Las Positas College

Discipline Program Review Data Packet

Fall 2018 to Spring 2023
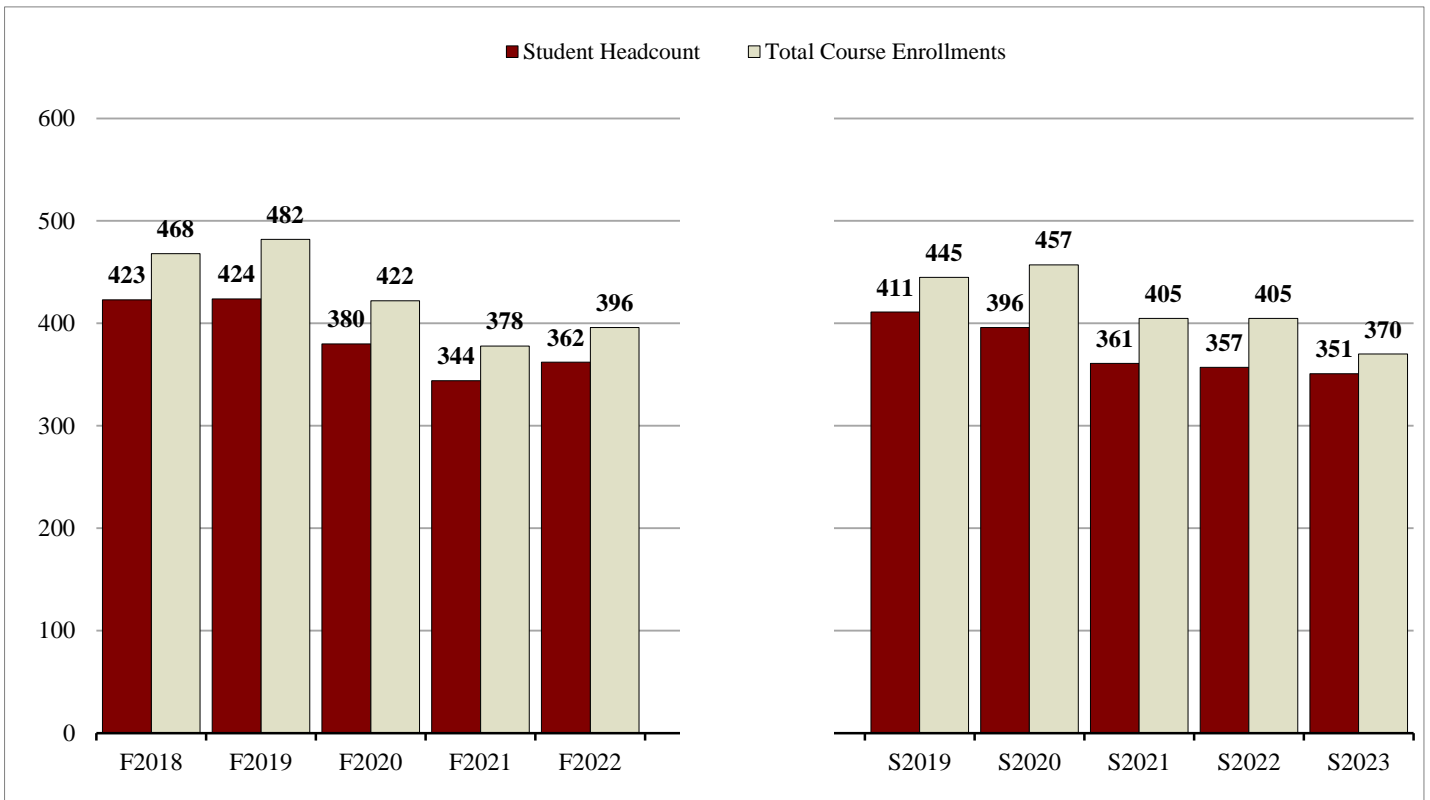
Discipline:

Computer Science (CS)

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Las Positas College

Headcount & Enrollment

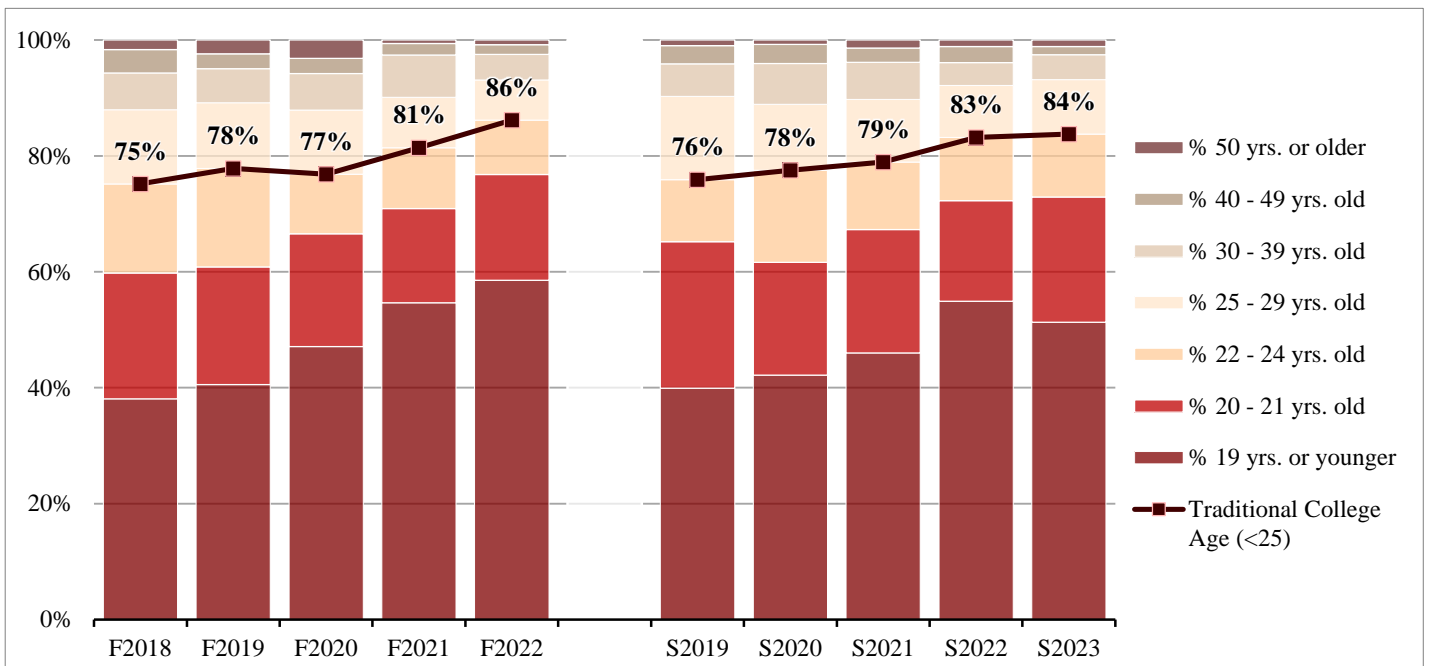| Computer Science (CS)										
	Fall Terms					**Spring Terms**				
	F2018	F2019	F2020	F2021	F2022	S2019	S2020	S2021	S2022	S2023
Student Headcount	423	424	380	344	362	411	396	361	357	351
Total Course Enrollments	468	482	422	378	396	445	457	405	405	370

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.

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Las Positas College

Student Demographics: Gender & Age

Computer Science (CS)										
	Fall Terms					**Spring Terms**				
	F2018	**F2019**	**F2020**	**F2021**	**F2022**	**S2019**	**S2020**	**S2021**	**S2022**	**S2023**
Female	89	91	93	82	71	88	92	82	90	77
Male	327	326	280	256	281	319	295	269	262	266
19 yrs. or younger	161	172	179	188	212	164	167	166	196	180
20-21 yrs. old	92	86	74	56	66	104	77	77	62	76
22-24 yrs. old	65	72	39	36	34	44	63	42	39	38
25-29 yrs. old	54	48	42	30	25	59	45	39	32	33
30-39 yrs. old	27	25	24	25	16	23	28	23	14	15
40-49 yrs. old	17	11	10	7	6	13	13	9	10	5
50 yrs. or older	7	10	12	2	3	4	3	5	4	4
% Female	21%	22%	25%	24%	20%	22%	24%	23%	26%	22%
% Male	79%	78%	75%	76%	80%	78%	76%	77%	74%	78%
% 19 yrs. or younger	38%	41%	47%	55%	59%	40%	42%	46%	55%	51%
% 20 - 21 yrs. old	22%	20%	19%	16%	18%	25%	19%	21%	17%	22%
% 22 - 24 yrs. old	15%	17%	10%	10%	9%	11%	16%	12%	11%	11%
% 25 - 29 yrs. old	13%	11%	11%	9%	7%	14%	11%	11%	9%	9%
% 30 - 39 yrs. old	6%	6%	6%	7%	4%	6%	7%	6%	4%	4%
% 40 - 49 yrs. old	4%	3%	3%	2%	2%	3%	3%	2%	3%	1%
% 50 yrs. or older	2%	2%	3%	1%	1%	1%	1%	1%	1%	1%

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Student Demographic: Race-Ethnicity

Computer Science (CS)										
	Fall Terms					**Spring Terms**				
	F2018	F2019	F2020	F2021	F2022	S2019	S2020	S2021	S2022	S2023
African American	12	15	11	5	13	14	9	10	9	8
Asian	127	141	135	126	135	116	141	119	137	142
Filipino	27	35	17	21	18	31	26	26	19	13
Latino	81	69	70	66	62	85	70	63	68	60
Native American	0	0	0	0	0	0	0	0	0	0
Pacific Islander	3	2	0	4	0	0	1	1	0	1
White	135	133	112	85	94	135	117	107	89	88
Multiethnic	36	19	26	32	30	28	21	28	29	26
Other/Unknown	2	10	9	5	10	2	11	7	6	13
% African American	3%	4%	3%	1%	4%	3%	2%	3%	3%	2%
% Asian	30%	33%	36%	37%	37%	28%	36%	33%	38%	40%
% Filipino	6%	8%	4%	6%	5%	8%	7%	7%	5%	4%
% Latino	19%	16%	18%	19%	17%	21%	18%	17%	19%	17%
% Native American	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% Pacific Islander	1%	<1%	0%	1%	0%	0%	<1%	<1%	0%	<1%
% White	32%	31%	29%	25%	26%	33%	30%	30%	25%	25%
% Multiethnic	9%	4%	7%	9%	8%	7%	5%	8%	8%	7%
% Other/Unknown	<1%	2%	2%	1%	3%	<1%	3%	2%	2%	4%
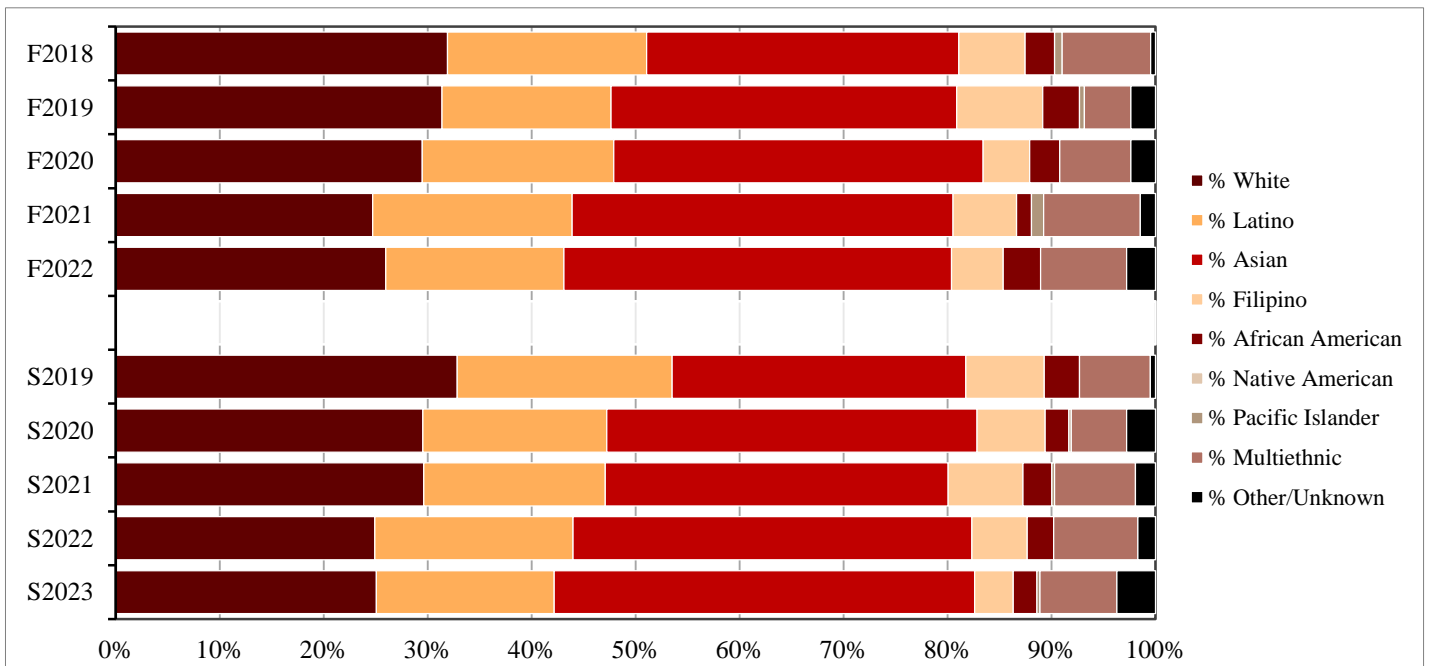
Student Enrollment Status

Computer Science (CS)										
	Fall Terms					**Spring Terms**				
	F2018	**F2019**	**F2020**	**F2021**	**F2022**	**S2019**	**S2020**	**S2021**	**S2022**	**S2023**
First-Time Any College	80	75	84	88	102	15	11	12	8	11
First-Time Transfer	28	25	12	13	22	19	19	15	18	14
Continuing	293	289	241	214	210	356	337	301	282	300
Returning	15	23	19	14	7	10	11	13	12	10
Concurrent Enrollment	7	12	24	15	21	11	18	20	37	16
% First-Time Any College	19%	18%	22%	26%	28%	4%	3%	3%	2%	3%
% First-Time Transfer	7%	6%	3%	4%	6%	5%	5%	4%	5%	4%
% Continuing	69%	68%	63%	62%	58%	87%	85%	83%	79%	85%
% Returning	4%	5%	5%	4%	2%	2%	3%	4%	3%	3%
% Concurrent Enrollment	2%	3%	6%	4%	6%	3%	5%	6%	10%	5%
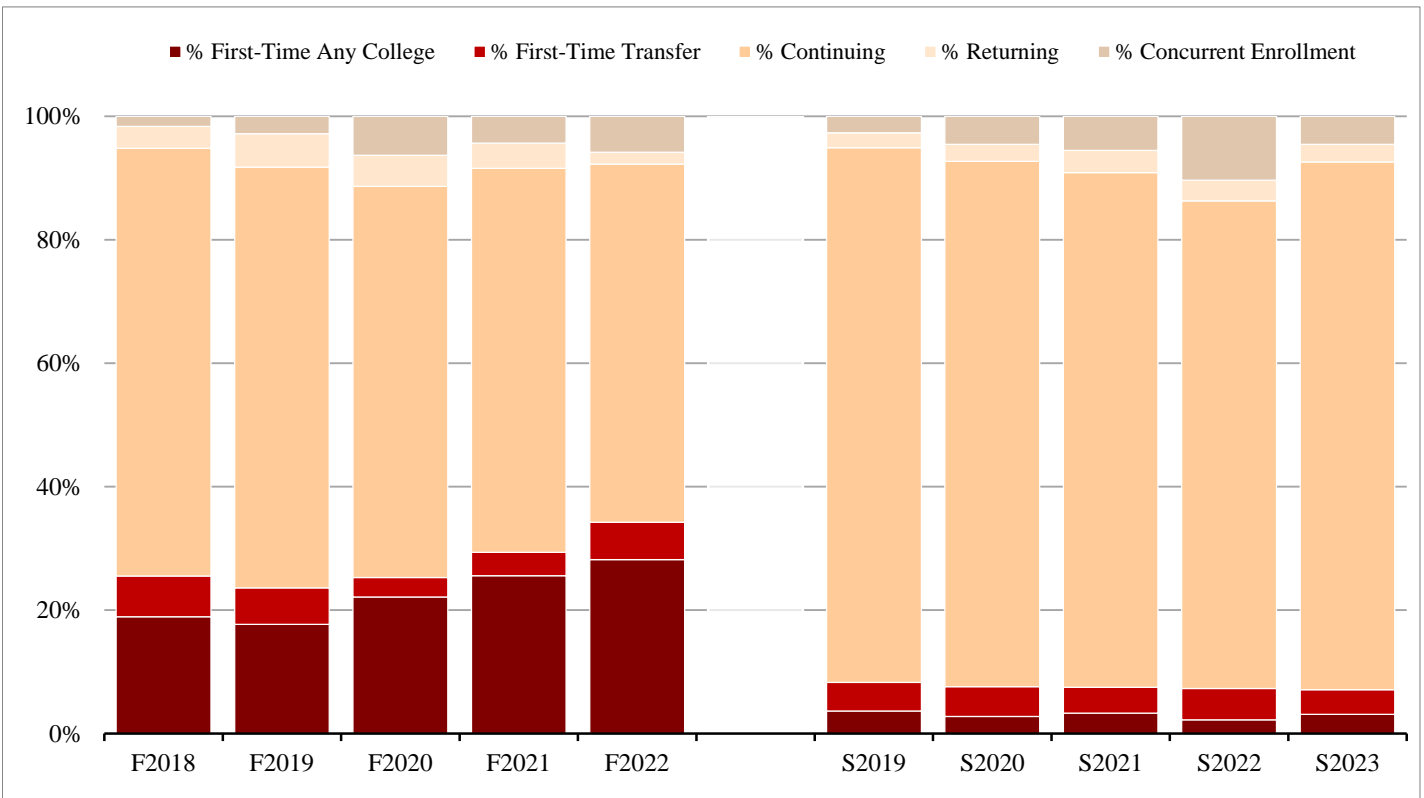
Definitions:

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

Computer Science (CS)										
	Fall Terms					Spring Terms				
	F2018	F2019	F2020	F2021	F2022	S2019	S2020	S2021	S2022	S2023
Full-Time (15+ units)	106	125	120	111	129	109	120	118	107	123
Full-Time (12 - 14.5 units)	157	137	101	110	120	138	133	85	99	97
Part-Time (6 - 11.5 units)	119	123	109	86	79	125	100	125	104	109
Part-Time (0.5 - 5.5 units)	41	39	50	37	34	39	43	33	47	22
Non-Credit Only	0	0	0	0	0	0	0	0	0	0
% Full-Time (15+ units)	25%	29%	32%	32%	36%	27%	30%	33%	30%	35%
% Full-Time (12 - 14.5)	37%	32%	27%	32%	33%	34%	34%	24%	28%	28%
% Part-Time (6 - 11.5)	28%	29%	29%	25%	22%	30%	25%	35%	29%	31%
% Part-Time (0.5 - 5.5)	10%	9%	13%	11%	9%	9%	11%	9%	13%	6%
% Non-Credit Only	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
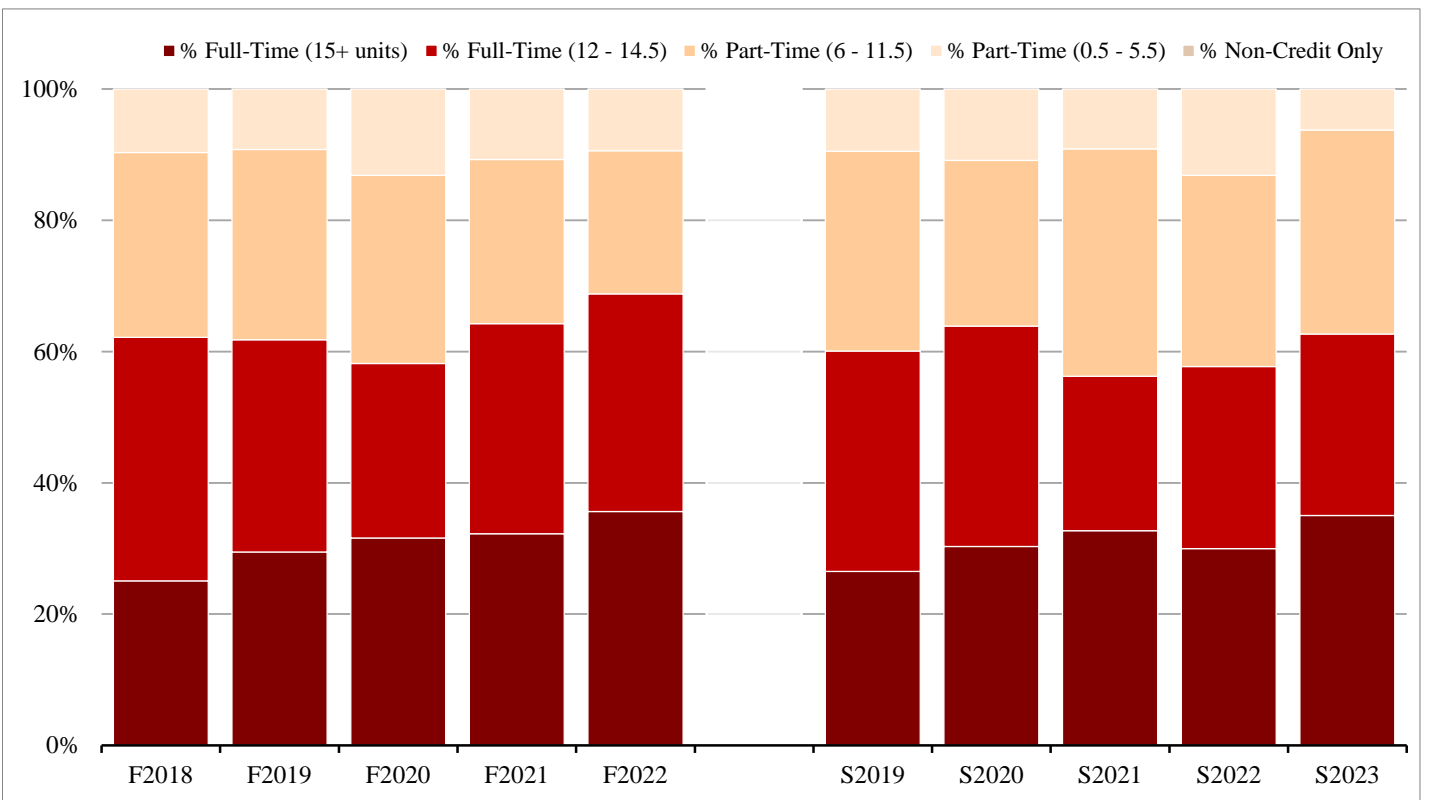
Students Using Distance Education

| Computer Science (CS)										
	Fall Terms					Spring Terms				
(Categories reflect college-wide coursework)	F2018	F2019	F2020	F2021	F2022	S2019	S2020	S2021	S2022	S2023
Face-to-Face (F2F) Only	331	323	0	0	96	328	283	0	64	82
Both F2F and DE	92	101	2	90	210	82	113	31	198	230
Distance Education (DE) Only	0	0	378	254	56	1	0	330	95	39
% Face-to-Face (F2F) Only	78%	76%	0%	0%	27%	80%	71%	0%	18%	23%
% Both F2F and DE	22%	24%	1%	26%	58%	20%	29%	9%	55%	66%
% Distance Education (DE) Only	0%	0%	99%	74%	15%	<1%	0%	91%	27%	11%
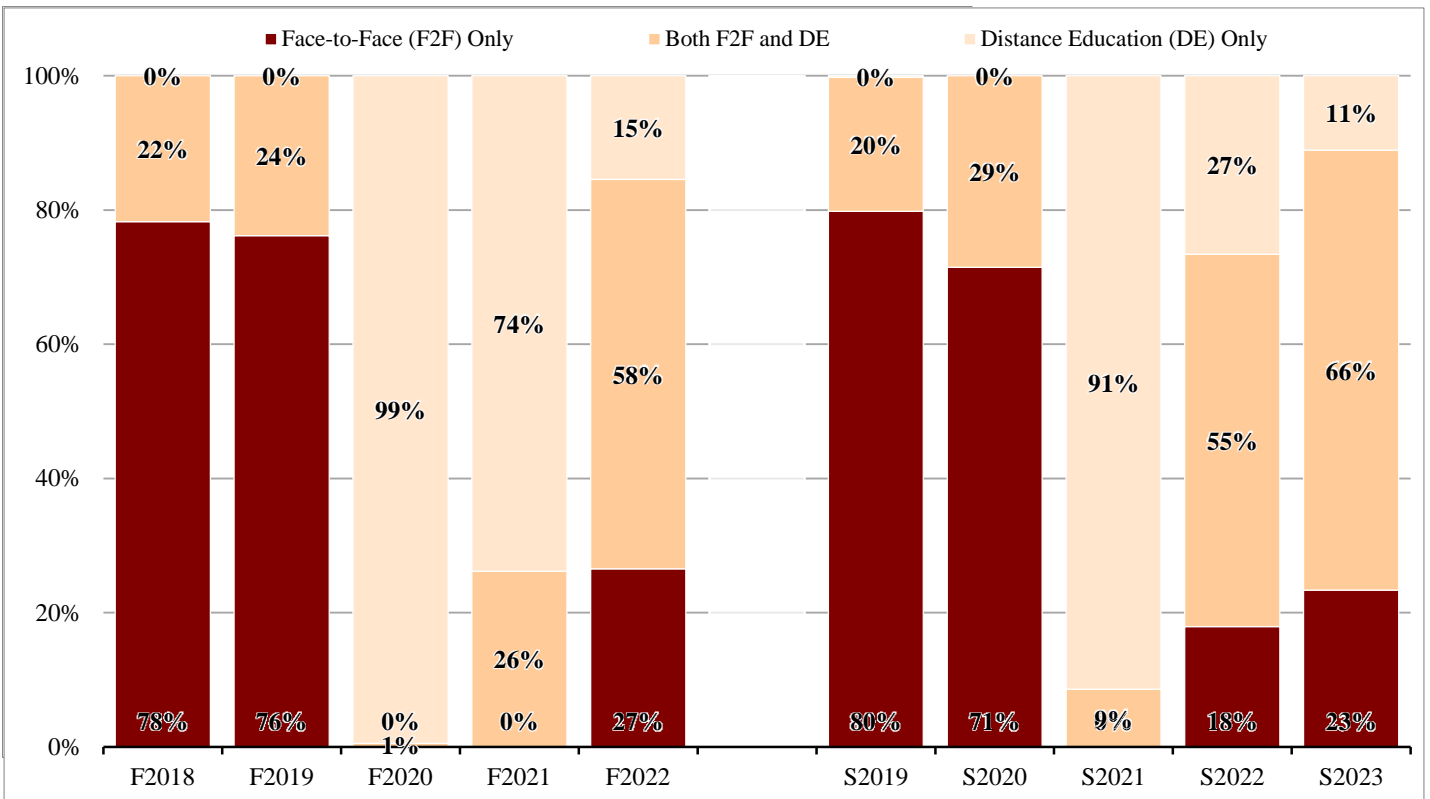
Definitions:

Distance Education (DE) includes enrollments in course sections that begin with 'DE', 'HD', 'LD' and 'LO'. In 2020-21, due to the COVID-19 pandemic, DE sections were distinguished through provisional designations.

Student Educational Goal

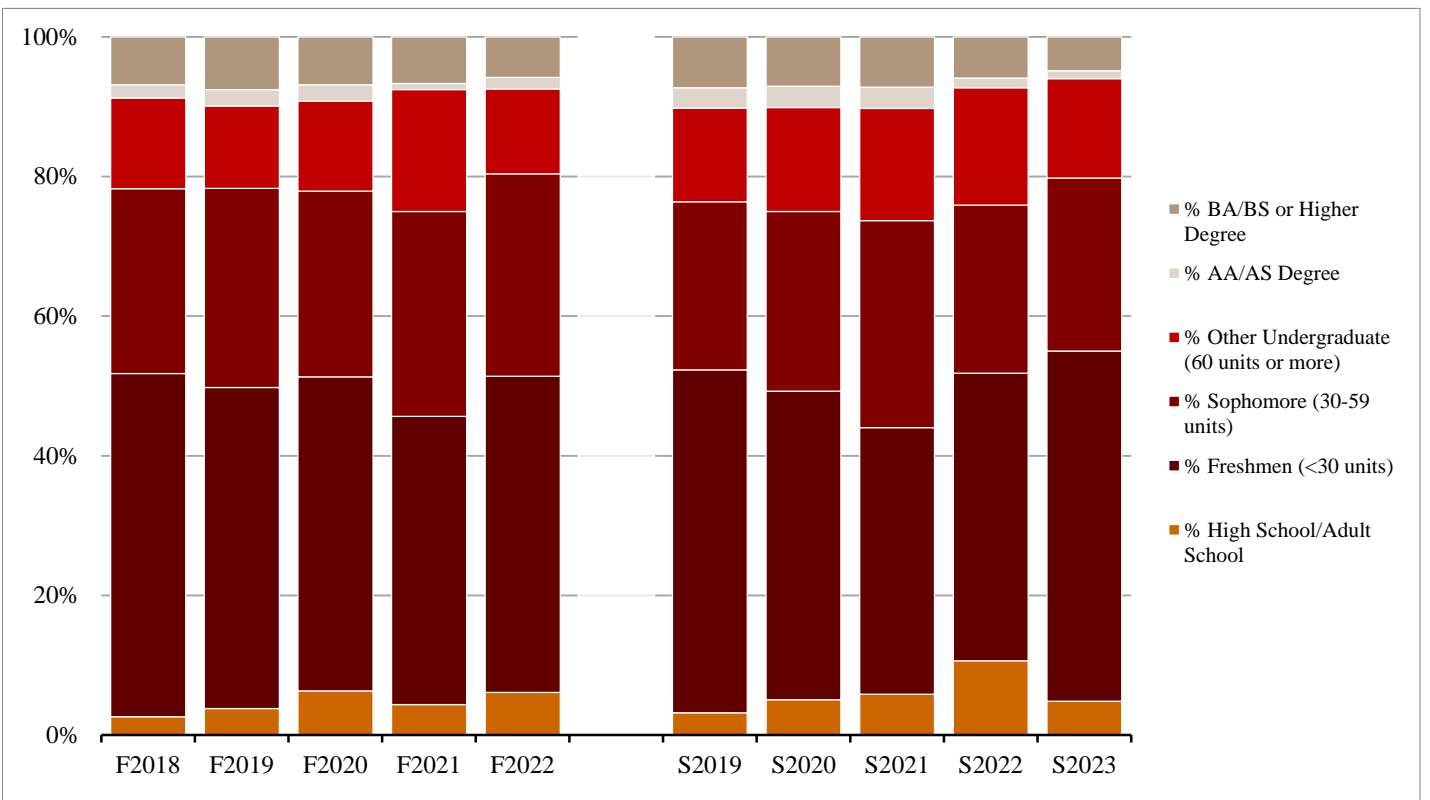| Computer Science (CS)										
	Fall Terms					Spring Terms				
	F2018	F2019	F2020	F2021	F2022	S2019	S2020	S2021	S2022	S2023
Transfer (w/ or w/o AA/AS degree)	345	328	289	278	292	328	309	285	283	285
Associate Degree Only (AA/AS)	15	19	14	12	7	14	9	12	9	7
Occupational Certificate / Job Training	31	34	30	23	24	32	28	22	15	23
Improve English/Math Basic Skills	2	4	4	3	2	2	6	2	3	3
Personal Development (intellectual/cultural)	7	13	11	5	11	4	11	6	11	10
Other	1	2	11	0	7	2	4	3	8	4
Undecided	22	24	21	23	19	28	29	31	28	19
Unknown	0	0	0	0	0	1	0	0	0	0
% Transfer (w/ or w/o AA/AS degree)	82%	77%	76%	81%	81%	80%	78%	79%	79%	81%
% Associate Degree Only (AA/AS)	4%	4%	4%	3%	2%	3%	2%	3%	3%	2%
% Occupational Certificate / Job Training	7%	8%	8%	7%	7%	8%	7%	6%	4%	7%
% Improve English/Math Basic Skills	<1%	1%	1%	1%	1%	<1%	2%	1%	1%	1%
% Personal Dev. (intellectual/cultural)	2%	3%	3%	1%	3%	1%	3%	2%	3%	3%
% Other	<1%	<1%	3%	0%	2%	<1%	1%	1%	2%	1%
% Undecided	5%	6%	6%	7%	5%	7%	7%	9%	8%	5%
% Unknown	0%	0%	0%	0%	0%	<1%	0%	0%	0%	0%
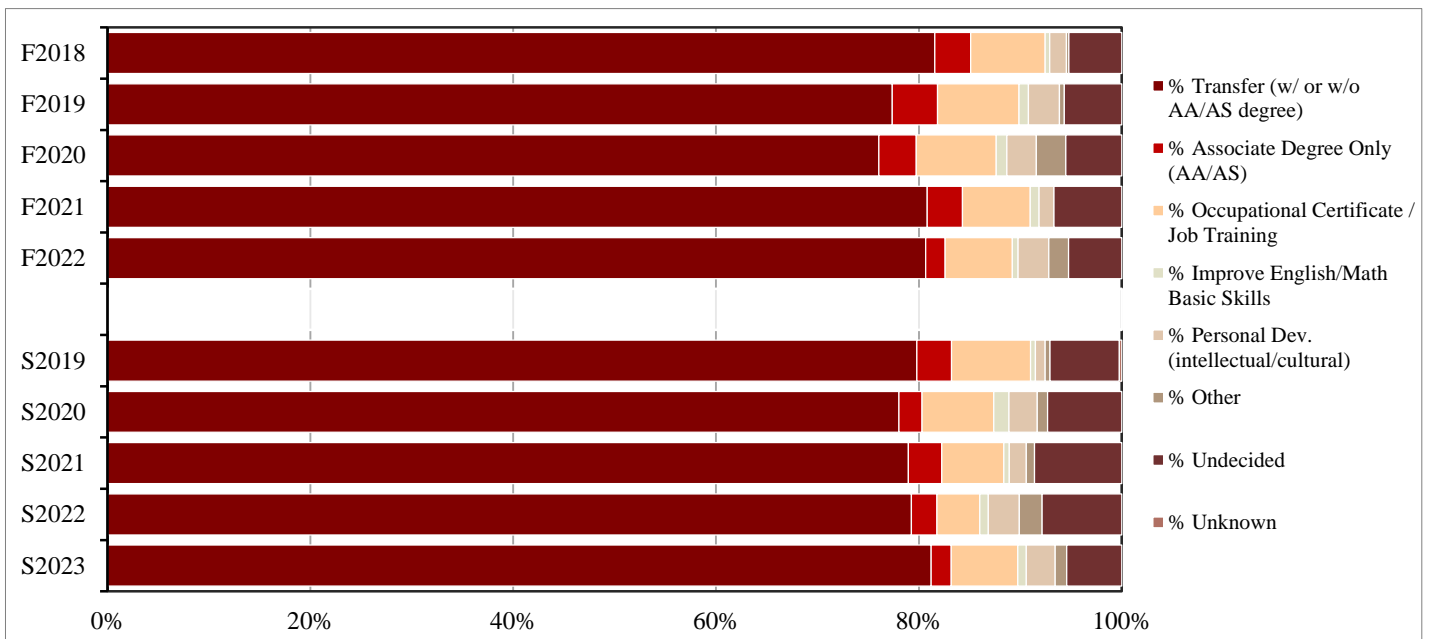
Definitions:

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

Computer Science (CS)										
	Fall Terms					**Spring Terms**				
	F2018	**F2019**	**F2020**	**F2021**	**F2022**	**S2019**	**S2020**	**S2021**	**S2022**	**S2023**
High School/Adult School	11	16	24	15	22	13	20	21	38	17
Freshmen (<30 units)	208	195	171	142	164	202	175	138	147	176
Sophomore (30-59 units)	112	121	101	101	105	99	102	107	86	87
Other Undergraduate (60 units or more)	55	50	49	60	44	55	59	58	60	50
AA/AS Degree	8	10	9	3	6	12	12	11	5	4
BA/BS or Higher Degree	29	32	26	23	21	30	28	26	21	17
% High School/Adult School	3%	4%	6%	4%	6%	3%	5%	6%	11%	5%
% Freshmen (<30 units)	49%	46%	45%	41%	45%	49%	44%	38%	41%	50%
% Sophomore (30-59 units)	26%	29%	27%	29%	29%	24%	26%	30%	24%	25%
% Other Undergraduate (60 units or more)	13%	12%	13%	17%	12%	13%	15%	16%	17%	14%
% AA/AS Degree	2%	2%	2%	1%	2%	3%	3%	3%	1%	1%
% BA/BS or Higher Degree	7%	8%	7%	7%	6%	7%	7%	7%	6%	5%

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Las Positas College

Student Performance: Grade Distribution

| Computer Science (CS)										
	Fall Terms					Spring Terms				
	F2018	F2019	F2020	F2021	F2022	S2019	S2020	S2021	S2022	S2023
Total Course Enrollments	468	482	422	378	396	445	457	405	405	370
Course Success Rates	**66%**	**64%**	**67%**	**70%**	**68%**	**65%**	**70%**	**66%**	**73%**	**72%**
A	33%	31%	36%	34%	34%	27%	36%	31%	36%	34%
B	20%	21%	21%	24%	20%	23%	19%	24%	23%	25%
C	12%	12%	9%	11%	14%	15%	11%	10%	13%	14%
P	0%	<1%	<1%	<1%	1%	<1%	3%	1%	2%	<1%
Course Non-Success Rate	**16%**	**11%**	**13%**	**10%**	**14%**	**15%**	**7%**	**13%**	**15%**	**14%**
D	5%	5%	5%	3%	6%	4%	2%	6%	5%	5%
F*	11%	6%	8%	7%	8%	12%	5%	7%	10%	10%
Withdrawals (See Note)	**18%**	**25%**	**20%**	**21%**	**18%**	**19%**	**23%**	**21%**	**12%**	**13%**
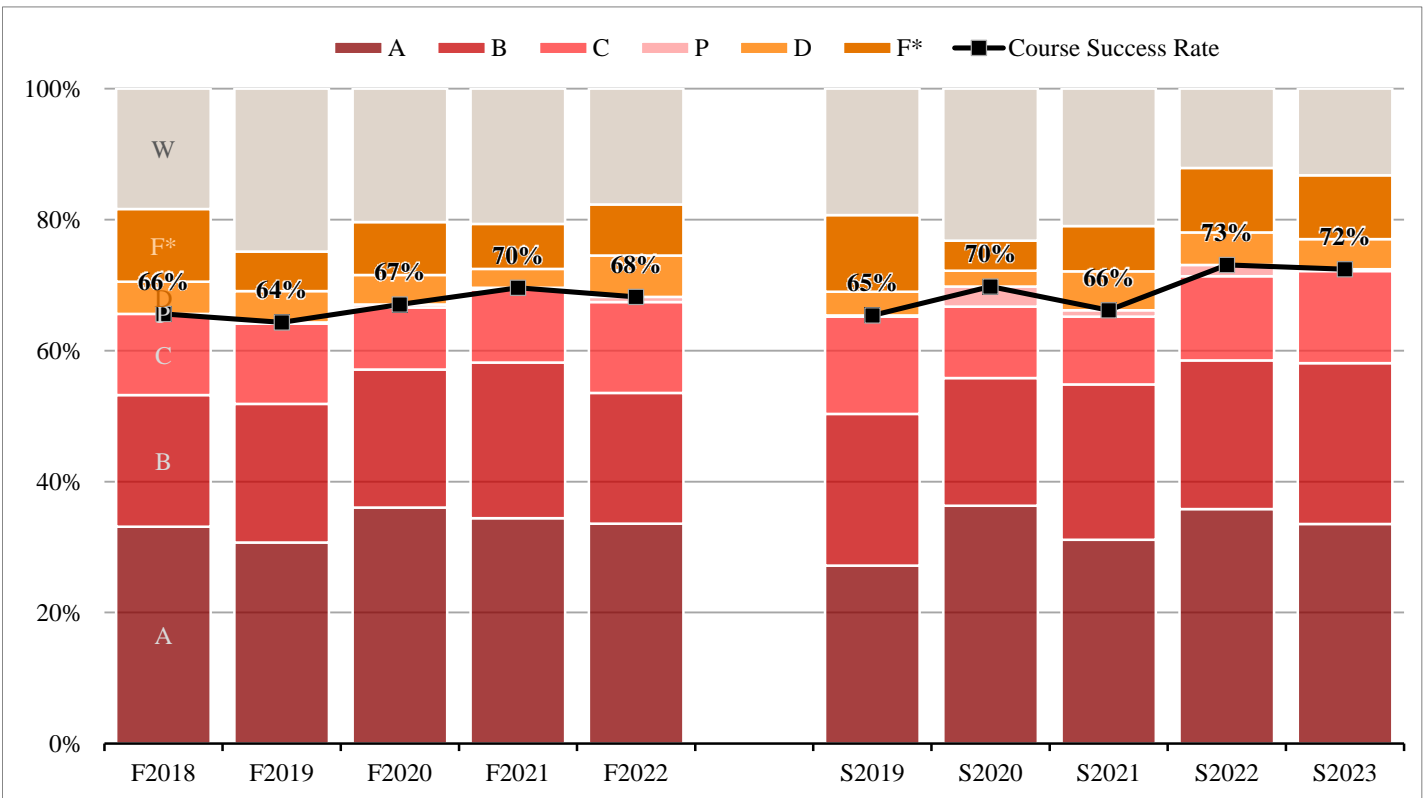
Definitions:

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.

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Student Performance: Distance Education

Computer Science (CS)										
	Fall Terms					**Spring Terms**				
	F2018	**F2019**	**F2020**	**F2021**	**F2022**	**S2019**	**S2020**	**S2021**	**S2022**	**S2023**
Total Course Enrollments	468	482	422	378	396	445	457	405	405	370
Face-to-Face (F2F) Sections	466	478	0	0	285	444	455	0	224	262
Success Rates	66%	64%	—	—	73%	65%	70%	—	76%	73%
Non-Success Rates	16%	11%	—	—	14%	15%	7%	—	13%	15%
Withdrawals	18%	25%	—	—	13%	19%	23%	—	11%	12%
Distance Education (DE) Sections	2	4	422	378	111	1	2	405	181	108
Success Rates	50%	100%	67%	70%	56%	100%	50%	66%	70%	71%
Non-Success Rates	50%	0%	13%	10%	15%	0%	50%	13%	17%	12%
Withdrawals	0%	0%	20%	21%	29%	0%	0%	21%	14%	17%
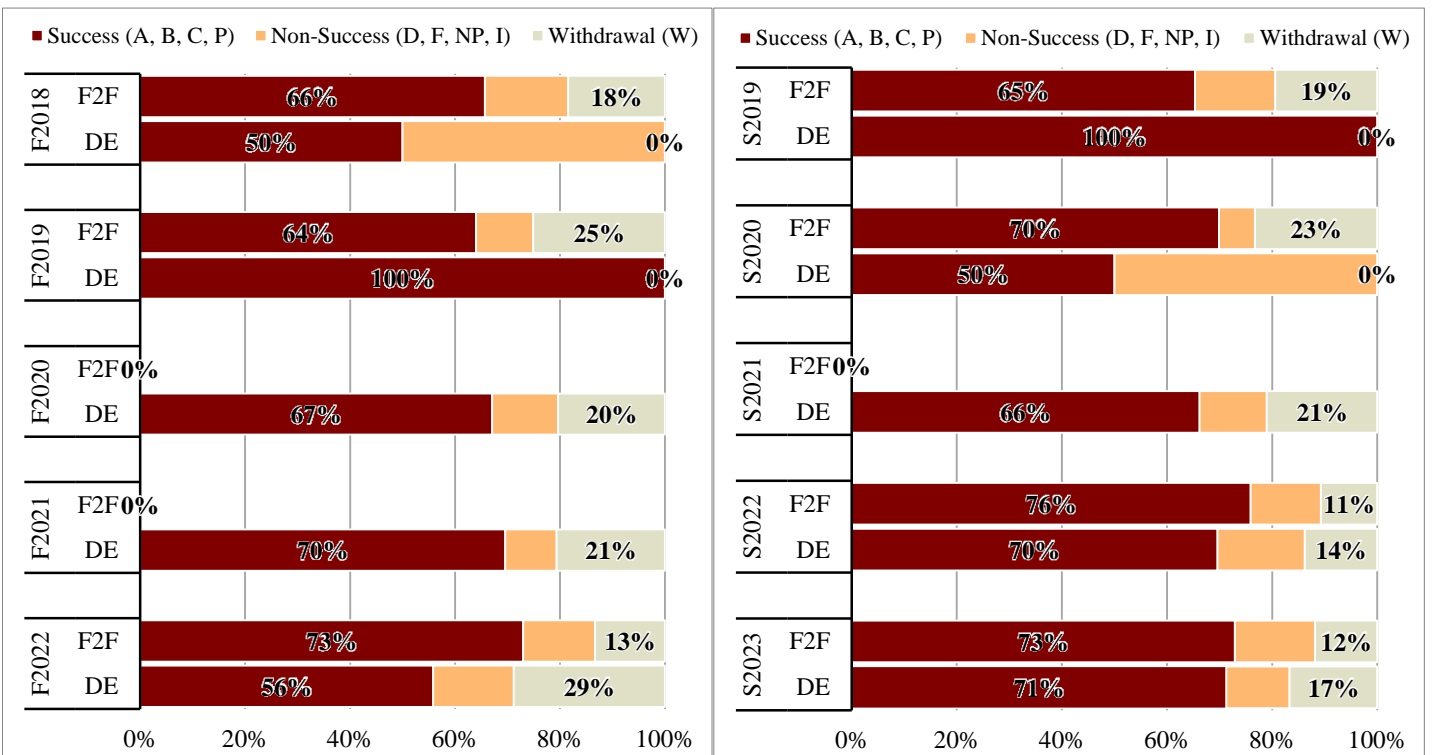
Definitions:

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 begin with 'DE', 'HD', 'LD' and 'LO'. In 2020-21, due to the COVID-19 pandemic, DE sections were distinguished through provisional designations.

Enrollment Management: Part 1

Computer Science (CS)										
	Fall Terms					Spring Terms				
	F2018	F2019	F2020	F2021	F2022	S2019	S2020	S2021	S2022	S2023
WSCH	2,692	2,779	2,409	2,170	2,267	2,553	2,605	2,258	2,249	2,084
FTES	86.4	89.1	77.3	70.5	73.7	80.6	83.3	72.4	73.3	67.5
FTEF	5.0	5.0	4.7	4.3	4.7	4.8	4.6	4.3	4.3	4.3
Productivity (WSCH/FTEF)	535.0	556.8	514.5	500.9	484.2	532.9	561.3	521.2	519.2	481.1
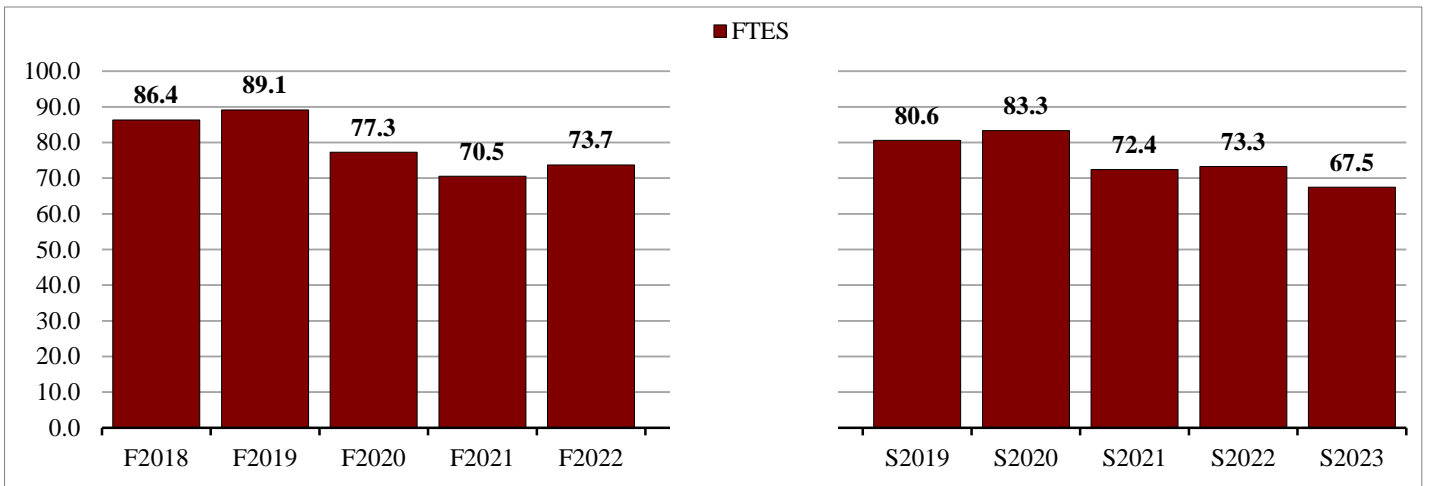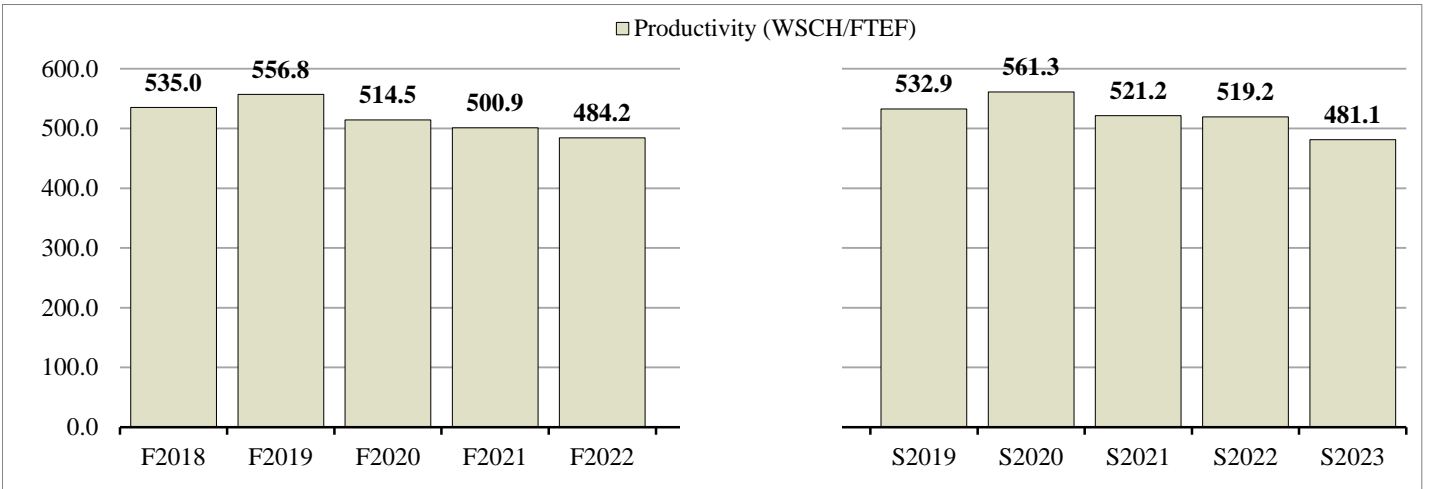
Definitions:

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

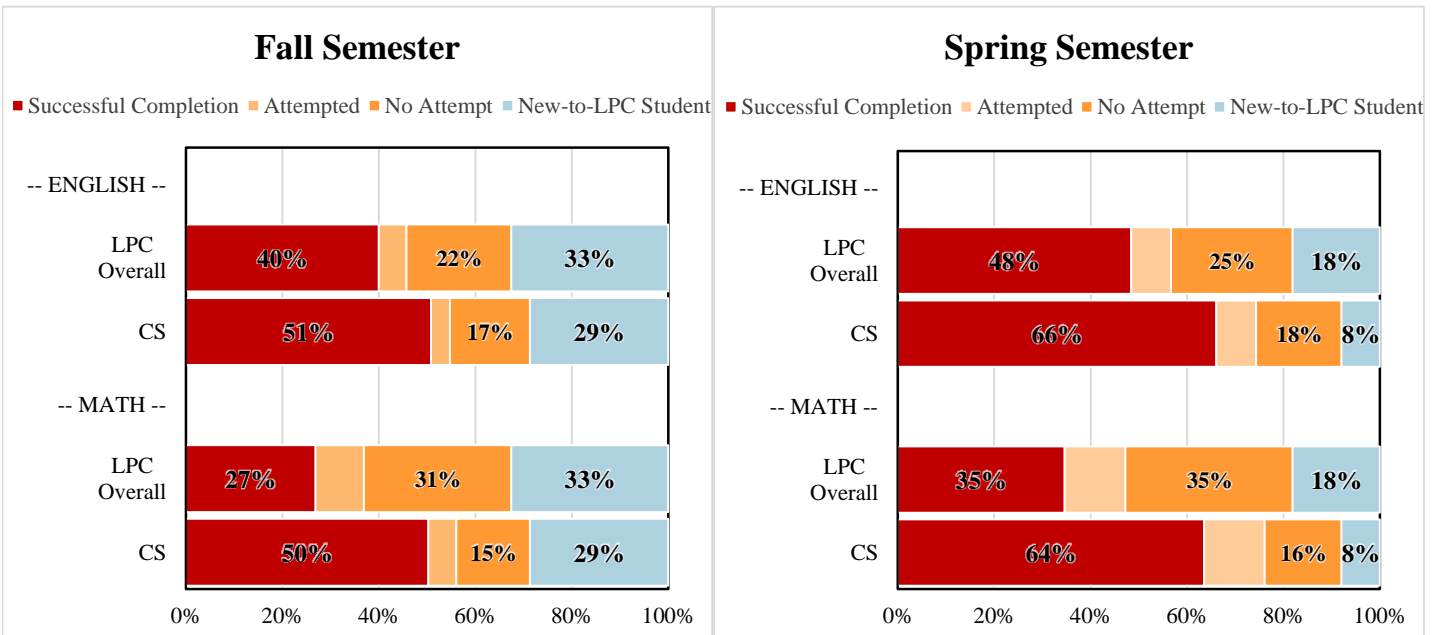| Computer Science (CS)										
	Fall Terms					**Spring Terms**				
	F2018	**F2019**	**F2020**	**F2021**	**F2022**	**S2019**	**S2020**	**S2021**	**S2022**	**S2023**
FTEF from Full-Time Faculty	2.0	2.1	2.1	1.8	2.0	1.8	2.3	1.8	2.1	1.4
% FTEF from Full-Time Faculty	40%	42%	45%	40%	43%	37%	50%	40%	48%	32%
Enrollments	468	482	422	378	396	445	457	405	405	370
Capacity (seats available)	451	450	390	390	420	495	401	370	370	375
Fill Rate	104%	107%	108%	97%	94%	90%	114%	109%	109%	99%
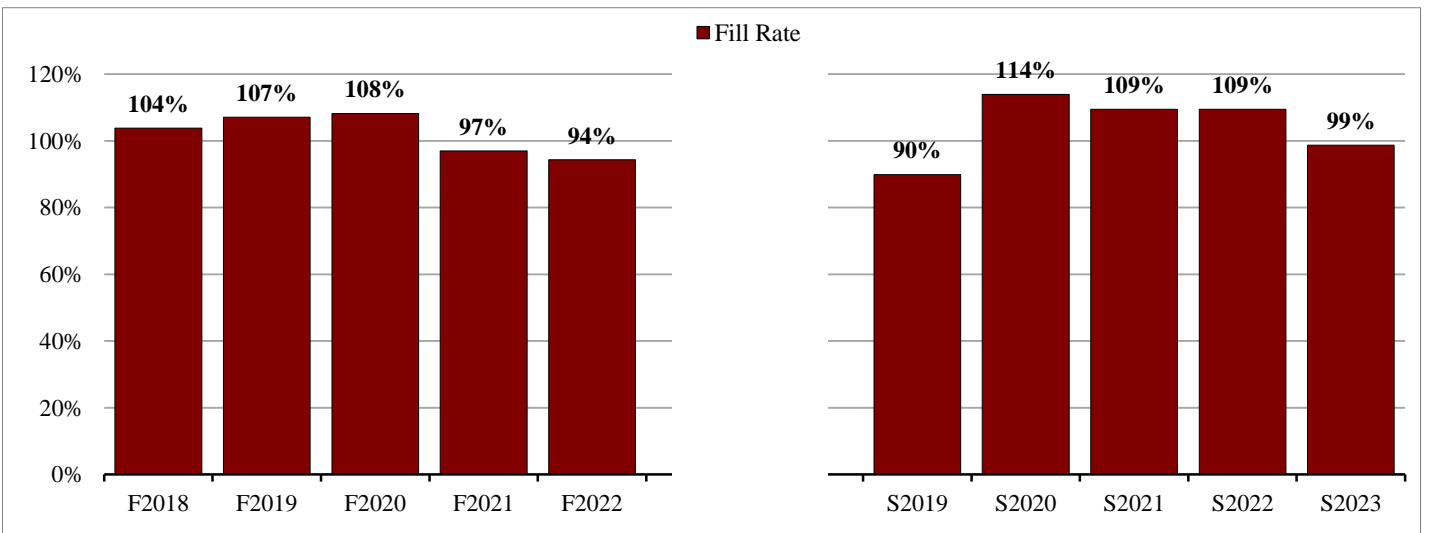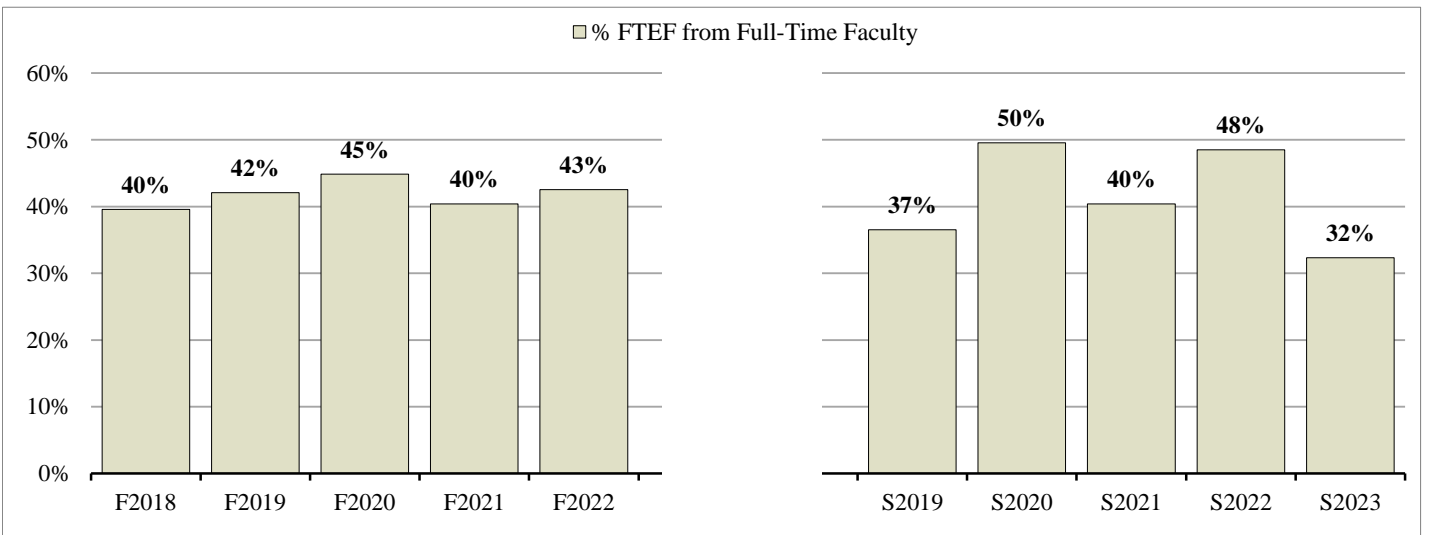
Definitions:

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.

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Las Positas College

Prior Experience in English & Math

(English and math status *prior* to the start of the term)	Fall 2022				Spring 2023			
	CS		LPC Overall		CS		LPC Overall	
	Num	Pct	Num	Pct	Num	Pct	Num	Pct
Transfer-level English								
Successful Completion*	184	51%	2,729	40%	232	66%	3,203	48%
Attempted *(not successful)*	14	4%	391	6%	29	8%	546	8%
No Attempt	60	17%	1,484	22%	62	18%	1,672	25%
New-to-LPC Student	104	29%	2,221	33%	28	8%	1,197	18%
Transfer-level Math								
Successful Completion*	182	50%	1,835	27%	223	64%	2,288	35%
Attempted *(not successful)*	21	6%	683	10%	44	13%	837	13%
No Attempt	55	15%	2,086	31%	56	16%	2,296	35%
New-to-LPC Student	104	29%	2,221	33%	28	8%	1,197	18%

Fall Semester

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

-- ENGLISH --
- LPC Overall: 40% | 22% | 33%
- CS: 51% | 17% | 29%

-- MATH --
- LPC Overall: 27% | 31% | 33%
- CS: 50% | 15% | 29%

Spring Semester

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

-- ENGLISH --
- LPC Overall: 48% | 25% | 18%
- CS: 66% | 18% | 8%

-- MATH --
- LPC Overall: 35% | 35% | 18%
- CS: 64% | 16% | 8%

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