



Las Positas College

Discipline Program Review Data Packet

Fall 2018 to Spring 2023

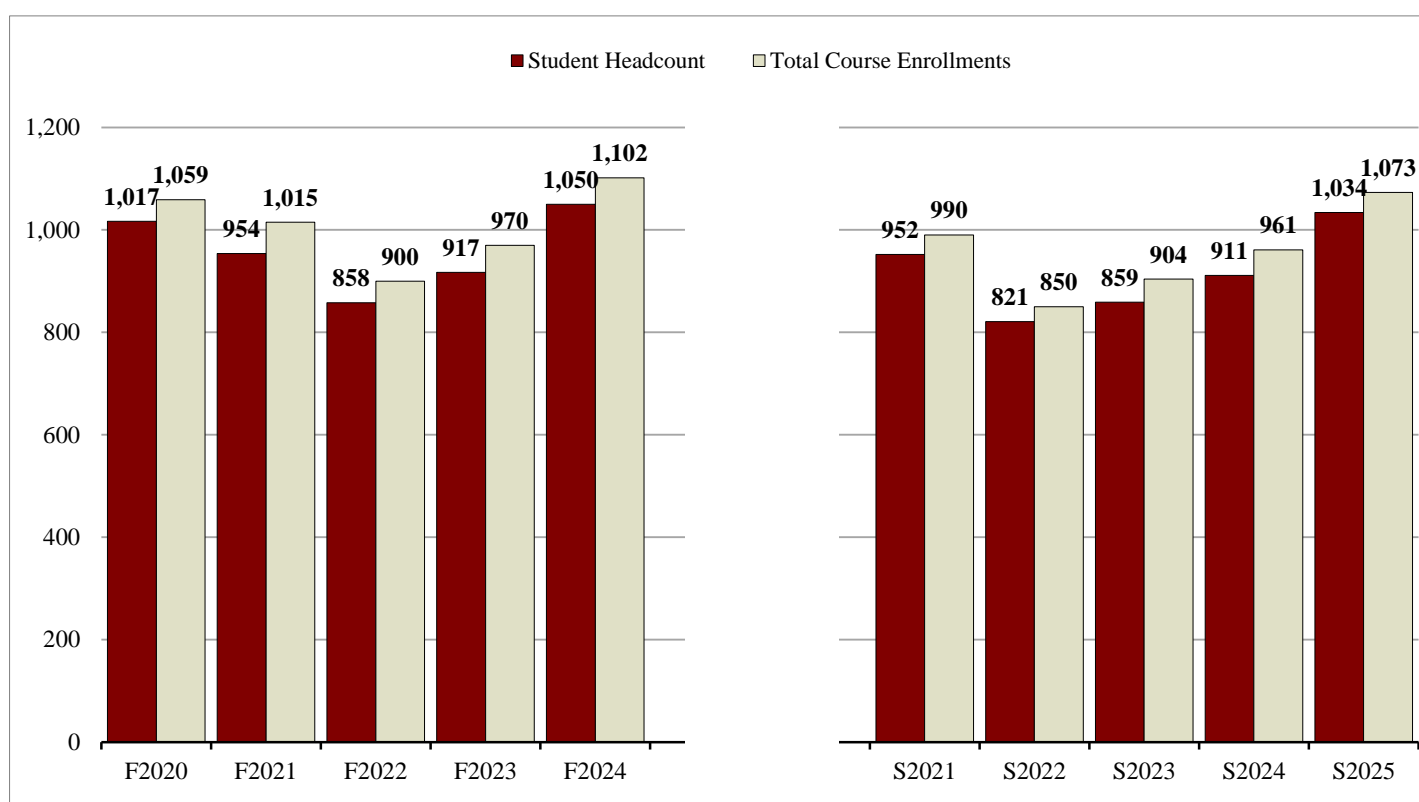
Discipline:

Biological Sciences (BIO)

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Headcount & Enrollment

Biological Sciences (BIO)										
	Fall Terms					Spring Terms				
	F2020	F2021	F2022	F2023	F2024	S2021	S2022	S2023	S2024	S2025
Student Headcount	1,017	954	858	917	1,050	952	821	859	911	1,034
Total Course Enrollments	1,059	1,015	900	970	1,102	990	850	904	961	1,073



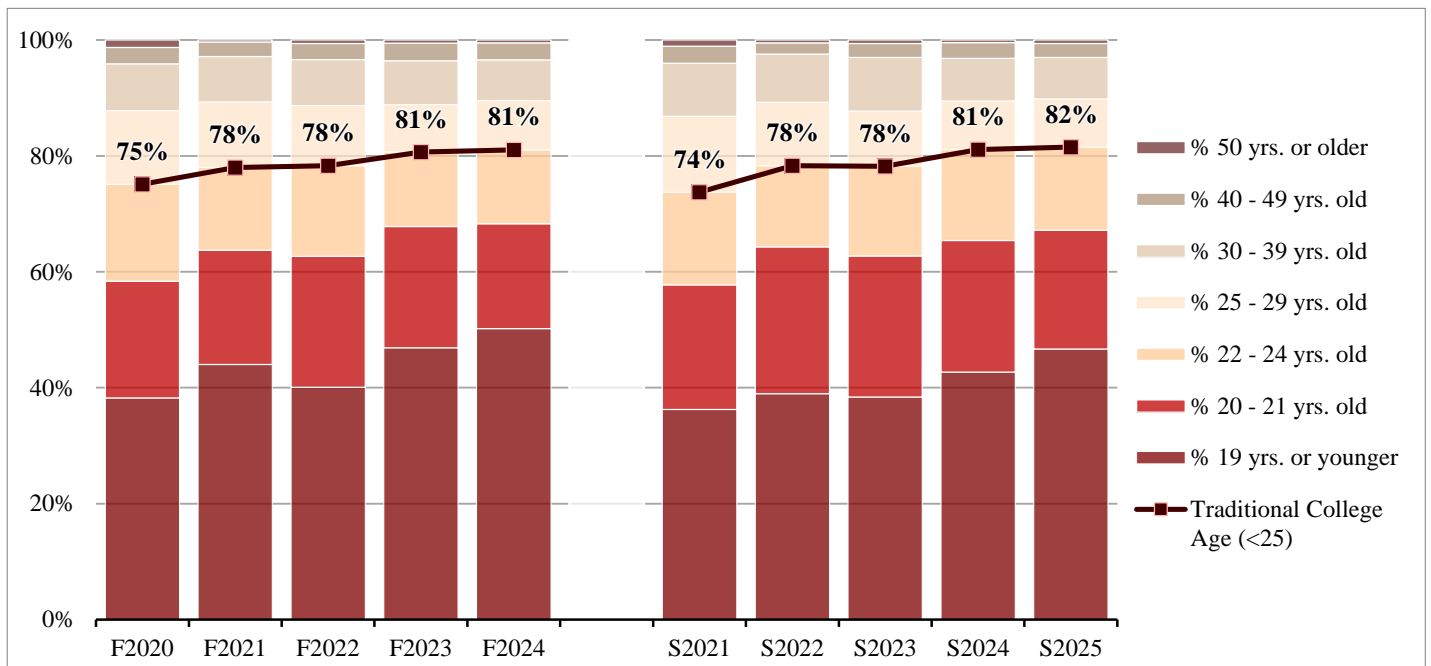
Definitions:

Student Headcount is the unduplicated count of students enrolled in all courses within the discipline.

Total Course Enrollments is the sum of all course enrollments (filled seats) within the discipline.

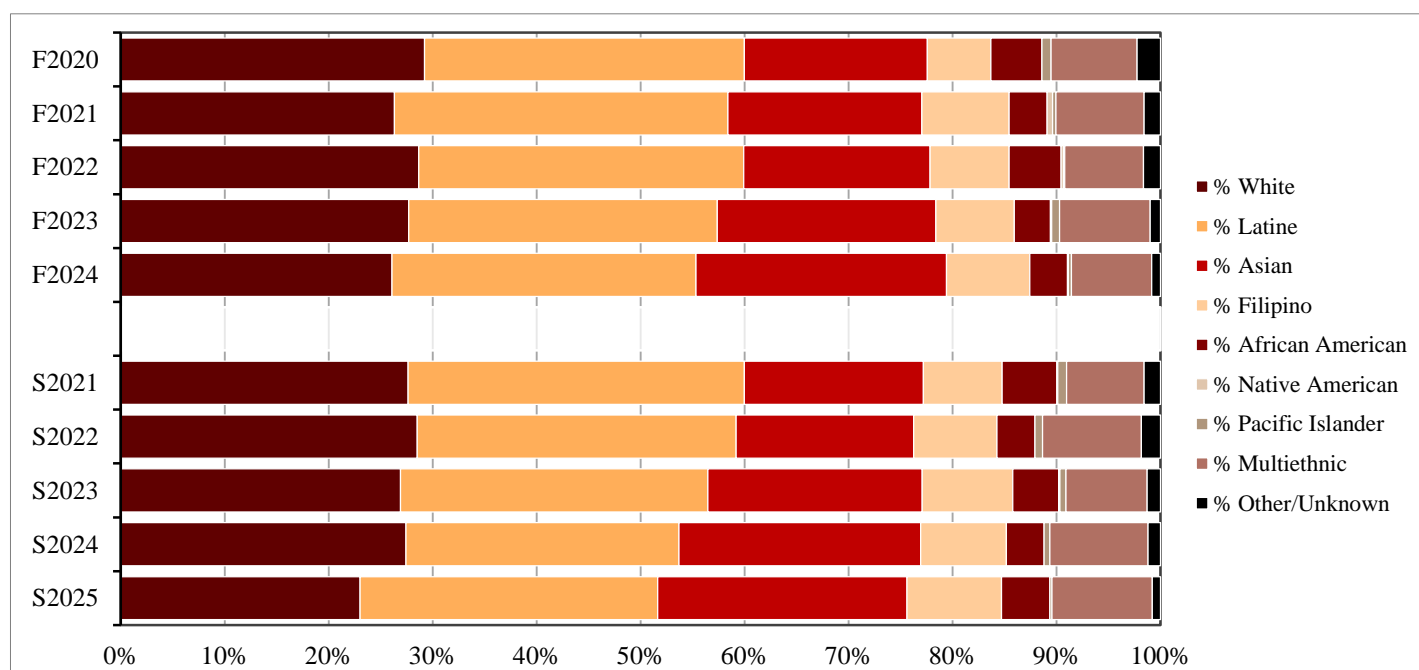
Student Demographics: Gender & Age

Biological Sciences (BIO)										
	Fall Terms					Spring Terms				
	F2020	F2021	F2022	F2023	F2024	S2021	S2022	S2023	S2024	S2025
Female	681	625	547	562	621	603	524	539	551	657
Male	321	316	300	304	369	333	291	305	315	363
19 yrs. or younger	389	420	344	430	527	345	320	330	389	483
20-21 yrs. old	205	188	194	192	190	205	208	209	207	212
22-24 yrs. old	170	136	134	118	134	152	115	133	143	148
25-29 yrs. old	129	108	89	75	89	125	90	82	76	86
30-39 yrs. old	82	75	68	69	74	87	68	79	67	74
40-49 yrs. old	29	24	24	28	31	28	16	21	25	25
50 yrs. or older	13	3	5	5	5	10	4	5	4	6
% Female	68%	66%	65%	65%	63%	64%	64%	64%	64%	64%
% Male	32%	34%	35%	35%	37%	36%	36%	36%	36%	36%
% 19 yrs. or younger	38%	44%	40%	47%	50%	36%	39%	38%	43%	47%
% 20 - 21 yrs. old	20%	20%	23%	21%	18%	22%	25%	24%	23%	21%
% 22 - 24 yrs. old	17%	14%	16%	13%	13%	16%	14%	15%	16%	14%
% 25 - 29 yrs. old	13%	11%	10%	8%	8%	13%	11%	10%	8%	8%
% 30 - 39 yrs. old	8%	8%	8%	8%	7%	9%	8%	9%	7%	7%
% 40 - 49 yrs. old	3%	3%	3%	3%	3%	3%	2%	2%	3%	2%
% 50 yrs. or older	1%	<1%	1%	1%	<1%	1%	<1%	1%	<1%	1%



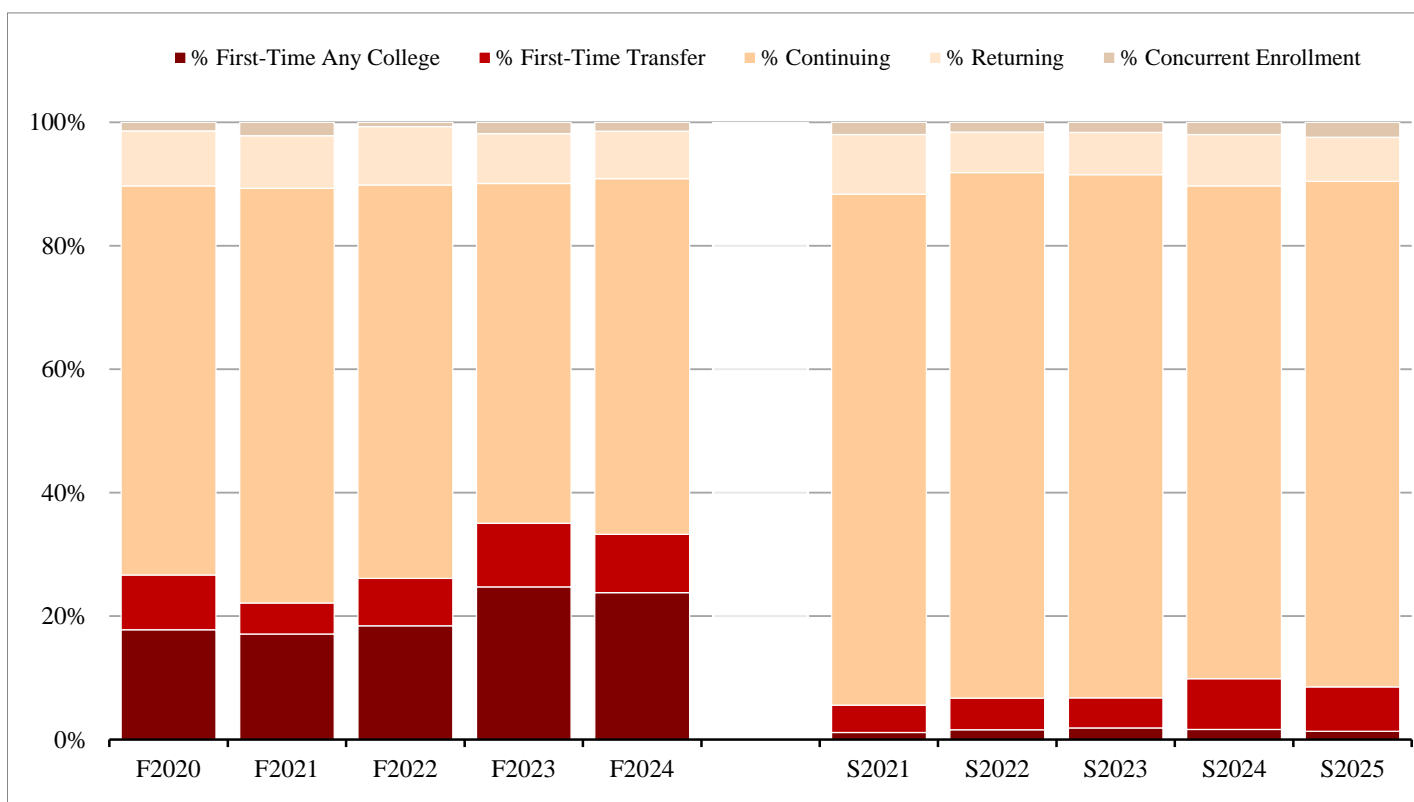
Student Demographic: Race-Ethnicity

Biological Sciences (BIO)										
	Fall Terms					Spring Terms				
	F2020	F2021	F2022	F2023	F2024	S2021	S2022	S2023	S2024	S2025
African American	50	35	43	32	38	50	30	38	33	48
Asian	179	178	154	193	253	164	140	177	212	248
Filipino	62	80	65	69	84	72	66	75	75	94
Latine	313	306	268	272	307	308	252	254	239	296
Native American	0	5	2	1	1	1	0	1	0	0
Pacific Islander	9	3	1	7	3	8	6	5	5	2
White	297	251	246	254	274	263	234	231	250	238
Multiethnic	84	81	65	80	81	71	78	67	86	100
Other/Unknown	23	15	14	9	9	15	15	11	11	8
% African American	5%	4%	5%	3%	4%	5%	4%	4%	4%	5%
% Asian	18%	19%	18%	21%	24%	17%	17%	21%	23%	24%
% Filipino	6%	8%	8%	8%	8%	8%	8%	9%	8%	9%
% Latine	31%	32%	31%	30%	29%	32%	31%	30%	26%	29%
% Native American	0%	1%	<1%	<1%	<1%	<1%	0%	<1%	0%	0%
% Pacific Islander	1%	<1%	<1%	1%	<1%	1%	1%	1%	1%	<1%
% White	29%	26%	29%	28%	26%	28%	29%	27%	27%	23%
% Multiethnic	8%	8%	8%	9%	8%	7%	10%	8%	9%	10%
% Other/Unknown	2%	2%	2%	1%	1%	2%	2%	1%	1%	1%



Student Enrollment Status

Biological Sciences (BIO)										
	Fall Terms					Spring Terms				
	F2020	F2021	F2022	F2023	F2024	S2021	S2022	S2023	S2024	S2025
First-Time Any College	181	163	158	227	250	11	13	16	15	14
First-Time Transfer	90	48	66	94	99	42	42	42	75	74
Continuing	641	641	547	505	605	788	699	728	727	847
Returning	91	81	81	74	81	92	54	59	76	74
Concurrent Enrollment	14	21	6	17	15	19	13	14	18	25
% First-Time Any College	18%	17%	18%	25%	24%	1%	2%	2%	2%	1%
% First-Time Transfer	9%	5%	8%	10%	9%	4%	5%	5%	8%	7%
% Continuing	63%	67%	64%	55%	58%	83%	85%	85%	80%	82%
% Returning	9%	8%	9%	8%	8%	10%	7%	7%	8%	7%
% Concurrent Enrollment	1%	2%	1%	2%	1%	2%	2%	2%	2%	2%



Definitions:

First-Time Any College: Students enrolled in college for the first time.

First-Time Transfer: Students transferring to LPC in the current semester from another community college or university.

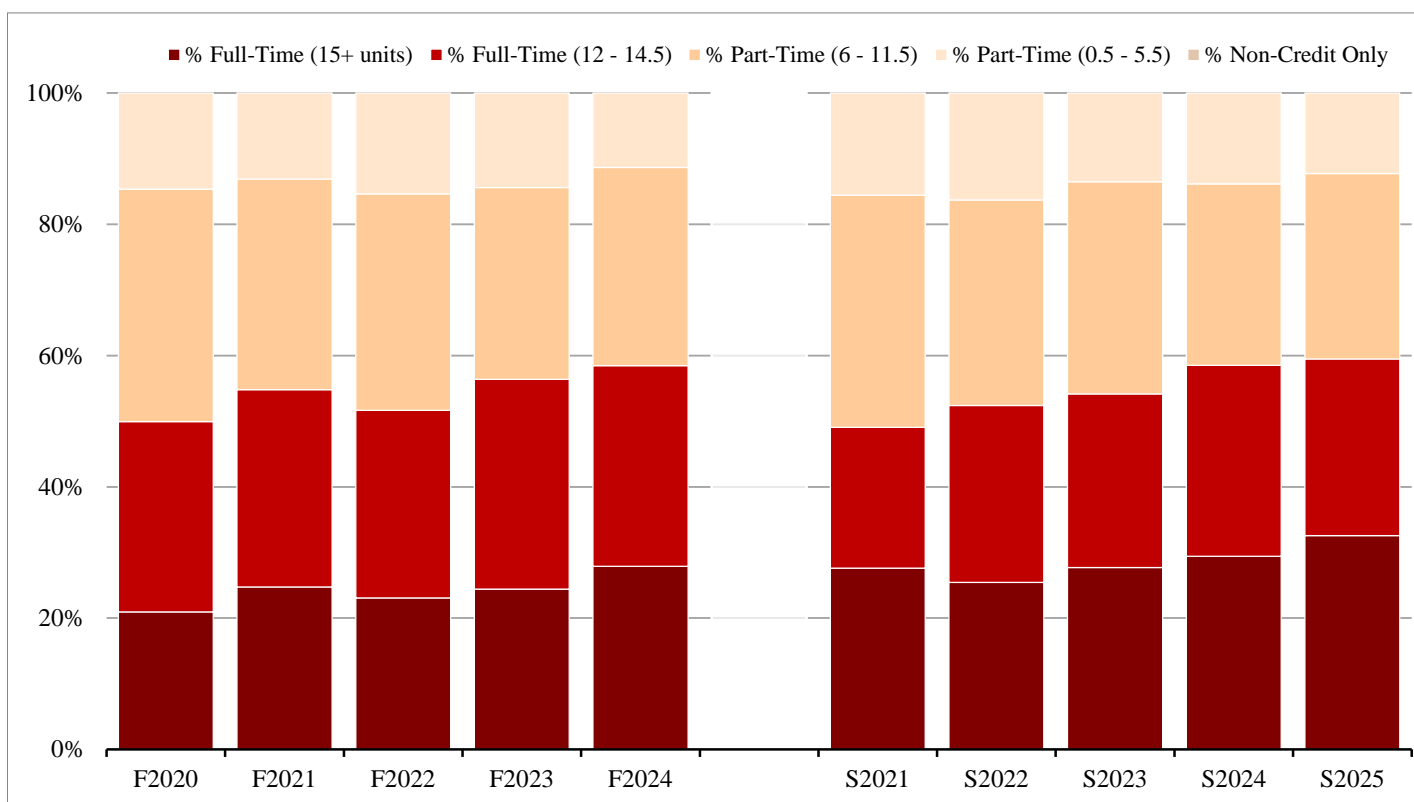
Continuing: Students enrolled in the current semester and were enrolled in the previous primary term. Primary terms are Fall and Spring.

Returning: Students enrolled at LPC after an absence of one or more primary terms from the District.

Concurrent Enrollment: A special admit student currently enrolled in K-12.

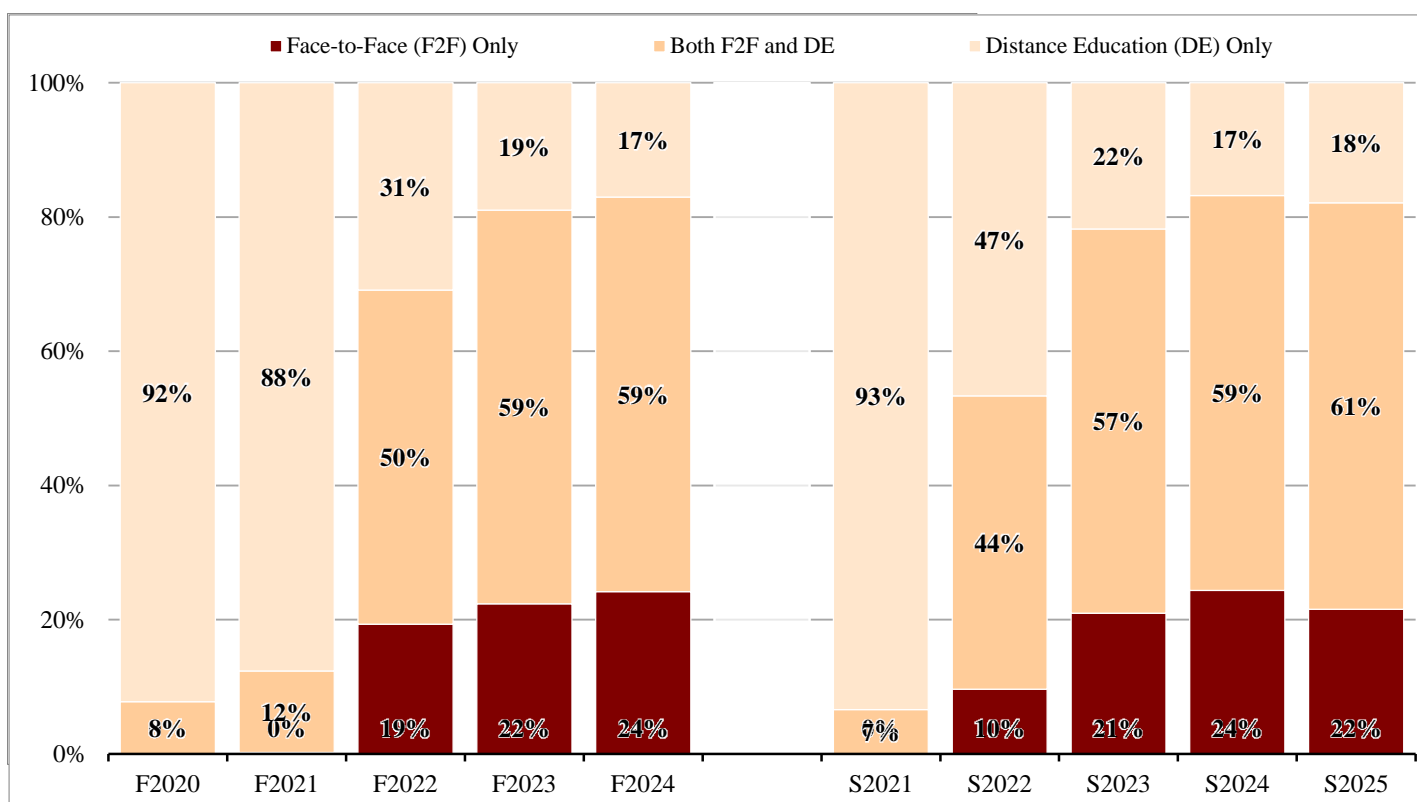
Student Unit Load

Biological Sciences (BIO)										
	Fall Terms					Spring Terms				
	F2020	F2021	F2022	F2023	F2024	S2021	S2022	S2023	S2024	S2025
Full-Time (15+ units)	213	236	198	224	293	263	209	238	268	337
Full-Time (12 - 14.5 units)	295	287	245	293	321	204	221	227	265	278
Part-Time (6 - 11.5 units)	360	306	283	268	317	337	257	278	252	292
Part-Time (0.5 - 5.5 units)	149	125	132	132	119	148	134	116	126	127
Non-Credit Only	0	0	0	0	0	0	0	0	0	0
% Full-Time (15+ units)	21%	25%	23%	24%	28%	28%	25%	28%	29%	33%
% Full-Time (12 - 14.5)	29%	30%	29%	32%	31%	21%	27%	26%	29%	27%
% Part-Time (6 - 11.5)	35%	32%	33%	29%	30%	35%	31%	32%	28%	28%
% Part-Time (0.5 - 5.5)	15%	13%	15%	14%	11%	16%	16%	14%	14%	12%
% Non-Credit Only	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%



Students Using Distance Education

Biological Sciences (BIO)										
<i>(Categories reflect college-wide coursework)</i>	Fall Terms					Spring Terms				
	F2020	F2021	F2022	F2023	F2024	S2021	S2022	S2023	S2024	S2025
Face-to-Face (F2F) Only	0	2	166	205	254	0	79	180	222	223
Both F2F and DE	79	116	427	538	617	63	359	492	536	626
Distance Education (DE) Only	938	837	265	174	179	889	383	187	153	185
% Face-to-Face (F2F) Only	0%	<1%	19%	22%	24%	0%	10%	21%	24%	22%
% Both F2F and DE	8%	12%	50%	59%	59%	7%	44%	57%	59%	61%
% Distance Education (DE) Only	92%	88%	31%	19%	17%	93%	47%	22%	17%	18%



Definitions:

Distance Education (DE) includes enrollments in course sections that deliver course content online. Courses are categorized using the following methods:

Prior to Summer 2020, via section numbers (i.e., start with 'DE', 'HD', 'LD' and 'LO'); courses with 51% of content delivered online.

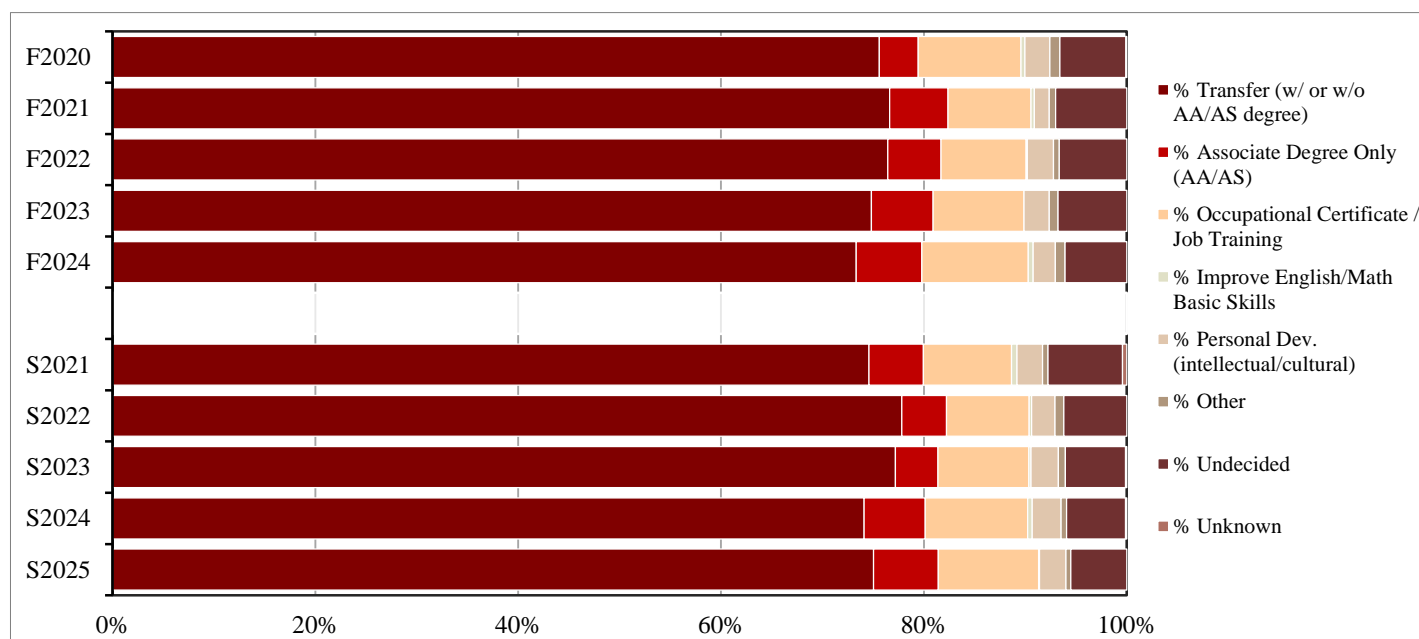
In Summer 2020 and Fall 2020, due to the COVID-19 pandemic, via web comments for each section; identified as any with an online component.

In Spring 2021 and Summer 2021, via section numbers (i.e., 'A##', 'S##', 'B##', 'H##', 'HF#').

Since Fall 2021 to present, via course attributes identifying course modality, or, when no attributes are provided, via section numbers (as previously indicated).

Student Educational Goal

Biological Sciences (BIO)										
	Fall Terms					Spring Terms				
	F2020	F2021	F2022	F2023	F2024	S2021	S2022	S2023	S2024	S2025
Transfer (w/ or w/o AA/AS degree)	769	731	656	686	770	710	639	663	675	776
Associate Degree Only (AA/AS)	39	55	45	56	68	51	36	36	55	66
Occupational Certificate / Job Training	103	78	72	82	110	83	67	77	92	102
Improve English/Math Basic Skills	4	3	1	0	5	5	2	2	4	1
Personal Development (intellectual/cultural)	25	14	22	23	23	24	19	23	26	27
Other	10	6	5	8	10	5	7	6	5	5
Undecided	66	67	57	62	64	70	51	51	53	57
Unknown	1	0	0	0	0	4	0	1	1	0
% Transfer (w/ or w/o AA/AS degree)	76%	77%	76%	75%	73%	75%	78%	77%	74%	75%
% Associate Degree Only (AA/AS)	4%	6%	5%	6%	6%	5%	4%	4%	6%	6%
% Occupational Certificate / Job Training	10%	8%	8%	9%	10%	9%	8%	9%	10%	10%
% Improve English/Math Basic Skills	<1%	<1%	<1%	0%	<1%	1%	<1%	<1%	<1%	<1%
% Personal Dev. (intellectual/cultural)	2%	1%	3%	3%	2%	3%	2%	3%	3%	3%
% Other	1%	1%	1%	1%	1%	1%	1%	1%	1%	<1%
% Undecided	6%	7%	7%	7%	6%	7%	6%	6%	6%	6%
% Unknown	<1%	0%	0%	0%	0%	<1%	0%	<1%	<1%	0%



Definitions:

Transfer: Students who want to transfer to a 4-year university. Includes students enrolled in 4-year institutions completing requirements at LPC.

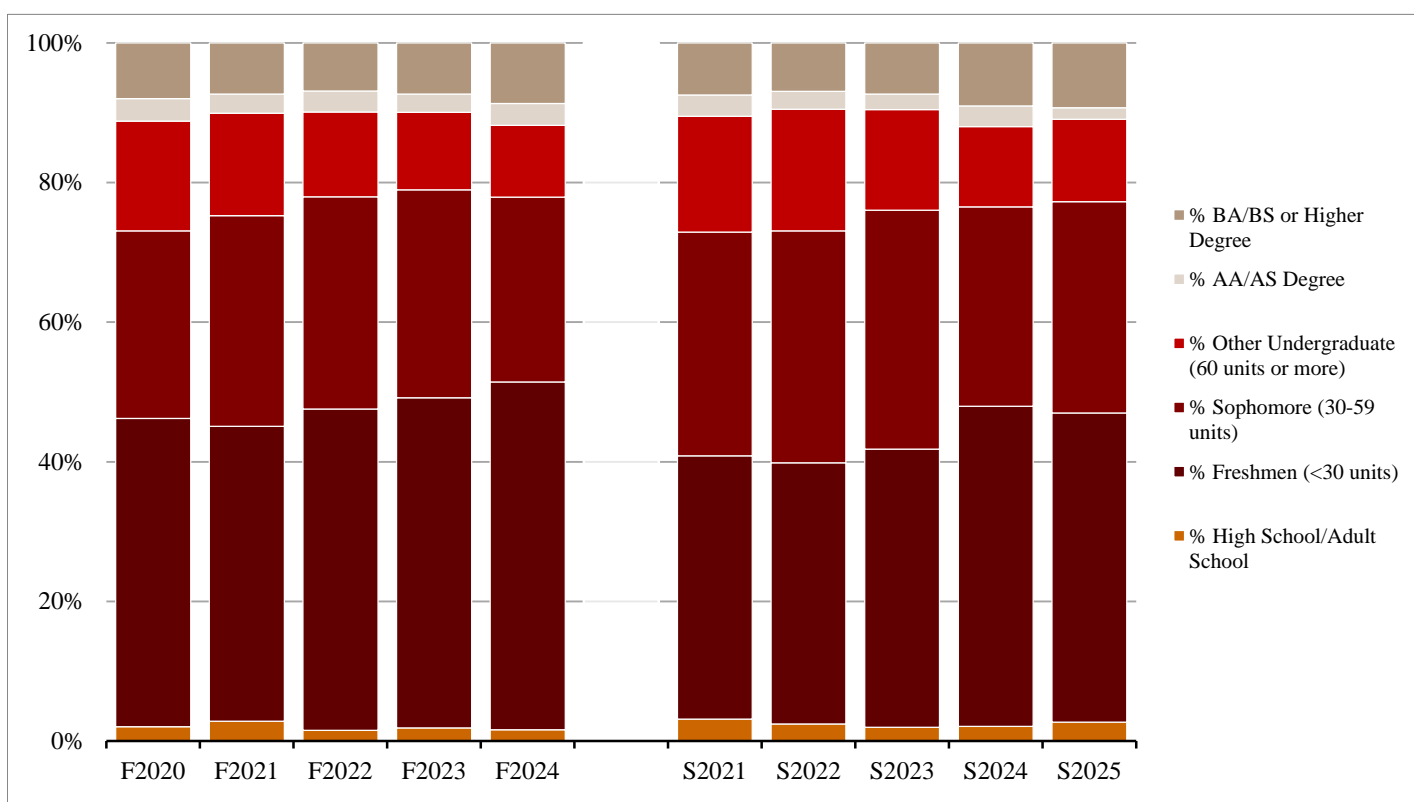
Occupational Certificate/Job Training: Acquire job skills, explore career interests, earn a certificate, or maintain a certificate/license.

Personal Development: Students taking courses for intellectual and/or cultural development.

Other: Students completing diploma/GED requirements or moving from non-credit to credit courses. Data from admission application.

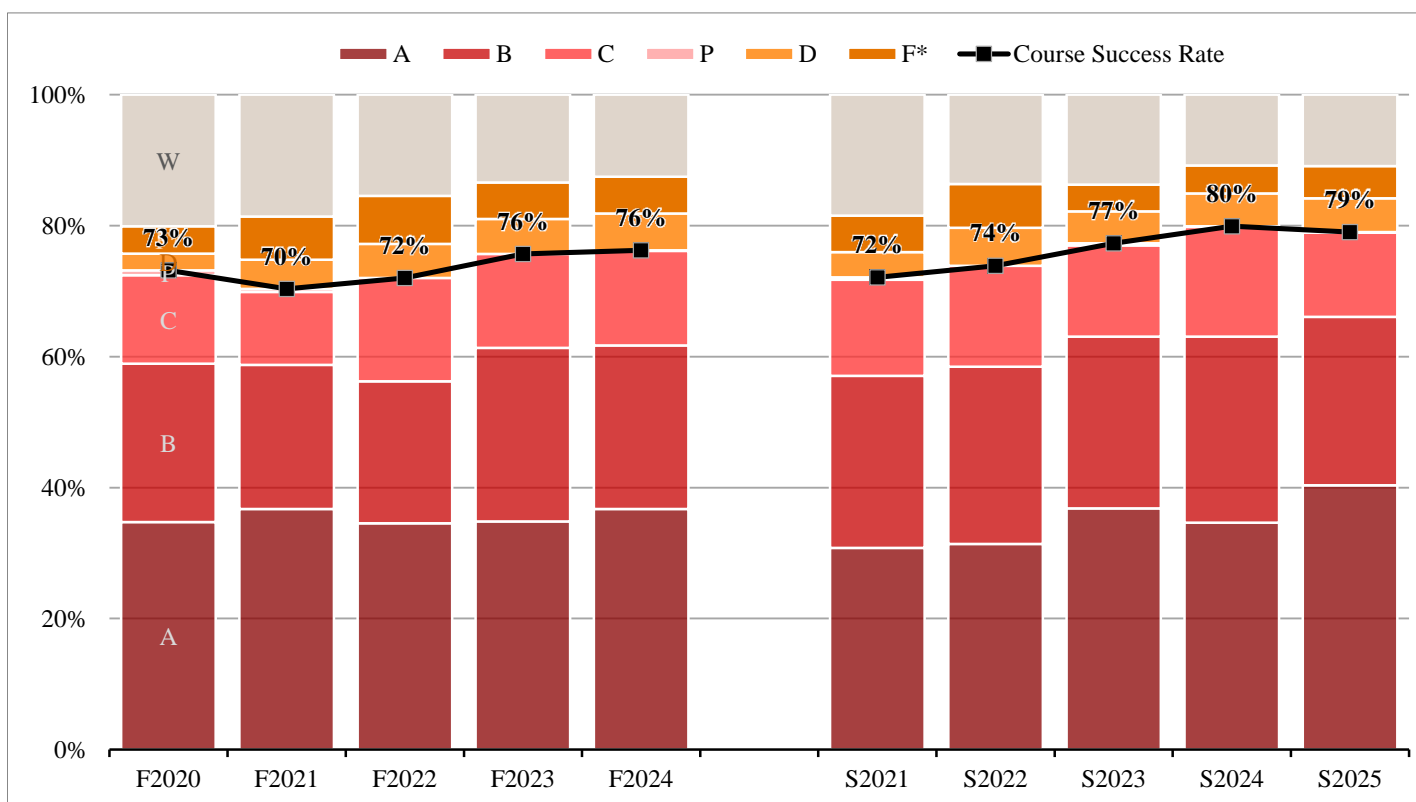
Highest Educational Level of Students

Biological Sciences (BIO)										
	Fall Terms					Spring Terms				
	F2020	F2021	F2022	F2023	F2024	S2021	S2022	S2023	S2024	S2025
High School/Adult School	21	27	13	17	17	30	20	17	19	28
Freshmen (<30 units)	449	403	395	434	523	359	307	342	418	458
Sophomore (30-59 units)	273	288	261	273	278	305	273	294	260	313
Other Undergraduate (60 units or more)	160	140	104	102	108	158	143	124	105	122
AA/AS Degree	33	26	26	24	33	29	21	19	27	17
BA/BS or Higher Degree	81	70	59	67	91	71	57	63	82	96
% High School/Adult School	2%	3%	2%	2%	2%	3%	2%	2%	2%	3%
% Freshmen (<30 units)	44%	42%	46%	47%	50%	38%	37%	40%	46%	44%
% Sophomore (30-59 units)	27%	30%	30%	30%	26%	32%	33%	34%	29%	30%
% Other Undergraduate (60 units or more)	16%	15%	12%	11%	10%	17%	17%	14%	12%	12%
% AA/AS Degree	3%	3%	3%	3%	3%	3%	3%	2%	3%	2%
% BA/BS or Higher Degree	8%	7%	7%	7%	9%	7%	7%	7%	9%	9%



Student Performance: Grade Distribution

Biological Sciences (BIO)										
	Fall Terms					Spring Terms				
	F2020	F2021	F2022	F2023	F2024	S2021	S2022	S2023	S2024	S2025
Total Course Enrollments	1,059	1,015	900	970	1,102	990	850	904	961	1,073
Course Success Rates	73%	70%	72%	76%	76%	72%	74%	77%	80%	79%
A	35%	37%	35%	35%	37%	31%	31%	37%	35%	40%
B	24%	22%	22%	26%	25%	26%	27%	26%	28%	26%
C	14%	11%	16%	14%	14%	15%	15%	14%	17%	13%
P	1%	0%	0%	0%	<1%	<1%	0%	<1%	<1%	<1%
Course Non-Success Rate	7%	11%	13%	11%	11%	9%	12%	9%	9%	10%
D	3%	4%	5%	5%	6%	4%	6%	5%	5%	5%
F*	4%	7%	7%	6%	6%	6%	7%	4%	4%	5%
Withdrawals (See Note)	20%	19%	15%	13%	13%	18%	14%	14%	11%	11%



Definitions:

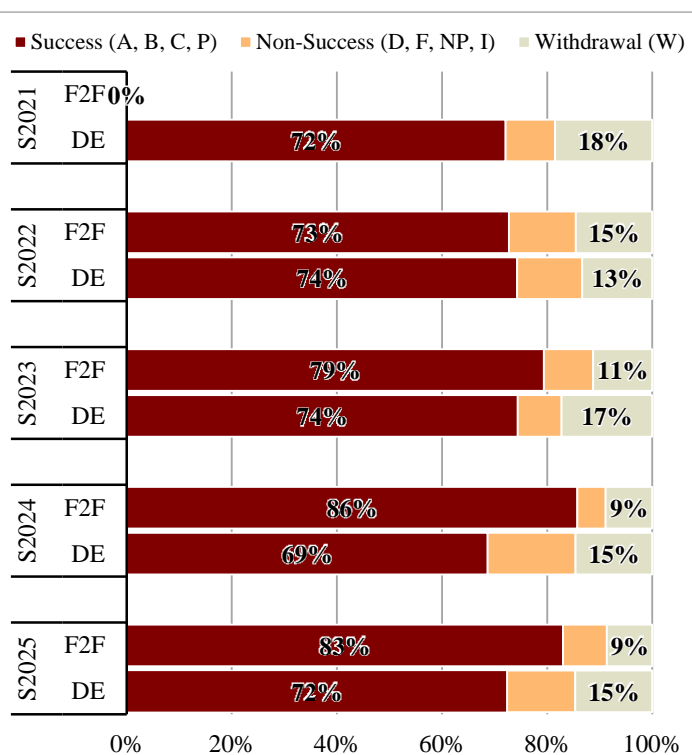
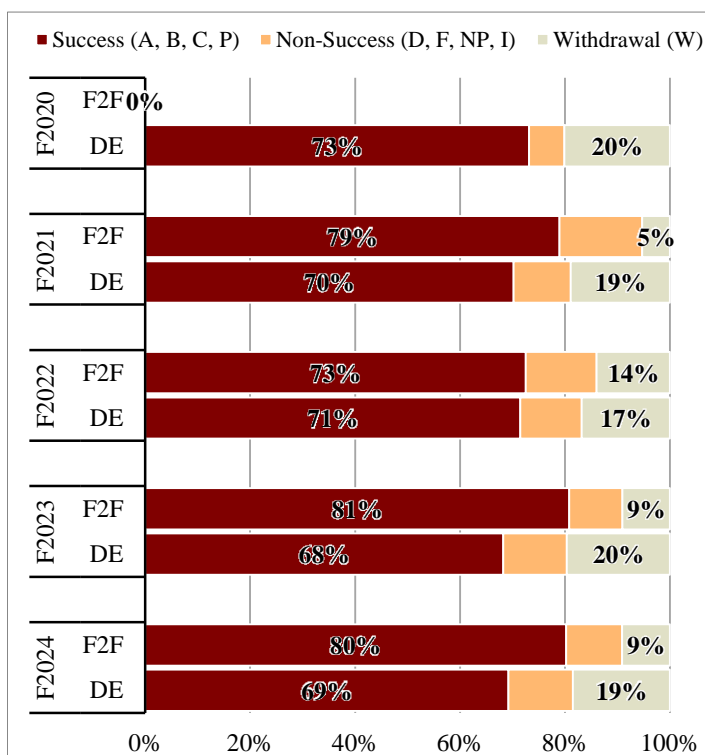
Course Success Rate: Share of course enrollments resulting in a passing grade ('A', 'B', 'C', 'P', 'NCA', 'NCB', 'NCC', or 'NCP').

Course Non-Success Rate: Share of course enrollments resulting in a grade of 'D' or F* (includes: 'F', 'NP', 'T', 'NCD', 'NCF', or 'NCNP').

Withdrawals are the share of course enrollments resulting in (1) a grade notation of 'W', 'MW', or 'EW', or, (2) a course dropped due to COVID-19.

Student Performance: Distance Education

Biological Sciences (BIO)										
	Fall Terms					Spring Terms				
	F2020	F2021	F2022	F2023	F2024	S2021	S2022	S2023	S2024	S2025
Total Course Enrollments	1,059	1,015	900	970	1,102	990	850	904	961	1,073
Face-to-Face (F2F) Sections	0	19	437	573	702	0	220	533	632	671
Success Rates	—	79%	73%	81%	80%	—	73%	79%	86%	83%
Non-Success Rates	—	16%	14%	10%	11%	—	13%	9%	5%	8%
Withdrawals	—	5%	14%	9%	9%	—	15%	11%	9%	9%
Distance Education (DE) Sections	1,059	996	463	397	400	990	630	371	329	402
Success Rates	73%	70%	71%	68%	69%	72%	74%	74%	69%	72%
Non-Success Rates	7%	11%	12%	12%	12%	9%	12%	8%	17%	13%
Withdrawals	20%	19%	17%	20%	19%	18%	13%	17%	15%	15%



Definitions:

Course Success Rate: Share of course enrollments resulting in a passing grade ('A', 'B', 'C', 'P', 'NCA', 'NCB', 'NCC', or 'NCP').

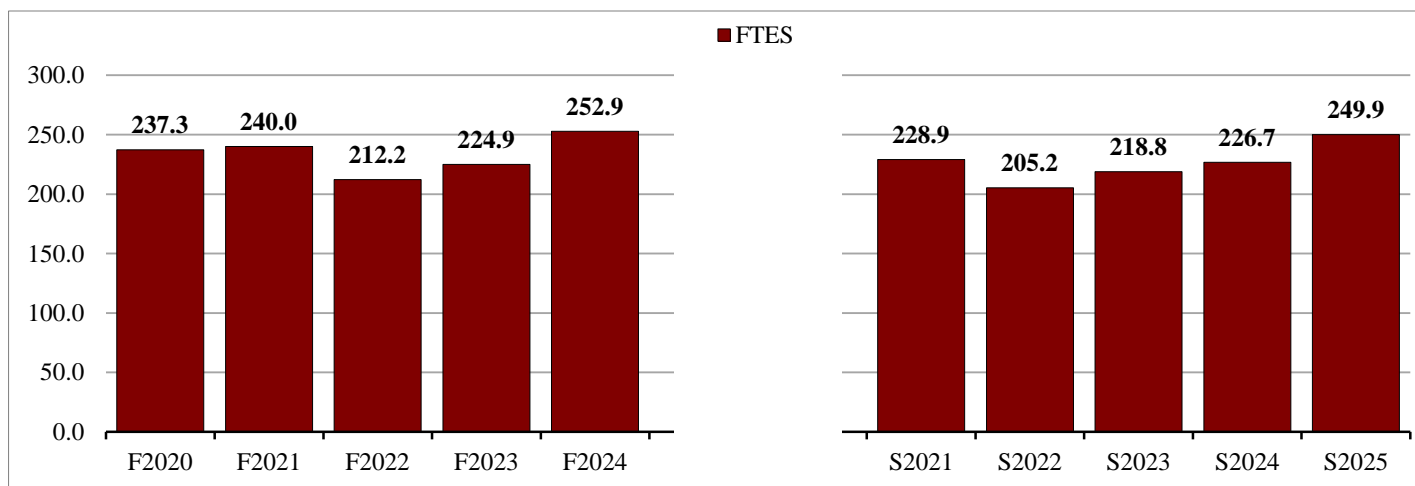
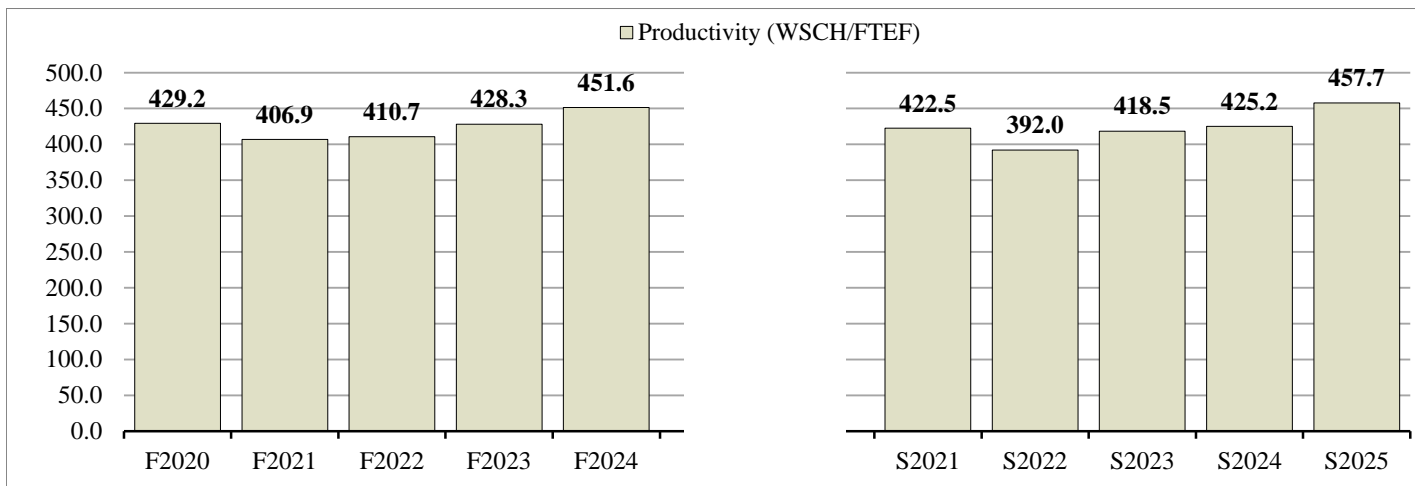
Course Non-Success Rate: Share of course enrollments resulting in a grade of 'D', 'F', 'NP', 'T', 'NCD', 'NCF', or 'NCNP'.

Withdrawals are the share of course enrollments resulting in (1) a grade notation of 'W', 'MW', or 'EW', or, (2) a course dropped due to COVID-19.

Distance Education (DE) includes enrollments in course sections that deliver course content online. (see note in "Students Using Distance Education" for details.)

Enrollment Management: Part 1

	Biological Sciences (BIO)									
	Fall Terms					Spring Terms				
	F2020	F2021	F2022	F2023	F2024	S2021	S2022	S2023	S2024	S2025
WSCH	7,247	7,288	6,491	6,854	7,710	6,938	6,245	6,641	6,926	7,690
FTES	237.3	240.0	212.2	224.9	252.9	228.9	205.2	218.8	226.7	249.9
FTEF	16.9	17.9	15.8	16.0	17.1	16.4	15.9	15.9	16.3	16.8
Productivity (WSCH/FTEF)	429.2	406.9	410.7	428.3	451.6	422.5	392.0	418.5	425.2	457.7



Definitions:

WSCH is the total Weekly Student Contact Hours resulting from all enrollment within the discipline.

FTES is the total Full Time Equivalent Student value resulting from all enrollment within the discipline.

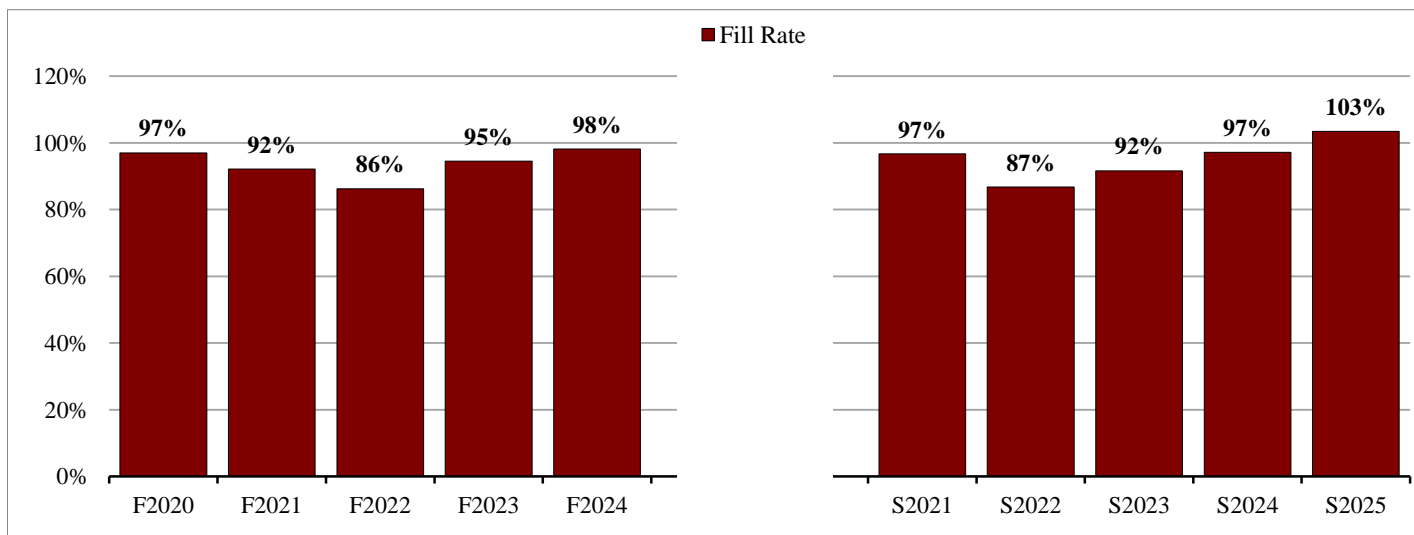
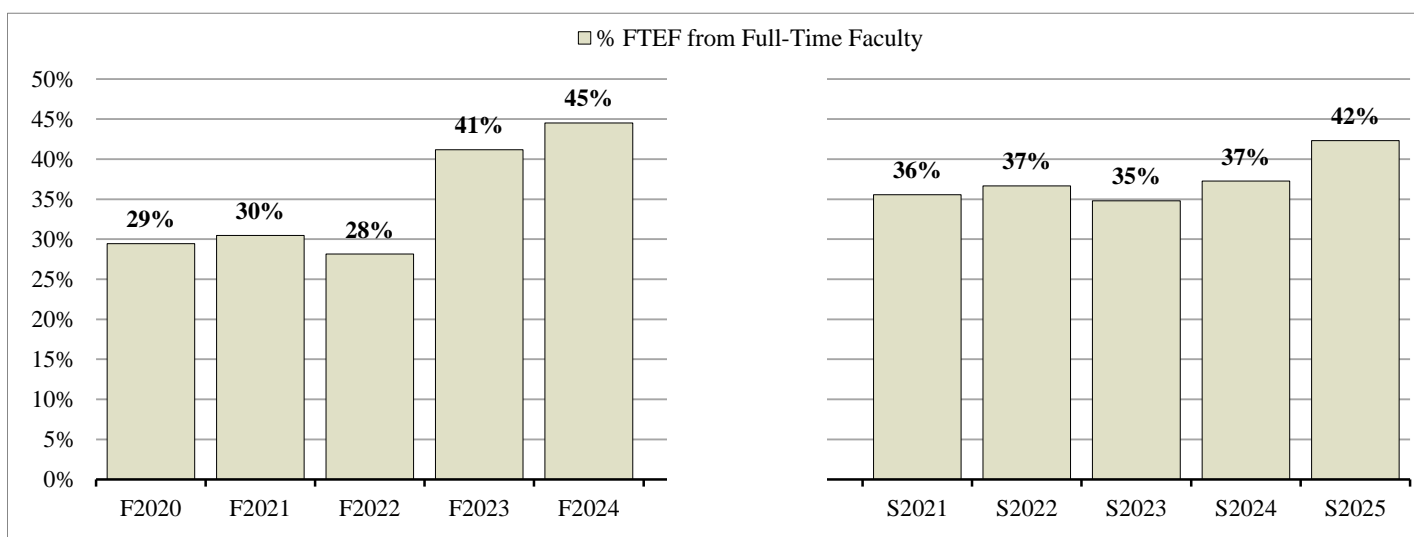
FTEF is the Full Time Equivalent Faculty associated with the discipline's course offerings for that semester.

Productivity is the ratio of WSCH to FTEF and a standard measure of discipline efficiency.

Note: Enrollment Management data are of all courses accounted except NTUT / TUTR 200; latest data accessed on 7/25/23.

Enrollment Management: Part 2

Biological Sciences (BIO)										
	Fall Terms					Spring Terms				
	F2020	F2021	F2022	F2023	F2024	S2021	S2022	S2023	S2024	S2025
FTEF from Full-Time Faculty	5.0	5.5	4.5	6.6	7.6	5.8	5.8	5.5	6.1	7.1
% FTEF from Full-Time Faculty	29%	30%	28%	41%	45%	36%	37%	35%	37%	42%
Enrollments	1,059	1,015	900	970	1,102	990	850	904	961	1,073
Capacity (seats available)	1,092	1,102	1,044	1,026	1,123	1,024	980	987	989	1,037
Fill Rate	97%	92%	86%	95%	98%	97%	87%	92%	97%	103%



Definitions:

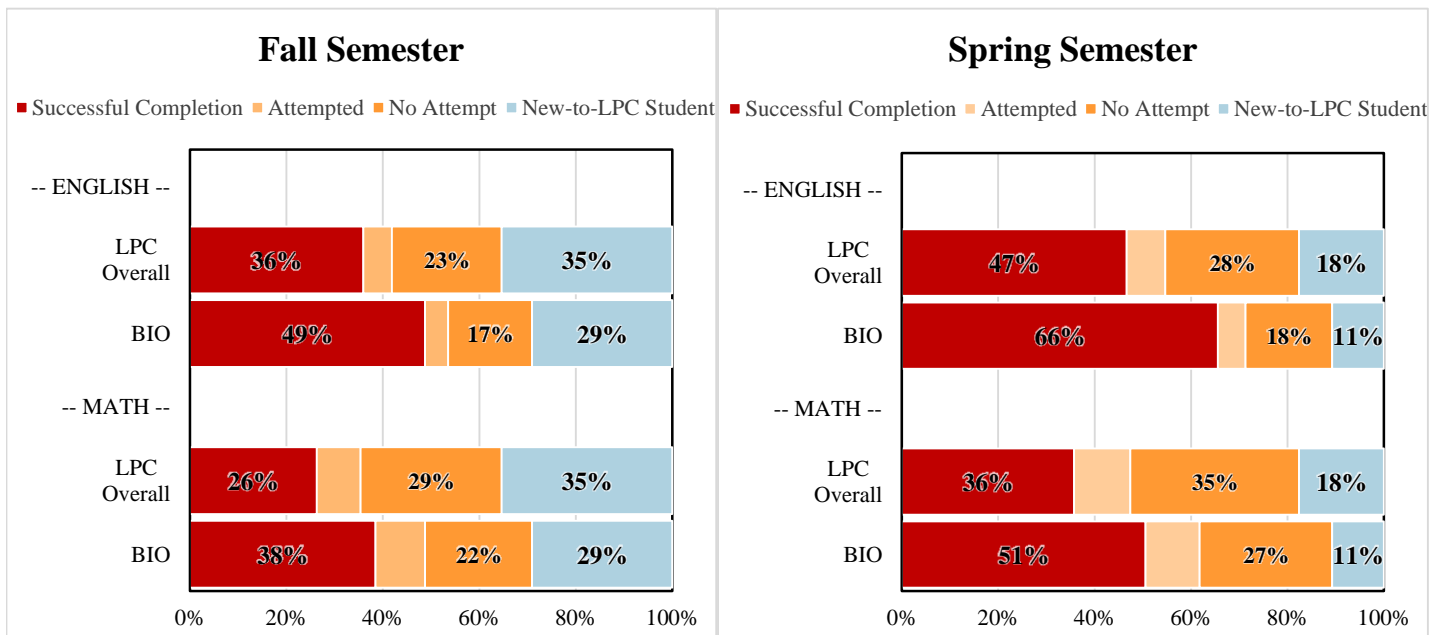
Fill Rate is number of enrollments over the total capacity (seats available).

% FTEF from Full-time Faculty is the FTEF generated by full-time faculty as load (i.e., excluding overload) divided by the total FTEF.

Note: Enrollment Management data are of all courses accounted except NTUT / TUTR 200; latest data accessed on 7/25/23.

Prior Experience in English & Math

(English and math status prior to the start of the term)	Fall 2024				Spring 2025			
	BIO		LPC Overall		BIO		LPC Overall	
	Num	Pct	Num	Pct	Num	Pct	Num	Pct
Transfer-level English								
Successful Completion*	512	49%	2,993	36%	678	66%	3,734	47%
Attempted (not successful)	50	5%	492	6%	59	6%	641	8%
No Attempt	183	17%	1,892	23%	186	18%	2,223	28%
New-to-LPC Student	305	29%	2,946	35%	111	11%	1,409	18%
Transfer-level Math								
Successful Completion*	404	38%	2,189	26%	523	51%	2,859	36%
Attempted (not successful)	108	10%	757	9%	116	11%	935	12%
No Attempt	233	22%	2,431	29%	284	27%	2,804	35%
New-to-LPC Student	305	29%	2,946	35%	111	11%	1,409	18%



Definitions:

Transfer-Level English:

Successful Completion = earned a passing grade in ENG 1A or 1AEX, or attempted a higher transfer-level course in the sequence in prior terms.

Attempted (no successful completion) = attempted ENG 1A or 1AEX in prior terms but did not receive a passing grade.

No Prior Attempt = no prior enrollment in transfer-level English within the sequence.

New-to-LPC Student = students with no for credit enrollments within our district prior to the current term.

Transfer-Level Math:

Successful Completion = earned a passing grade in a transfer-level math course or attempted a higher transfer-level course in the sequence in prior terms.

Attempted (no successful completion) = attempted a entry transfer-level math course in prior terms but did not receive a passing grade.

No Prior Attempt = no prior enrollment in transfer-level math within the sequence.

New-to-LPC Student = students with no for credit enrollments within our district prior to the current term.