



Las Positas College
Discipline Program Review Data Packet
Fall 2019 to Spring 2024

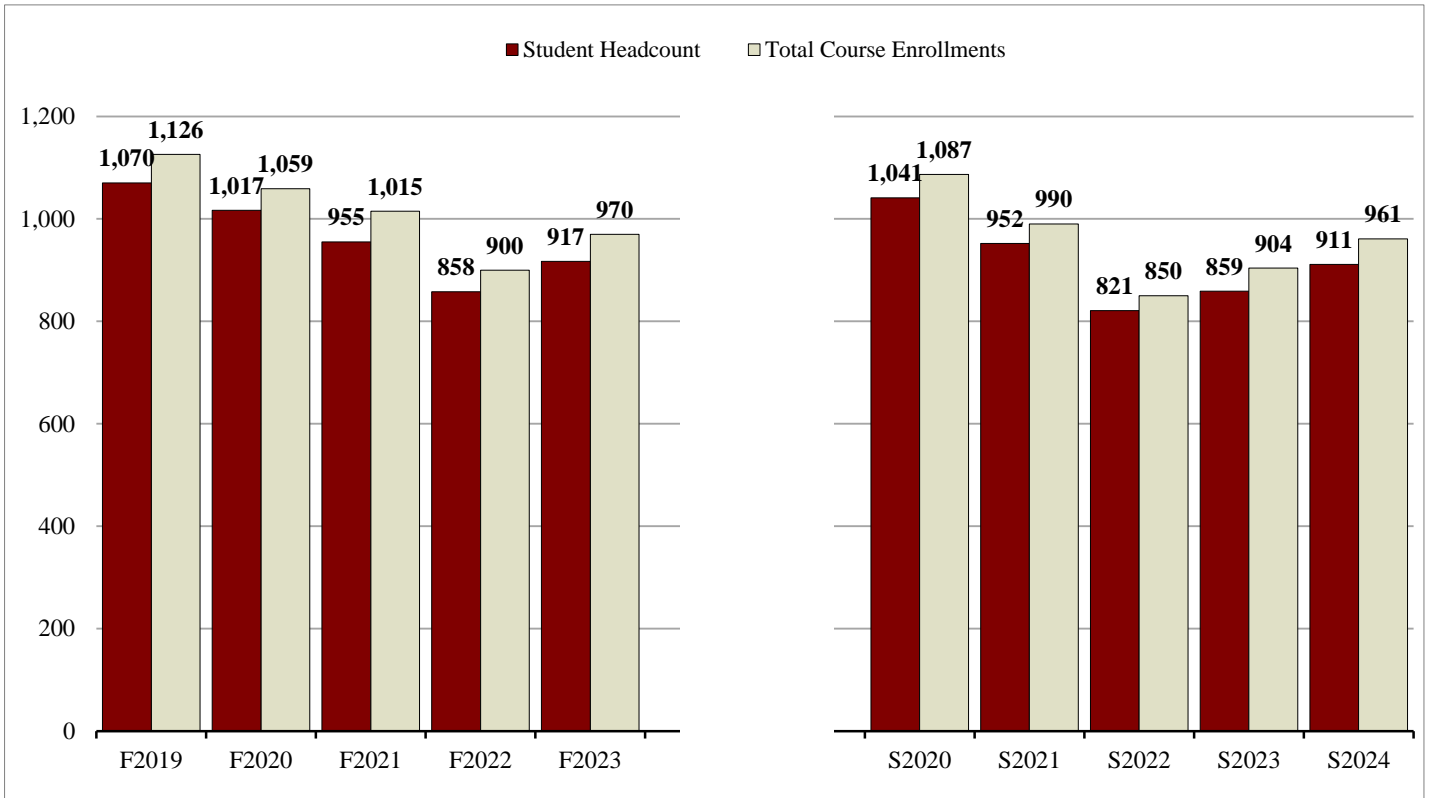
Discipline:

Biological Sciences (BIO)

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Headcount & Enrollment

Biological Sciences (BIO)										
	Fall Terms					Spring Terms				
	F2019	F2020	F2021	F2022	F2023	S2020	S2021	S2022	S2023	S2024
Student Headcount	1,070	1,017	955	858	917	1,041	952	821	859	911
Total Course Enrollments	1,126	1,059	1,015	900	970	1,087	990	850	904	961



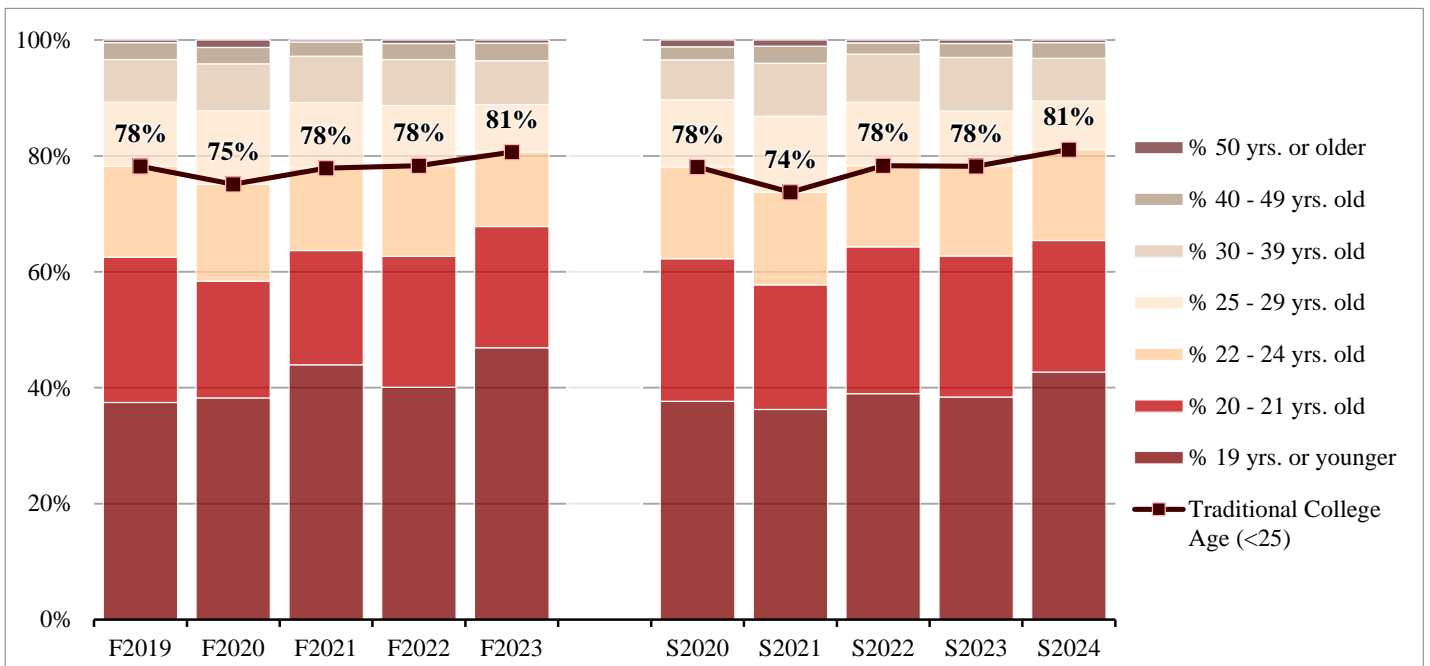
Definitions:

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.

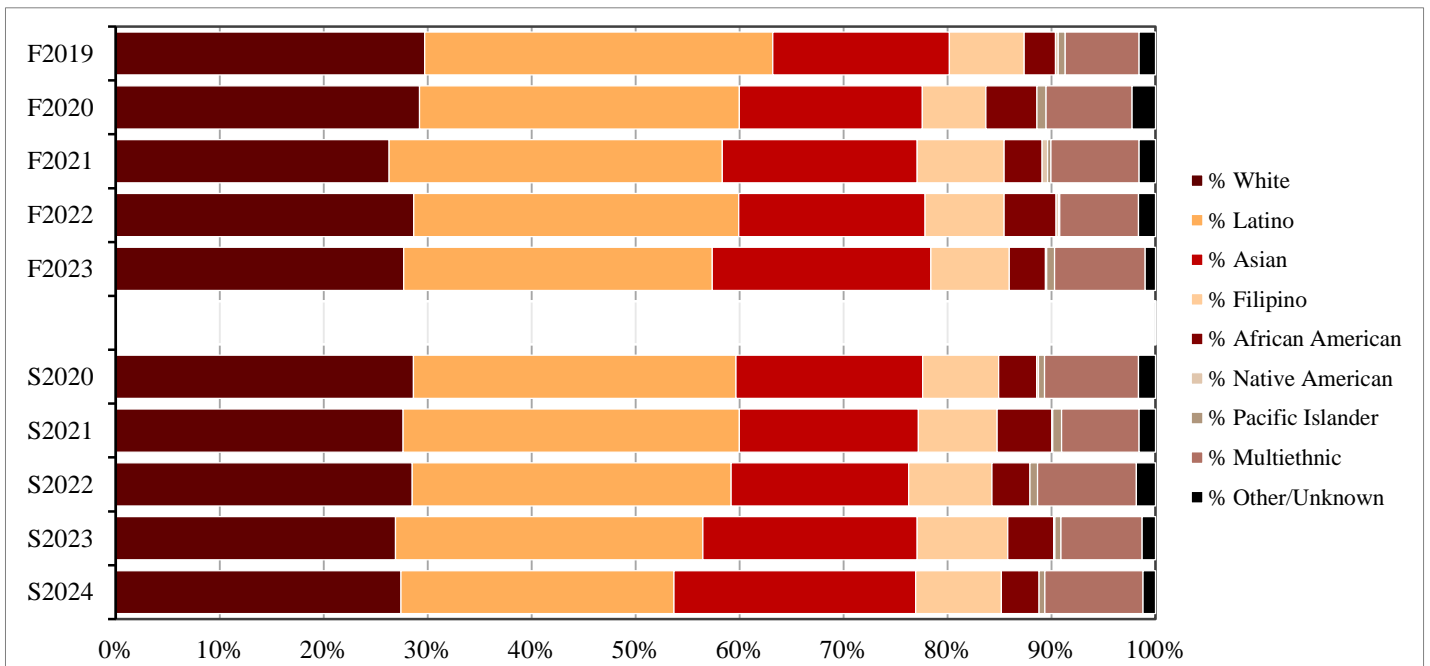
Student Demographics: Gender & Age

Biological Sciences (BIO)										
	Fall Terms					Spring Terms				
	F2019	F2020	F2021	F2022	F2023	S2020	S2021	S2022	S2023	S2024
Female	665	681	626	547	562	664	603	524	539	551
Male	387	321	316	300	304	359	333	291	305	314
19 yrs. or younger	401	389	420	344	430	392	345	320	330	389
20-21 yrs. old	268	205	188	194	192	256	205	208	209	207
22-24 yrs. old	168	170	136	134	118	165	152	115	133	143
25-29 yrs. old	118	129	108	89	75	121	125	90	82	76
30-39 yrs. old	79	82	76	68	69	71	87	68	79	67
40-49 yrs. old	31	29	24	24	28	24	28	16	21	25
50 yrs. or older	5	13	3	5	5	12	10	4	5	4
% Female	63%	68%	66%	65%	65%	65%	64%	64%	64%	64%
% Male	37%	32%	34%	35%	35%	35%	36%	36%	36%	36%
% 19 yrs. or younger	37%	38%	44%	40%	47%	38%	36%	39%	38%	43%
% 20 - 21 yrs. old	25%	20%	20%	23%	21%	25%	22%	25%	24%	23%
% 22 - 24 yrs. old	16%	17%	14%	16%	13%	16%	16%	14%	15%	16%
% 25 - 29 yrs. old	11%	13%	11%	10%	8%	12%	13%	11%	10%	8%
% 30 - 39 yrs. old	7%	8%	8%	8%	8%	7%	9%	8%	9%	7%
% 40 - 49 yrs. old	3%	3%	3%	3%	3%	2%	3%	2%	2%	3%
% 50 yrs. or older	<1%	1%	<1%	1%	1%	1%	1%	<1%	1%	<1%



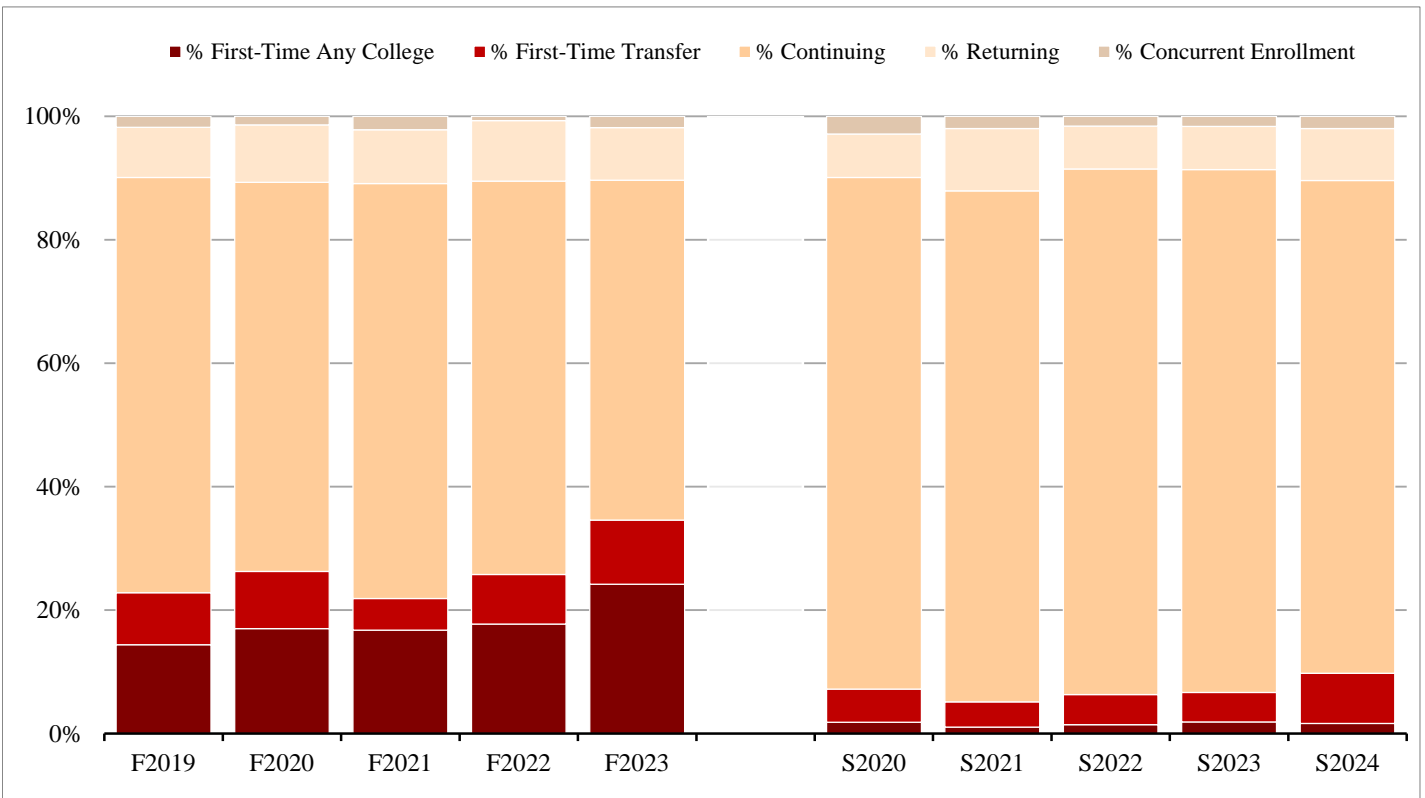
Student Demographic: Race-Ethnicity

Biological Sciences (BIO)										
	Fall Terms					Spring Terms				
	F2019	F2020	F2021	F2022	F2023	S2020	S2021	S2022	S2023	S2024
African American	32	50	35	43	32	38	50	30	38	33
Asian	182	179	179	154	193	187	164	140	177	212
Filipino	77	62	80	65	69	76	72	66	75	75
Latino	358	313	306	268	272	323	308	252	254	239
Native American	3	0	5	2	1	2	1	0	1	0
Pacific Islander	7	9	3	1	7	6	8	6	5	5
White	318	297	251	246	254	298	263	234	231	250
Multiethnic	76	84	81	65	80	94	71	78	67	86
Other/Unknown	17	23	15	14	9	17	15	15	11	11
% African American	3%	5%	4%	5%	3%	4%	5%	4%	4%	4%
% Asian	17%	18%	19%	18%	21%	18%	17%	17%	21%	23%
% Filipino	7%	6%	8%	8%	8%	7%	8%	8%	9%	8%
% Latino	33%	31%	32%	31%	30%	31%	32%	31%	30%	26%
% Native American	<1%	0%	1%	<1%	<1%	<1%	<1%	0%	<1%	0%
% Pacific Islander	1%	1%	<1%	<1%	1%	1%	1%	1%	1%	1%
% White	30%	29%	26%	29%	28%	29%	28%	29%	27%	27%
% Multiethnic	7%	8%	8%	8%	9%	9%	7%	10%	8%	9%
% Other/Unknown	2%	2%	2%	2%	1%	2%	2%	2%	1%	1%



Student Enrollment Status

Biological Sciences (BIO)										
	Fall Terms					Spring Terms				
	F2019	F2020	F2021	F2022	F2023	S2020	S2021	S2022	S2023	S2024
First-Time Any College	154	173	160	152	222	19	10	12	16	15
First-Time Transfer	90	94	49	69	95	56	39	40	41	74
Continuing	720	641	642	547	505	863	788	699	728	727
Returning	87	95	83	84	78	73	96	57	60	77
Concurrent Enrollment	19	14	21	6	17	30	19	13	14	18
% First-Time Any College	14%	17%	17%	18%	24%	2%	1%	1%	2%	2%
% First-Time Transfer	8%	9%	5%	8%	10%	5%	4%	5%	5%	8%
% Continuing	67%	63%	67%	64%	55%	83%	83%	85%	85%	80%
% Returning	8%	9%	9%	10%	9%	7%	10%	7%	7%	8%
% Concurrent Enrollment	2%	1%	2%	1%	2%	3%	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.

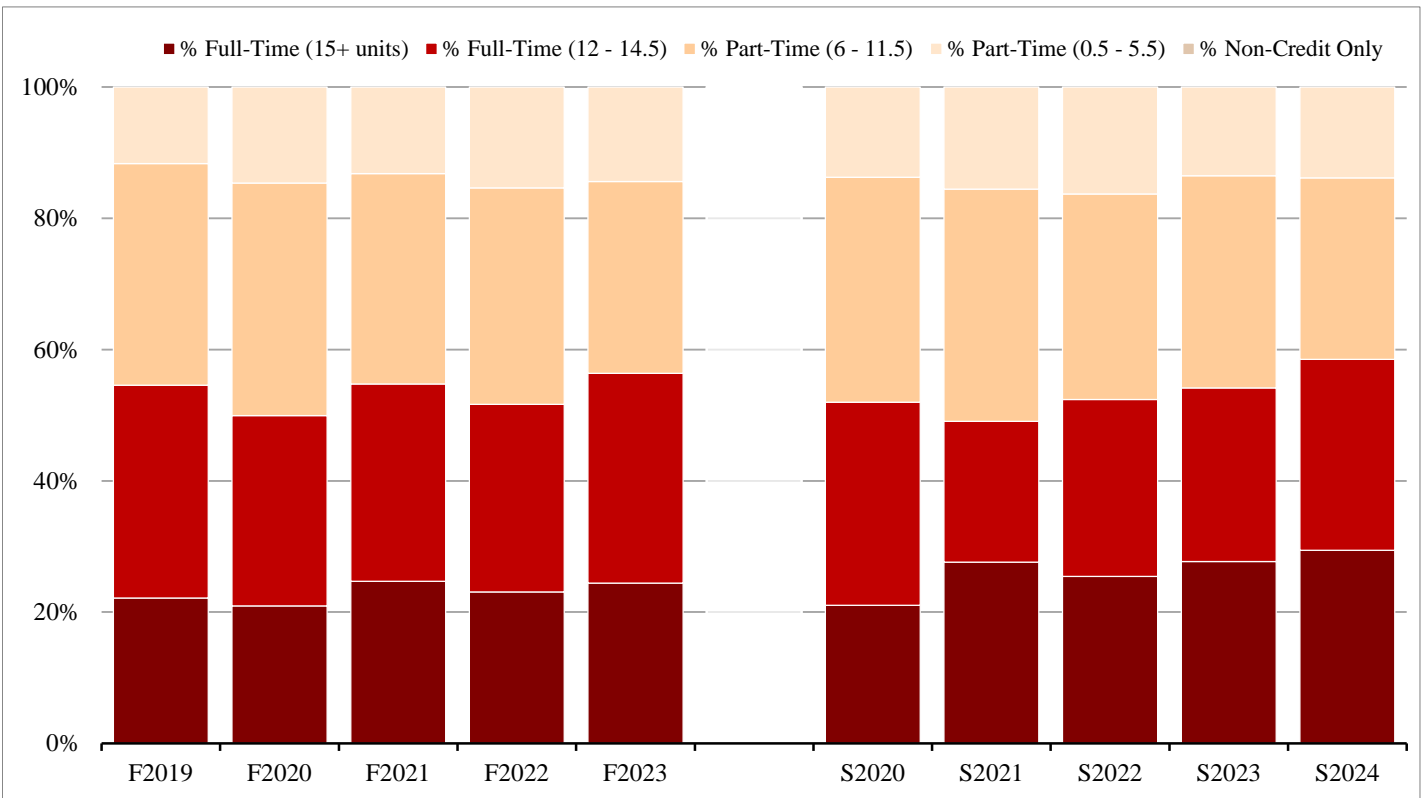
Continuing: Students enrolled in the current semester and were enrolled in the previous primary term. Primary terms are Fall and Spring.

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.

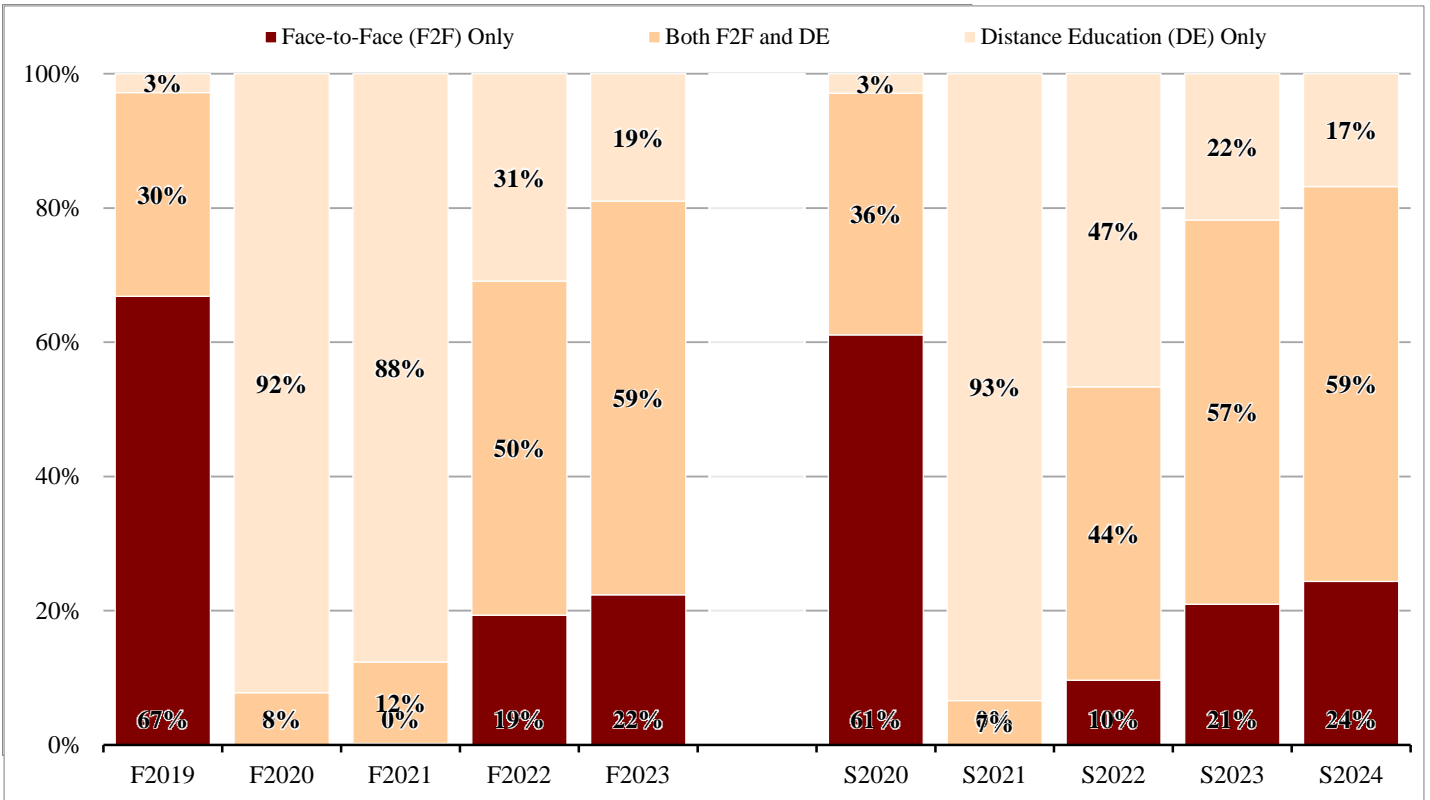
Student Unit Load

Biological Sciences (BIO)										
	Fall Terms					Spring Terms				
	F2019	F2020	F2021	F2022	F2023	S2020	S2021	S2022	S2023	S2024
Full-Time (15+ units)	237	213	236	198	224	219	263	209	238	268
Full-Time (12 - 14.5 units)	347	295	287	245	293	322	204	221	227	265
Part-Time (6 - 11.5 units)	361	360	306	283	268	357	337	257	278	252
Part-Time (0.5 - 5.5 units)	125	149	126	132	132	143	148	134	116	126
Non-Credit Only	0	0	0	0	0	0	0	0	0	0
% Full-Time (15+ units)	22%	21%	25%	23%	24%	21%	28%	25%	28%	29%
% Full-Time (12 - 14.5)	32%	29%	30%	29%	32%	31%	21%	27%	26%	29%
% Part-Time (6 - 11.5)	34%	35%	32%	33%	29%	34%	35%	31%	32%	28%
% Part-Time (0.5 - 5.5)	12%	15%	13%	15%	14%	14%	16%	16%	14%	14%
% Non-Credit Only	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%



Students Using Distance Education

Biological Sciences (BIO)										
(Categories reflect college-wide coursework)	Fall Terms					Spring Terms				
	F2019	F2020	F2021	F2022	F2023	S2020	S2021	S2022	S2023	S2024
Face-to-Face (F2F) Only	715	0	2	166	205	636	0	79	180	222
Both F2F and DE	325	79	116	427	538	375	63	359	492	536
Distance Education (DE) Only	30	938	837	265	174	30	889	383	187	153
% Face-to-Face (F2F) Only	67%	0%	<1%	19%	22%	61%	0%	10%	21%	24%
% Both F2F and DE	30%	8%	12%	50%	59%	36%	7%	44%	57%	59%
% Distance Education (DE) Only	3%	92%	88%	31%	19%	3%	93%	47%	22%	17%



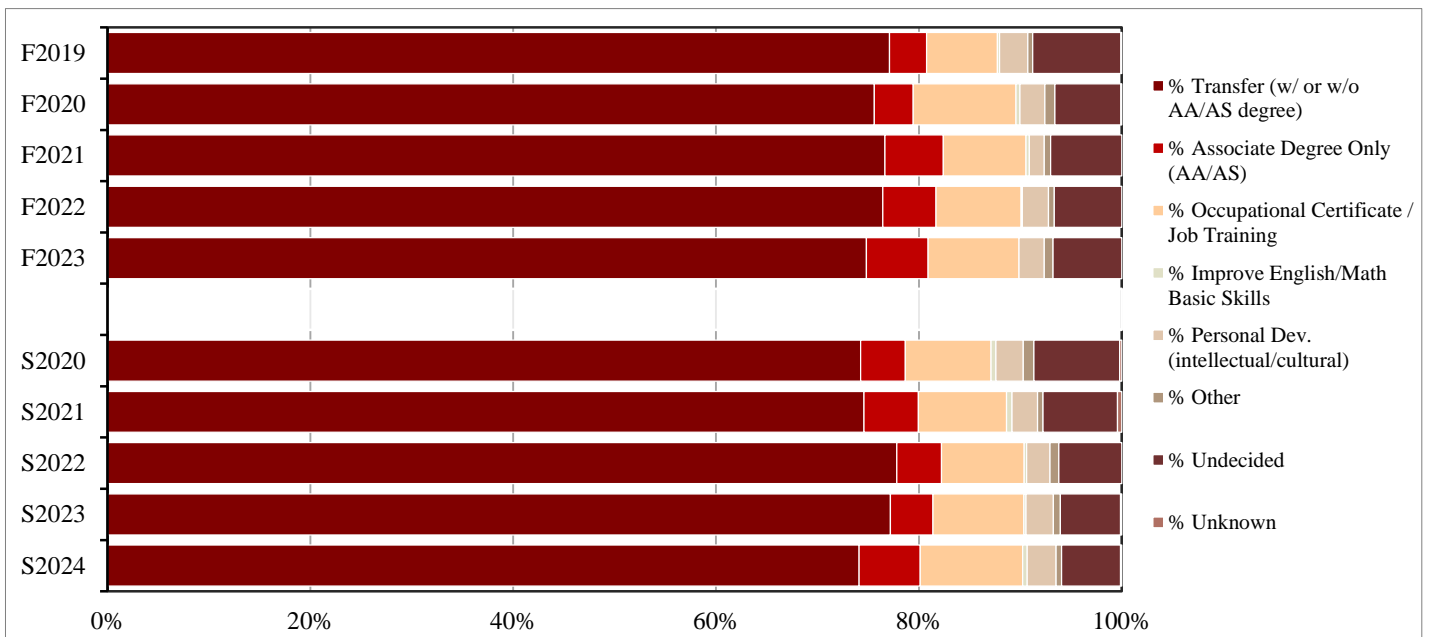
Definitions:

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				
	F2019	F2020	F2021	F2022	F2023	S2020	S2021	S2022	S2023	S2024
Transfer (w/ or w/o AA/AS degree)	825	769	732	656	686	773	710	639	663	675
Associate Degree Only (AA/AS)	39	39	55	45	56	46	51	36	36	55
Occupational Certificate / Job Training	75	103	78	72	82	88	83	67	77	92
Improve English/Math Basic Skills	2	4	3	1	0	5	5	2	2	4
Personal Development (intellectual/cultural)	30	25	14	22	23	28	24	19	23	26
Other	5	10	6	5	8	11	5	7	6	5
Undecided	93	66	67	57	62	88	70	51	51	53
Unknown	1	1	0	0	0	2	4	0	1	1
% Transfer (w/ or w/o AA/AS degree)	77%	76%	77%	76%	75%	74%	75%	78%	77%	74%
% Associate Degree Only (AA/AS)	4%	4%	6%	5%	6%	4%	5%	4%	4%	6%
% Occupational Certificate / Job Training	7%	10%	8%	8%	9%	8%	9%	8%	9%	10%
% Improve English/Math Basic Skills	<1%	<1%	<1%	<1%	0%	<1%	1%	<1%	<1%	<1%
% Personal Dev. (intellectual/cultural)	3%	2%	1%	3%	3%	3%	3%	2%	3%	3%
% Other	<1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
% Undecided	9%	6%	7%	7%	7%	8%	7%	6%	6%	6%
% Unknown	<1%	<1%	0%	0%	0%	<1%	<1%	0%	<1%	<1%



Definitions:

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

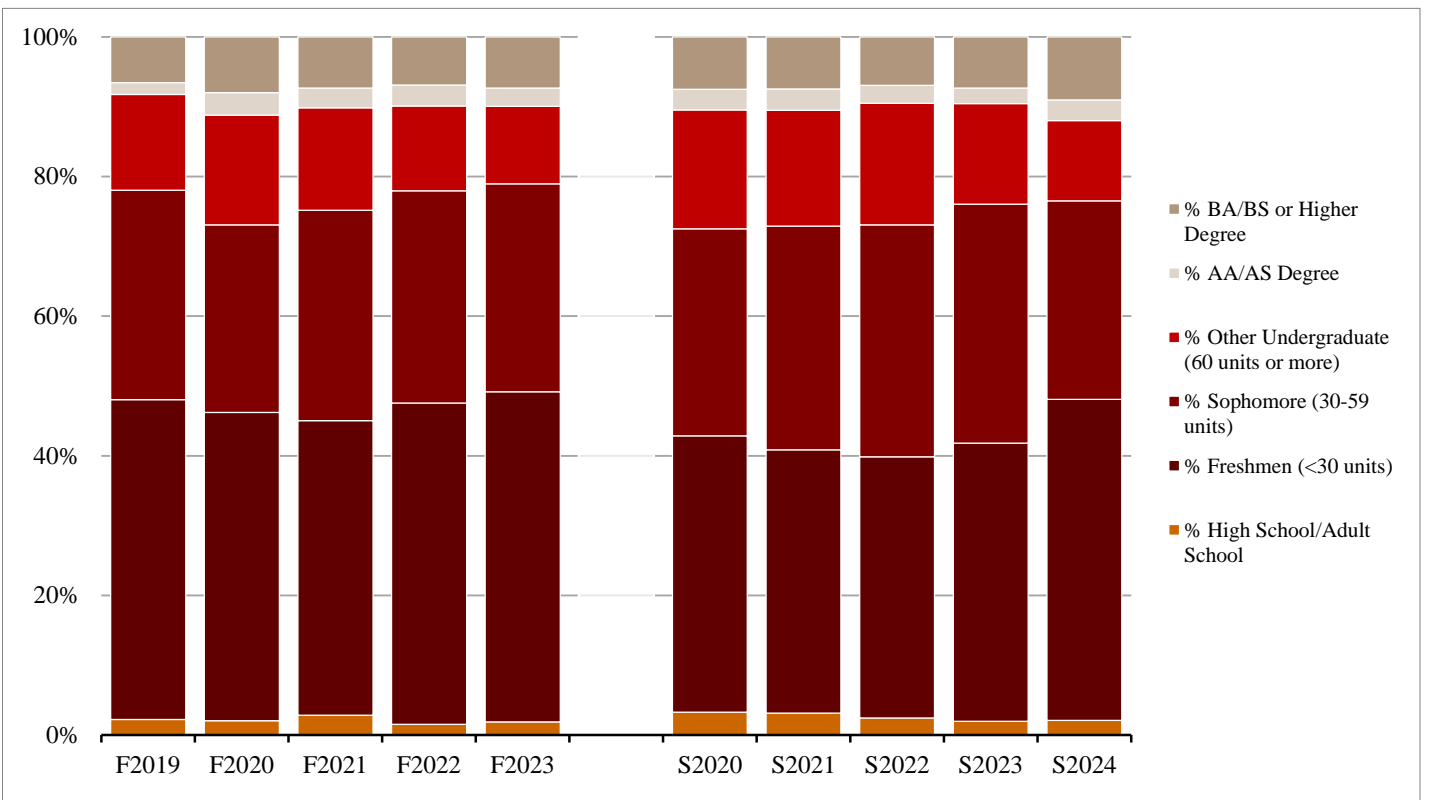
Occupational Certificate/Job Training: Acquire job skills, explore career interests, earn a certificate, or maintain a certificate/license.

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.

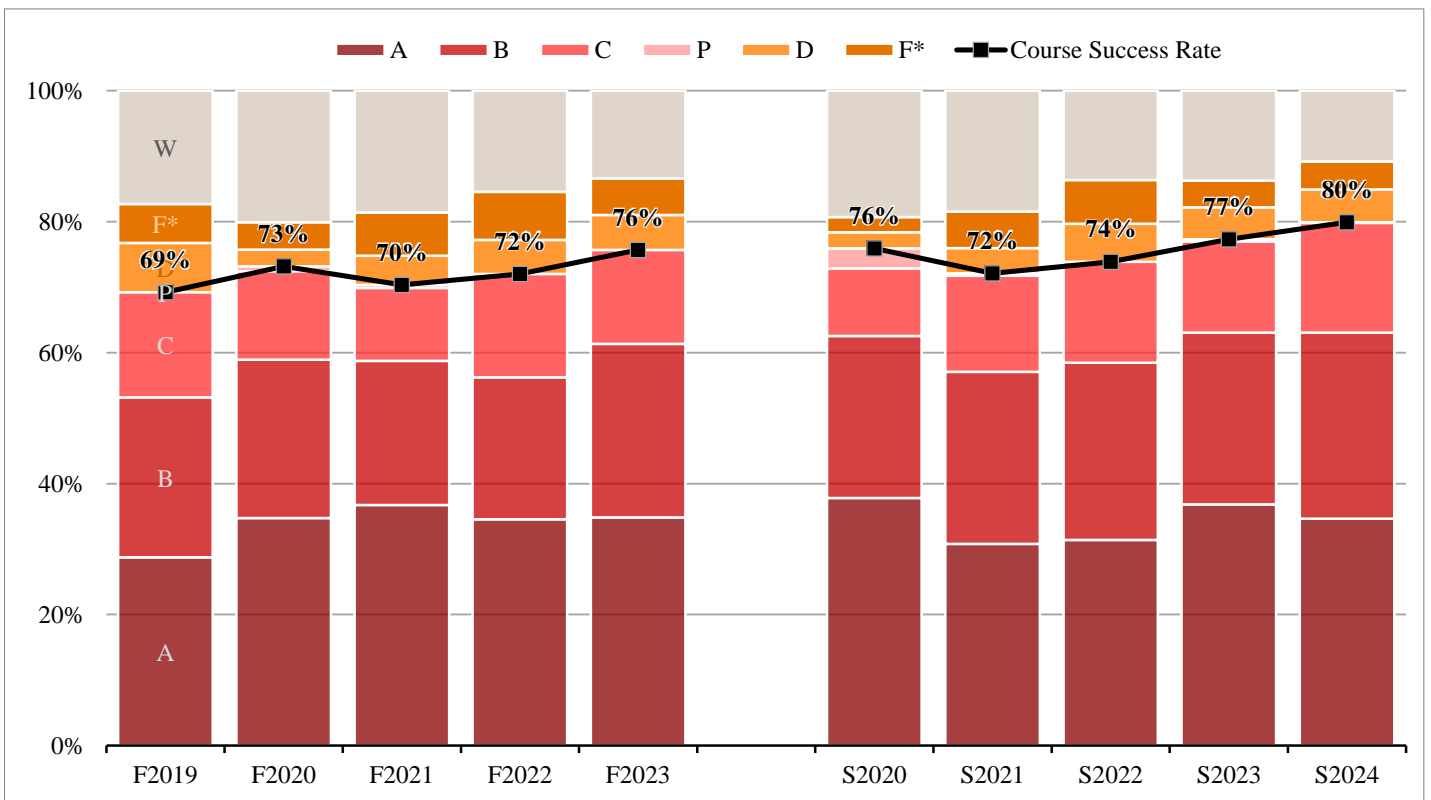
Highest Educational Level of Students

Biological Sciences (BIO)										
	Fall Terms					Spring Terms				
	F2019	F2020	F2021	F2022	F2023	S2020	S2021	S2022	S2023	S2024
High School/Adult School	24	21	27	13	17	34	30	20	17	19
Freshmen (<30 units)	490	449	403	395	434	412	359	307	342	419
Sophomore (30-59 units)	321	273	288	261	273	309	305	273	294	259
Other Undergraduate (60 units or more)	147	160	140	104	102	177	158	143	124	105
AA/AS Degree	18	33	27	26	24	31	29	21	19	27
BA/BS or Higher Degree	70	81	70	59	67	78	71	57	63	82
% High School/Adult School	2%	2%	3%	2%	2%	3%	3%	2%	2%	2%
% Freshmen (<30 units)	46%	44%	42%	46%	47%	40%	38%	37%	40%	46%
% Sophomore (30-59 units)	30%	27%	30%	30%	30%	30%	32%	33%	34%	28%
% Other Undergraduate (60 units or more)	14%	16%	15%	12%	11%	17%	17%	17%	14%	12%
% AA/AS Degree	2%	3%	3%	3%	3%	3%	3%	3%	2%	3%
% BA/BS or Higher Degree	7%	8%	7%	7%	7%	7%	7%	7%	7%	9%



Student Performance: Grade Distribution

Biological Sciences (BIO)										
	Fall Terms					Spring Terms				
	F2019	F2020	F2021	F2022	F2023	S2020	S2021	S2022	S2023	S2024
Total Course Enrollments	1,126	1,059	1,015	900	970	1,087	990	850	904	961
Course Success Rates	69%	73%	70%	72%	76%	76%	72%	74%	77%	80%
A	29%	35%	37%	35%	35%	38%	31%	31%	37%	35%
B	24%	24%	22%	22%	26%	25%	26%	27%	26%	28%
C	16%	14%	11%	16%	14%	10%	15%	15%	14%	17%
P	0%	1%	0%	0%	0%	3%	<1%	0%	<1%	<1%
Course Non-Success Rate	13%	7%	11%	13%	11%	5%	9%	12%	9%	9%
D	8%	3%	4%	5%	5%	2%	4%	6%	5%	5%
F*	6%	4%	7%	7%	6%	2%	6%	7%	4%	4%
Withdrawals (See Note)	17%	20%	19%	15%	13%	19%	18%	14%	14%	11%



Definitions:

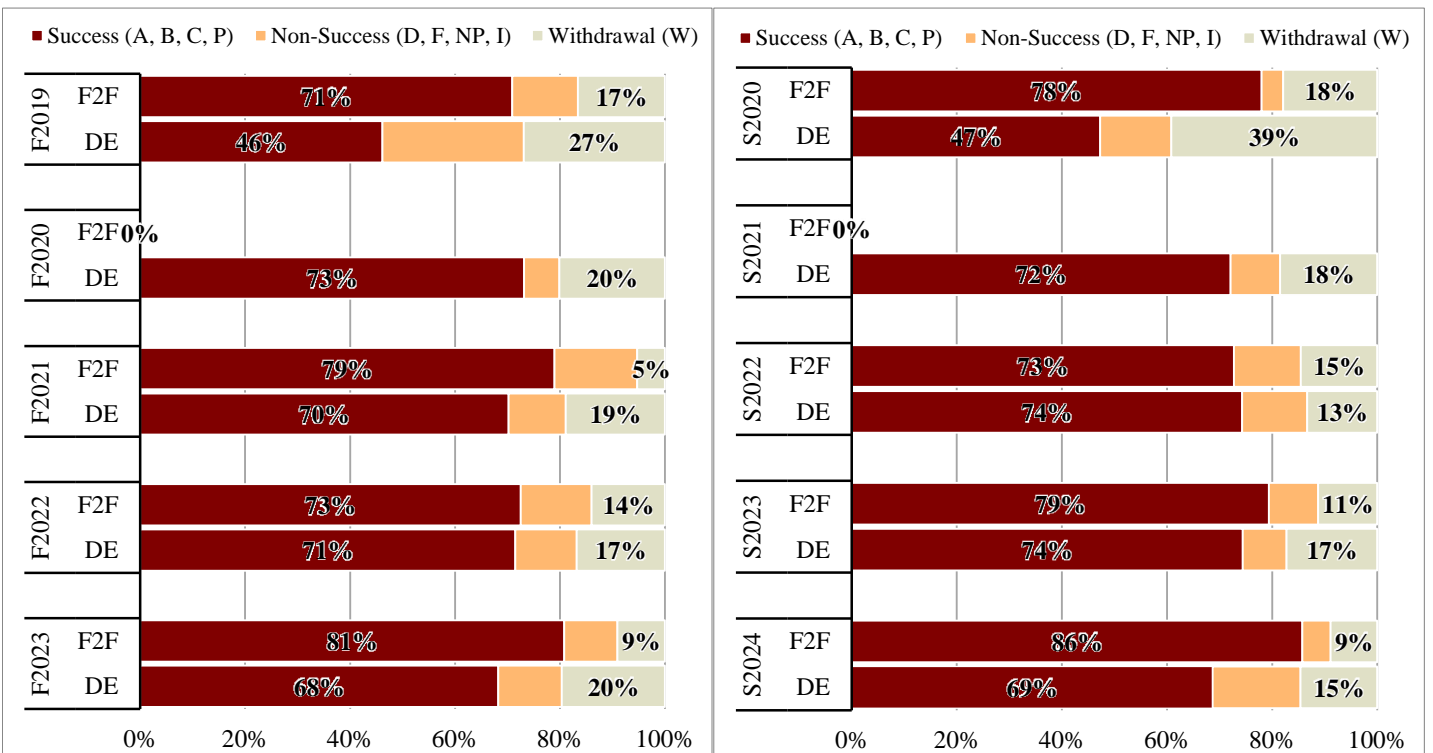
Course Success Rate: Share of course enrollments resulting in a passing grade ('A', 'B', 'C', 'P', 'NCA', 'NCB', 'NCC', or 'NCP').

Course Non-Success Rate: Share of course enrollments resulting in a grade of 'D' or F* (includes: 'F', 'NP', 'I', '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				
	F2019	F2020	F2021	F2022	F2023	S2020	S2021	S2022	S2023	S2024
Total Course Enrollments	1,126	1,059	1,015	900	970	1,087	990	850	904	961
Face-to-Face (F2F) Sections	1,048	0	23	437	573	1,013	0	224	533	632
Success Rates	71%	—	79%	73%	81%	78%	—	73%	79%	86%
Non-Success Rates	12%	—	16%	14%	10%	4%	—	13%	9%	5%
Withdrawals	17%	—	5%	14%	9%	18%	—	15%	11%	9%
Distance Education (DE) Sections	78	1,059	992	463	397	74	990	626	371	329
Success Rates	46%	73%	70%	71%	68%	47%	72%	74%	74%	69%
Non-Success Rates	27%	7%	11%	12%	12%	14%	9%	12%	8%	17%
Withdrawals	27%	20%	19%	17%	20%	39%	18%	13%	17%	15%



Definitions:

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

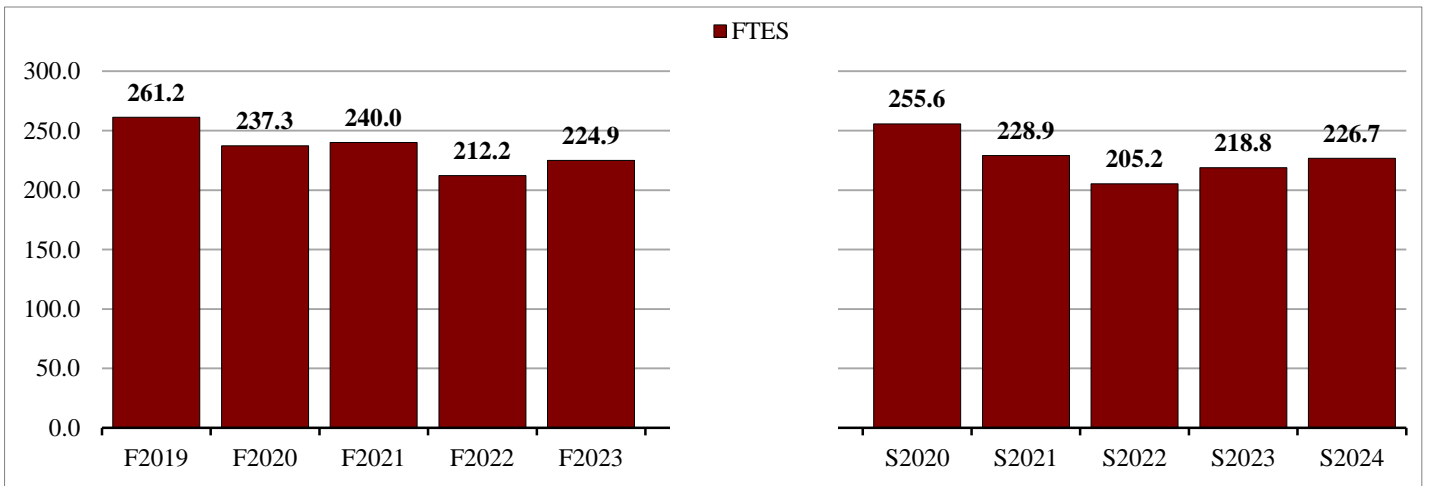
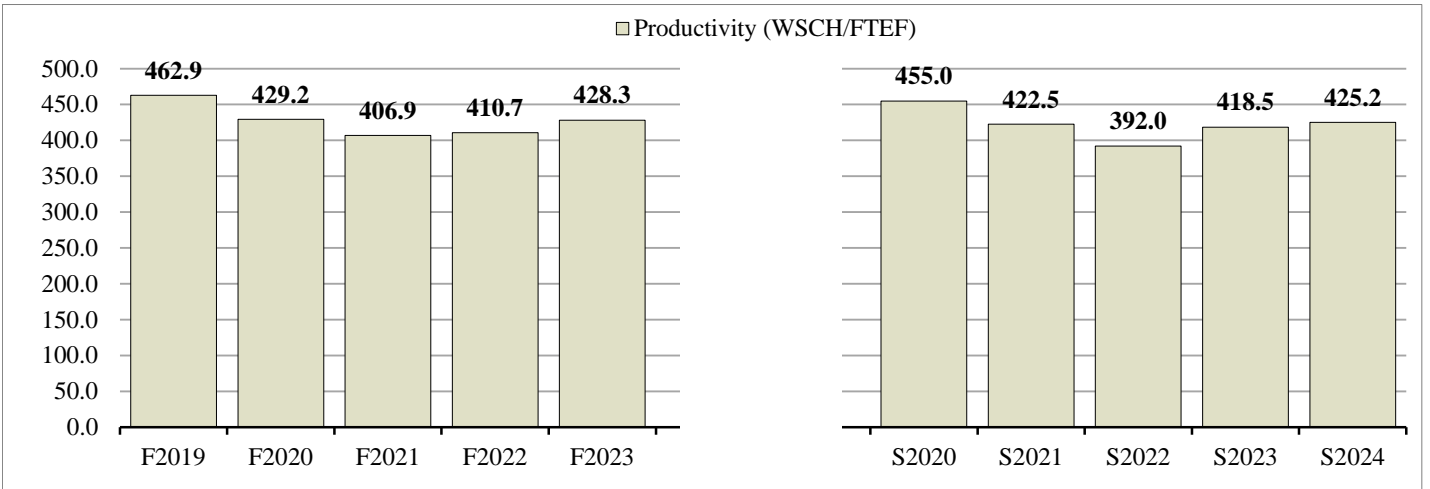
Course Non-Success Rate: Share of course enrollments resulting in a grade of 'D', 'F', 'NP', 'T', 'NCD', 'NCF', or 'NCNP'.

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				
	F2019	F2020	F2021	F2022	F2023	S2020	S2021	S2022	S2023	S2024
WSCH	7,908	7,247	7,288	6,491	6,854	7,817	6,938	6,245	6,641	6,926
FTES	261.2	237.3	240.0	212.2	224.9	255.6	228.9	205.2	218.8	226.7
FTEF	17.1	16.9	17.9	15.8	16.0	17.2	16.4	15.9	15.9	16.3
Productivity (WSCH/FTEF)	462.9	429.2	406.9	410.7	428.3	455.0	422.5	392.0	418.5	425.2



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.

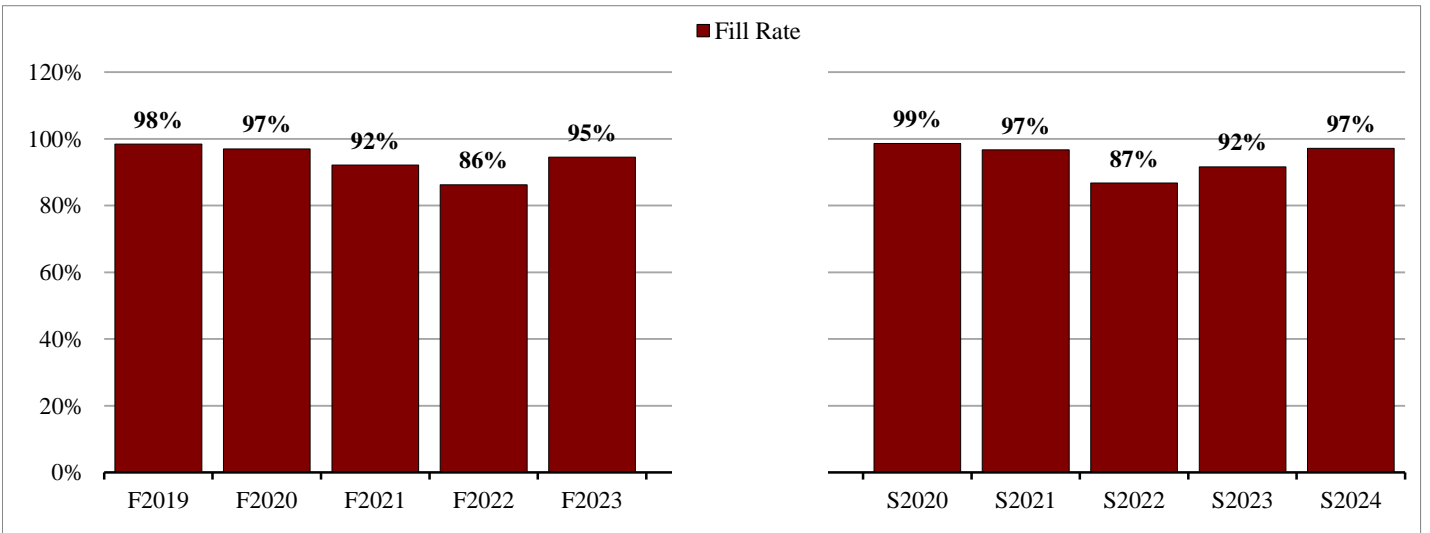
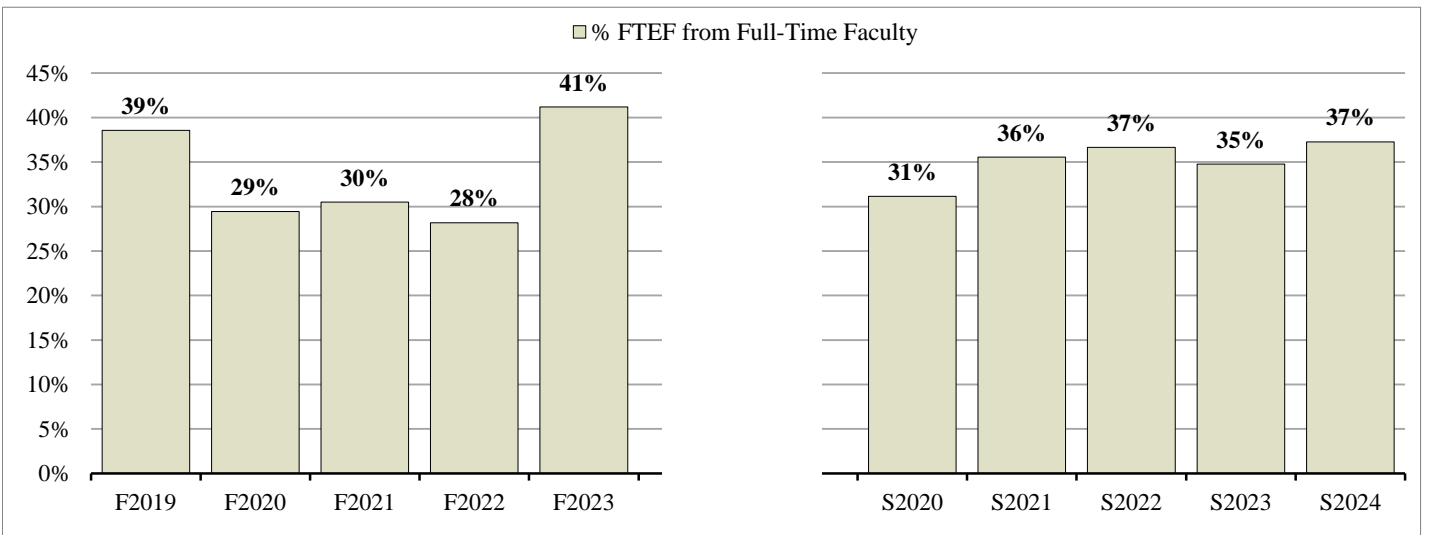
FTEF is the Full Time Equivalent Faculty associated with the discipline's course offerings for that semester.

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				
	F2019	F2020	F2021	F2022	F2023	S2020	S2021	S2022	S2023	S2024
FTEF from Full-Time Faculty	6.6	5.0	5.5	4.5	6.6	5.4	5.8	5.8	5.5	6.1
% FTEF from Full-Time Faculty	39%	29%	30%	28%	41%	31%	36%	37%	35%	37%
Enrollments	1,126	1,059	1,015	900	970	1,087	990	850	904	961
Capacity (seats available)	1,144	1,092	1,102	1,044	1,026	1,102	1,024	980	987	989
Fill Rate	98%	97%	92%	86%	95%	99%	97%	87%	92%	97%



Definitions:

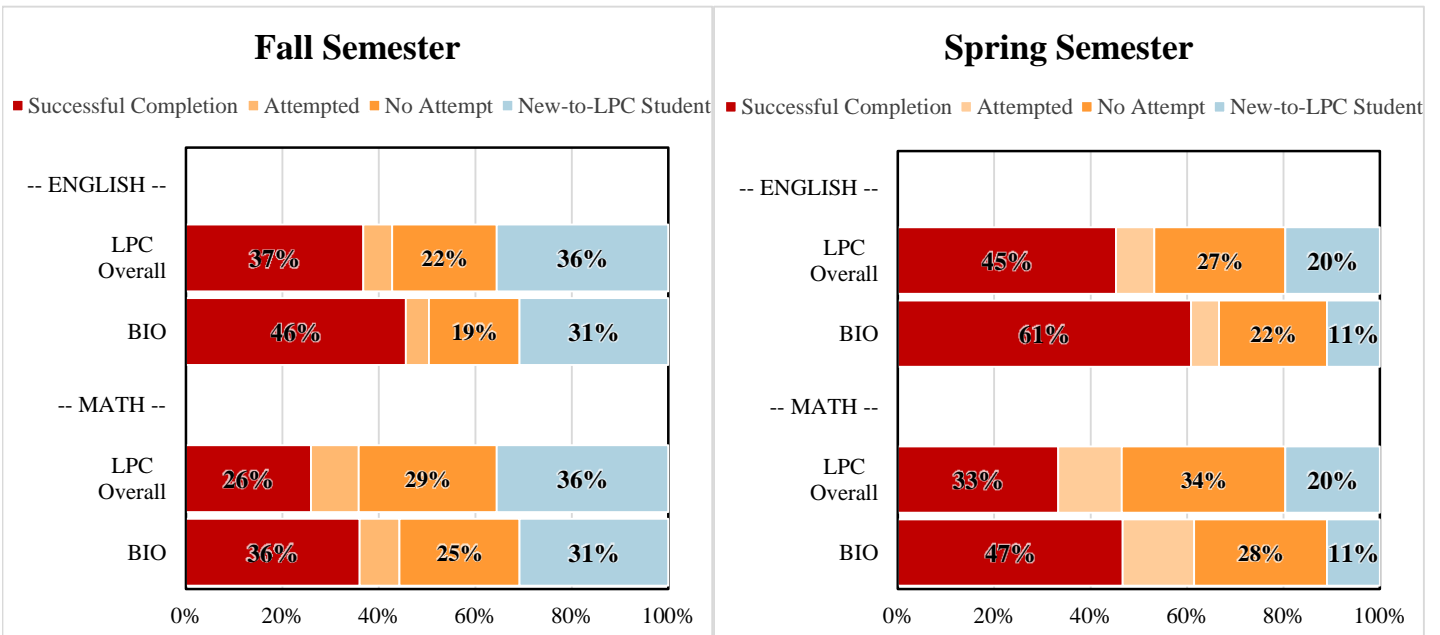
Fill Rate is number of enrollments over the total capacity (seats available).

% 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

<i>(English and math status prior to the start of the term)</i>	Fall 2023				Spring 2024			
	BIO		LPC Overall		BIO		LPC Overall	
	Num	Pct	Num	Pct	Num	Pct	Num	Pct
Transfer-level English								
Successful Completion*	418	46%	2,796	37%	554	61%	3,393	45%
Attempted (<i>not successful</i>)	44	5%	454	6%	53	6%	600	8%
No Attempt	172	19%	1,652	22%	204	22%	2,036	27%
New-to-LPC Student	283	31%	2,703	36%	100	11%	1,472	20%
Transfer-level Math								
Successful Completion*	330	36%	1,971	26%	425	47%	2,498	33%
Attempted (<i>not successful</i>)	76	8%	752	10%	135	15%	986	13%
No Attempt	228	25%	2,179	29%	251	28%	2,545	34%
New-to-LPC Student	283	31%	2,703	36%	100	11%	1,472	20%



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 an 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.