Las Positas College

Discipline Program Review Data Packet

Fall 2017 to Fall 2021
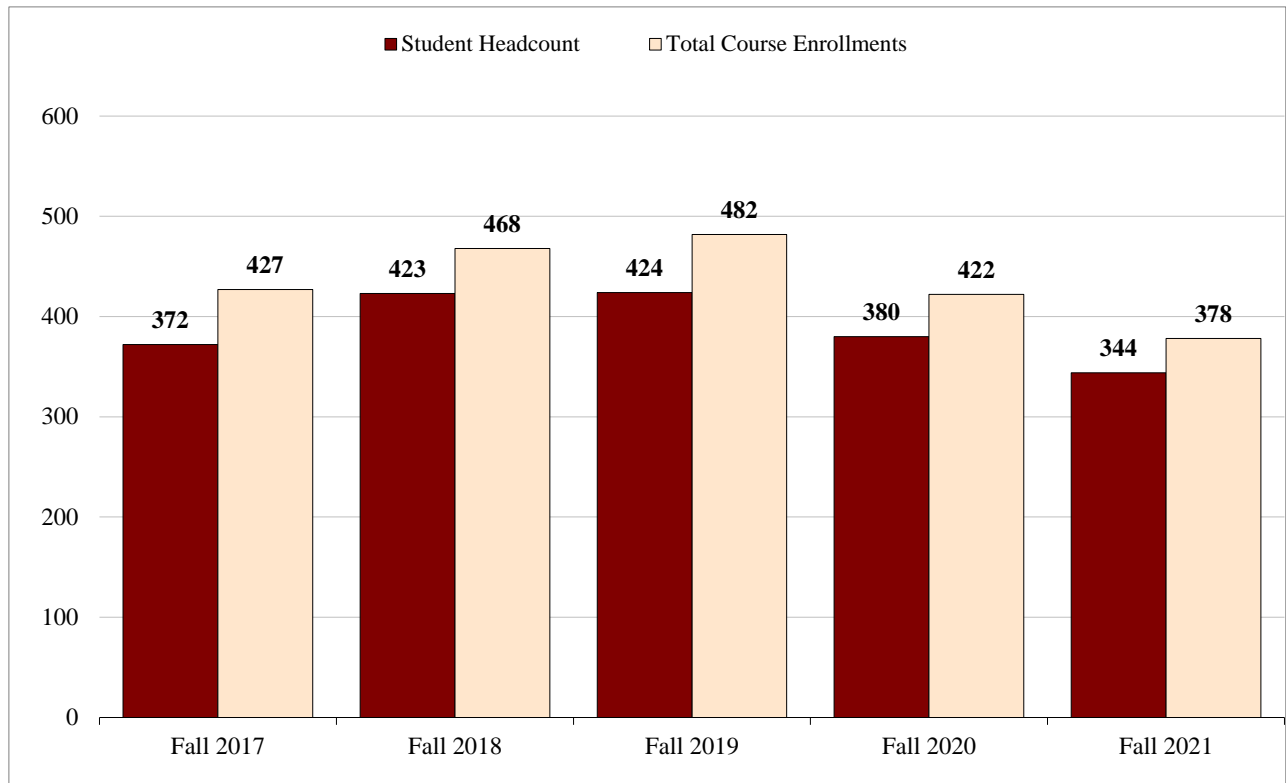
Discipline:

Computer Science (CS)

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Headcount & Enrollment

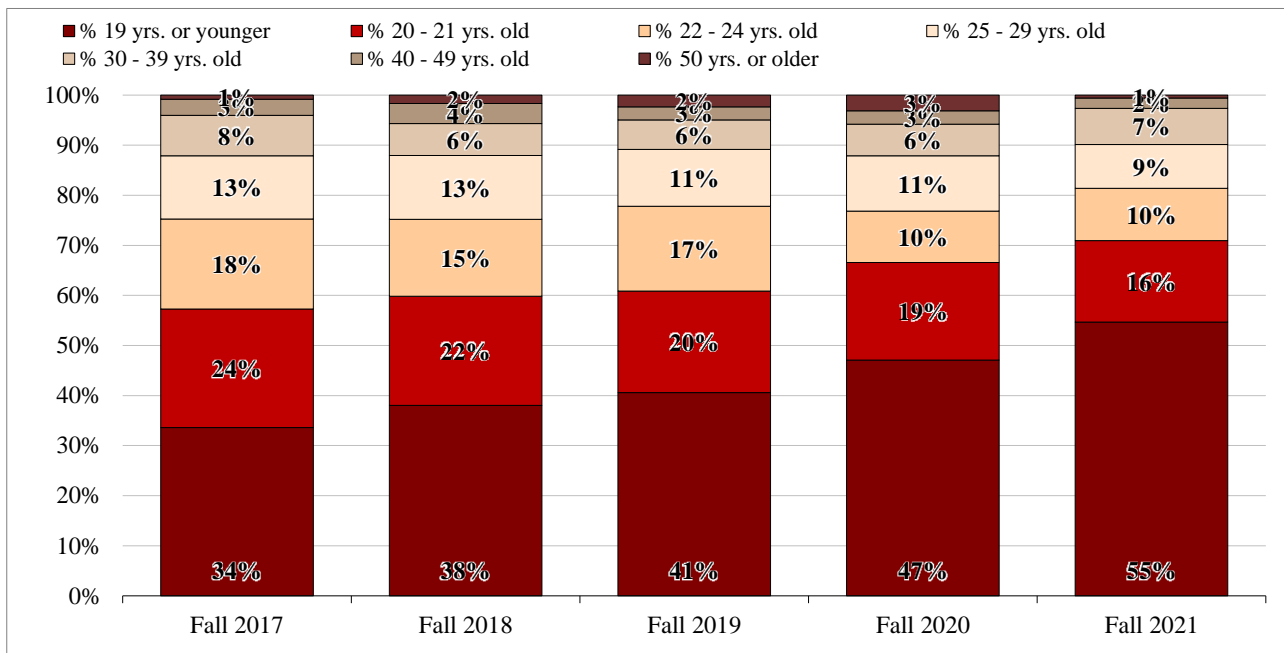| Computer Science (CS)					
	Term				
	Fall 2017	**Fall 2018**	**Fall 2019**	**Fall 2020**	**Fall 2021**
Student Headcount	372	423	424	380	344
Total Course Enrollments	427	468	482	422	378

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.
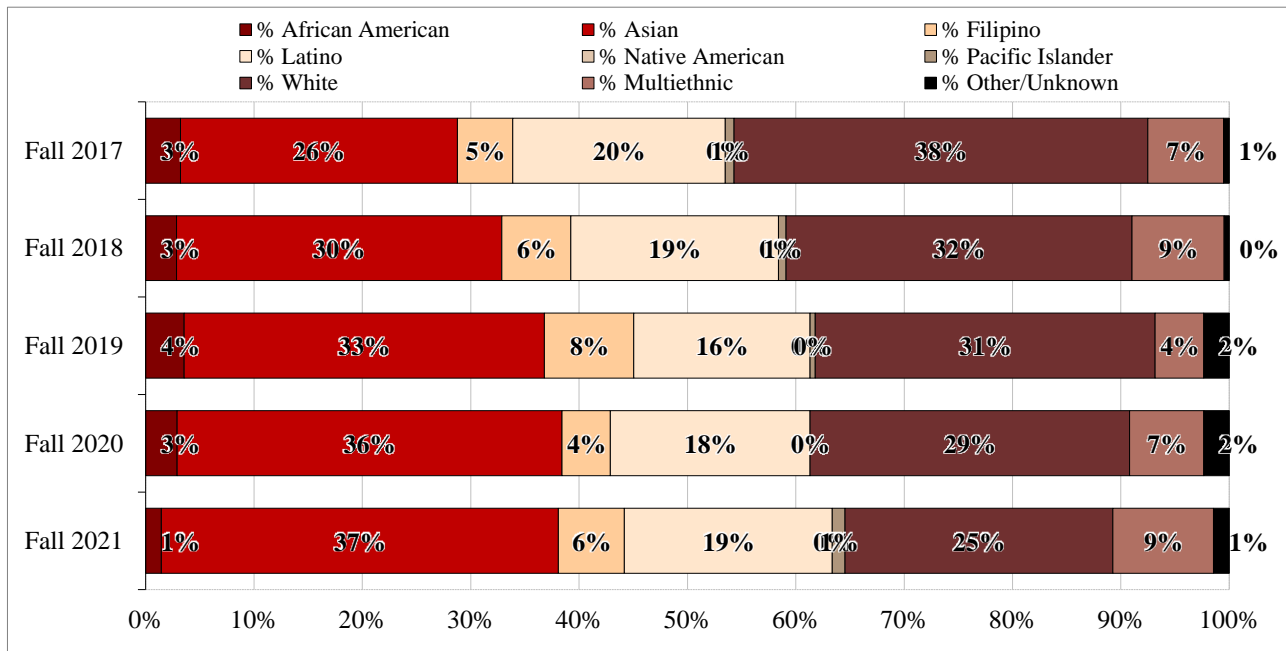
Student Demographics: Gender & Age

Computer Science (CS)					
	Term				
	Fall 2017	**Fall 2018**	**Fall 2019**	**Fall 2020**	**Fall 2021**
Female	80	89	91	93	82
Male	283	327	326	280	256
19 yrs. or younger	125	161	172	179	188
20-21 yrs. old	88	92	86	74	56
22-24 yrs. old	67	65	72	39	36
25-29 yrs. old	47	54	48	42	30
30-39 yrs. old	30	27	25	24	25
40-49 yrs. old	12	17	11	10	7
50 yrs. or older	3	7	10	12	2
% Female	22%	21%	22%	25%	24%
% Male	78%	79%	78%	75%	76%
% 19 yrs. or younger	34%	38%	41%	47%	55%
% 20 - 21 yrs. old	24%	22%	20%	19%	16%
% 22 - 24 yrs. old	18%	15%	17%	10%	10%
% 25 - 29 yrs. old	13%	13%	11%	11%	9%
% 30 - 39 yrs. old	8%	6%	6%	6%	7%
% 40 - 49 yrs. old	3%	4%	3%	3%	2%
% 50 yrs. or older	1%	2%	2%	3%	1%

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Student Demographic: Race-Ethnicity

Computer Science (CS)					
	Term				
	Fall 2017	**Fall 2018**	**Fall 2019**	**Fall 2020**	**Fall 2021**
African American	12	12	15	11	5
Asian	95	127	141	135	126
Filipino	19	27	35	17	21
Latino	73	81	69	70	66
Native American	0	0	0	0	0
Pacific Islander	3	3	2	0	4
White	142	135	133	112	85
Multiethnic	26	36	19	26	32
Other/Unknown	2	2	10	9	5
% African American	3%	3%	4%	3%	1%
% Asian	26%	30%	33%	36%	37%
% Filipino	5%	6%	8%	4%	6%
% Latino	20%	19%	16%	18%	19%
% Native American	0%	0%	0%	0%	0%
% Pacific Islander	1%	1%	<1%	0%	1%
% White	38%	32%	31%	29%	25%
% Multiethnic	7%	9%	4%	7%	9%
% Other/Unknown	1%	<1%	2%	2%	1%

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Student Enrollment Status

Computer Science (CS)					
	Term				
	Fall 2017	**Fall 2018**	**Fall 2019**	**Fall 2020**	**Fall 2021**
First-Time Any College	39	80	75	84	88
First-Time Transfer	29	28	25	12	13
Continuing	265	293	289	241	214
Returning	26	15	23	19	14
Concurrent Enrollment	13	7	12	24	15
% First-Time Any College	10%	19%	18%	22%	26%
% First-Time Transfer	8%	7%	6%	3%	4%
% Continuing	71%	69%	68%	63%	62%
% Returning	7%	4%	5%	5%	4%
% Concurrent Enrollment	3%	2%	3%	6%	4%
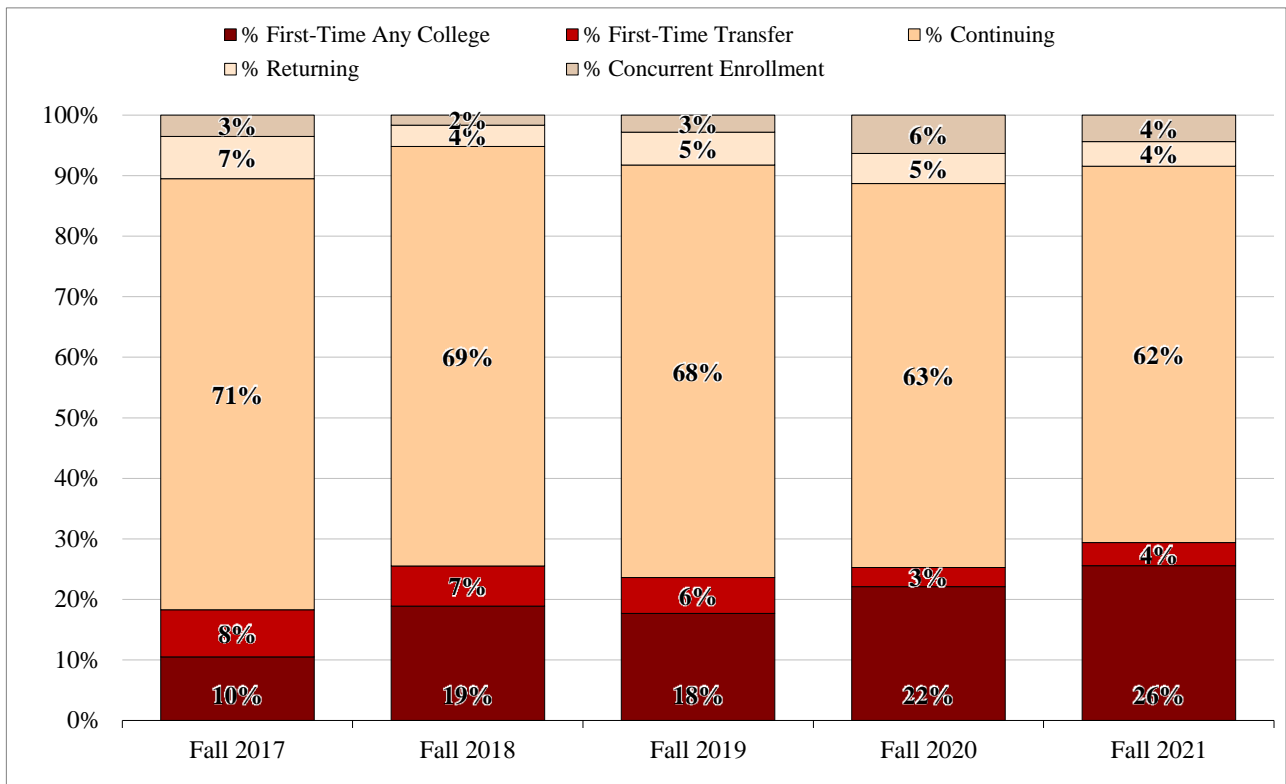
Definitions:

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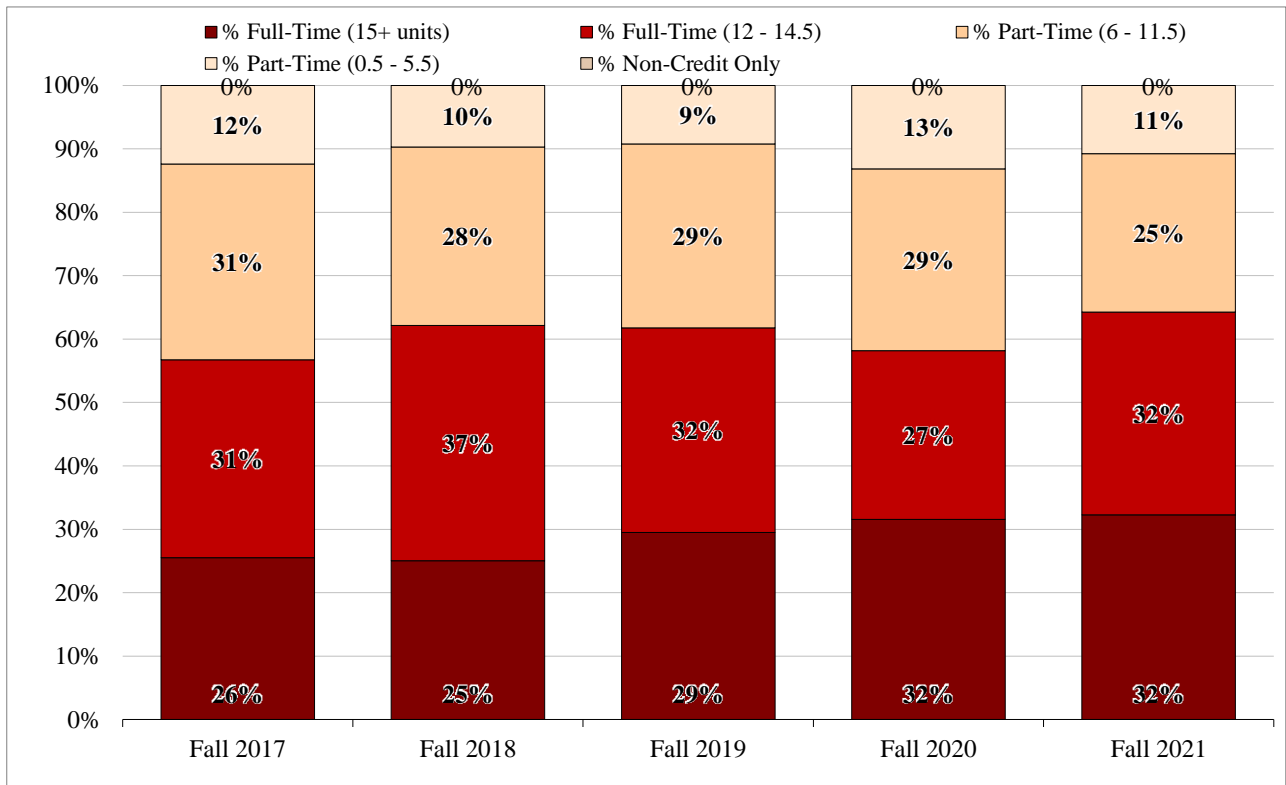
Continuing: Students enrolled in the current semester and were enrolled in the previous primary term. Primary terms are Fall and Spring.

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)					
	Term				
	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
Full-Time (15+ units)	95	106	125	120	111
Full-Time (12 - 14.5)	116	157	137	101	110
Part-Time (6 - 11.5)	115	119	123	109	86
Part-Time (0.5 - 5.5)	46	41	39	50	37
Non-Credit Only	0	0	0	0	0
% Full-Time (15+ units)	26%	25%	29%	32%	32%
% Full-Time (12 - 14.5)	31%	37%	32%	27%	32%
% Part-Time (6 - 11.5)	31%	28%	29%	29%	25%
% Part-Time (0.5 - 5.5)	12%	10%	9%	13%	11%
% Non-Credit Only	0%	0%	0%	0%	0%

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Las Positas College

Students Using Distance Education

| Computer Science (CS)					
	Term				
(Categories reflect college-wide coursework)	**Fall 2017**	**Fall 2018**	**Fall 2019**	**Fall 2020**	**Fall 2021**
Face-to-Face (F2F) Only	306	331	323	0	0
Both F2F and DE	65	92	101	2	90
Distance Education (DE) Only	1	0	0	378	254
% Face-to-Face (F2F) Only	82%	78%	76%	0%	0%
% Both F2F and DE	17%	22%	24%	1%	26%
% Distance Education (DE) Only	<1%	0%	0%	99%	74%
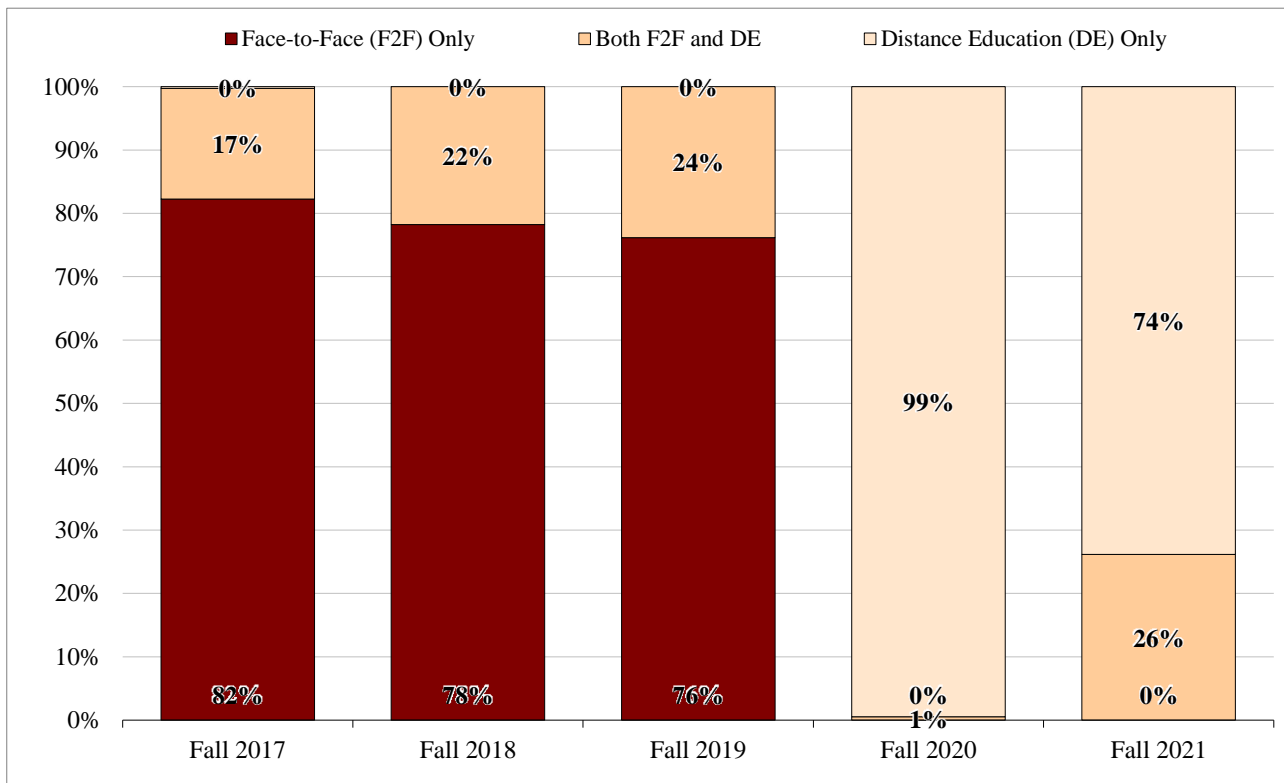
Definitions:

Distance Education (DE) includes enrollments in courses with section numbers designated as courses with 51% or more of instruction delivered online.

Due to the COVID-19 pandemic, 2020-21 DE courses were distinguished through provisional designations.

Student Educational Goal

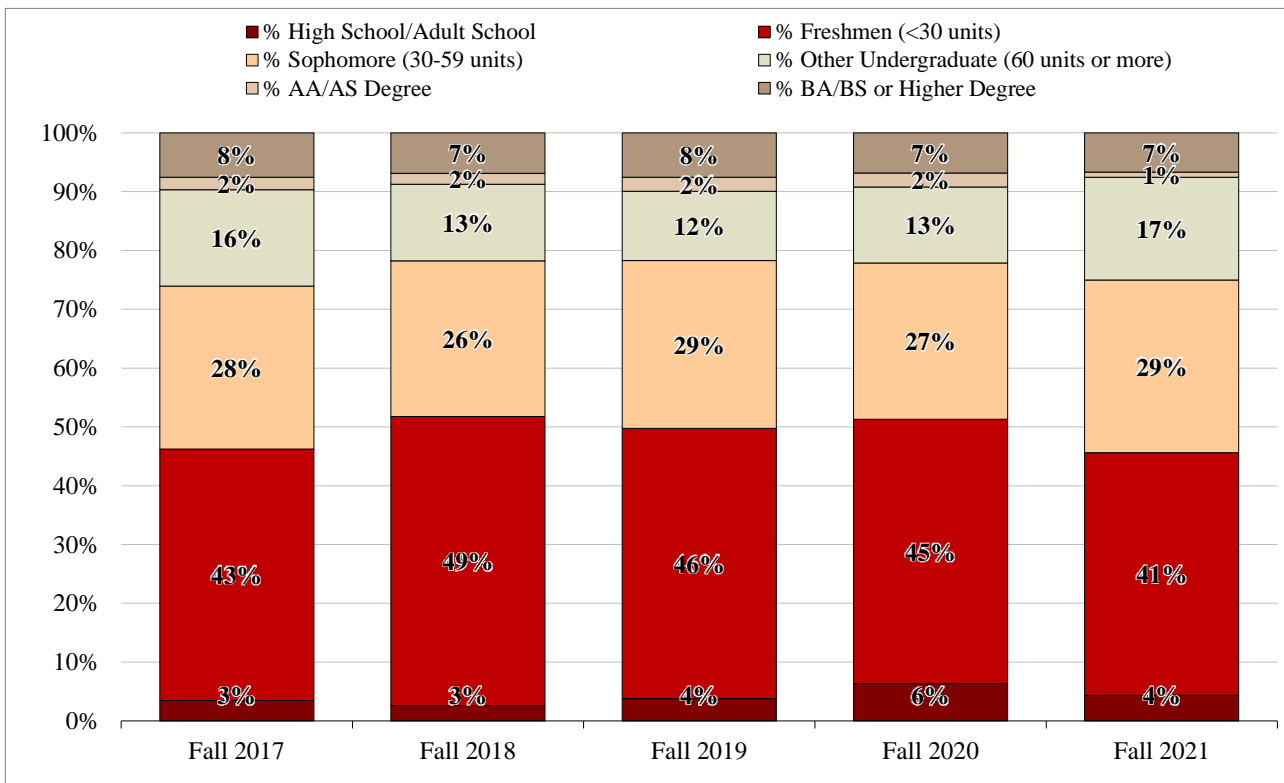| Computer Science (CS)					
	Term				
	Fall 2017	**Fall 2018**	**Fall 2019**	**Fall 2020**	**Fall 2021**
Transfer (w/ or w/o AA/AS degree)	278	345	328	289	278
Associate Degree Only (AA/AS)	12	15	19	14	12
Occupational Certificate or Job Training	34	31	34	30	23
Improve English/Math Basic Skills	2	2	4	4	3
Personal Development (intellectual/cultural)	8	7	13	11	5
Other	5	1	2	11	0
Undecided	32	22	24	21	23
Unknown	1	0	0	0	0
% Transfer (w/ or w/o AA/AS degree)	75%	82%	77%	76%	81%
% Associate Degree Only (AA/AS)	3%	4%	4%	4%	3%
% Occupational Certificate or Job Training	9%	7%	8%	8%	7%
% Improve English/Math Basic Skills	1%	<1%	1%	1%	1%
% Personal Development (intellectual/cultural	2%	2%	3%	3%	1%
% Other	1%	<1%	<1%	3%	0%
% Undecided	9%	5%	6%	6%	7%
% Unknown	<1%	0%	0%	0%	0%
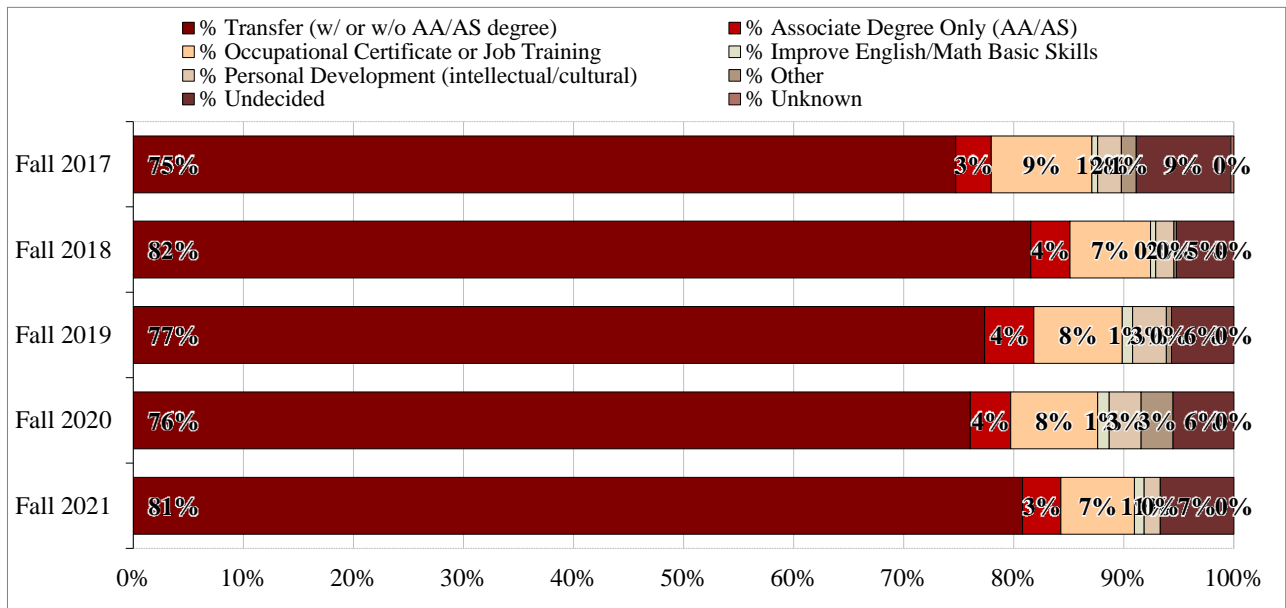
Definitions:

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)					
	Term				
	Fall 2017	**Fall 2018**	**Fall 2019**	**Fall 2020**	**Fall 2021**
High School/Adult School	13	11	16	24	15
Freshmen (<30 units)	159	208	195	171	142
Sophomore (30-59 units)	103	112	121	101	101
Other Undergraduate (60 units or more)	61	55	50	49	60
AA/AS Degree	8	8	10	9	3
BA/BS or Higher Degree	28	29	32	26	23
% High School/Adult School	3%	3%	4%	6%	4%
% Freshmen (<30 units)	43%	49%	46%	45%	41%
% Sophomore (30-59 units)	28%	26%	29%	27%	29%
% Other Undergraduate (60 units or more)	16%	13%	12%	13%	17%
% AA/AS Degree	2%	2%	2%	2%	1%
% BA/BS or Higher Degree	8%	7%	8%	7%	7%

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

Student Performance: Grade Distribution

| Computer Science (CS)					
	Term				
	Fall 2017	**Fall 2018**	**Fall 2019**	**Fall 2020**	**Fall 2021**
Total Course Enrollments	**427**	**468**	**482**	**422**	**378**
Course Success Rates	**66%**	**66%**	**64%**	**67%**	**70%**
A	32%	33%	31%	36%	34%
B	19%	20%	21%	21%	24%
C	15%	12%	12%	9%	11%
P	0%	0%	<1%	<1%	<1%
Course Non-Success Rate	**18%**	**16%**	**11%**	**13%**	**10%**
D	5%	5%	5%	5%	3%
F*	13%	11%	6%	8%	7%
Withdrawals (See Note)	**16%**	**18%**	**25%**	**20%**	**21%**
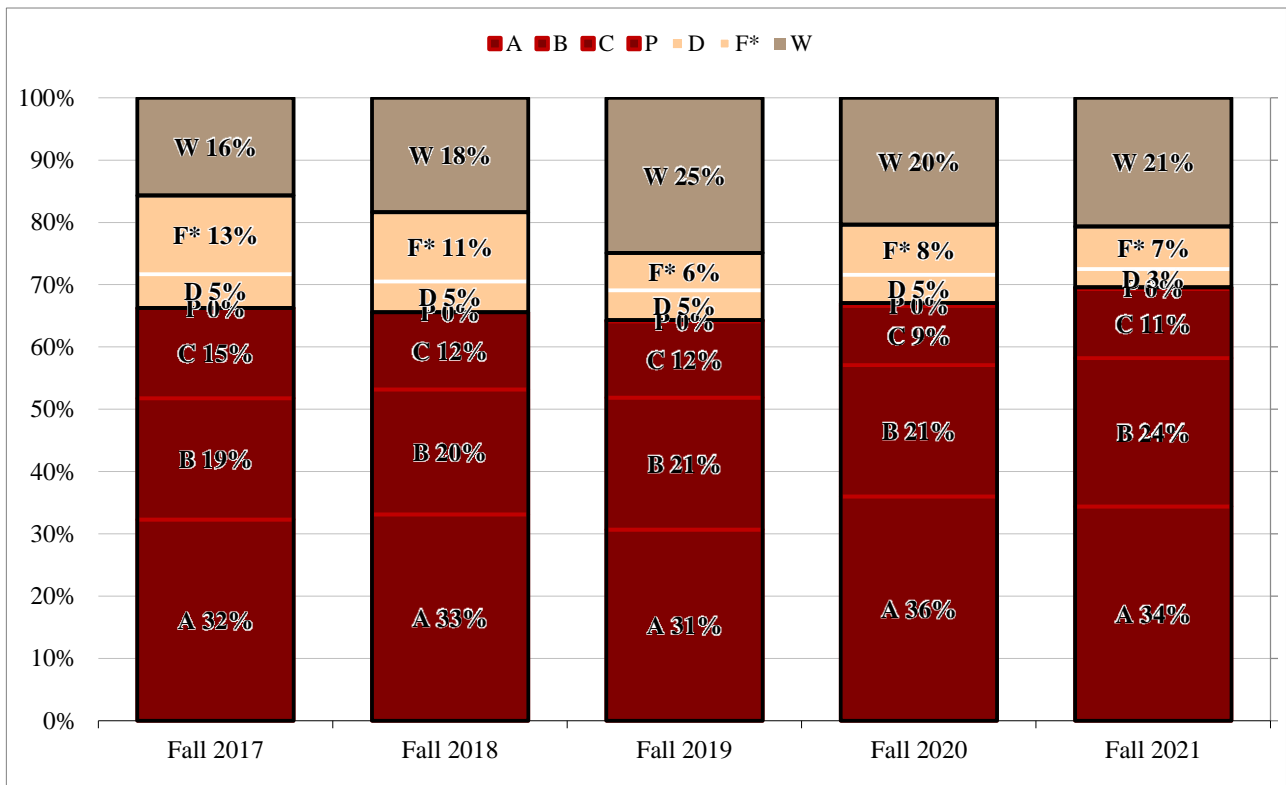
Definitions:

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)					
	Term				
	Fall 2017	**Fall 2018**	**Fall 2019**	**Fall 2020**	**Fall 2021**
Total Course Enrollments	**427**	**468**	**482**	**422**	**378**
Face-to-Face (F2F) Sections	**421**	**466**	**478**	**0**	**0**
Success Rates	66%	66%	64%	—	—
Non-Success Rates	18%	16%	11%	—	—
Withdrawals	16%	18%	25%	—	—
Distance Education (DE) Sections	**6**	**2**	**4**	**422**	**378**
Success Rates	83%	50%	100%	67%	70%
Non-Success Rates	0%	50%	0%	13%	10%
Withdrawals	17%	0%	0%	20%	21%
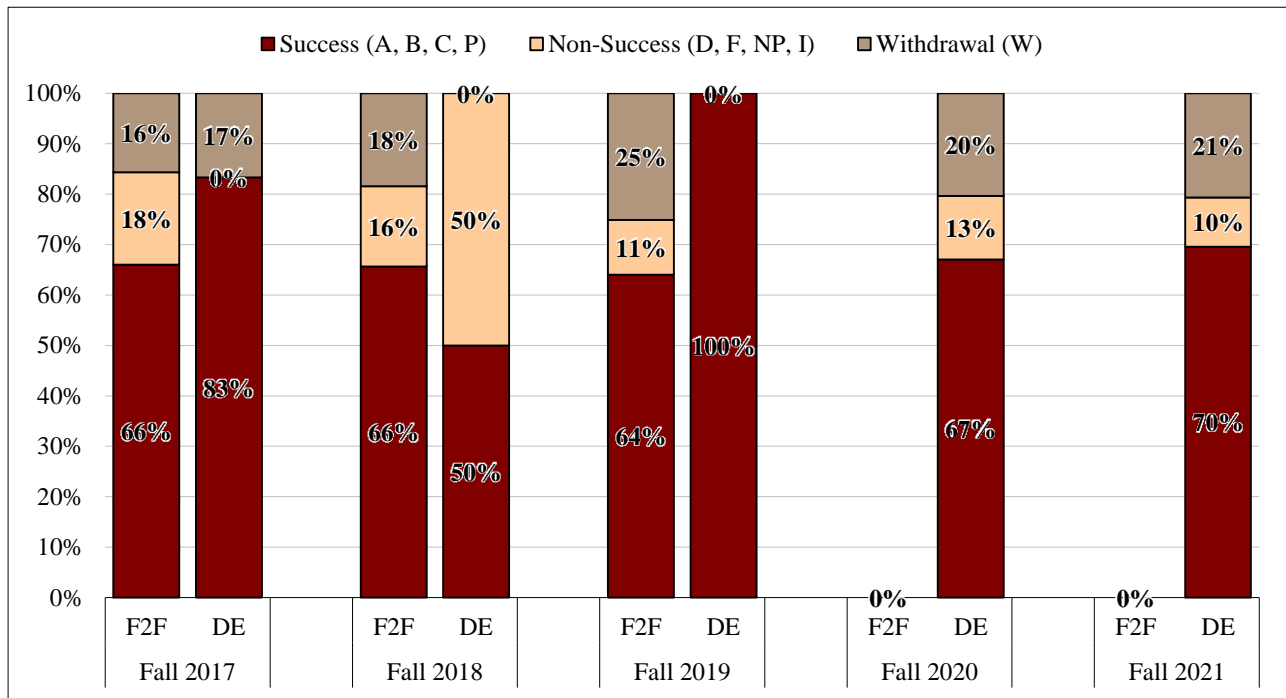
Definitions:

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)					
	Term				
	Fall 2017	**Fall 2018**	**Fall 2019**	**Fall 2020**	**Fall 2021**
WSCH	2,466	2,692	2,779	2,409	2,170
FTES	77.6	86.4	89.1	77.3	70.5
FTEF	4.4	5.0	5.0	4.7	4.3
Productivity (WSCH/FTEF)	563.8	535.0	556.8	514.5	500.9
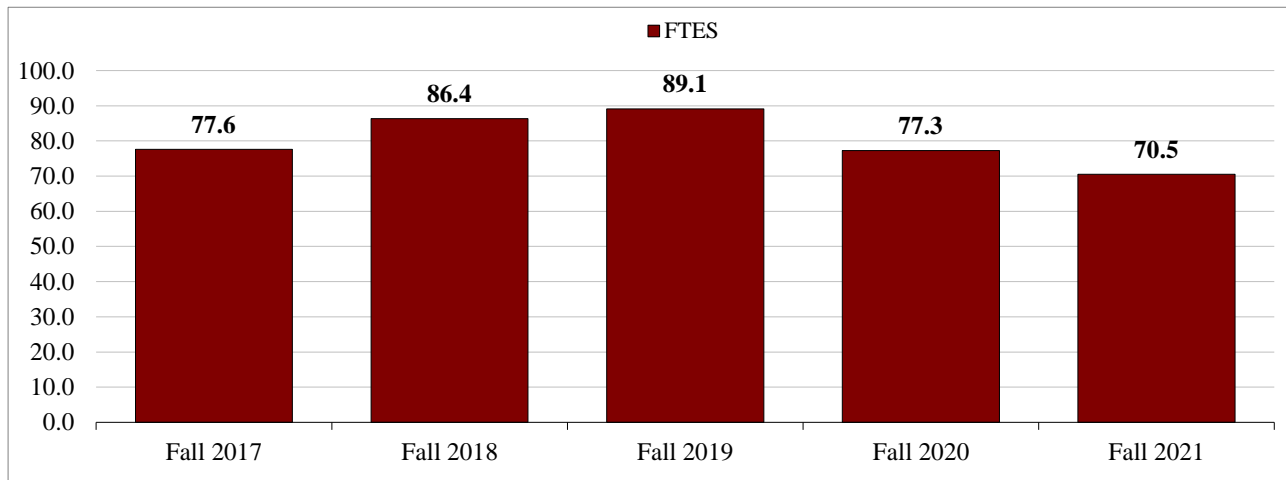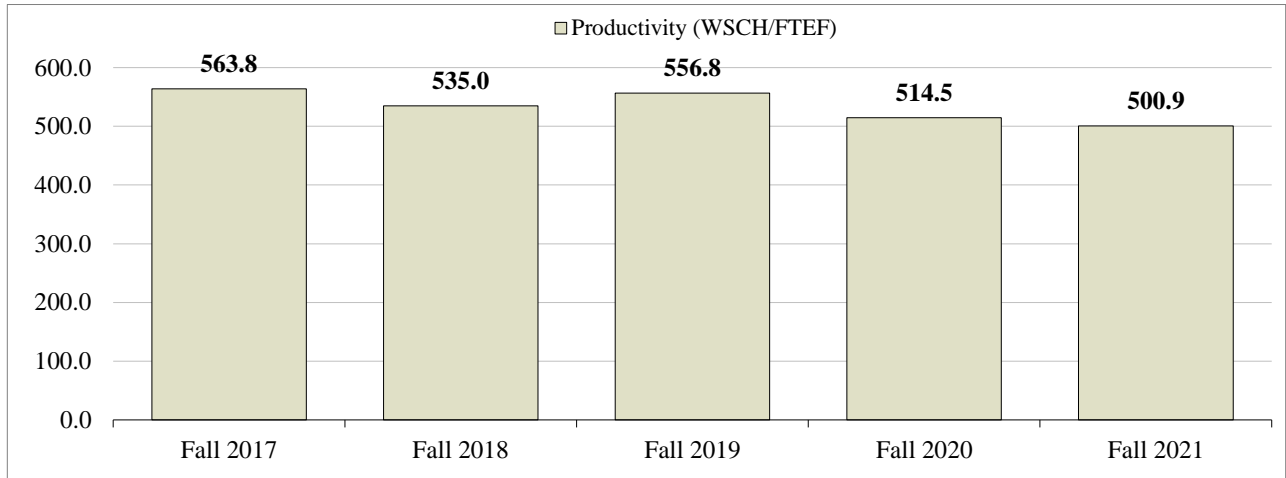
Definitions:

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 7/20/21.

Enrollment Management: Part 2

| Computer Science (CS)					
	Term				
	Fall 2017	**Fall 2018**	**Fall 2019**	**Fall 2020**	**Fall 2021**
FTEF from Full-Time Faculty	1.1	2.0	2.1	2.1	1.8
% FTEF from Full-Time Faculty	24%	40%	42%	45%	40%
Enrollments	427	468	482	422	378
Capacity (seats available)	390	451	450	390	390
Fill Rate	109%	104%	107%	108%	97%
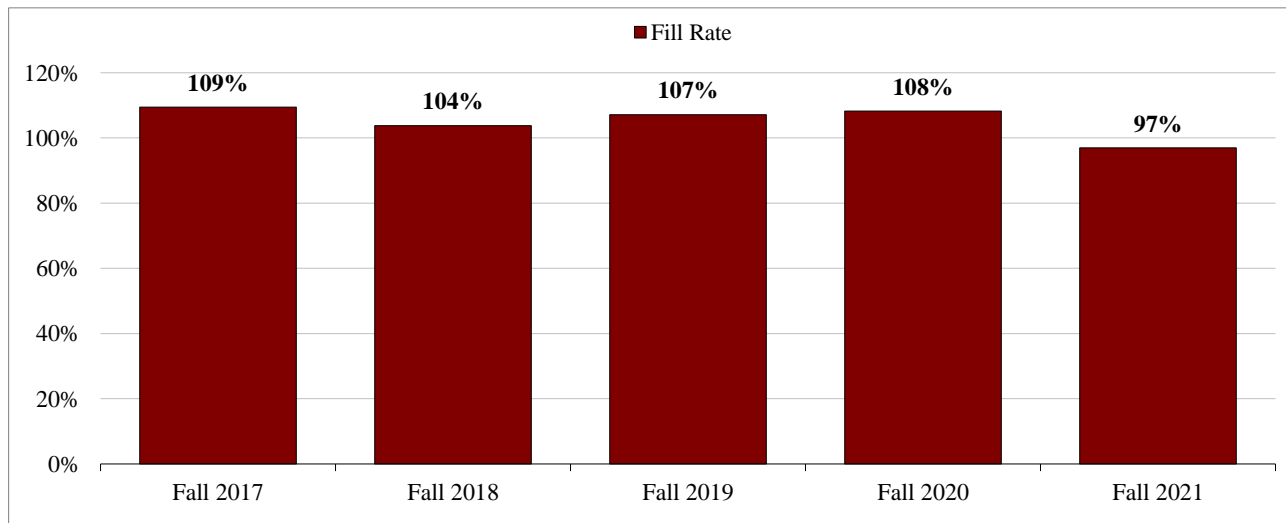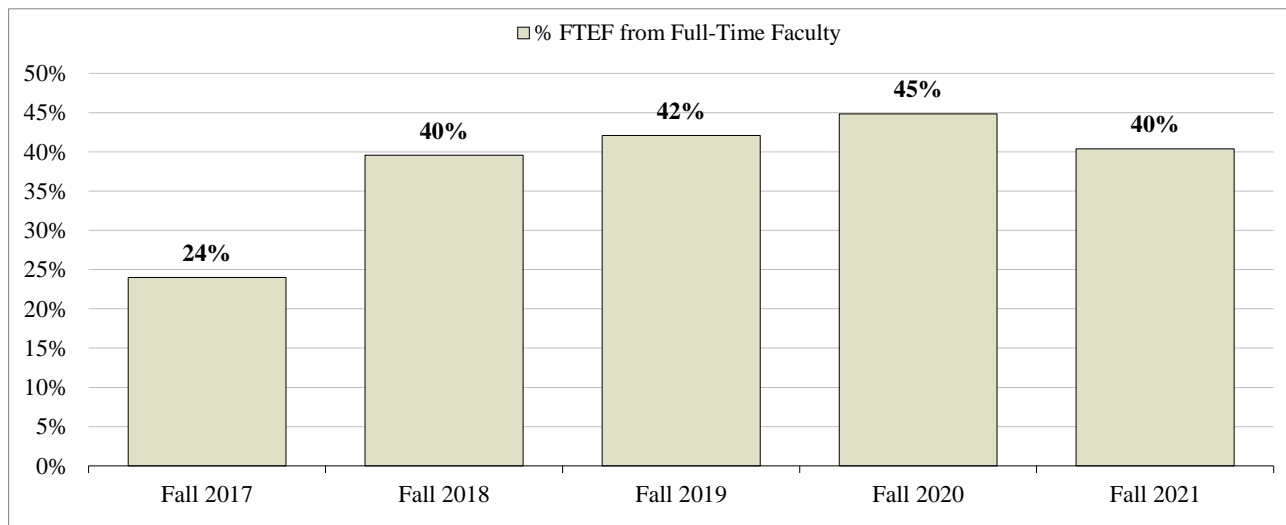
Definitions:

    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 7/20/21.

Office of Research, Planning, and Institutional Effectiveness
Las Positas College
8/2/2022   Page 12 of 13

Prior Experience in English & Math

Fall 2021				
	CS		**LPC Overall**	
	Num	**Pct**	**Num**	**Pct**
College English				
Completed College-level	203	59%	3,849	52%
Attempted College-level	13	4%	430	6%
Attempted Below College-level	0	0%	46	1%
No Prior Attempt (has placement)	101	29%	1,845	25%
No Prior Attempt (no placement)	27	8%	1,202	16%
College Math				
Completed College-level	286	83%	4,530	61%
Attempted College-level	4	1%	132	2%
Attempted Below College-level	3	1%	181	2%
No Prior Attempt (has placement)	34	10%	1,337	18%
No Prior Attempt (no placement)	17	5%	1,192	16%
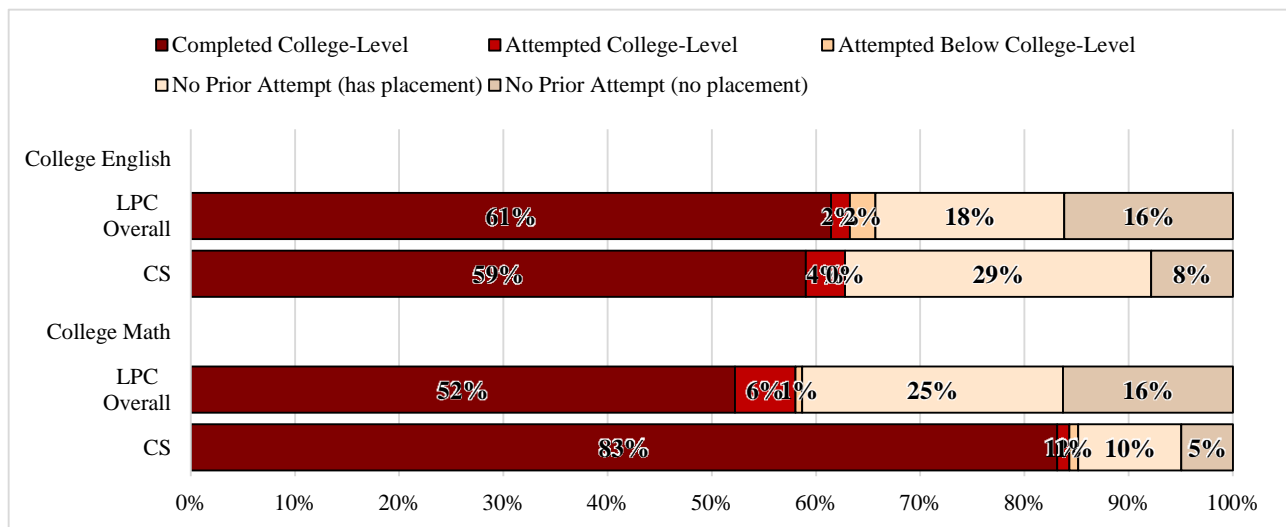
Definitions:

College English: **Completed College-level** = successfully completed ENG 1A, 1AEX, or attempted transfer level, or has earned at least an Associates degree.

Attempted College-level = attempted ENG 1A or 1AEX but has not successfully completed prior to indicated term.

Attempted Below College-level = attempted ENG 102, 104, 105, 100A , 100B, NENG 204, or ESL 25 prior to indicated term.

No Prior Attempt (has placement) = no previous English enrollments within the sequence but has used a placement tool.

No Prior Atempt (no placement) = no previous English enrollments within the sequence and did not utilize a placement tool.

College Math:

Completed College-level = succesfully completed MATH 55, 50, NMAT 255 or 250, or attempted transfer level, or has earned at least an Associates degree.

Attempted College-level = attempted MATH 55, 50, NMAT 255 or 250 but has not successfully completed prior to indicated term.

Attempted Below College-level = attempted MATH 110, 107, NMAT 210 or 207 prior to indicated term.

No Prior Attempt (has placement) = no previous Math enrollments within the sequence but has used a placement tool.

No Prior Atempt (no placement) = no previous Math enrollments within the sequence and did not utilize a placement tool.