Las Positas College

Discipline Program Review Data Packet

Fall 2019 to Spring 2024

Discipline:

Chemistry (CHEM)

Office of Research, Planning, and Institutional Effectiveness
Las Positas College

Headcount & Enrollment

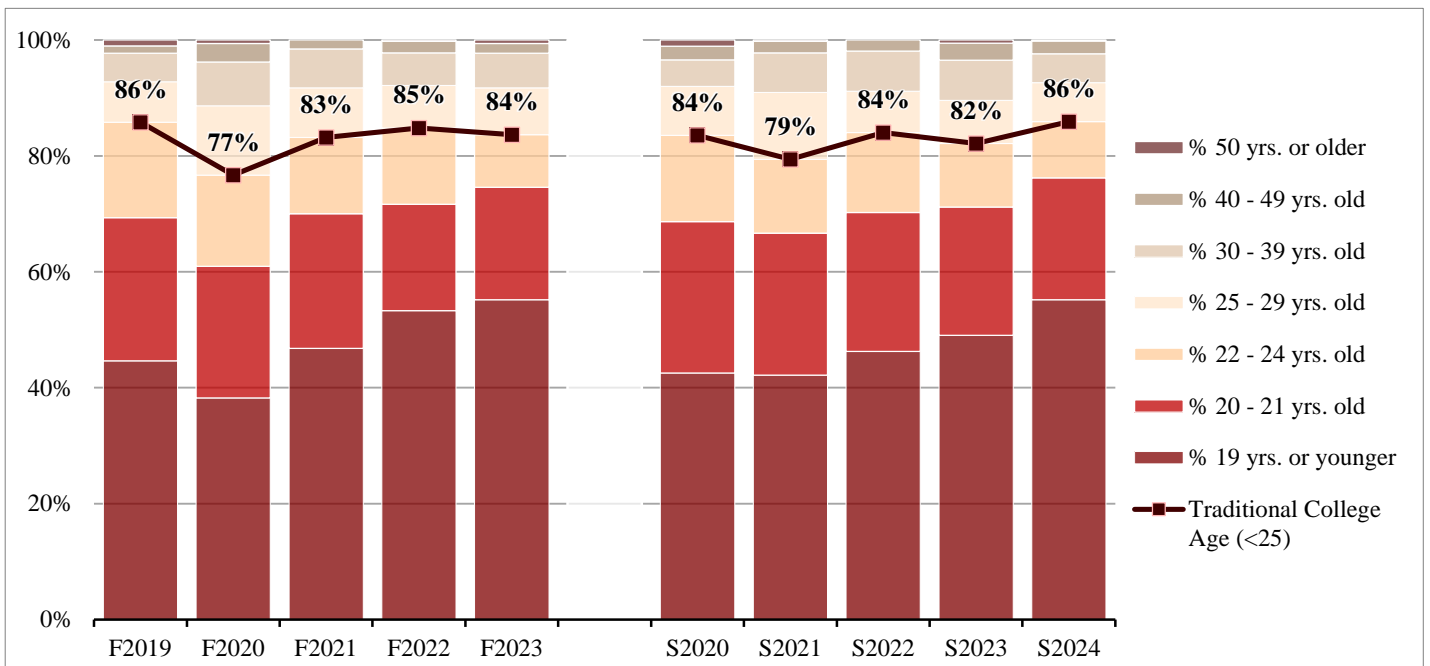| Chemistry (CHEM)										
	Fall Terms					**Spring Terms**				
	F2019	F2020	F2021	F2022	F2023	S2020	S2021	S2022	S2023	S2024
Student Headcount	486	502	327	409	484	463	408	363	375	504
Total Course Enrollments	487	502	327	410	484	463	409	364	375	504
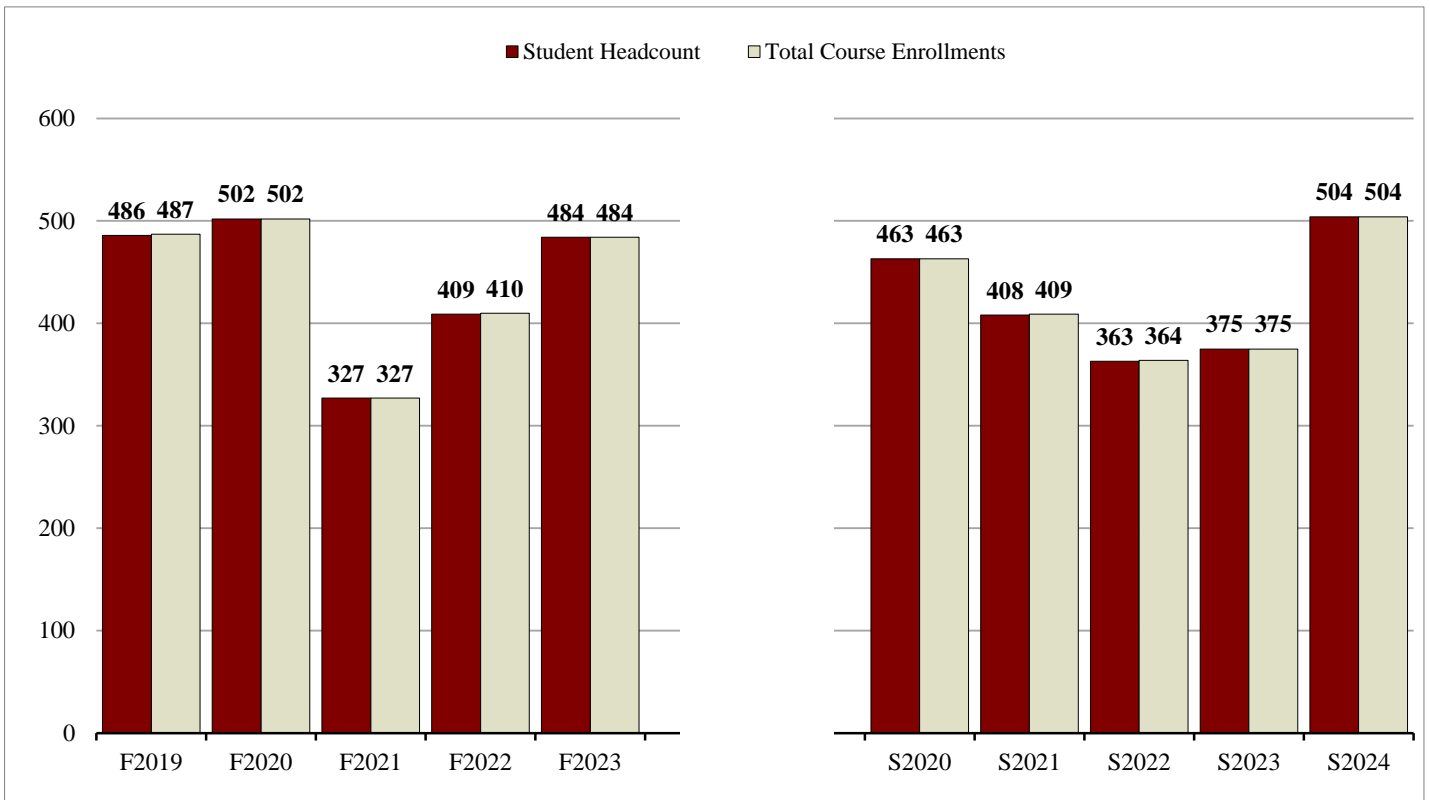
Definitions:

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.
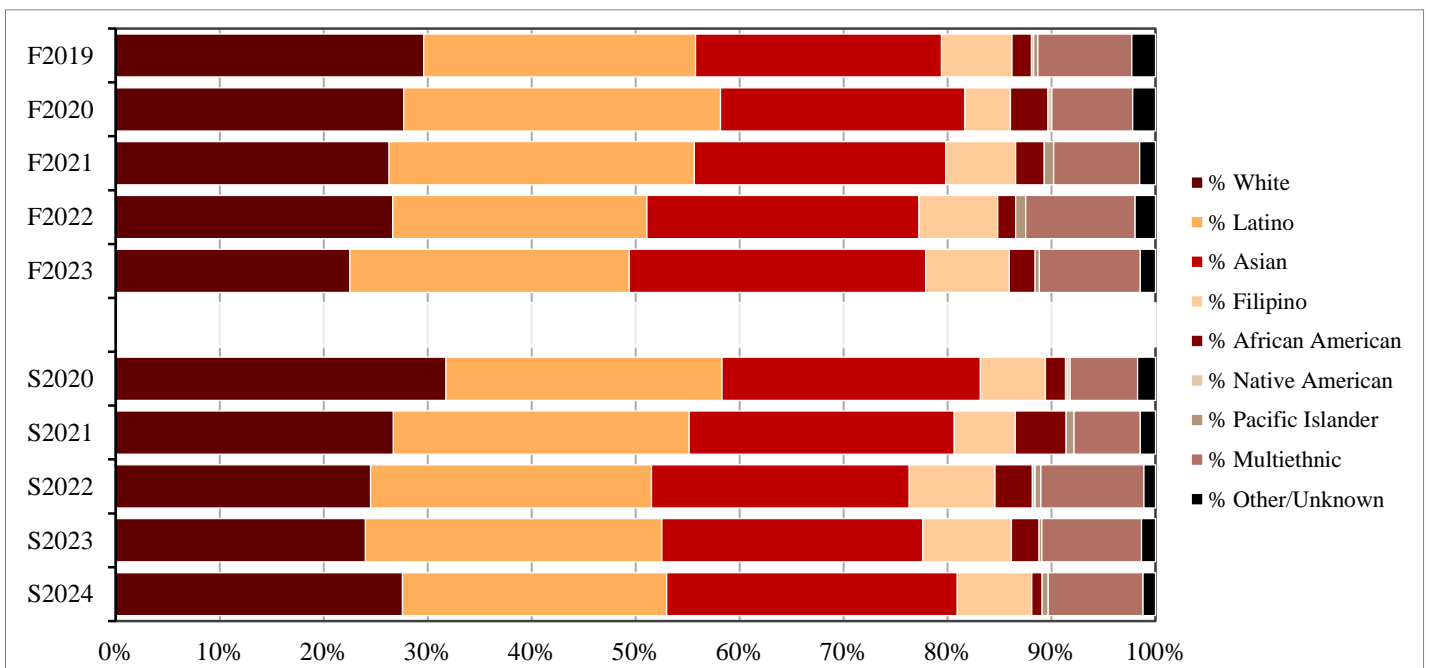
Student Demographics: Gender & Age

Chemistry (CHEM)										
	Fall Terms					**Spring Terms**				
	F2019	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
Female	274	305	186	234	249	262	253	211	208	265
Male	205	192	135	171	212	194	151	151	161	205
19 yrs. or younger	217	192	153	218	267	197	172	168	184	278
20-21 yrs. old	120	114	76	75	94	121	100	87	83	106
22-24 yrs. old	80	79	43	54	44	69	52	50	41	49
25-29 yrs. old	34	60	28	30	39	39	47	26	28	34
30-39 yrs. old	24	38	22	23	29	21	28	25	26	25
40-49 yrs. old	6	16	5	8	8	11	8	7	11	11
50 yrs. or older	5	3	0	1	3	5	1	0	2	1
% Female	57%	61%	58%	58%	54%	57%	63%	58%	56%	56%
% Male	43%	39%	42%	42%	46%	43%	37%	42%	44%	44%
% 19 yrs. or younger	45%	38%	47%	53%	55%	43%	42%	46%	49%	55%
% 20 - 21 yrs. old	25%	23%	23%	18%	19%	26%	25%	24%	22%	21%
% 22 - 24 yrs. old	16%	16%	13%	13%	9%	15%	13%	14%	11%	10%
% 25 - 29 yrs. old	7%	12%	9%	7%	8%	8%	12%	7%	7%	7%
% 30 - 39 yrs. old	5%	8%	7%	6%	6%	5%	7%	7%	7%	5%
% 40 - 49 yrs. old	1%	3%	2%	2%	2%	2%	2%	2%	3%	2%
% 50 yrs. or older	1%	1%	0%	<1%	1%	1%	<1%	0%	1%	<1%

Student Demographic: Race-Ethnicity

Chemistry (CHEM)										
	Fall Terms					**Spring Terms**				
	F2019	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
African American	9	18	9	7	12	9	20	13	10	5
Asian	115	118	79	107	138	115	104	90	94	141
Filipino	33	22	22	31	39	29	24	30	32	36
Latino	127	153	96	100	130	123	116	98	107	128
Native American	1	2	0	0	0	1	0	1	0	0
Pacific Islander	2	0	3	4	2	1	3	2	1	3
White	144	139	86	109	109	147	109	89	90	139
Multiethnic	44	39	27	43	47	30	26	36	36	46
Other/Unknown	11	11	5	8	7	8	6	4	5	6
% African American	2%	4%	3%	2%	2%	2%	5%	4%	3%	1%
% Asian	24%	24%	24%	26%	29%	25%	25%	25%	25%	28%
% Filipino	7%	4%	7%	8%	8%	6%	6%	8%	9%	7%
% Latino	26%	30%	29%	24%	27%	27%	28%	27%	29%	25%
% Native American	<1%	<1%	0%	0%	0%	<1%	0%	<1%	0%	0%
% Pacific Islander	<1%	0%	1%	1%	<1%	<1%	1%	1%	<1%	1%
% White	30%	28%	26%	27%	23%	32%	27%	25%	24%	28%
% Multiethnic	9%	8%	8%	11%	10%	6%	6%	10%	10%	9%
% Other/Unknown	2%	2%	2%	2%	1%	2%	1%	1%	1%	1%

Office of Research, Planning, and Institutional Effectiveness
Las Positas College

Student Enrollment Status

Chemistry (CHEM)										
	Fall Terms					**Spring Terms**				
	F2019	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
First-Time Any College	48	53	46	72	119	2	0	1	5	5
First-Time Transfer	42	41	27	36	45	14	17	16	16	21
Continuing	343	372	221	247	275	412	340	312	325	433
Returning	27	26	24	33	32	23	30	18	14	20
Concurrent Enrollment	26	10	9	21	13	12	21	16	15	25
% First-Time Any College	10%	11%	14%	18%	25%	<1%	0%	<1%	1%	1%
% First-Time Transfer	9%	8%	8%	9%	9%	3%	4%	4%	4%	4%
% Continuing	71%	74%	68%	60%	57%	89%	83%	86%	87%	86%
% Returning	6%	5%	7%	8%	7%	5%	7%	5%	4%	4%
% Concurrent Enrollment	5%	2%	3%	5%	3%	3%	5%	4%	4%	5%
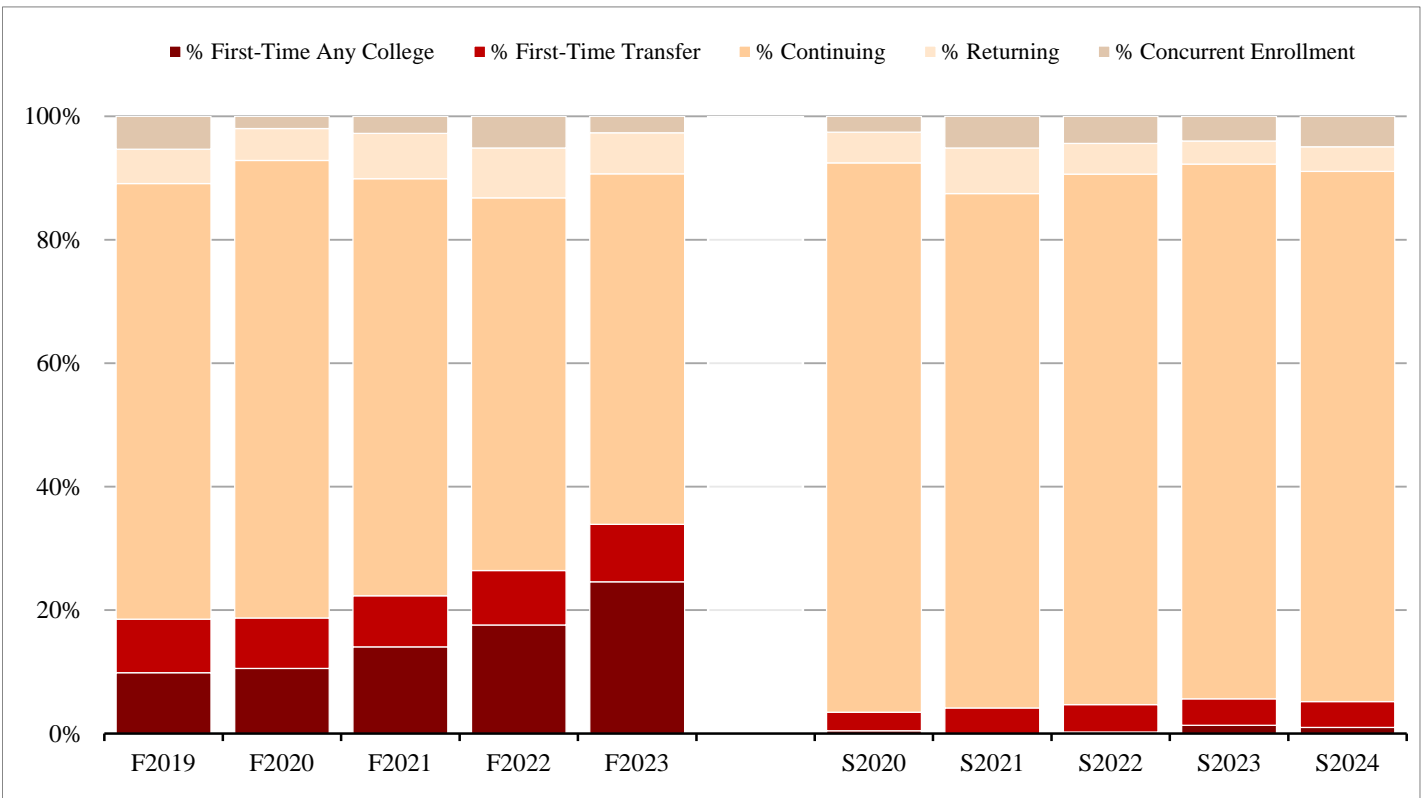
Definitions:

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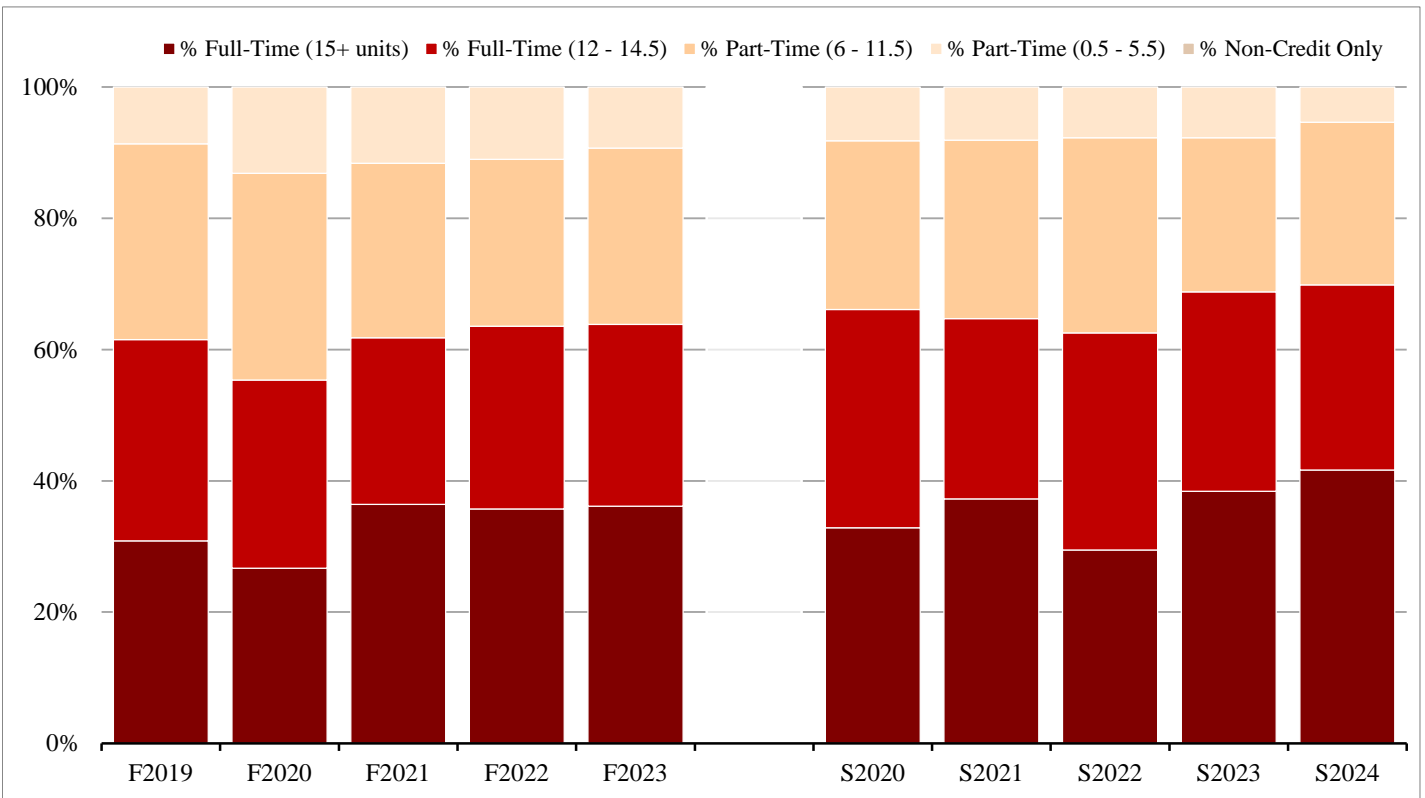
Continuing: Students enrolled in the current semester and were enrolled in the previous primary term. Primary terms are Fall and Spring.

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

Chemistry (CHEM)										
	Fall Terms					**Spring Terms**				
	F2019	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
Full-Time (15+ units)	150	134	119	146	175	152	152	107	144	210
Full-Time (12 - 14.5 units)	149	144	83	114	134	154	112	120	114	142
Part-Time (6 - 11.5 units)	145	158	87	104	130	119	111	108	88	125
Part-Time (0.5 - 5.5 units)	42	66	38	45	45	38	33	28	29	27
Non-Credit Only	0	0	0	0	0	0	0	0	0	0
% Full-Time (15+ units)	31%	27%	36%	36%	36%	33%	37%	29%	38%	42%
% Full-Time (12 - 14.5)	31%	29%	25%	28%	28%	33%	27%	33%	30%	28%
% Part-Time (6 - 11.5)	30%	31%	27%	25%	27%	26%	27%	30%	23%	25%
% Part-Time (0.5 - 5.5)	9%	13%	12%	11%	9%	8%	8%	8%	8%	5%
% Non-Credit Only	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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Las Positas College

Students Using Distance Education

Chemistry (CHEM)										
	Fall Terms					**Spring Terms**				
(Categories reflect college-wide coursework)	**F2019**	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
Face-to-Face (F2F) Only	364	0	0	68	156	300	0	44	77	155
Both F2F and DE	122	27	23	249	320	163	30	209	246	336
Distance Education (DE) Only	0	475	304	92	8	0	378	110	52	13
% Face-to-Face (F2F) Only	75%	0%	0%	17%	32%	65%	0%	12%	21%	31%
% Both F2F and DE	25%	5%	7%	61%	66%	35%	7%	58%	66%	67%
% Distance Education (DE) Only	0%	95%	93%	22%	2%	0%	93%	30%	14%	3%
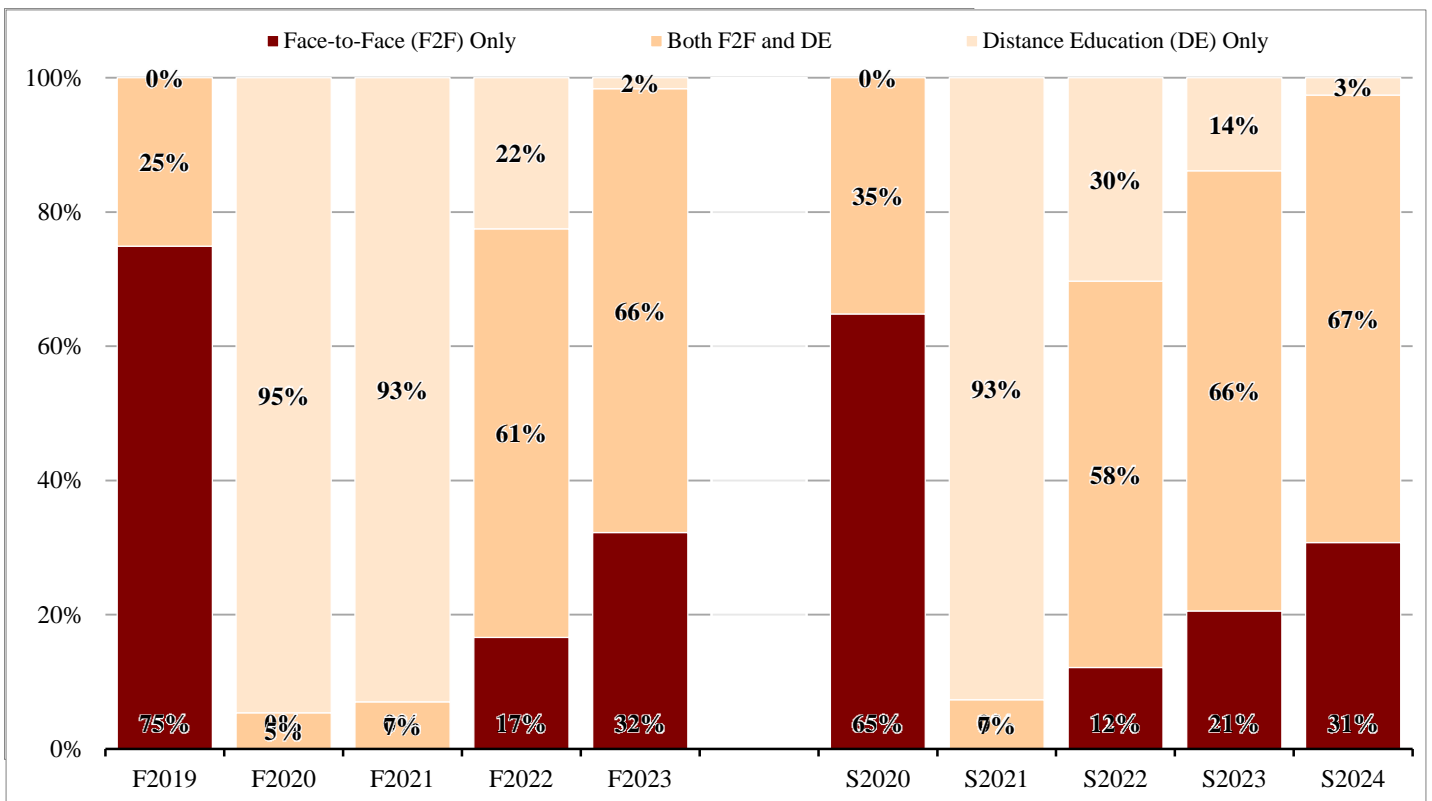
Definitions:

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 preset, via course attributes identifying course modality, or, when no attributes are provided, via section numbers (as previously indicated).

Student Educational Goal

Chemistry (CHEM)										
	Fall Terms					**Spring Terms**				
	F2019	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
Transfer (w/ or w/o AA/AS degree)	385	401	253	333	405	395	325	303	305	426
Associate Degree Only (AA/AS)	9	25	21	15	23	10	9	13	10	13
Occupational Certificate / Job Training	36	31	18	20	26	22	24	21	23	30
Improve English/Math Basic Skills	2	1	1	0	1	2	2	1	2	1
Personal Development (intellectual/cultural)	14	9	8	5	5	7	9	6	8	8
Other	8	4	4	5	2	3	7	4	2	3
Undecided	31	31	22	31	22	23	32	15	25	23
Unknown	1	0	0	0	0	1	0	0	0	0
% Transfer (w/ or w/o AA/AS degree)	79%	80%	77%	81%	84%	85%	80%	83%	81%	85%
% Associate Degree Only (AA/AS)	2%	5%	6%	4%	5%	2%	2%	4%	3%	3%
% Occupational Certificate / Job Training	7%	6%	6%	5%	5%	5%	6%	6%	6%	6%
% Improve English/Math Basic Skills	<1%	<1%	<1%	0%	<1%	<1%	0%	<1%	1%	<1%
% Personal Dev. (intellectual/cultural)	3%	2%	2%	1%	1%	2%	2%	2%	2%	2%
% Other	2%	1%	1%	1%	<1%	1%	2%	1%	1%	1%
% Undecided	6%	6%	7%	8%	5%	5%	8%	4%	7%	5%
% Unknown	<1%	0%	0%	0%	0%	<1%	0%	0%	0%	0%
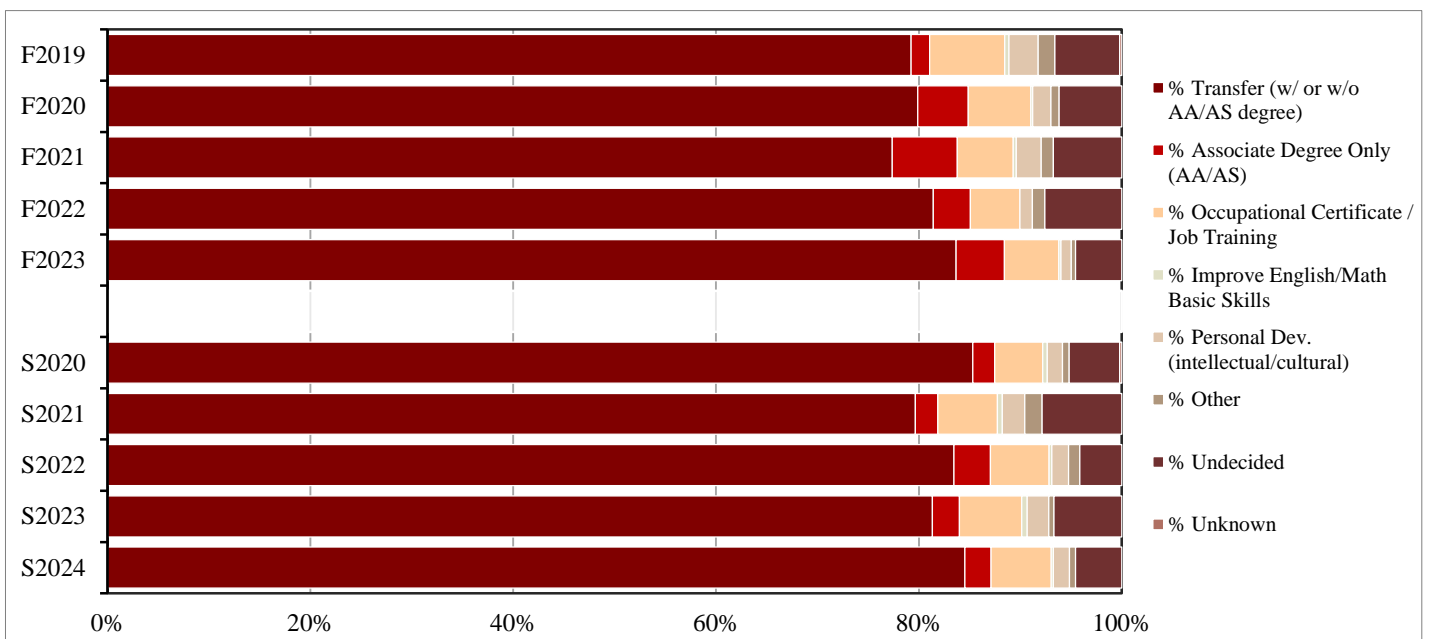
Definitions:

Transfer: Students who want to transfer to a 4-year university. Includes students enrolled in 4-year institutions completing requirements at LPC.
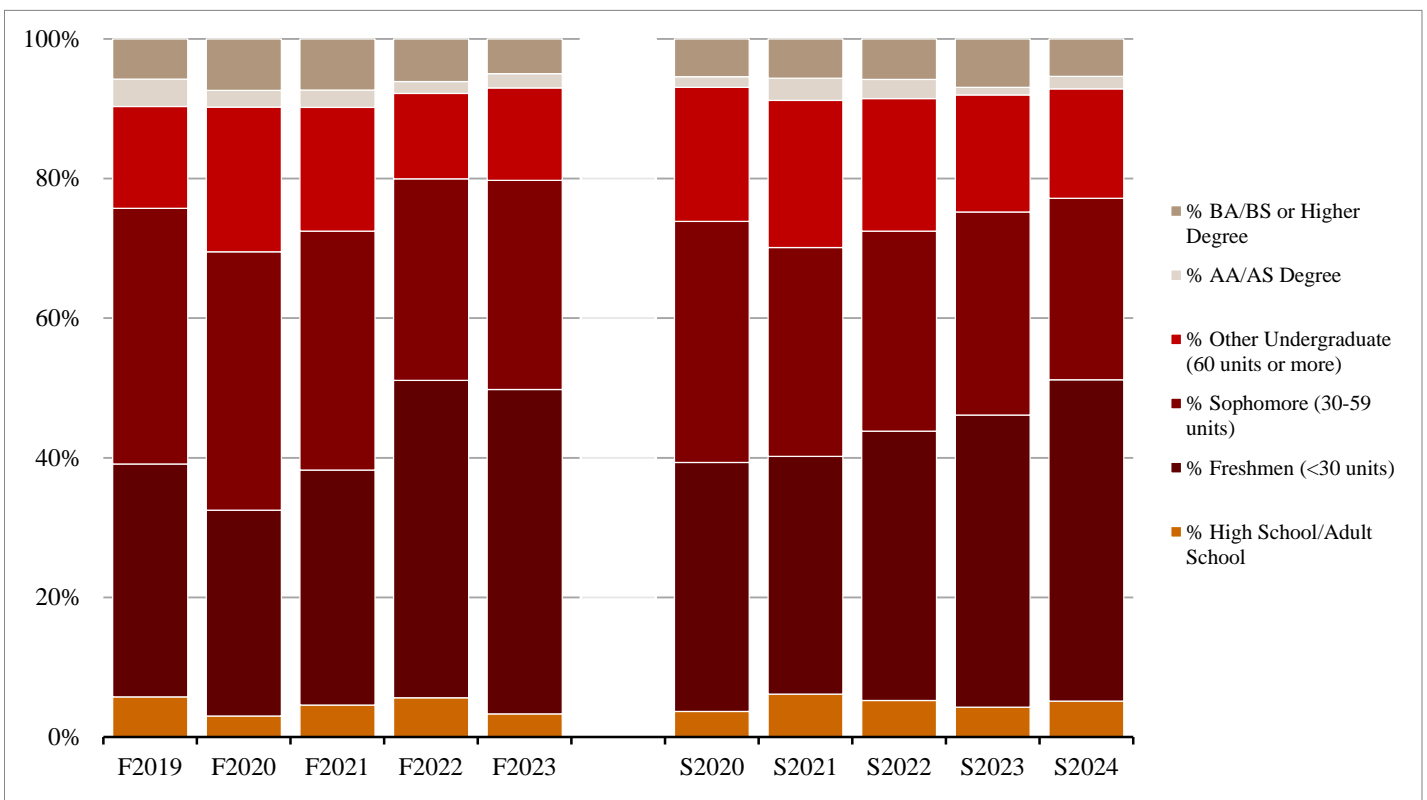
Occupational Certificate/Job Training: Acquire job skills, explore career interests, earn a certificate, or maintain a certificate/license.

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

Chemistry (CHEM)										
	Fall Terms					**Spring Terms**				
	F2019	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
High School/Adult School	28	15	15	23	16	17	25	19	16	26
Freshmen (<30 units)	162	148	110	186	225	165	139	140	157	232
Sophomore (30-59 units)	178	186	112	118	145	160	122	104	109	131
Other Undergraduate (60 units or more)	71	104	58	50	64	89	86	69	63	79
AA/AS Degree	19	12	8	7	10	7	13	10	4	9
BA/BS or Higher Degree	28	37	24	25	24	25	23	21	26	27
% High School/Adult School	6%	3%	5%	6%	3%	4%	6%	5%	4%	5%
% Freshmen (<30 units)	33%	29%	34%	45%	46%	36%	34%	39%	42%	46%
% Sophomore (30-59 units)	37%	37%	34%	29%	30%	35%	30%	29%	29%	26%
% Other Undergraduate (60 units or more)	15%	21%	18%	12%	13%	19%	21%	19%	17%	16%
% AA/AS Degree	4%	2%	2%	2%	2%	2%	3%	3%	1%	2%
% BA/BS or Higher Degree	6%	7%	7%	6%	5%	5%	6%	6%	7%	5%

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Las Positas College

Student Performance: Grade Distribution

| Chemistry (CHEM)										
	Fall Terms					**Spring Terms**				
	F2019	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
Total Course Enrollments	487	502	327	410	484	463	409	364	375	504
Course Success Rates	78%	82%	72%	77%	77%	82%	76%	82%	79%	78%
A	32%	35%	28%	28%	30%	34%	26%	30%	30%	35%
B	27%	30%	26%	30%	29%	31%	33%	30%	29%	22%
C	19%	16%	17%	19%	18%	13%	16%	21%	21%	21%
P	0%	1%	1%	<1%	0%	4%	1%	1%	1%	0%
Course Non-Success Rate	10%	5%	9%	11%	11%	3%	6%	8%	9%	11%
D	7%	2%	3%	6%	6%	2%	3%	4%	6%	6%
F*	3%	3%	5%	5%	5%	2%	3%	4%	3%	4%
Withdrawals (See Note)	11%	13%	20%	12%	12%	15%	18%	11%	11%	12%
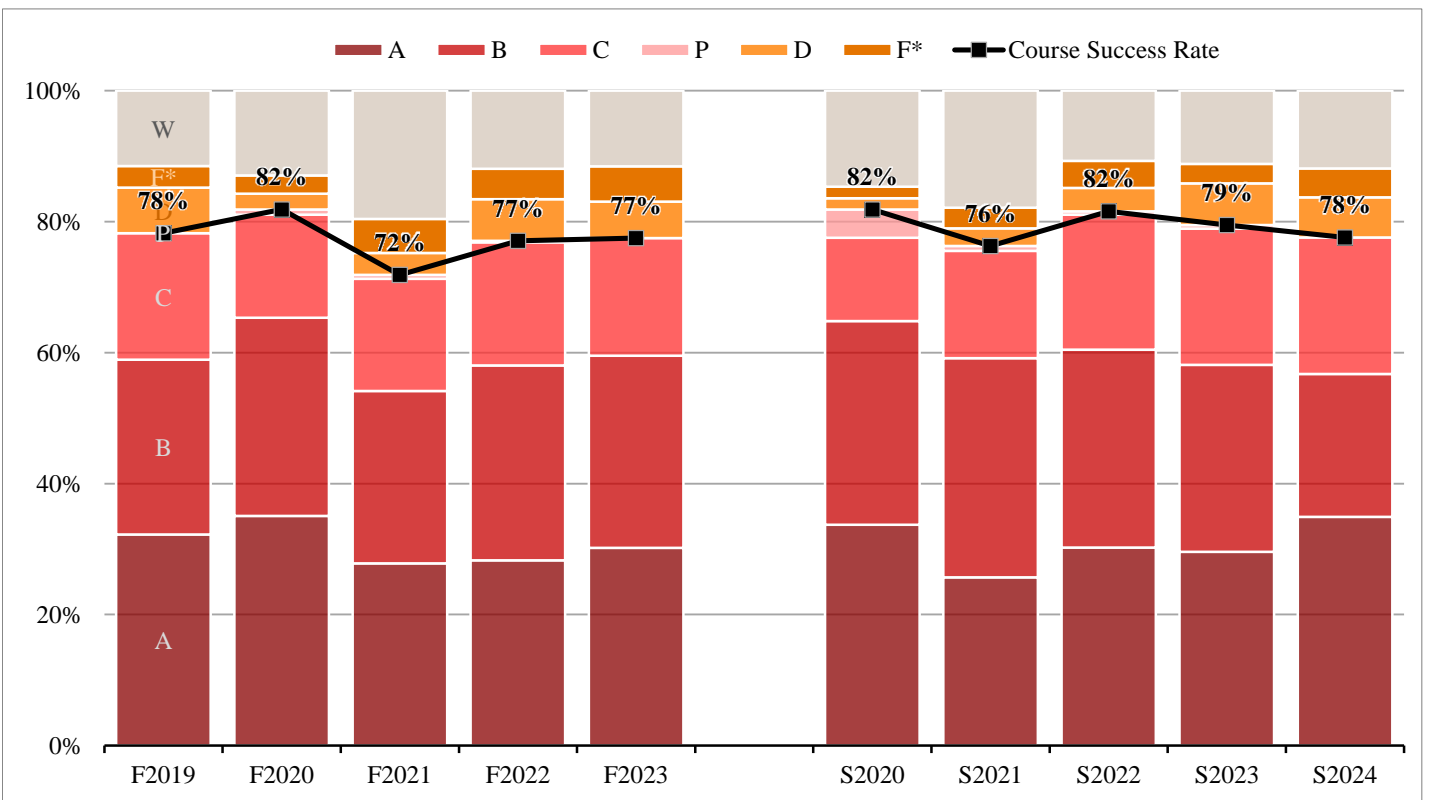
Definitions:

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

Chemistry (CHEM)										
	Fall Terms					**Spring Terms**				
	F2019	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
Total Course Enrollments	487	502	327	410	484	463	409	364	375	504
Face-to-Face (F2F) Sections	487	0	0	209	462	463	0	145	229	471
Success Rates	78%	—	—	79%	77%	82%	—	77%	76%	79%
Non-Success Rates	10%	—	—	11%	11%	3%	—	8%	13%	9%
Withdrawals	11%	—	—	9%	12%	15%	—	15%	11%	12%
Distance Education (DE) Sections	0	502	327	201	22	0	409	219	146	33
Success Rates	—	82%	72%	75%	91%	—	76%	84%	85%	58%
Non-Success Rates	—	5%	9%	10%	9%	—	6%	8%	4%	27%
Withdrawals	—	13%	20%	15%	0%	—	18%	8%	11%	15%
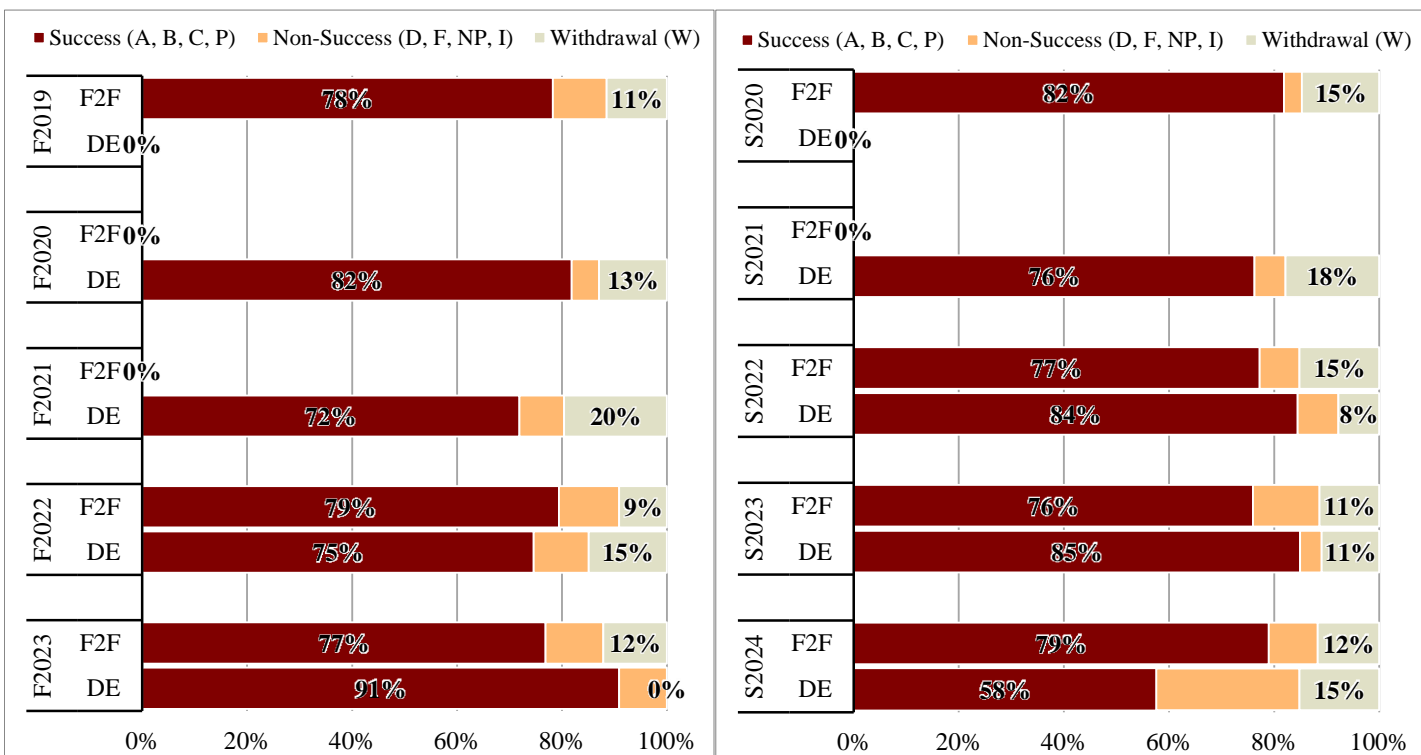
Definitions:

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', '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.

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

Chemistry (CHEM)										
	Fall Terms					**Spring Terms**				
	F2019	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
WSCH	3,636	3,732	2,448	3,084	3,663	3,369	3,033	2,652	2,766	3,762
FTES	119.2	122.7	80.2	101.2	120.4	108.7	99.4	86.6	91.2	123.3
FTEF	9.0	9.2	8.5	8.5	9.0	7.7	7.5	7.7	7.2	9.2
Productivity (WSCH/FTEF)	404.0	406.8	289.7	365.0	407.0	436.1	403.1	343.3	385.5	410.0
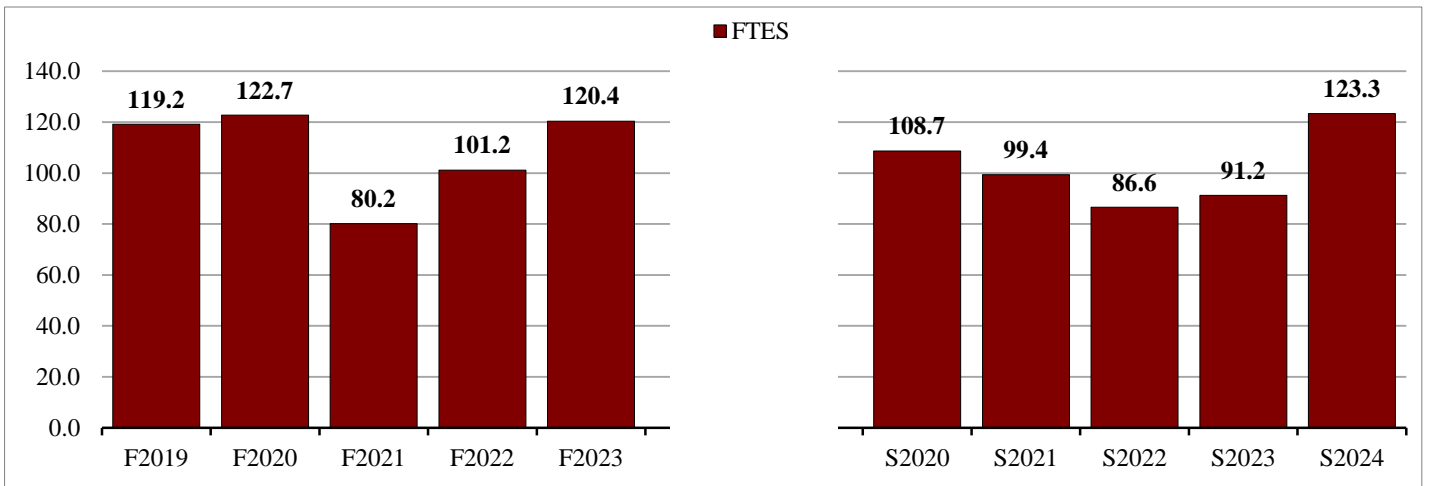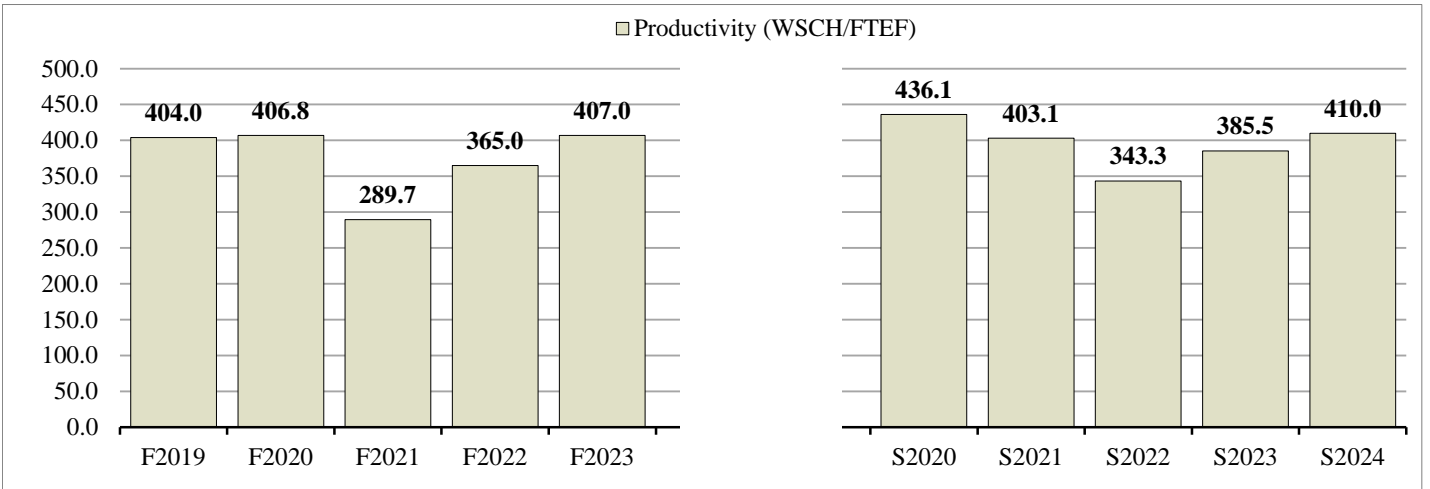
Definitions:

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

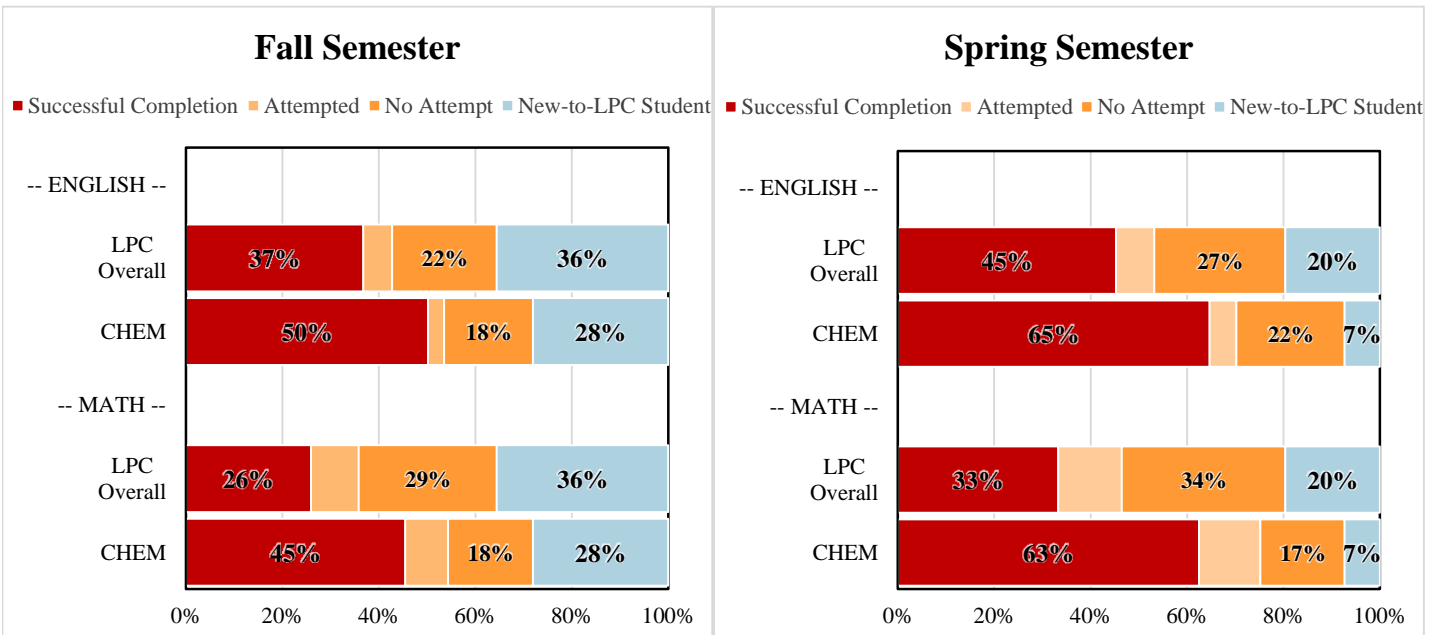| Chemistry (CHEM)										
	Fall Terms					**Spring Terms**				
	F2019	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
FTEF from Full-Time Faculty	3.9	3.9	2.2	3.9	3.9	2.8	2.8	1.7	3.3	3.9
% FTEF from Full-Time Faculty	43%	42%	26%	46%	43%	36%	37%	21%	46%	42%
Enrollments	487	502	327	410	484	463	409	364	375	504
Capacity (seats available)	504	522	375	476	498	452	426	452	430	520
Fill Rate	97%	96%	87%	86%	97%	102%	96%	81%	87%	97%
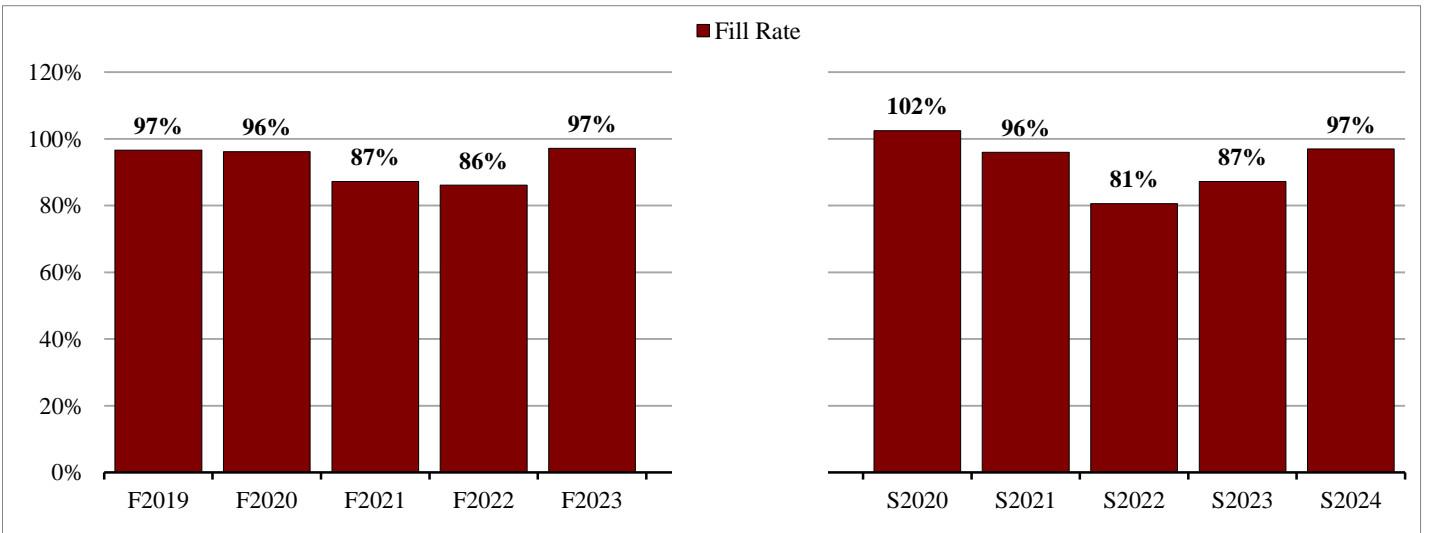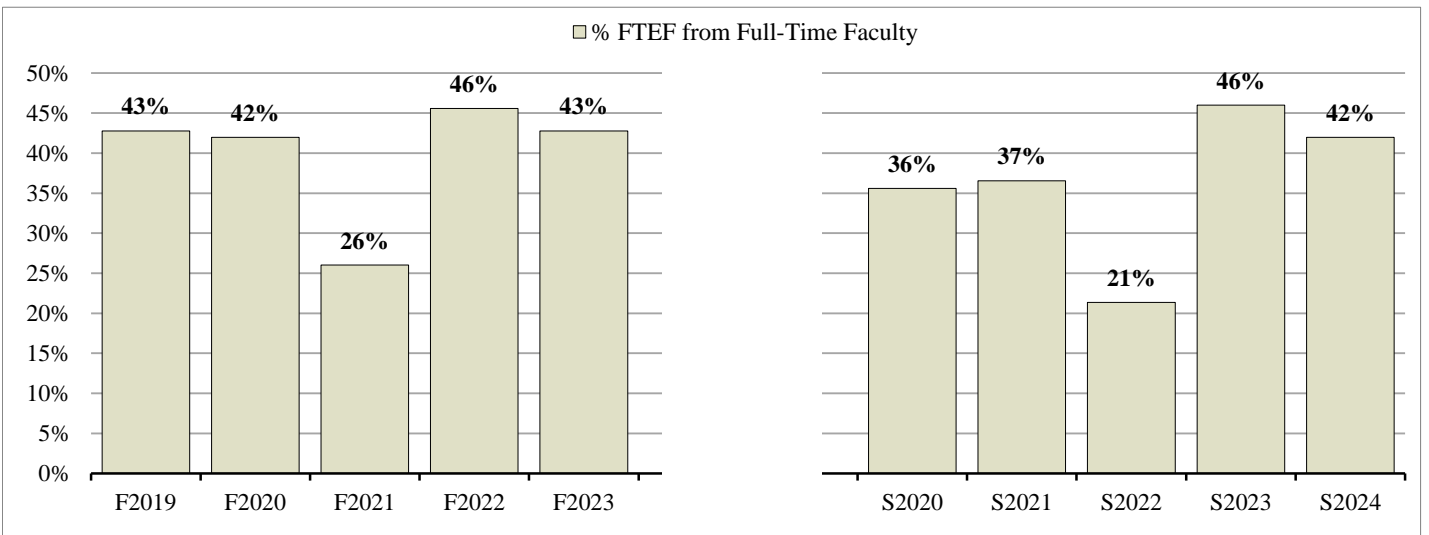
Definitions:

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

(English and math status _prior_ to the start of the term)	Fall 2023				Spring 2024			
	CHEM		LPC Overall		CHEM		LPC Overall	
	Num	Pct	Num	Pct	Num	Pct	Num	Pct
Transfer-level English								
Successful Completion*	243	50%	2,796	37%	326	65%	3,393	45%
Attempted _(not successful)_	16	3%	454	6%	28	6%	600	8%
No Attempt	89	18%	1,652	22%	113	22%	2,036	27%
New-to-LPC Student	136	28%	2,703	36%	37	7%	1,472	20%
Transfer-level Math								
Successful Completion*	220	45%	1,971	26%	315	63%	2,498	33%
Attempted _(not successful)_	43	9%	752	10%	64	13%	986	13%
No Attempt	85	18%	2,179	29%	88	17%	2,545	34%
New-to-LPC Student	136	28%	2,703	36%	37	7%	1,472	20%

Fall Semester

■ Successful Completion ■ Attempted ■ No Attempt ■ New-to-LPC Student

-- ENGLISH --
LPC Overall: 37%, 22%, 36%
CHEM: 50%, 18%, 28%
-- MATH --
LPC Overall: 26%, 29%, 36%
CHEM: 45%, 18%, 28%

Spring Semester

■ Successful Completion ■ Attempted ■ No Attempt ■ New-to-LPC Student

-- ENGLISH --
LPC Overall: 45%, 27%, 20%
CHEM: 65%, 22%, 7%
-- MATH --
LPC Overall: 33%, 34%, 20%
CHEM: 63%, 17%, 7%

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.