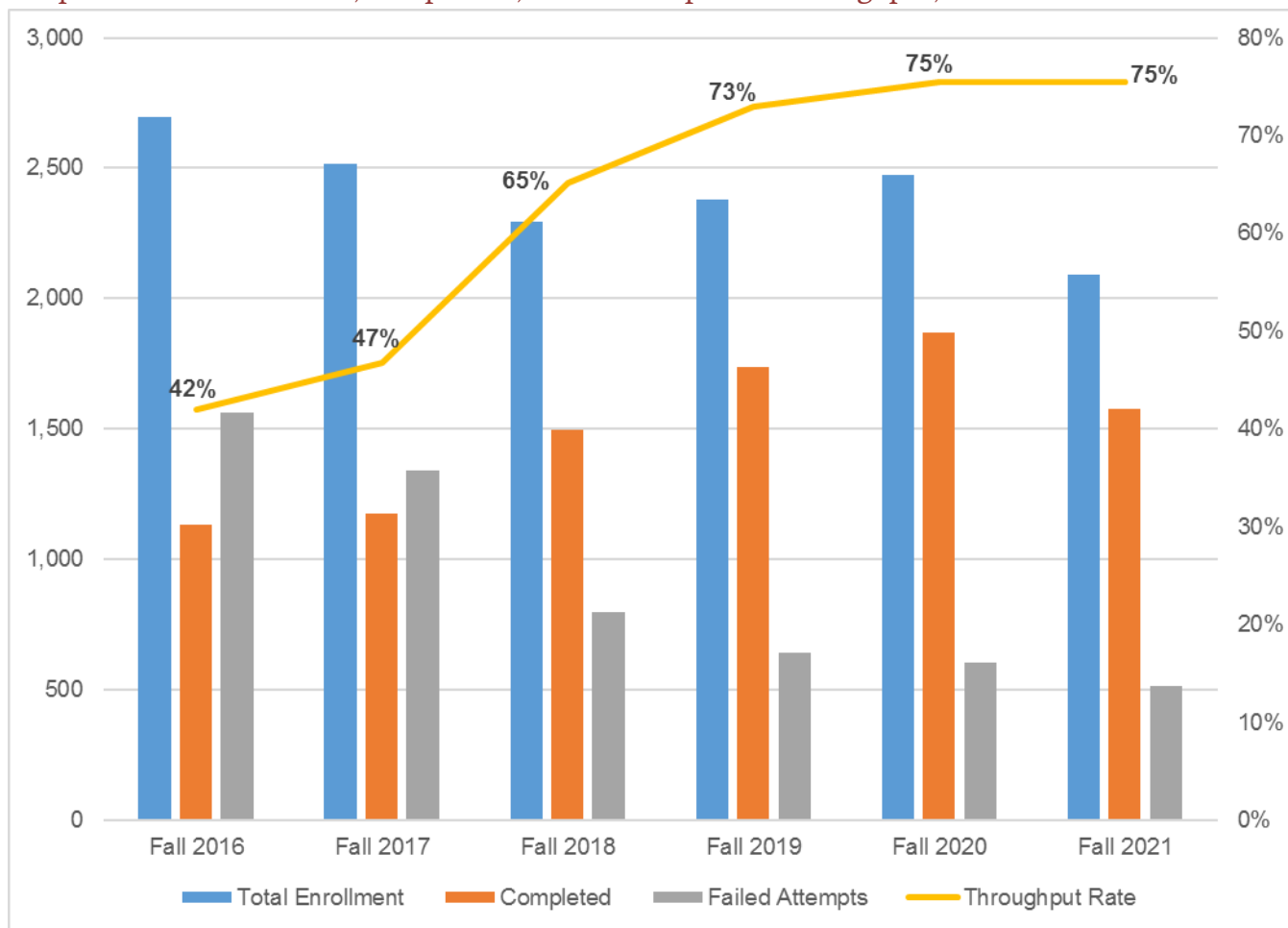
Graph 2. English throughput rates by high school GPA band



When looking at throughput rates by high school GPA band for English as displayed in Graph 2:

- **Throughput rates have increased for all student groups across all GPA bands but increased the greatest for students in the lowest GPA band who saw throughput rates improve from 36% in fall 2016 to 51% in fall 2021, an increase of 15 percentage points.**
- **Students in the middle GPA band had the second highest improvement rate from 51% to 64%, an increase of 13 percentage points.**
- **Students in the highest GPA band saw an increase of 9 percentage points from 76% to 85%.**
- **Students whose high school GPA data is not available, their rate also increased by 10 percentage points from 85% to 95% (see Appendix B for rates).**

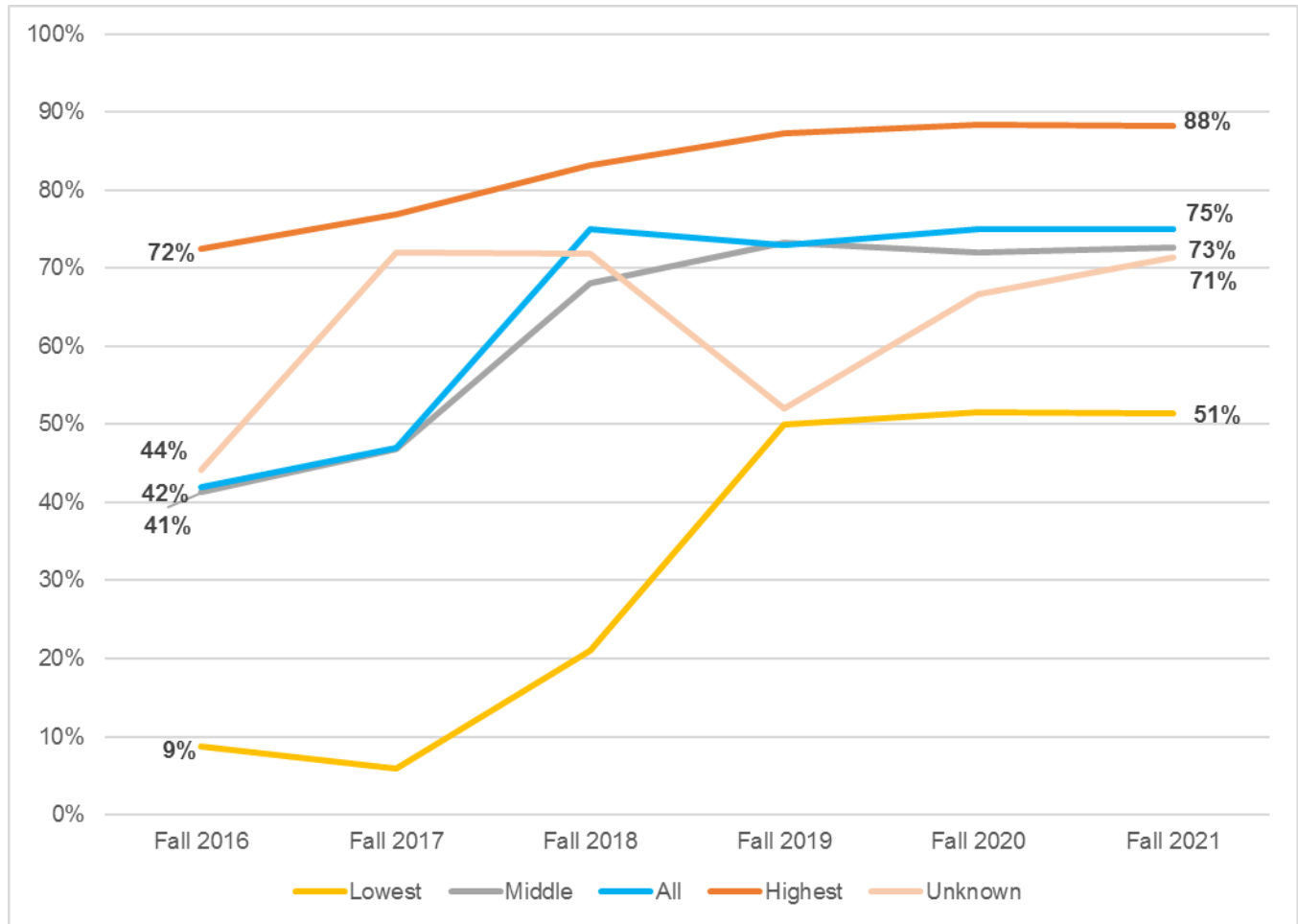
Graph 3. Math enrollment, completion, failed attempts and throughput, fall 2016 to fall 2021



As displayed in Graph 3, for all students whose first math course was in the fall term and who started at any level, over a one year timeframe:

- **Enrollment** (blue bar) across math courses in the fall term **decreased by 22% over six years, a similar decrease as seen collegewide** which saw a 22% decline in total enrollments over the same time-period.
- The **number of students who successfully completed a transfer-level math** course within one year (orange bar) **increased 39%** from 1,131 to 1,577, with a high of 1,868 observed in fall 2020.
- The **failure rate** (rate in which students did not pass a transfer level course or failed to enroll in a transfer level course after enrolling in a below transfer-level course) (grey bar) **decreased by 67% from 1,563 failed attempts to 514 failed attempts.** The rate of failed attempts has consistently dropped each year with the lowest rate in fall 2021.
- The **throughput rate** (yellow line) **increased by 33 percentage points from 42% in fall 2016 to 75% in fall 2021** (see appendix C for rates).

Graph 4. Math throughput rates by high school GPA band



When looking at throughput rates by high school GPA band as displayed in Graph 4:

- **Throughput rates have increased for all student groups across all GPA bands, but increased the greatest for students in the lowest GPA band which saw throughput rates improve from 9% in fall 2016 to 51% in fall 2021, an increase of 43 percentage points.**
- **Students in the middle GPA band had the second highest improvement rate from 41% to 73%, an increase of 31 percentage points.**
- **Students in the highest GPA band saw an increase of 16 percentage points from 72% to 88% (see Appendix D for rates).**
- **Students where high school GPA data is not available, their rate also increased by 27 percentage points from 44% to 71%.**

Appendix

Appendix A. Enrollment, completions, failed attempts and throughput rates, English

	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
Total Enrollment	2,248	2,125	2,232	2,390	2,517	2,170
Completed	1,474	1,475	1,725	1,994	1,980	1,754
Failed Attempts	774	650	507	396	537	416
Throughput Rate	66%	69%	77%	83%	79%	81%

Appendix B. Enrollment, completions, throughput rates, English

		GPA Band				
		Unknown	Highest	Middle	Lowest	Total
Fall 2016	Enrollment	193	1,160	723	172	2,248
	Completed	164	879	369	62	1,474
	Rate	85%	76%	51%	36%	66%
Fall 2017	Enrollment	185	1,263	565	112	2,125
	Completed	164	890	369	52	1,475
	Rate	89%	70%	65%	46%	69%
Fall 2018	Enrollment	112	1,688	374	58	2,232
	Completed	104	1,409	192	20	1,725
	Rate	93%	83%	51%	34%	77%
Fall 2019	Enrollment	109	1,861	346	74	2,390
	Completed	95	1,618	234	47	1,994
	Rate	87%	87%	68%	64%	83%
Fall 2020	Enrollment	69	1,912	430	106	2,517
	Completed	64	1,596	274	46	1,980
	Rate	93%	83%	64%	43%	79%
Fall 2021	Enrollment	44	1,699	350	77	2,170
	Completed	42	1,449	224	39	1,754
	Rate	95%	85%	64%	51%	81%

Appendix C. Enrollment, completions, failed attempts and throughput rates, Math

	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
Total Enrollment	2,694	2,518	2,295	2,380	2,475	2,091
Completed	1,131	1,177	1,496	1,736	1,868	1,577
Failed Attempts	1,563	1,341	799	644	607	514
Throughput Rate	42%	47%	65%	73%	75%	75%

Appendix D. Enrollment, completions, throughput rates, English

		GPA Band				
		Unknown	Highest	Middle	Lowest	Total
Fall 2016	Enrollment	707	330	1,338	319	2,694
	Completed	312	239	552	28	1,131
	Rate	44%	72%	41%	9%	42%
Fall 2017	Enrollment	458	376	1,123	561	2,518
	Completed	330	289	525	33	1,177
	Rate	72%	77%	47%	6%	47%
Fall 2018	Enrollment	142	464	1,389	300	2,295
	Completed	102	386	945	63	1,725
	Rate	72%	83%	68%	21%	75%
Fall 2019	Enrollment	25	892	916	547	2,380
	Completed	13	779	671	273	1,736
	Rate	52%	87%	73%	50%	73%
Fall 2020	Enrollment	9	1,071	964	431	2,475
	Completed	6	946	694	222	1,868
	Rate	67%	88%	72%	52%	75%
Fall 2021	Enrollment	7	912	773	399	2,091
	Completed	5	805	562	205	1,577
	Rate	71%	88%	73%	51%	75%