

Science & Technology Division

Course Enrollments and Success by Modality

Prepared and presented by the Office of Planning, Research, and Institutional Effectiveness (PRIE)

February 2, 2024

Student Instructional Modality Preferences Survey: Spring 2023

PRESENTED TO THE PLANNING & BUDGETING COUNCIL (PBC)

MAY 3, 2023

OFFICE OF PLANNING, RESEARCH & INSTITUTIONAL EFFECTIVENESS

Response Rates

3291 students were contacted

- 495 started the survey (15%)
- 354 completed the survey (10.8%)

The responding students were similar to the total list of students

- Hispanic students were slightly less likely to respond, while White and Asian students were slightly more likely to respond
- Female students were slightly more likely to respond than Male students
- Full-time students were slightly more likely to respond than part-time students

majority of subjects, followed by asynchronous online. Only in Digital media were preferences relatively even

Subject Modality Preferences	Asynch Online	Face to Face		Synch Online
Art Studio	23%		•	
Business	35%	19%	18%	28%
Career Technical Classes	24%	30%	20%	25%
Computer Science	31%	26%	18%	24%
Counseling/Career	33%	23%	18%	26%
Digital Media/Computer Art	29%	25%	20%	27%
Health Sciences	21%	34%	24%	21%
Humanities	31%	29%	21%	19%
Lab activities	16%	55%	17%	13%
Languages	27%	30%	20%	23%
Lectures (general)	33%	23%	21%	23%
Math	24%	35%	20%	21%
Music Labs	18%	53%	18%	11%
Physical Education (P.E.)	25%	53%	11%	11%
Science Classes	19%	38%	22%	20%
Science Labs	14%	53%	20%	13%
Social Sciences	38%	21%	21%	21%

Departmental Overview: Fall & Spring 2023 and Fall 2022

	Enr	ollment C	ounts by	Modalit	;y		Success	Rates by Mo	odality		Differe	- Percentagence Compa ace-to-Face	ared to
Subject	FACE TO FACE	HYBRID	ONLINE	SYNC	Total	FACE TO FACE	HYBRID	ONLINE	SYNC	Overall	HYBRID	ONLINE	SYNC
ASTR	53	26	363	26	468	58%	54%	67%	65%	66%	-4.6%	9.0%	6.9%
BIOL	351	980	1075	113	2519	67%	83%	75%	72%	77%	16.1%	8.4%	5.0%
CHEM	113	442	407	57	1019	79%	67%	67%	35%	66%	-11.6%	-12.2%	-43.7%
CIS	143	25	615	11	794	77%	68%	67%	55%	69%	-8.9%	-9.4%	-22.4%
ENGR	12	144	84	45	285	100%	78%	80%	69%	78%	-21.5%	-20.2%	-31.1%
ENVS	105		113		218	82%		73%		77%		-9.3%	
FSE.			25		25			80%		80%			
GEOG		38			38		66%			66%			
GEOL		8	12	22	42		63%	42%	64%	57%			
MATH	1397	289	1291	903	3880	67%	72%	70%	67%	68%	5.1%	3.5%	0.0%
METE			39		39			82%		82%			
OCEN			344	199	543			88%	61%	78%			
PALT	5	11			16	100%	100%			100%	0.0%		
PHYS	27	57	350	46	480	56%	68%	84%	43%	77%	12.9%	28.7%	-12.1%
RADT	358	11	11		380	95%	100%	100%		95%	5.0%	5.0%	
Grand Total	2564	2031	4729	1422	10746	72%	76%	73%	64%	72%	4.1%	0.9%	-8.1%

Departmental Overview: Fall 2023 ONLY

	Enrollr	ment Count	ts by Moda	lity Fall 202	23 only	Succ	cess Rates l	by Modality	only	Differe	- Percentagence Compa	red to	
Subject	FACE TO FACE	HYBRID	ONLINE	SYNC	Total	FACE TO FACE	HYBRID	ONLINE	SYNC	Overall	HYBRID	ONLINE	SYNC
ASTR	27		151		178	56%		68%		66%		12%	
BIOL	112	386	352	37	887	60%	83%	74%	59%	75%	23%	14%	0%
CHEM	103	133	84	22	342	78%	73%	77%	41%	73%	-5%	0%	-37%
CIS	55	16	251		322	84%	63%	67%		70%	-21%	-16%	
ENGR		28	27	23	78		82%	74%	70%	76%			
ENVS	42		40		82	76%		80%		78%		4%	
FSE.			23		23			78%		78%			
GEOG		17			17		76%			76%			
GEOL				22	22				64%	64%			
MATH	541	112	430	305	1388	68%	64%	69%	66%	68%	-4%	1%	-2%
METE			25		25			80%		80%			
OCEN			142	70	212			87%	61%	79%			
PALT		3			3		100%			100%			
PHYS		9	133	17	159		56%	81%	53%	77%			
RADT	131				131	95%				95%			
Grand Total	1011	704	1658	496	3869	73%	77%	73%	64%	72%	4%	1%	-9%

Division-wide Disproportionate Course Success by Population by Modality

Student Population	Face to Face	Online	Hybrid	Synchronous
Female				
Asian				
Black Non-Hispanic	YES			
Filipino				
Hispanic	YES	YES	YES	YES
Multirace				
Pacific Islander		YES		
White Non-Hispanic				
Ages 18-22	YES			
Ages 23-28		YES		
First Generation Student	YES	YES	YES	YES
Low Income Student	YES	YES		

Source: PRIE Equity & Disproportionate Impact Dashboard, 2022

Division-wide Disproportionate Access by Population by Modality

Student Population	Face to Face	Online	Hybrid	Synchronous
Female	YES	YES	YES	YES
Asian				
Black Non-Hispanic				
Filipino				
Hispanic				
Multirace				
Pacific Islander				
White Non-Hispanic				
Ages 18-22				
Ages 23-28				
First Generation Student				
Low Income Student				

Source: PRIE Equity & Disproportionate Impact Dashboard, 2022-23

Astronomy

Fall & Spring 2023 and Fall 2022

			Enrollme	ent Counts by	Modality			Succe	ss Rates by M	odality			- Percentage mpared to Fa	Point Difference ce-to-Face
Subject		FACE TO FACE	HYBRID		SYNCHRON OUS	Total	FACE TO FACE	HYBRID		SYNCHRONO US		HYBRID	ONLINE	SYNCHRONOUS
Subject	Course	FACL	שואטווו	CIVELINE	003	iotai	FACL	שואטווו	OIVLIIVL	UJ	Overall	שואטווו	OIVLIIVL	STIVETIKONOOS
ASTR	ASTR-100	38	18	179	15	250	55%	50%	69%	60%	65%	-5%	14%	5%
ASTR	ASTR-101	15	5	184	11	. 218	67%	63%	66%	73%	66%	-4%	-1%	6%

Biology Fall & Spring 2023 and Fall 2022

			Enrollme	nt Counts by	Modality			Succe	ss Rates by M			- Percentage mpared to Fa	Point Difference ce-to-Face	
Subject	Course	FACE TO FACE	HYBRID		SYNCHRON OUS		FACE TO FACE	HYBRID		SYNCHRONO US		HYBRID	ONLINE	SYNCHRONOUS
BIOL	BIOL-100			222		222			64%	,	64%	,		
BIOL	BIOL-110		238	106)	344		82%	83%	,	83%	,		
BIOL	BIOL-130	243		492	65	800	63%		77%	62%	72%	,	14%	-2%
BIOL	BIOL-132	50		19)	69	74%		68%	,	72%	,	-6%	,
BIOL	BIOL-225		68			68		82%			82%			
BIOL	BIOL-230		69			69		88%			88%			
BIOL	BIOL-240		242		36	278		86%		86%	86%			
BIOL	BIOL-250	54	175	43	12	284	72%	76%	95%	83%	79%	4%	23%	11%
BIOL	BIOL-260		188			188		84%			84%			
BIOL	BIOL-310			193		193			74%	,	74%			
BIOL	BIOL-695	4				4	100%				100%			
BIOL	BIOL Total	351	980	1075	113	2519	67%	83%	75%	72%	77%	16%	8%	5%

Chemistry Fall & Spring 2023 and Fall 2022

			Enrollme	nt Counts by	Modality			Succe	ss Rates by M	odality			Percentage I	Point Difference ce-to-Face
		FACE TO			SYNCHRON		FACE TO			SYNCHRONO				
Subject	Course	FACE	HYBRID	ONLINE	ous	Total	FACE	HYBRID	ONLINE	US	Overall	HYBRID	ONLINE	SYNCHRONOUS
CHEM	CHEM-192			31	. 57	88	8		90%	35%	55%			
CHEM	CHEM-210	32	259	203	3	494	72%	68%	68%		68%	-4%	-4%	
CHEM	CHEM-220	29	104	53	3	186	93%	72%	74%		76%	-21%	-20%	
CHEM	CHEM-231	13	25			38	69%	48%	,)		55%	-21%		
CHEM	CHEM-232	9)			9	89%				89%			
CHEM	CHEM-410	29	54	120)	203	72%	65%	55%		60%	-8%	-17%	
CHEM	CHEM-695	1				1	100%				100%			

Computer Information Science (CIS)

Fall & Spring 2023 and Fall 2022

			Enrollme	nt Counts by	Modality			Succe	ss Rates by Mo	odality			- Percentage I mpared to Fa	Point Difference ce-to-Face
CIS	CIS-118			266		266			65%		65%			
CIS	CIS-122			57		57			49%		49%			
CIS	CIS-242	53				53	81%				81%			
CIS	CIS-250	19	25	179		223	68%	68%	74%		73%	0%	5%	
CIS	CIS-252	58				58	72%				72%			
CIS	CIS-262	13				13	92%				92%			
CIS	CIS-284			80		80			68%		68%			
CIS	CIS-286			33	11	44	·		88%	55%	80%			
CIS	CIS Total	143	25	615	11	794	77%	68%	67%	55%	69%	-9%	-9%	-22%

Engineering Fall & Spring 2023 and Fall 2022

			Enrollme	nt Counts by	Modality			Succes	ss Rates by Mo	odality			Percentage I	Point Difference ce-to-Face
ENGR	ENGR-100		74	52		126		77%	73%		75%			
ENGR	ENGR-210		24		45	69		83%		69%	74%			
ENGR	ENGR-215		17			17		47%			47%			
ENGR	ENGR-230		3	24		27		100%	88%		89%			
ENGR	ENGR-260		7	8		15		100%	100%		100%			
ENGR	ENGR-261	12				12	100%				100%			
ENGR	ENGR-270	·	19			19		95%			95%			
ENGR	ENGR Total	12	144	84	45	285	100%	78%	80%	69%	78%	-22%	-20%	-31%

Environmental Science

Fall & Spring 2023 and Fall 2022

			Enrollme	nt Counts by	Modality			Succe	ss Rates by Mo	odality		entage Point Difference
ENVS	ENVS-101	27	2		- Incuality	27	89%		in the court of th	89	T .	10 1000
ENVS	ENVS-115	78		113		191	79%		73%	75	%	-7%
ENVS	ENVS Total	105		113		218	82%		73%	77	%	-9%

Geology Fall & Spring 2023 and Fall 2022

		Enrollme	nt Counts by	Modality		Succes	ss Rates by M	odality		- Percentage mpared to Fa	Point Difference
GEOL	GEOL-100	8	12	22	42	63%	429	64%	57%		
GEOL	GEOL Total	8	12	22	42	63%	429	64%	57%		

Mathematics Fall & Spring 2023 and Fall 2022

			Enrollme	nt Counts by	Modality			Succes	ss Rates by Mo	Success - Percentage Point Difference Compared to Face-to-Face				
MATH	MATH-110			31	-	31			87%		87%		-	
MATH	MATH-120		16	146		162		94%	88%		89%			
MATH	MATH-200	470		485	481	1436	62%		56%	61%	60%		-5%	0%
MATH	MATH-225	263	9	87	21	380	63%	56%	62%	67%	63%	-8%	-1%	3%
MATH	MATH-241	56	13	41	26	136	75%	62%	83%	100%	81%	-13%	8%	25%
MATH	MATH-243	13				13	92%				92%			
MATH	MATH-251	156	47	130	36	369	81%	66%	76%	64%	76%	-15%	-5%	-18%
MATH	MATH-252		108	88	86	282		75%	85%	74%	78%			
MATH	MATH-253	51	37	63	75	226	96%	89%	76%	72%	81%	-7%	-20%	-24%
MATH	MATH-270	32	5	73	34	144	100%	100%	85%	82%	88%	0%	-15%	-18%
MATH	MATH-275	4	10	61	46	121	100%	90%	79%	72%	78%	-10%	-21%	-28%
MATH	MATH-800	219			77	296	58%			62%	59%			5%
MATH	MATH-825	109	9	86	21	225	57%	67%	65%	76%	62%	10%	8%	19%
MATH	MATH-841	24				24	79%				79%			
MATH	MATH-145		35			35		40%			40%			
MATH	MATH Total	1397	289	1291	903	3880	67%	72%	70%	67%	68%	5%	4%	0%

Oceanography Fall & Spring 2023 and Fall 2022

		Enrollme	nt Counts by	Modality		Success Rates by Modality					Success - Percentage Point Difference Compared to Face-to-Face		
OCEN	OCEN-100		344	94	438			88%	61%	82%			
OCEN	OCEN-101			105	105				62%	62%			
OCEN	OCEN Total		344	199	543			88%	61%	78%			

Physics Fall & Spring 2023 and Fall 2022

			Enrollme	nt Counts by	Modality			Succe	ss Rates by Mo	Success - Percentage Point Difference Compared to Face-to-Face				
PHYS	PHYS-210		14	102		116		43%	77%		73%			
PHYS	PHYS-220		3	51		54		100%	86%		87%			
PHYS	PHYS-250	27	18		46	91	56%	50%		43%	48%	-6%		-12%
PHYS	PHYS-260		16	133		149		100%	83%		85%			
PHYS	PHYS-270		6	29		35		83%	100%		97%			
PHYS	PHYS-405			35		35			91%		91%			
PHYS	PHYS Total	27	57	350	46	480	56%	68%	84%	43%	77%	13%	29%	-12%