Las Positas College

Discipline Program Review Data Packet

Fall 2019 to Spring 2024

Discipline:

Computer Science (CS)

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

Headcount & Enrollment

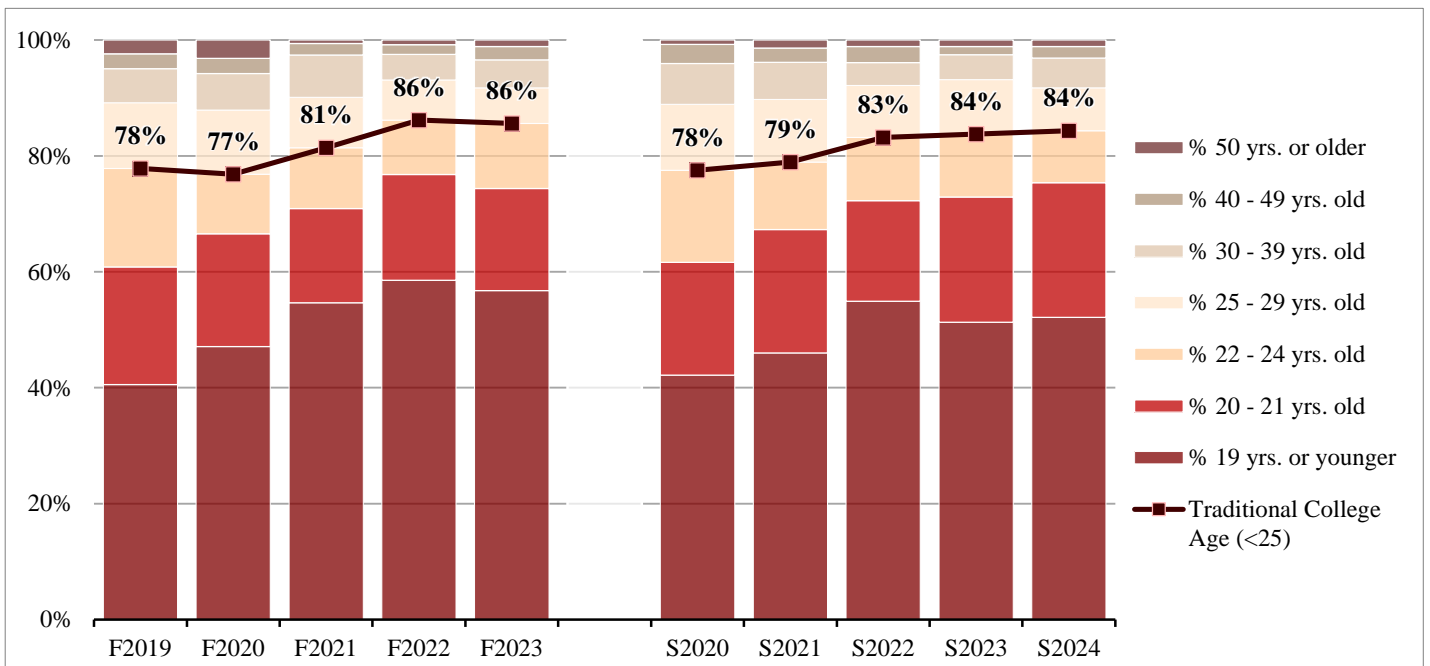| Computer Science (CS)										
	Fall Terms					**Spring Terms**				
	F2019	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
Student Headcount	424	380	344	362	437	396	361	357	351	447
Total Course Enrollments	482	422	378	396	478	457	405	405	370	499
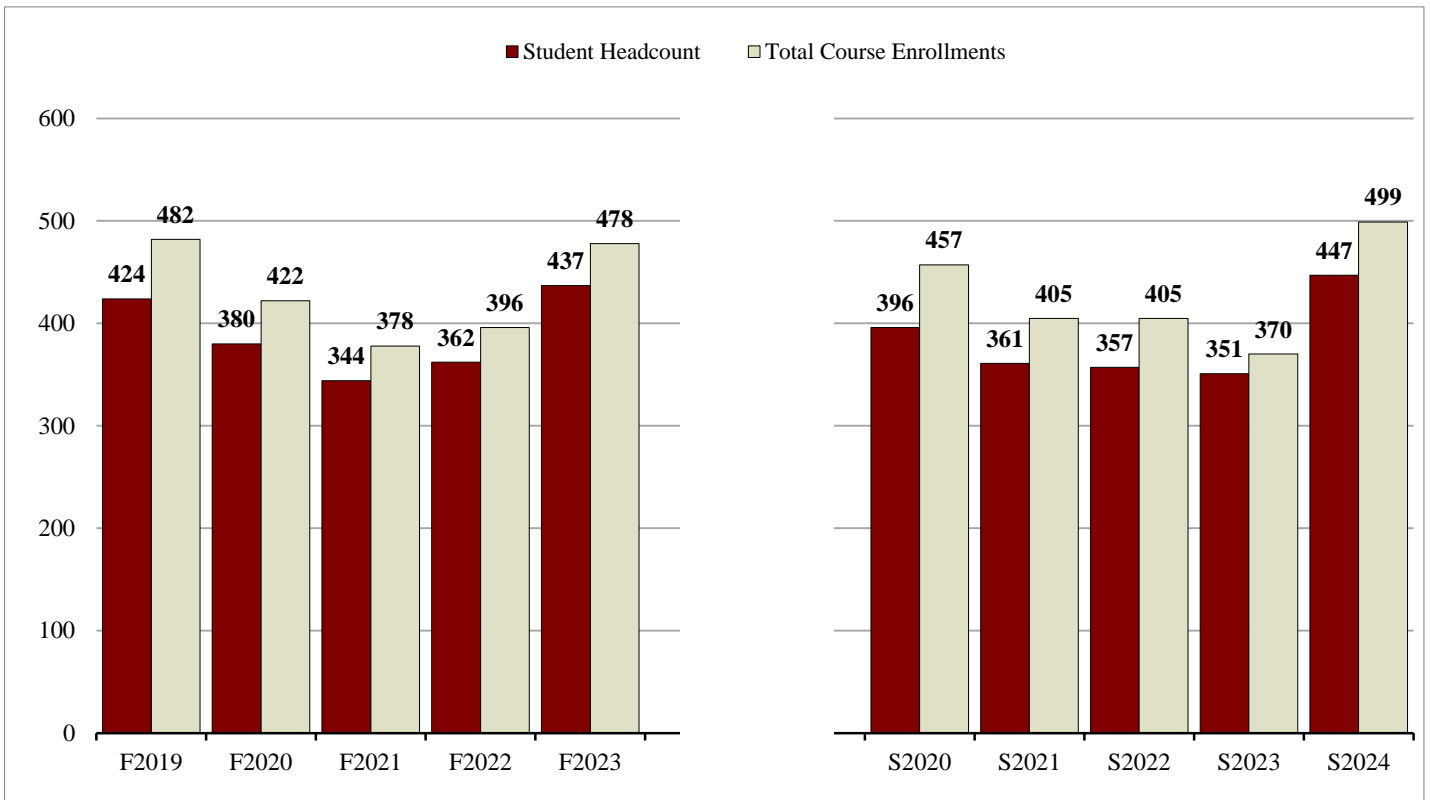
Definitions:

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.
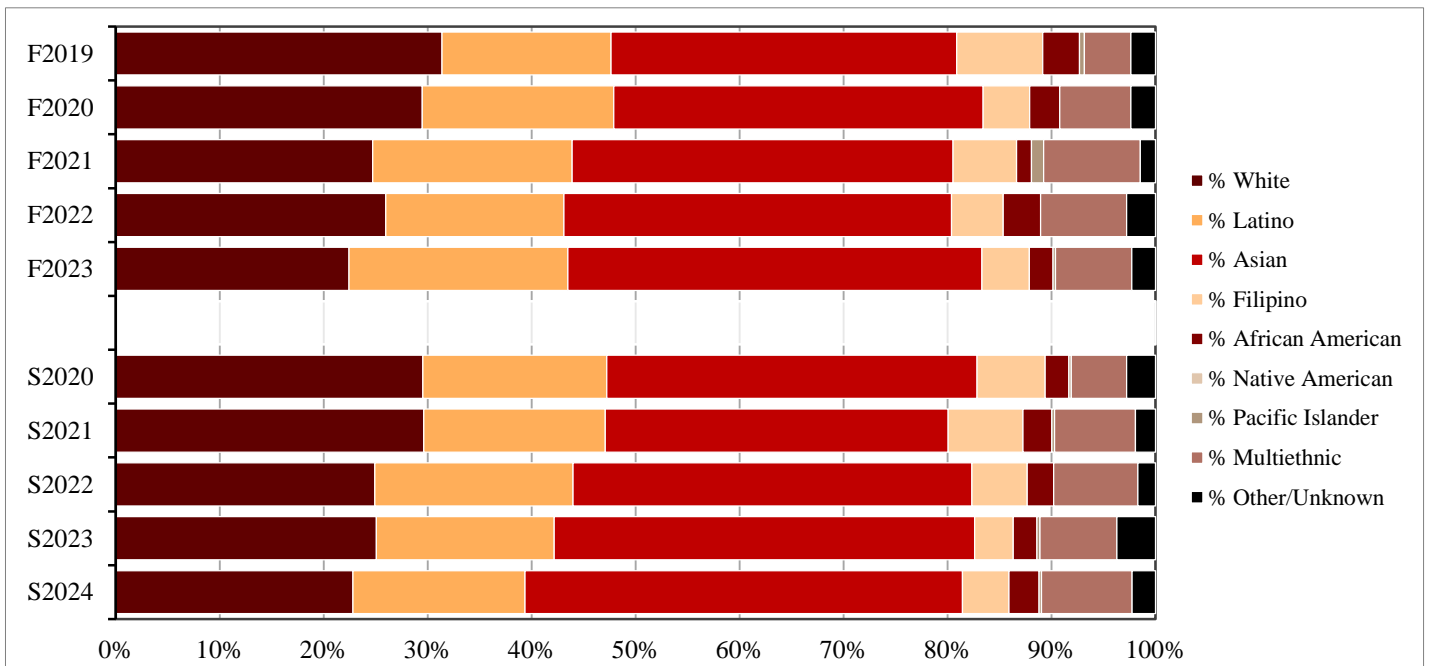
Student Demographics: Gender & Age

Computer Science (CS)										
	Fall Terms					Spring Terms				
	F2019	F2020	F2021	F2022	F2023	S2020	S2021	S2022	S2023	S2024
Female	91	93	82	71	111	92	82	90	77	108
Male	326	280	256	281	301	295	269	262	266	317
19 yrs. or younger	172	179	188	212	248	167	166	196	180	233
20-21 yrs. old	86	74	56	66	77	77	77	62	76	104
22-24 yrs. old	72	39	36	34	49	63	42	39	38	40
25-29 yrs. old	48	42	30	25	27	45	39	32	33	33
30-39 yrs. old	25	24	25	16	21	28	23	14	15	23
40-49 yrs. old	11	10	7	6	10	13	9	10	5	9
50 yrs. or older	10	12	2	3	5	3	5	4	4	5
% Female	22%	25%	24%	20%	27%	24%	23%	26%	22%	25%
% Male	78%	75%	76%	80%	73%	76%	77%	74%	78%	75%
% 19 yrs. or younger	41%	47%	55%	59%	57%	42%	46%	55%	51%	52%
% 20 - 21 yrs. old	20%	19%	16%	18%	18%	19%	21%	17%	22%	23%
% 22 - 24 yrs. old	17%	10%	10%	9%	11%	16%	12%	11%	11%	9%
% 25 - 29 yrs. old	11%	11%	9%	7%	6%	11%	11%	9%	9%	7%
% 30 - 39 yrs. old	6%	6%	7%	4%	5%	7%	6%	4%	4%	5%
% 40 - 49 yrs. old	3%	3%	2%	2%	2%	3%	2%	3%	1%	2%
% 50 yrs. or older	2%	3%	1%	1%	1%	1%	1%	1%	1%	1%

Student Demographic: Race-Ethnicity

Computer Science (CS)										
	Fall Terms					Spring Terms				
	F2019	F2020	F2021	F2022	F2023	S2020	S2021	S2022	S2023	S2024
African American	15	11	5	13	10	9	10	9	8	13
Asian	141	135	126	135	174	141	119	137	142	188
Filipino	35	17	21	18	20	26	26	19	13	20
Latino	69	70	66	62	92	70	63	68	60	74
Native American	0	0	0	0	0	0	0	0	0	0
Pacific Islander	2	0	4	0	1	1	1	0	1	1
White	133	112	85	94	98	117	107	89	88	102
Multiethnic	19	26	32	30	32	21	28	29	26	39
Other/Unknown	10	9	5	10	10	11	7	6	13	10
% African American	4%	3%	1%	4%	2%	2%	3%	3%	2%	3%
% Asian	33%	36%	37%	37%	40%	36%	33%	38%	40%	42%
% Filipino	8%	4%	6%	5%	5%	7%	7%	5%	4%	4%
% Latino	16%	18%	19%	17%	21%	18%	17%	19%	17%	17%
% Native American	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% Pacific Islander	<1%	0%	1%	0%	<1%	<1%	<1%	0%	<1%	<1%
% White	31%	29%	25%	26%	22%	30%	30%	25%	25%	23%
% Multiethnic	4%	7%	9%	8%	7%	5%	8%	8%	7%	9%
% Other/Unknown	2%	2%	1%	3%	2%	3%	2%	2%	4%	2%

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

Student Enrollment Status

Computer Science (CS)										
	Fall Terms					**Spring Terms**				
	F2019	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
First-Time Any College	70	72	84	98	109	9	9	7	10	15
First-Time Transfer	39	23	18	28	37	24	14	22	15	24
Continuing	269	232	201	205	239	326	292	272	286	363
Returning	34	29	26	10	31	19	26	19	24	22
Concurrent Enrollment	12	24	15	21	21	18	20	37	16	23
% First-Time Any College	17%	19%	24%	27%	25%	2%	2%	2%	3%	3%
% First-Time Transfer	9%	6%	5%	8%	8%	6%	4%	6%	4%	5%
% Continuing	63%	61%	58%	57%	55%	82%	81%	76%	81%	81%
% Returning	8%	8%	8%	3%	7%	5%	7%	5%	7%	5%
% Concurrent Enrollment	3%	6%	4%	6%	5%	5%	6%	10%	5%	5%
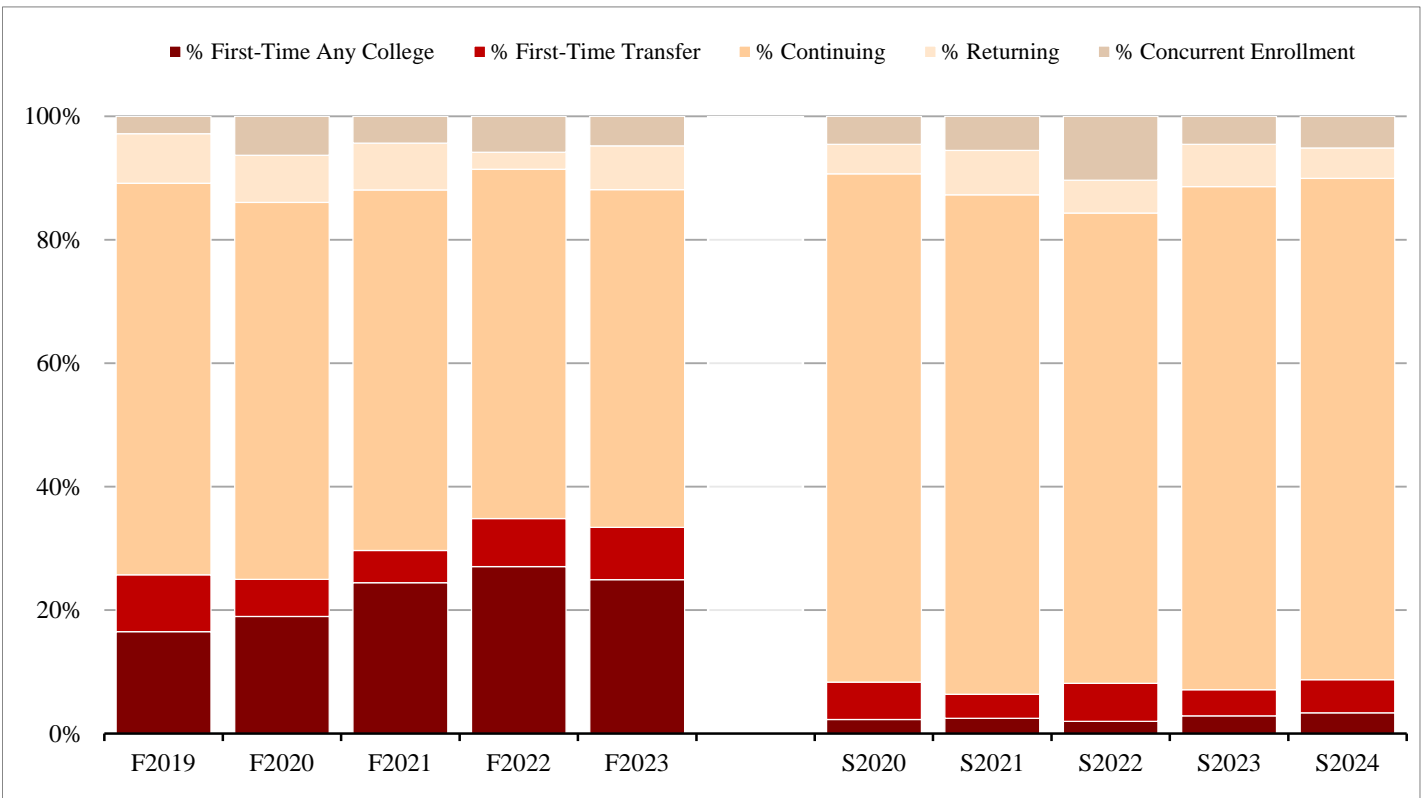
Definitions:

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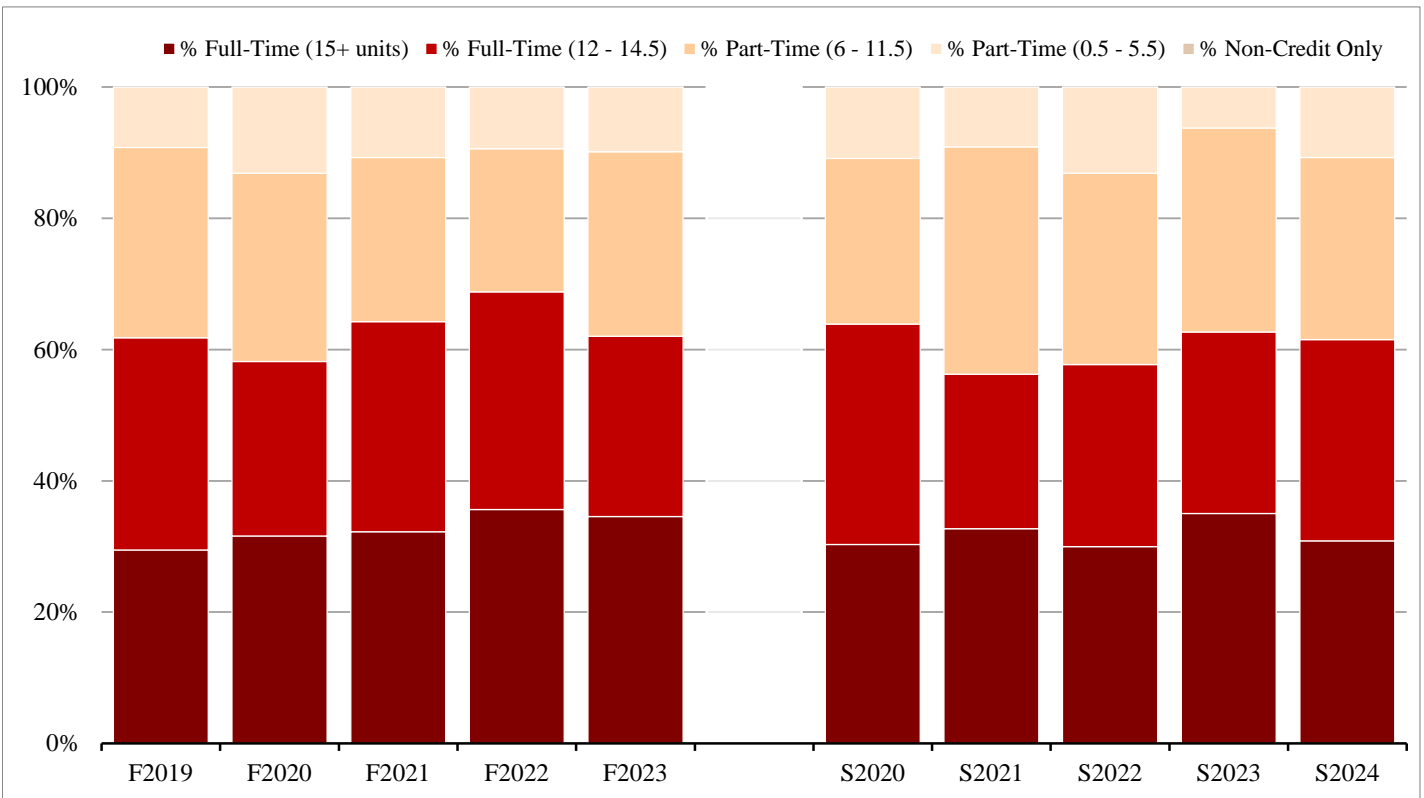
Continuing: Students enrolled in the current semester and were enrolled in the previous primary term. Primary terms are Fall and Spring.

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**				
	F2019	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
Full-Time (15+ units)	125	120	111	129	151	120	118	107	123	138
Full-Time (12 - 14.5 units)	137	101	110	120	120	133	85	99	97	137
Part-Time (6 - 11.5 units)	123	109	86	79	123	100	125	104	109	124
Part-Time (0.5 - 5.5 units)	39	50	37	34	43	43	33	47	22	48
Non-Credit Only	0	0	0	0	0	0	0	0	0	0
% Full-Time (15+ units)	29%	32%	32%	36%	35%	30%	33%	30%	35%	31%
% Full-Time (12 - 14.5)	32%	27%	32%	33%	27%	34%	24%	28%	28%	31%
% Part-Time (6 - 11.5)	29%	29%	25%	22%	28%	25%	35%	29%	31%	28%
% Part-Time (0.5 - 5.5)	9%	13%	11%	9%	10%	11%	9%	13%	6%	11%
% Non-Credit Only	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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

Students Using Distance Education

| Computer Science (CS)										
	Fall Terms					Spring Terms				
(Categories reflect college-wide coursework)	F2019	F2020	F2021	F2022	F2023	S2020	S2021	S2022	S2023	S2024
Face-to-Face (F2F) Only	323	0	0	55	100	283	0	55	70	101
Both F2F and DE	101	34	28	233	270	113	28	199	226	280
Distance Education (DE) Only	0	346	316	74	67	0	333	103	55	66
% Face-to-Face (F2F) Only	76%	0%	0%	15%	23%	71%	0%	15%	20%	23%
% Both F2F and DE	24%	9%	8%	64%	62%	29%	8%	56%	64%	63%
% Distance Education (DE) Only	0%	91%	92%	20%	15%	0%	92%	29%	16%	15%
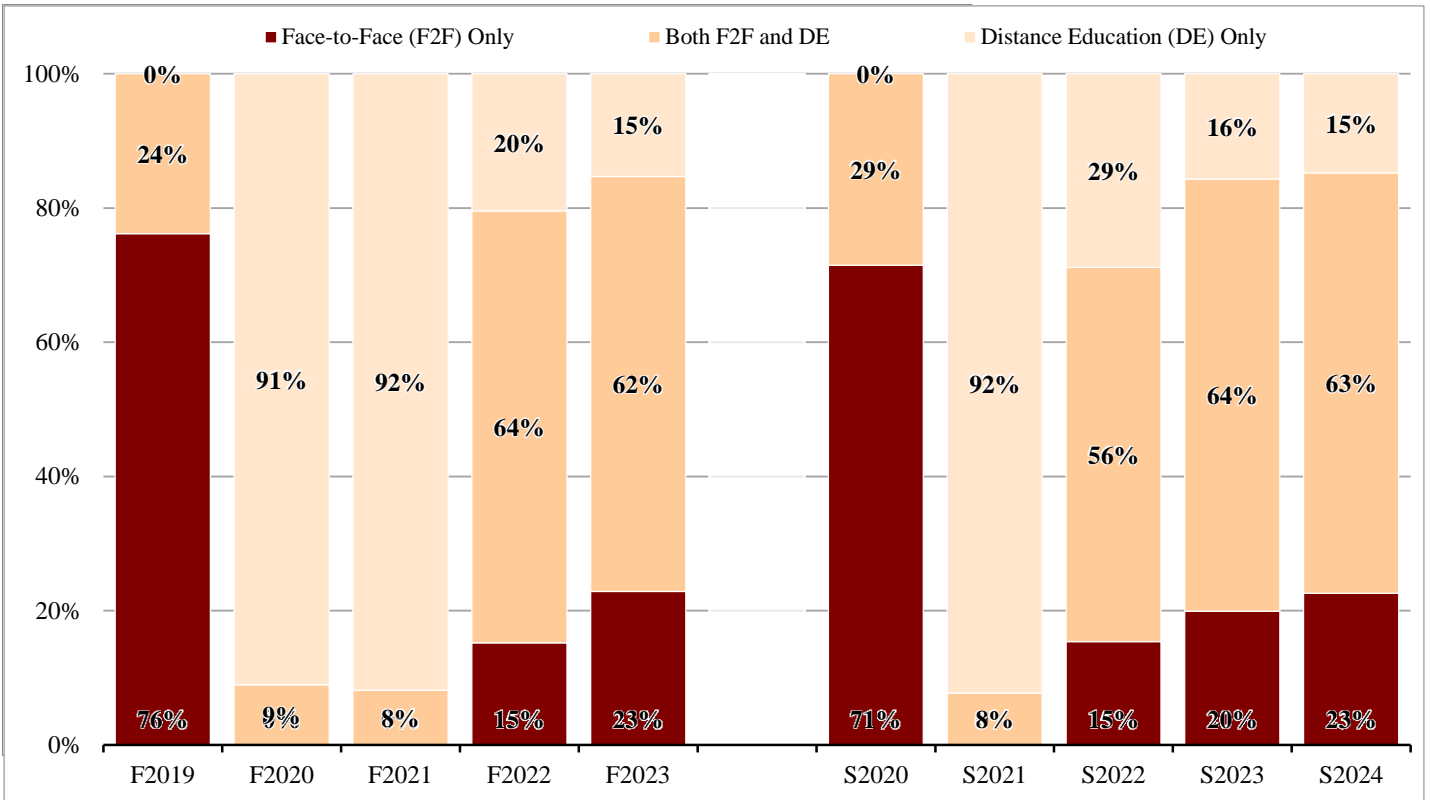
Definitions:

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

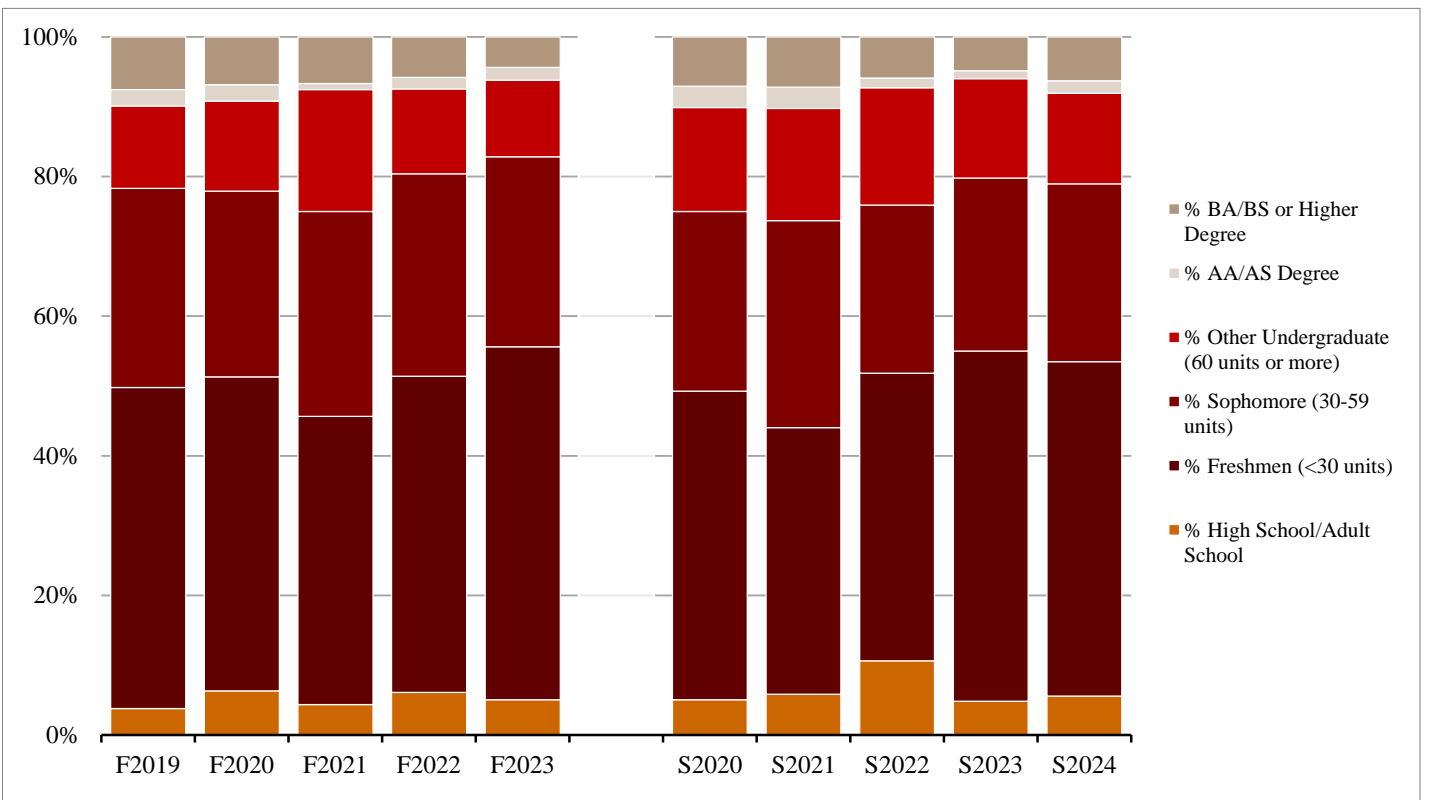| Computer Science (CS)										
	Fall Terms					**Spring Terms**				
	F2019	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
Transfer (w/ or w/o AA/AS degree)	328	289	278	292	357	309	285	283	285	352
Associate Degree Only (AA/AS)	19	14	12	7	8	9	12	9	7	10
Occupational Certificate / Job Training	34	30	23	24	22	28	22	15	23	34
Improve English/Math Basic Skills	4	4	3	2	4	6	2	3	3	4
Personal Development (intellectual/cultural)	13	11	5	11	10	11	6	11	10	12
Other	2	11	0	7	7	4	3	8	4	5
Undecided	24	21	23	19	29	29	31	28	19	30
Unknown	0	0	0	0	0	0	0	0	0	0
% Transfer (w/ or w/o AA/AS degree)	77%	76%	81%	81%	82%	78%	79%	79%	81%	79%
% Associate Degree Only (AA/AS)	4%	4%	3%	2%	2%	2%	3%	3%	2%	2%
% Occupational Certificate / Job Training	8%	8%	7%	7%	5%	7%	6%	4%	7%	8%
% Improve English/Math Basic Skills	1%	1%	1%	1%	1%	2%	1%	1%	1%	1%
% Personal Dev. (intellectual/cultural)	3%	3%	1%	3%	2%	3%	2%	3%	3%	3%
% Other	<1%	3%	0%	2%	2%	1%	1%	2%	1%	1%
% Undecided	6%	6%	7%	5%	7%	7%	9%	8%	5%	7%
% Unknown	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
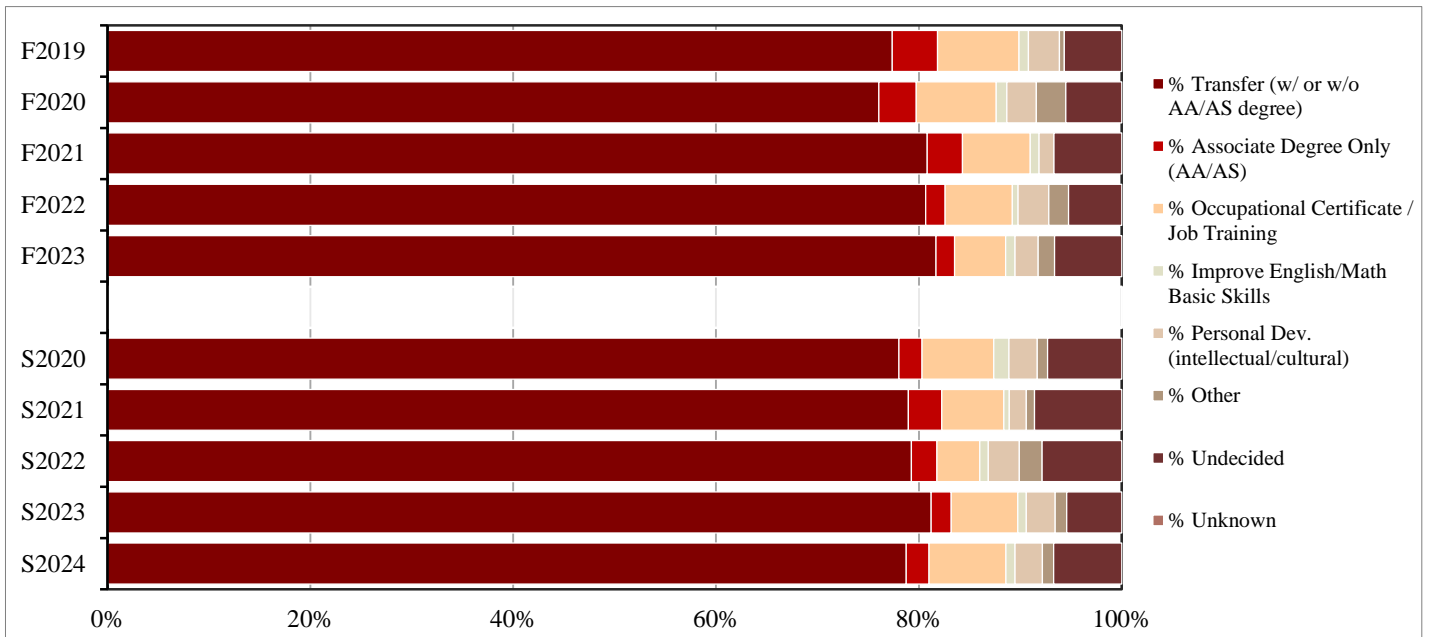
Definitions:

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**			
	F2019	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
High School/Adult School	16	24	15	22	22	20	21	38	17	25
Freshmen (<30 units)	195	171	142	164	221	175	138	147	176	214
Sophomore (30-59 units)	121	101	101	105	119	102	107	86	87	114
Other Undergraduate (60 units or more)	50	49	60	44	48	59	58	60	50	58
AA/AS Degree	10	9	3	6	8	12	11	5	4	8
BA/BS or Higher Degree	32	26	23	21	19	28	26	21	17	28
% High School/Adult School	4%	6%	4%	6%	5%	5%	6%	11%	5%	6%
% Freshmen (<30 units)	46%	45%	41%	45%	51%	44%	38%	41%	50%	48%
% Sophomore (30-59 units)	29%	27%	29%	29%	27%	26%	30%	24%	25%	26%
% Other Undergraduate (60 units or more)	12%	13%	17%	12%	11%	15%	16%	17%	14%	13%
% AA/AS Degree	2%	2%	1%	2%	2%	3%	3%	1%	1%	2%
% BA/BS or Higher Degree	8%	7%	7%	6%	4%	7%	7%	6%	5%	6%

Student Performance: Grade Distribution

| Computer Science (CS)										
	Fall Terms					**Spring Terms**				
	F2019	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
Total Course Enrollments	482	422	378	396	478	457	405	405	370	499
Course Success Rates	**64%**	**67%**	**70%**	**68%**	**75%**	**70%**	**66%**	**73%**	**72%**	**77%**
A	31%	36%	34%	34%	44%	36%	31%	36%	34%	46%
B	21%	21%	24%	20%	21%	19%	24%	23%	25%	22%
C	12%	9%	11%	14%	9%	11%	10%	13%	14%	7%
P	<1%	<1%	<1%	1%	1%	3%	1%	2%	<1%	1%
Course Non-Success Rate	**11%**	**13%**	**10%**	**14%**	**9%**	**7%**	**13%**	**15%**	**14%**	**11%**
D	5%	5%	3%	6%	2%	2%	6%	5%	5%	2%
F*	6%	8%	7%	8%	6%	5%	7%	10%	10%	9%
Withdrawals (See Note)	**25%**	**20%**	**21%**	**18%**	**17%**	**23%**	**21%**	**12%**	**13%**	**12%**
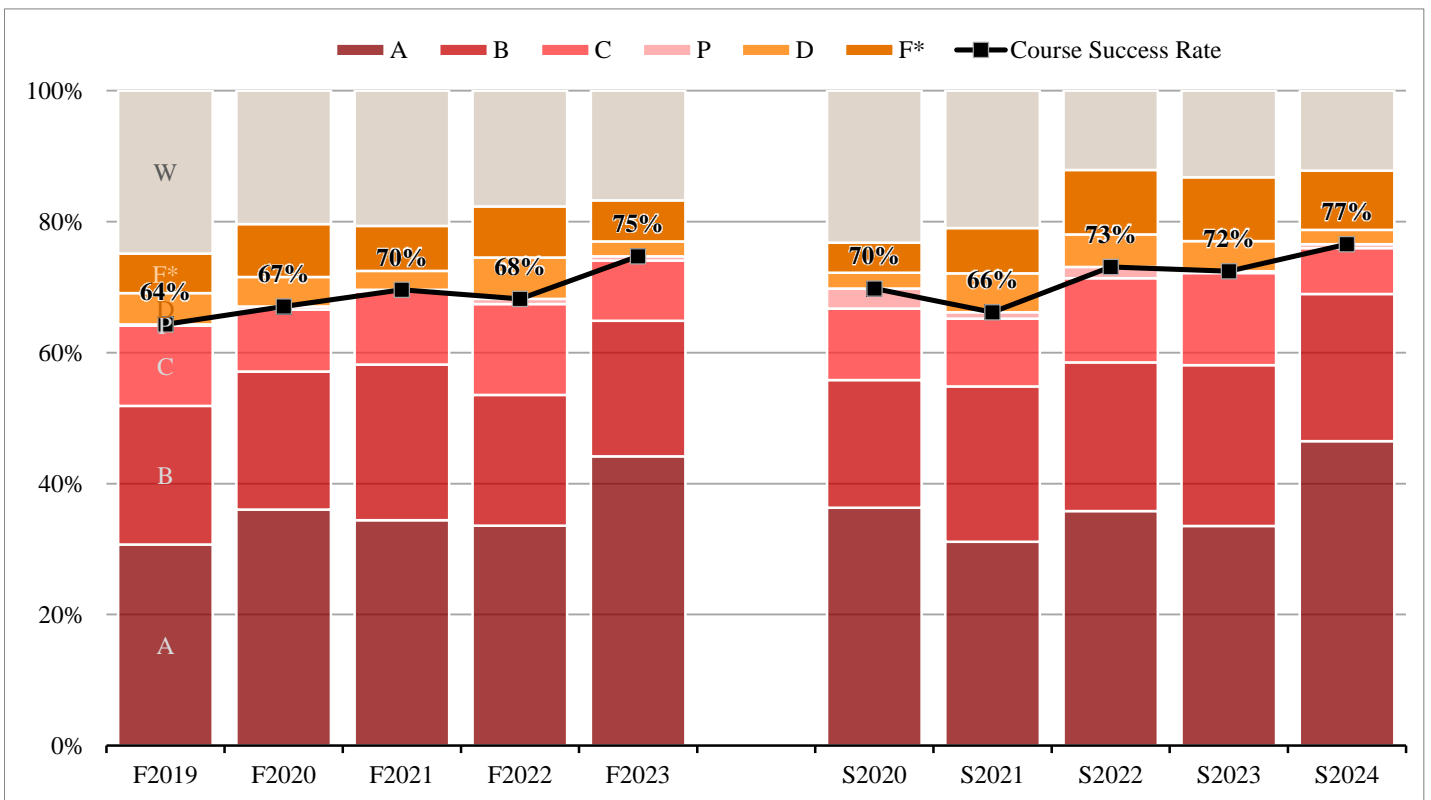
Definitions:

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

Computer Science (CS)										
	Fall Terms					**Spring Terms**				
	F2019	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
Total Course Enrollments	482	422	378	396	478	457	405	405	370	499
Face-to-Face (F2F) Sections	478	0	0	247	287	455	0	231	235	296
Success Rates	64%	—	—	71%	72%	70%	—	75%	75%	76%
Non-Success Rates	11%	—	—	15%	9%	7%	—	12%	15%	12%
Withdrawals	25%	—	—	15%	19%	23%	—	12%	10%	13%
Distance Education (DE) Sections	4	422	378	149	191	2	405	174	135	203
Success Rates	100%	67%	70%	64%	79%	50%	66%	70%	68%	78%
Non-Success Rates	0%	13%	10%	13%	7%	50%	13%	18%	13%	10%
Withdrawals	0%	20%	21%	23%	14%	0%	21%	12%	19%	12%
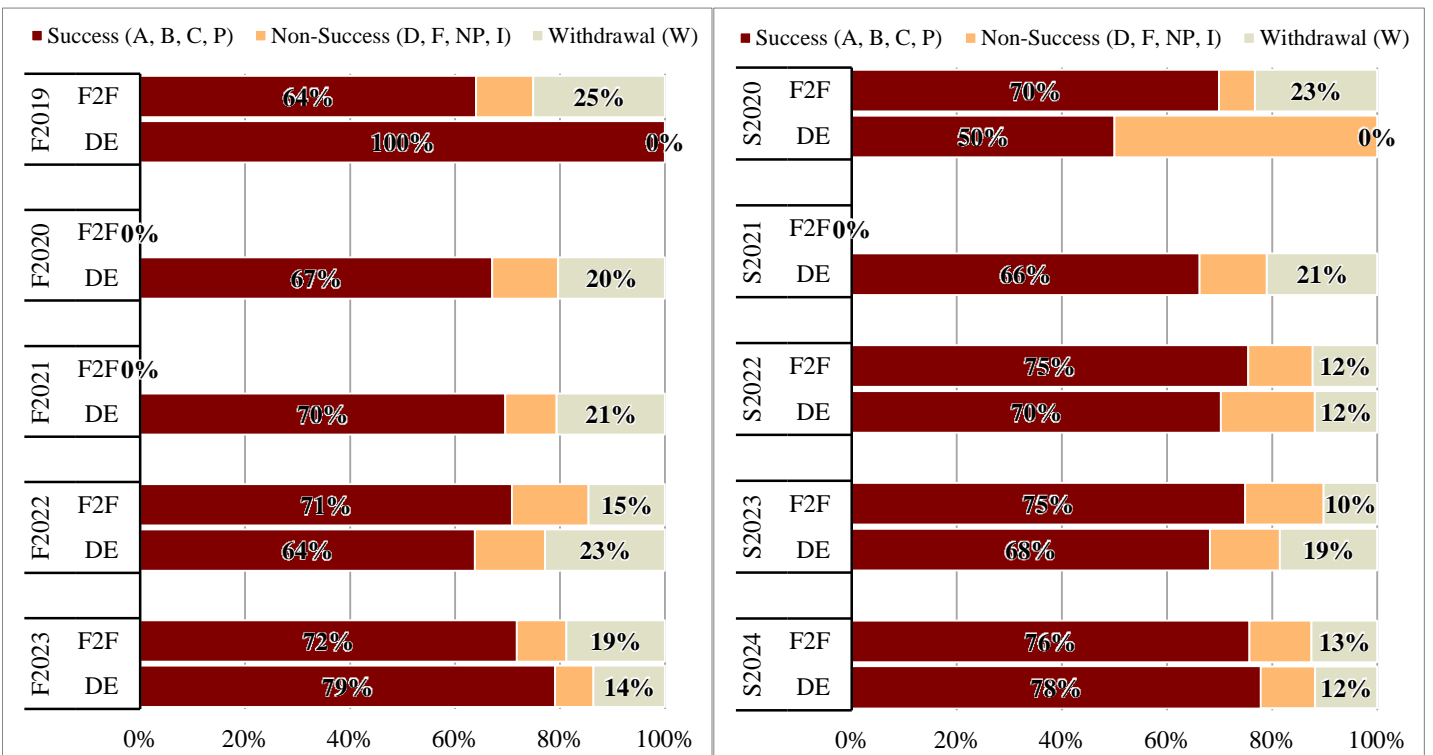
Definitions:

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', '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

Computer Science (CS)										
	Fall Terms					**Spring Terms**				
	F2019	**F2020**	**F2021**	**F2022**	**F2023**	**S2020**	**S2021**	**S2022**	**S2023**	**S2024**
WSCH	2,779	2,409	2,170	2,267	2,689	2,605	2,258	2,249	2,084	2,770
FTES	89.1	77.3	70.5	73.7	85.9	83.3	72.4	73.3	67.5	90.4
FTEF	5.0	4.7	4.3	4.7	5.7	4.6	4.3	4.3	4.3	5.3
Productivity (WSCH/FTEF)	556.8	514.5	500.9	484.2	470.6	561.3	521.2	519.2	481.1	525.3
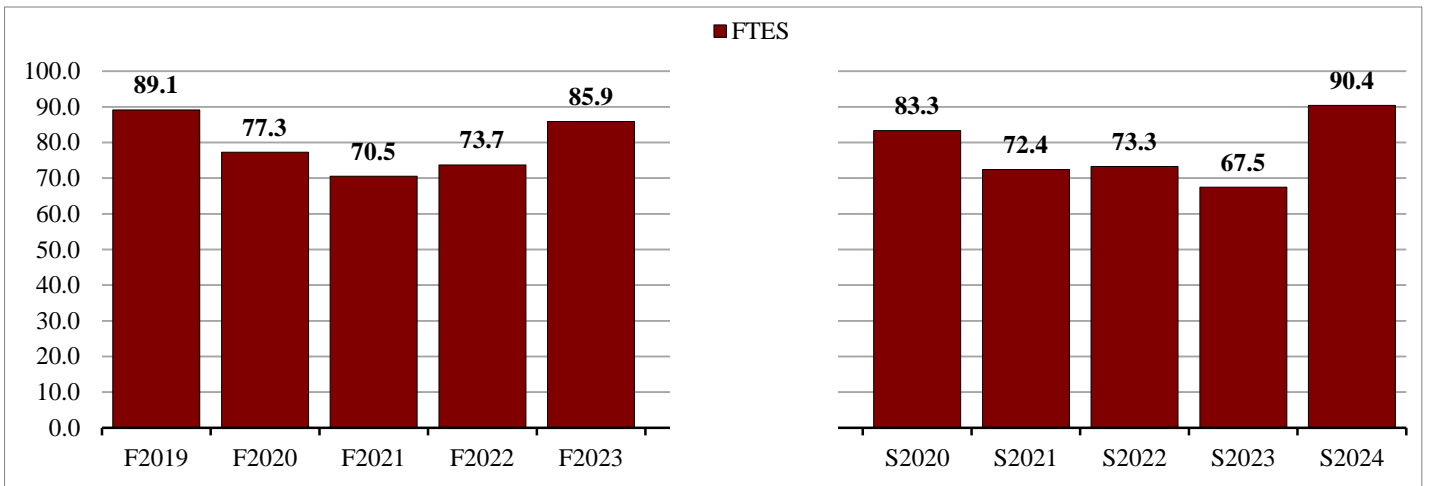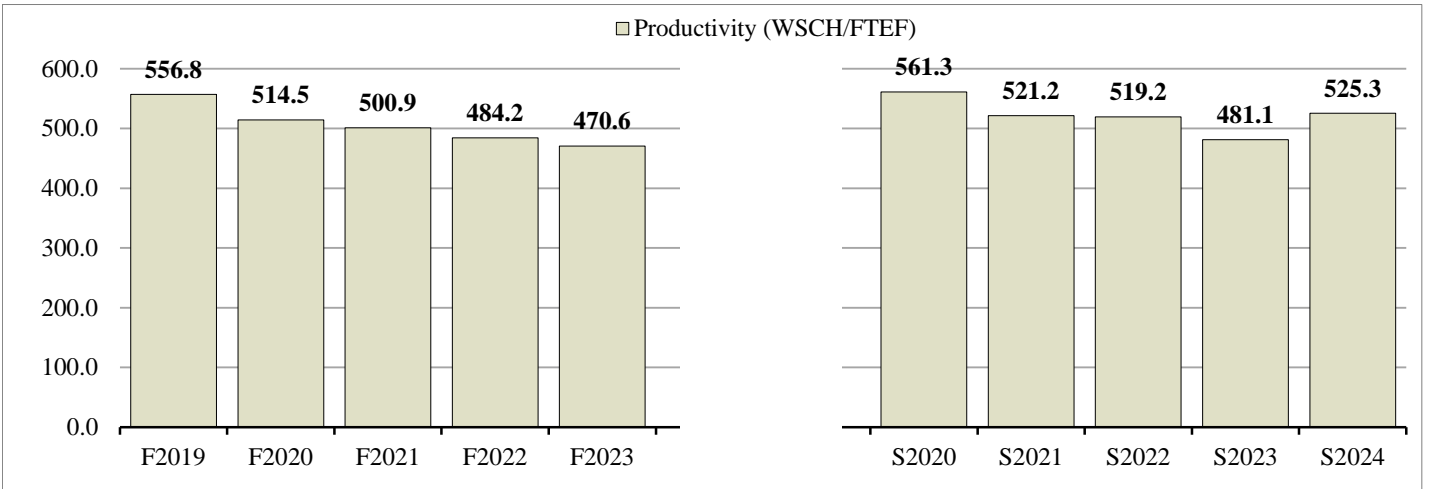
Definitions:

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

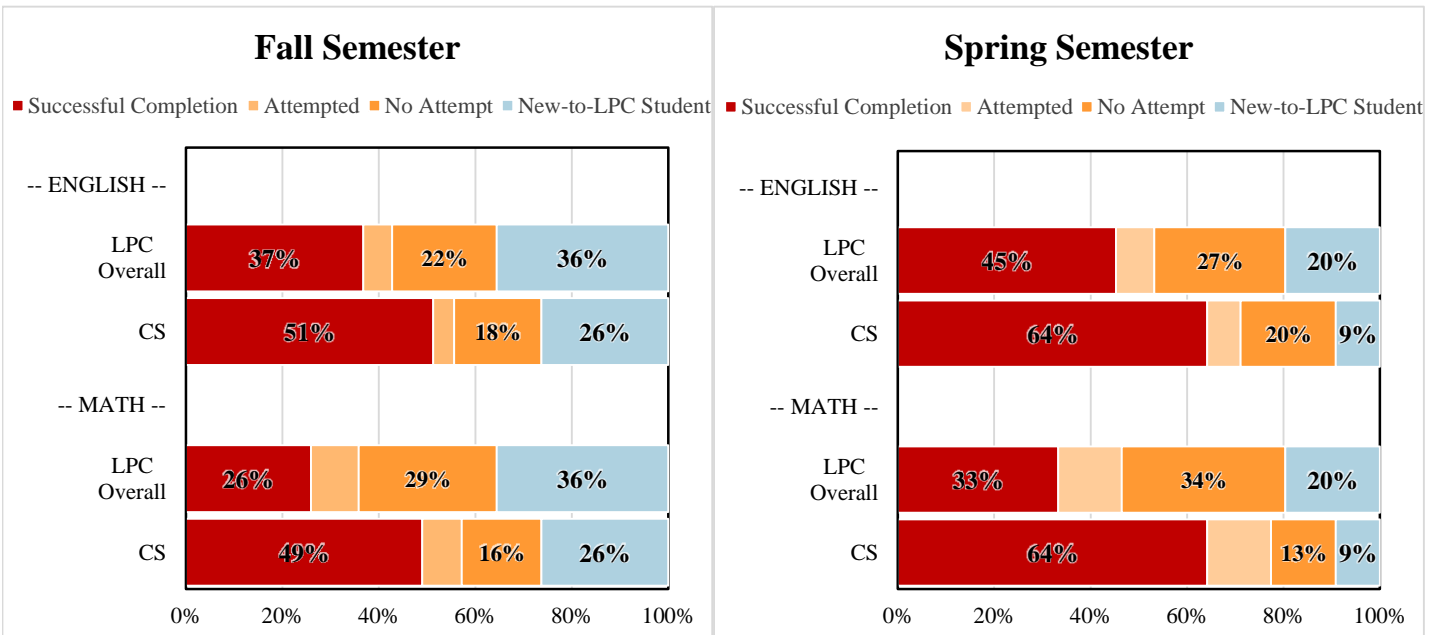| Computer Science (CS)										
	Fall Terms					Spring Terms				
	F2019	F2020	F2021	F2022	F2023	S2020	S2021	S2022	S2023	S2024
FTEF from Full-Time Faculty	2.1	2.1	1.8	2.0	2.4	2.3	1.8	2.1	1.4	1.6
% FTEF from Full-Time Faculty	42%	45%	40%	43%	43%	50%	40%	48%	32%	31%
Enrollments	482	422	378	396	478	457	405	405	370	499
Capacity (seats available)	450	390	390	420	511	401	370	370	375	480
Fill Rate	107%	108%	97%	94%	94%	114%	109%	109%	99%	104%
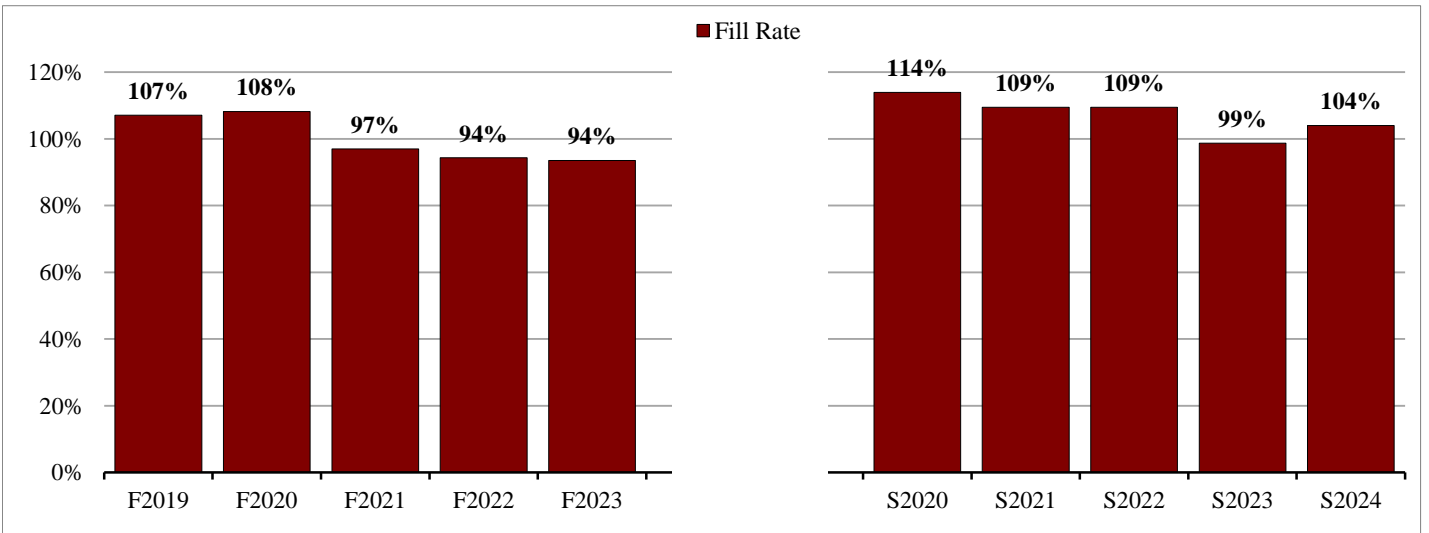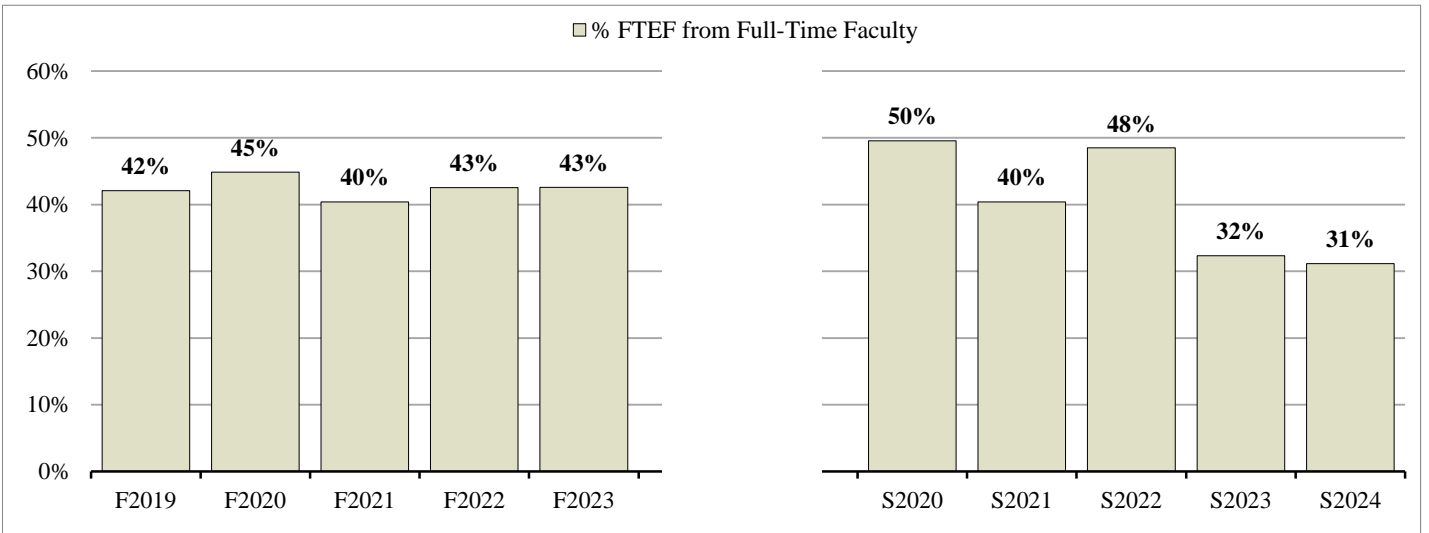
Definitions:

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			
	CS		LPC Overall		CS		LPC Overall	
	Num	Pct	Num	Pct	Num	Pct	Num	Pct
Transfer-level English								
Successful Completion*	224	51%	2,796	37%	287	64%	3,393	45%
Attempted _(not successful)_	19	4%	454	6%	31	7%	600	8%
No Attempt	79	18%	1,652	22%	88	20%	2,036	27%
New-to-LPC Student	115	26%	2,703	36%	41	9%	1,472	20%
Transfer-level Math								
Successful Completion*	214	49%	1,971	26%	287	64%	2,498	33%
Attempted _(not successful)_	36	8%	752	10%	59	13%	986	13%
No Attempt	72	16%	2,179	29%	60	13%	2,545	34%
New-to-LPC Student	115	26%	2,703	36%	41	9%	1,472	20%

Fall Semester

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

-- ENGLISH --
LPC Overall: 37% / 22% / 36%
CS: 51% / 18% / 26%

-- MATH --
LPC Overall: 26% / 29% / 36%
CS: 49% / 16% / 26%

Spring Semester

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

-- ENGLISH --
LPC Overall: 45% / 27% / 20%
CS: 64% / 20% / 9%

-- MATH --
LPC Overall: 33% / 34% / 20%
CS: 64% / 13% / 9%

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.