

PARTICIPATING INSTITUTIONS

Arizona State University Georgia State University Purdue University North Carolina A & T Oregon State University University of California, Riverside University of Central Florida University of Colorado, Denver University of Illinois Chicago University of Utah Virginia Commonwealth University

COURSES IDENTIFIED

Individual campuses: English 1 Intro: Cell & Molecular Bio Intro to Computer Science Intro to Psychology Math for Liberal Arts Organic Chemistry 1 Multiple campuses: College Algebra Calculus General Chemistry 1

BACKGROUND

We know that the students who have the most to gain from completing a college degree– students from low-income backgrounds, students of color, and students with caregiving responsibilities– are also among the most likely to earn a D, F or Withdraw in required gateway courses.

When students receive a non-passing grade in a required foundational course, **they are delayed in degree advancement, incur an additional financial burden, and are often scared to retake the course.** These students may then stop out altogether. According to data analytics firm EAB, **1% of courses are responsible for over 30% of all DFWs**, and 5% of all courses are responsible for 85% of all course retakes.

The UIA's Academic Recovery project seeks to address the lack of clear, scalable solutions to diagnosing and addressing DFW bottlenecks at universities, and in so doing, to improve academic progression rates for low income students and students of color in higher education.

THE INTERVENTION



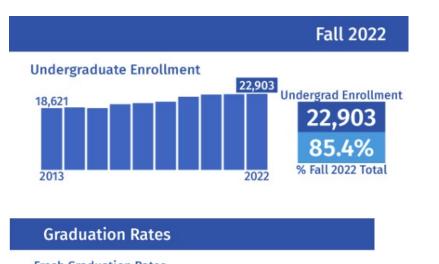
The Academic Recovery model was developed to mitigate the negative impact of DFW grades on students and enable their continued progress. Institutions analyze course metrics to determine which course(s) have the largest impact on their campuses.

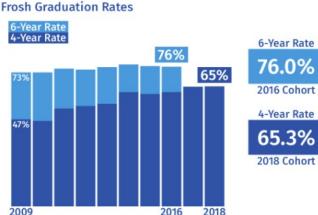
Students who were unsuccessful in an academic attempt are recruited to a tailored section of that course which is designed to help them succeed on their second attempt.

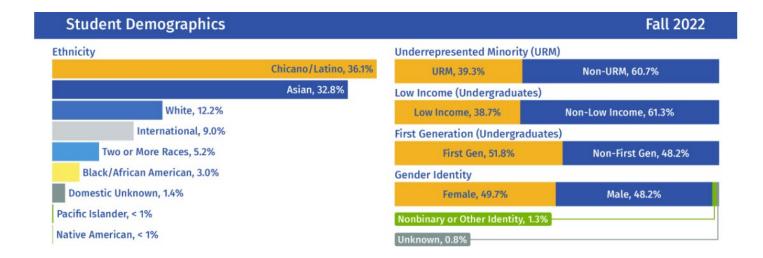
This dedicated section includes comprehensive academic support: academic coaching, peer-tutoring, supplemental instruction, writing assistance, and early alerts. In addition to the academic components, students are provided with a tuition waiver for that course and a small living expenses stipend. All of these resources aim to alleviate burdens on the student, allowing them to focus on passing the foundational course and getting back on track toward degree completion.

University of California, Riverside

Hispanic Serving Institution (HSI); Minority Serving Institution (MSI); Asian American Native American, & Pacific Islander Serving Institution (AANAPSI); Seal of Excelencia; American Association of Universities (AAU)





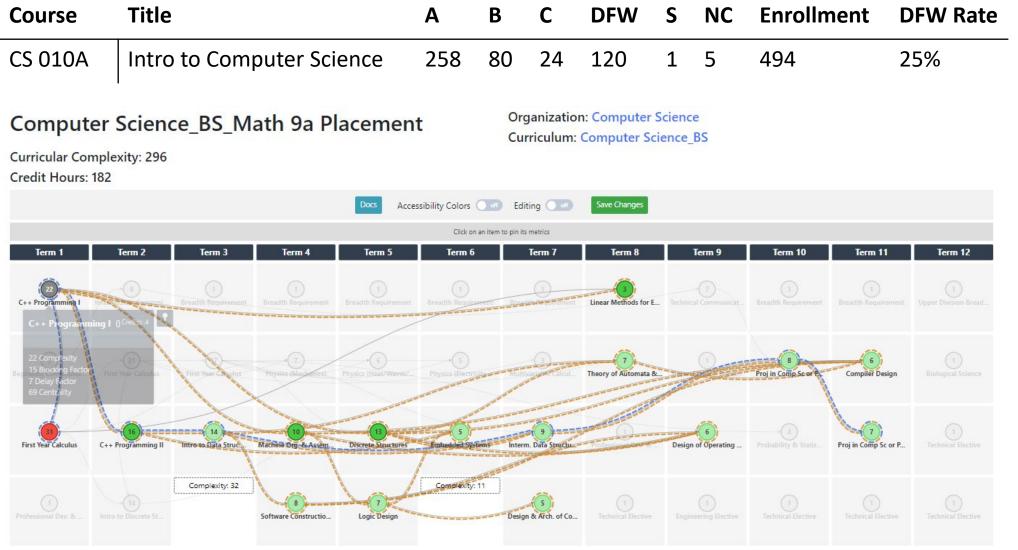


First-Time Full-Time Frosh Retention Rates - Overall

Selection	Fall 2021 Cohort	Fall 2020 Cohort	Fall 2019 Cohort	Fall 2018 Cohort			Fall 2015 Cohort	Fall 2014 Cohort	Fall 2013 Cohort	
Total	5153	4823	4751	4525	4577	5345	4018	4272	4185	4001
Year 1	87.4%	88.2%	91.0%	89.7%	89.2%	88.9%	91.3%	91.0%	89.6%	89.0%



Course Selection Based on Fall 2022 DFW Rate





CS 010A – F22

DFW Rates by Demographic



	l	Fall 2022	
Low In	come	Not Low	Income
35%	144	21%	350
Average DFW Rate	Total Enrollment	Average DFW Rate	Total Enrollment

Fall 2022					
UR	М	Not URM			
35%	113	22%	381		
Average DFW Rate	Total Enrollment	Average DFW Rate	Total Enrollment		

DFW Rates by Underrepresented Minority (URM) Status, Low Income Status, and First Gen Status Compare by URM Status and Low Income Status URM Status and First Gen Status Low Income Status and First Gen Status 40% • • • • 30% • • • •

20%	•



0% Fall 2022							
URM Low Income		URM Not Low Income			URM ncome	Not URM Not Low Income	
41%	69 Enrollment	27%	44 Enrollment	29% DFW Rate	75 Enrollment	21%	306



CS 010A – Summer 2023

Students who first attempted the course from Fall 2020 to Summer 2022 had a **64.1% (66/103) second-attempt pass rate.**

3 Participants

- 67% first-generation
- 67% low-income
- 33% placed into ARC 035: Intermediate Algebra

Summer Session

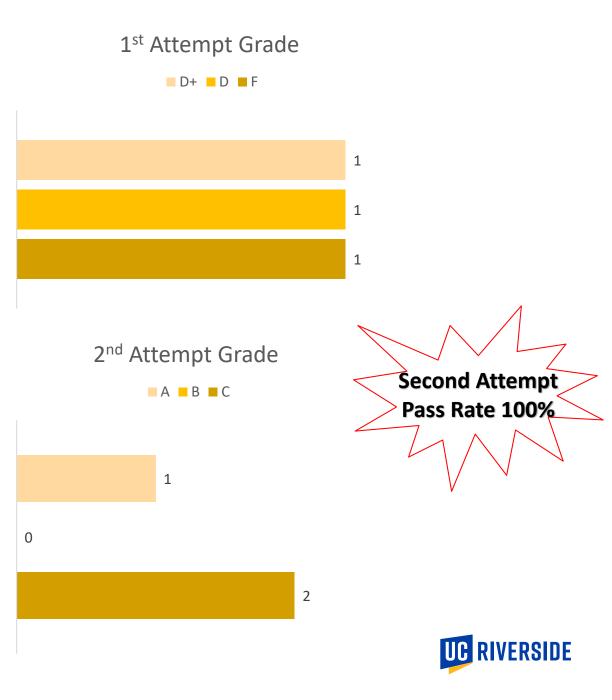
• 5 week course – online lecture and laboratory

Academic Interventions

- Minimum of 2 supplemental instruction sessions per week
 - Attendance ranged from 0 3 sessions
- 3 academic coaching sessions
 - All participants attended 3 sessions

Financial Incentive

\$1,000 grant



CS 010A

Fall 2020 to Summer 2022 First Attempt Demographics

Measure	CS 010A	Ethnicity	
Total Count	103	International	4.9%
		Black / African American	1.0%
Pell Recipient Status		Asian	45.6%
Pell Recipient	57.3%	Chicano / Latino	37.9%
Not Pell Recipient	42.7%	White	3.9%
		Two or More Races	4.9%
Low Income Status		Domestic Unknown	1.9%
Low Income	49.5%		
Not Low Income	50.5%	Entry Type	
		Frosh	88.1%
First Generation Status		Transfer	11.9%
First Generation	50.5%		
Not First Generation	49.5%	Math Placement	
		ARC 35	17.0%
		Precalculus	32.0%
Underrep. Minority Status		Calculus	51.0%
URM	38.8%		
Not URM	61.2%	Student School/College	
	01.270	BCOE	41.7%
Gender Identity		CHASS	4.9%
Female	40.2%	CNAS	51.5%
Male	40.2 <i>%</i> 59.8%	Business	1.9%
Wate	59.0%		

Second-attempt Outcomes

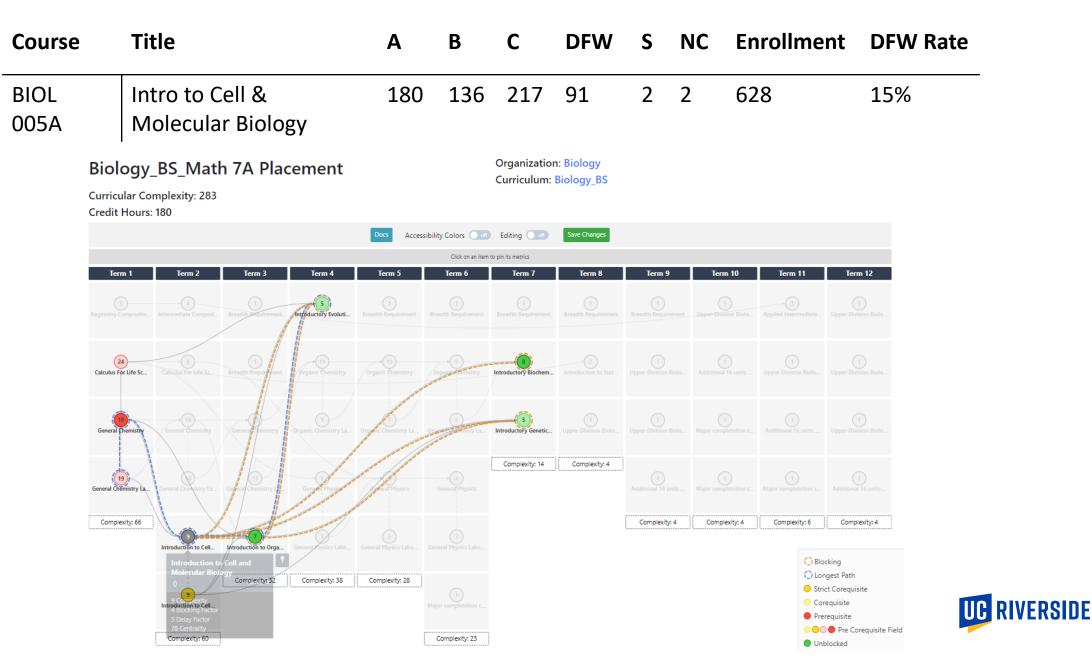
The second-attempt pass rate (66/103 students) for students who first attempted the course from Fall 2020 to Summer 2022 was 64.1%.

	2nd Attem	pt Outcome			2nd Attem	npt Outcome	
Pell Recipient Status	Pass	DFW/NC/I	Total	URM Status	Pass	DFW/NC/I	Total
Pell Recipient	39	20	59	URM	26	14	40
Not Pell Recipient	27	17	44	Not URM	40	23	63
Total	66	37	103	Total	66	37	103
Low Income Status	Pass	DFW/NC/I	Total	College	Pass	DFW/NC/I	Total
Low Income	33	18	51	BCOE	27	16	43
Not Low Income	33	19	52	CNAS	35	18	53
Total	66	37	103	CHASS / Other	4	3	7
				Total	66	37	103
First Gen Status	Pass	DFW/NC/I	Total				
First Gen	32	20	52	Math Placement	Pass	DFW/NC/I	Total*
Not First Gen	34	17	51	ARC 35	10	7	17
Total	66	37	103	Precalculus	19	13	32
				Calculus	35	16	51
				Total*	64	36	100
				*Totals include all	students wi	th nonmissing r	math placement

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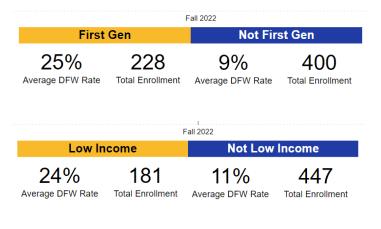


Course Selection Based on Fall 2022 DFW Rate



BIOL 005A – F22

DFW Rates by Demographic





Compare by	URM Status and Low Income Status	URM Status and First Gen Status	Low Income Status and First Gen Status		
		•			
0%					
5%					
%					
%		•			
%		•			
%					
)%		Fall 2022			
URM Low Inc		Not URM come Low Income	Not URM Not Low Income		

Low I	Low Income Not Low Income		Low Ir	ncome	Not Low Income		
34%	85	16%	101	15%	96	10%	346
DFW Rate	Enrollment	DFW Rate	Enrollment	DFW Rate	Enrollment	DFW Rate	Enrollment



BIOL 005A – Summer 2023

Students who first attempted the course from Fall 2020 to Summer 2022 had a **69.7% (101/145 students) second-attempt pass rate.**

21 Participants

- 14% retook lecture and lab
- 76% first-generation
- 57% low-income
- 71% placed into ARC 035: Intermediate Algebra

Summer Session

10-week course – online lecture and discussion

Academic Interventions

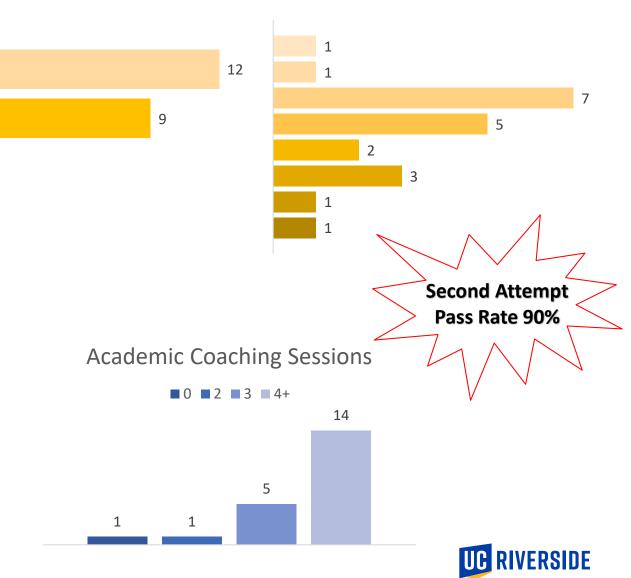
- Minimum of 2 supplemental instruction sessions per week
 - Attendance ranged from 0 to 26 sessions
- 4 academic coaching sessions

Financial Incentive \$1,000 grant



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2nd Attempt Grade

■ F ■ D ■ C ■ C+ ■ B- ■ B ■ B+ ■ A-



Fall 2020 to Summer 2022 First Attempt Demographics

Total Count	145	Ethnicity	
		International	0.7%
Pell Recipient Status		Black / African	
Pell Recipient	54.5%	American	4.1%
Not Pell Recipient	45.5%	Asian	27.6%
		Chicano / Latino	56.6%
Low Income Status		White	7.6%
Low Income	55.2%	Two or More Races	3.4%
Not Low Income	44.8%	Domestic Unknown	
First Generation		Entry Type	
Status		Frosh	93.8%
First Generation	67.6%	Transfer	6.2%
Not First Generation	32.4%		
		Math Placement	
Underrep. Minority		ARC 35	51.4%
Status		Precalculus	22.2%
URM	60.7%	Calculus	26.4%
Not URM	39.3%		
		Student	
Gender Identity		School/College	
Female	76.6%	BCOE	6.2%
Male	23.4%	CHASS	11.0%
		CNAS	82.8%

Second-attempt Outcomes

The second-attempt pass rate (101/145 students) for students who first attempted the course from Fall 2020 to Summer 2022 was 69.7%.

	2nd Attempt Outcome						
Pell Recipient				URM Status	Pass	DFW/NC/I	Total
Status	Pass	DFW/NC/I	Total	URM	64	24	88
Pell Recipient	54	25	79	Not URM	37	20	57
Not Pell Recipient	47	19	66	Total	101	44	145
Total	101	44	145				
				College	Pass	DFW/NC/I	Total
				BCOE	7	2	9
Low Income Status	Pass	DFW/NC/I	Total	CNAS	81	39	120
Low Income	58	22	80	CHASS /			
Not Low Income	43	22	65	Other	13	3	16
Total	101	44	145	Total	101	44	145
				Math			
First Gen Status	Pass	DFW/NC/I	Total	Placement	Pass	DFW/NC/I	Total*
First Gen	66	32	98	ARC 35	52	22	74
Not First Gen	35	12	47	Precalculus	20	12	32
Total	101	44	145	Calculus	29	9	38
				Total*	101	43	144
*Totals include all students with nonmissing						nmissing	

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Second-attempt Pass Comparison Based on Demographic

Data compares the second-pass attempt rate between Accelerator Program 2023 participants (N=21) and students from the Fall 2020 to Summer 2022 first-attempt group (N=145).

