



Las Positas College

**Discipline Program Review Data Packet**

Spring 2017 to Spring 2021

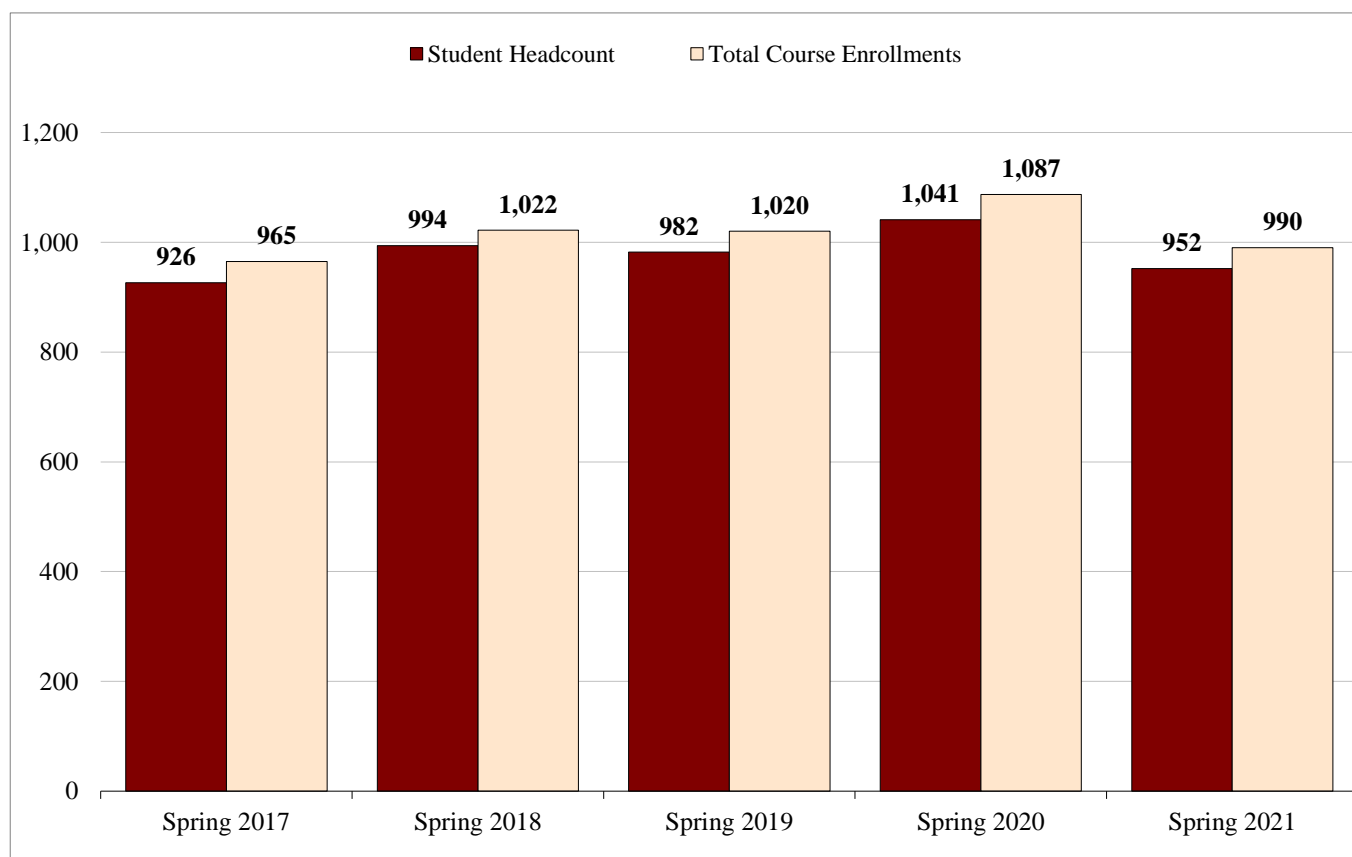
Discipline:

**Biological Sciences (BIO)**

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## Headcount & Enrollment

Biological Sciences ( BIO )					
	Term				
	Spring 2017	Spring 2018	Spring 2019	Spring 2020	Spring 2021
Student Headcount	926	994	982	1,041	952
Total Course Enrollments	965	1,022	1,020	1,087	990



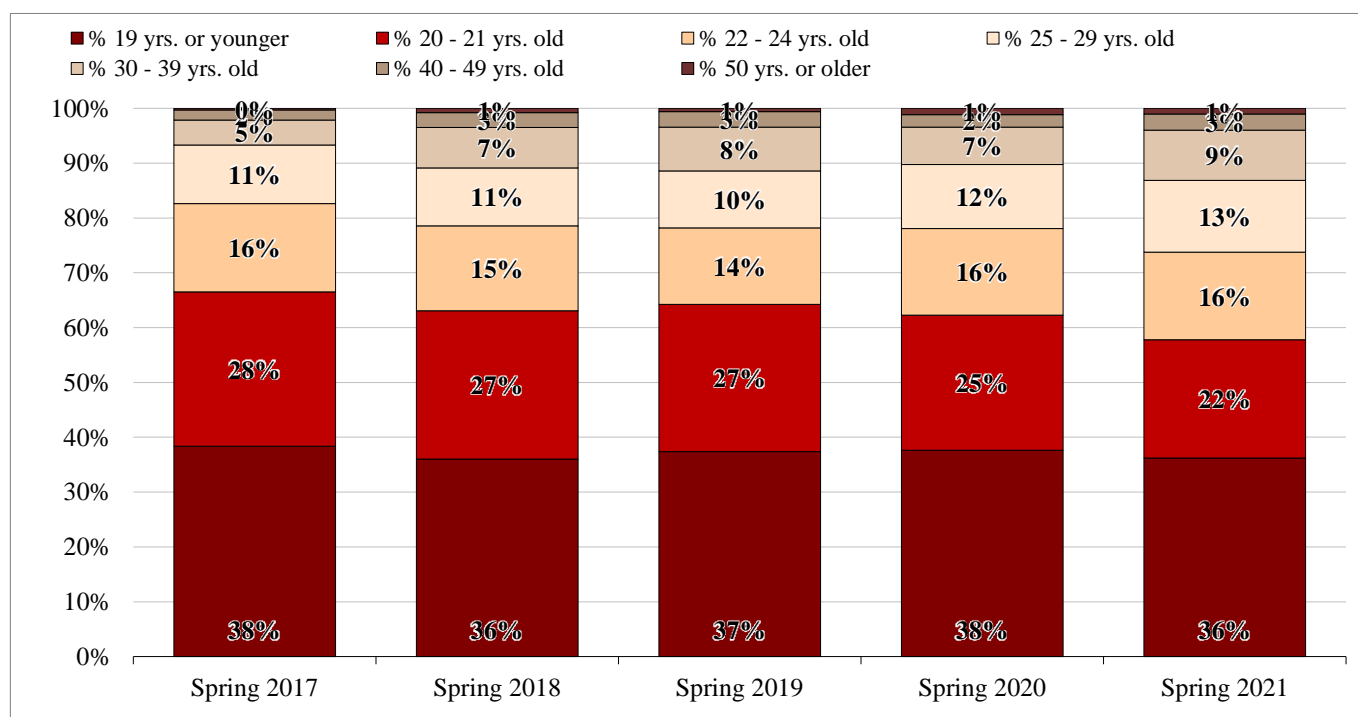
### Definitions:

**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.

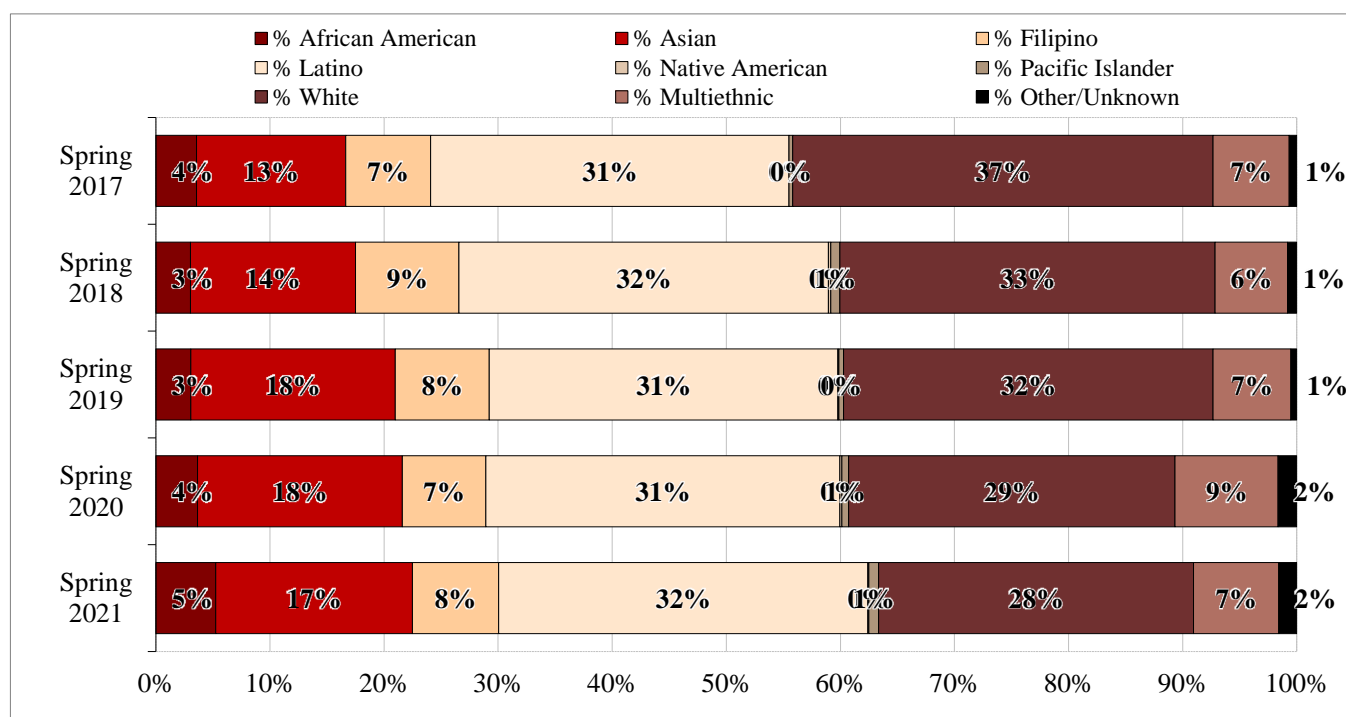
## Student Demographics: Gender & Age

Biological Sciences ( BIO )					
	Term				
	Spring 2017	Spring 2018	Spring 2019	Spring 2020	Spring 2021
Female	566	607	635	664	603
Male	347	374	336	359	333
19 yrs. or younger	355	358	367	392	345
20-21 yrs. old	261	269	264	256	205
22-24 yrs. old	149	154	137	165	152
25-29 yrs. old	99	105	102	121	125
30-39 yrs. old	42	73	78	71	87
40-49 yrs. old	17	27	28	24	28
50 yrs. or older	3	8	6	12	10
% Female	62%	62%	65%	65%	64%
% Male	38%	38%	35%	35%	36%
% 19 yrs. or younger	38%	36%	37%	38%	36%
% 20 - 21 yrs. old	28%	27%	27%	25%	22%
% 22 - 24 yrs. old	16%	15%	14%	16%	16%
% 25 - 29 yrs. old	11%	11%	10%	12%	13%
% 30 - 39 yrs. old	5%	7%	8%	7%	9%
% 40 - 49 yrs. old	2%	3%	3%	2%	3%
% 50 yrs. or older	<1%	1%	1%	1%	1%



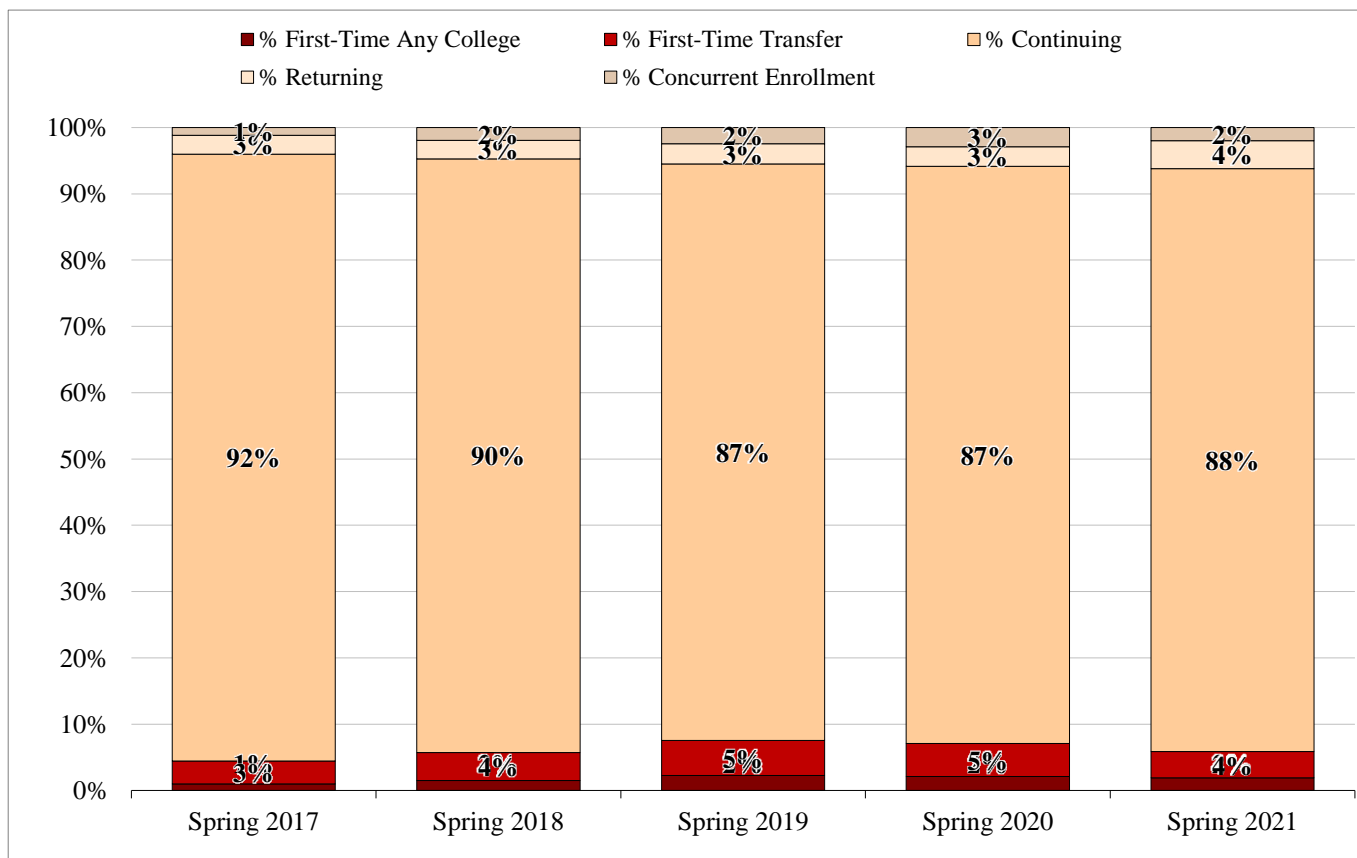
## Student Demographic: Race-Ethnicity

Biological Sciences ( BIO )					
	Term				
	Spring 2017	Spring 2018	Spring 2019	Spring 2020	Spring 2021
African American	33	30	30	38	50
Asian	121	144	176	187	164
Filipino	69	90	81	76	72
Latino	291	322	300	323	308
Native American	0	2	1	2	1
Pacific Islander	3	8	4	6	8
White	341	327	318	298	263
Multiethnic	62	63	67	94	71
Other/Unknown	6	8	5	17	15
% African American	4%	3%	3%	4%	5%
% Asian	13%	14%	18%	18%	17%
% Filipino	7%	9%	8%	7%	8%
% Latino	31%	32%	31%	31%	32%
% Native American	0%	<1%	<1%	<1%	<1%
% Pacific Islander	<1%	1%	<1%	1%	1%
% White	37%	33%	32%	29%	28%
% Multiethnic	7%	6%	7%	9%	7%
% Other/Unknown	1%	1%	1%	2%	2%



## Student Enrollment Status

Biological Sciences ( BIO )					
	Term				
	Spring 2017	Spring 2018	Spring 2019	Spring 2020	Spring 2021
First-Time Any College	9	15	22	22	18
First-Time Transfer	32	42	52	52	38
Continuing	847	890	854	906	837
Returning	26	28	30	31	40
Concurrent Enrollment	11	19	24	30	19
% First-Time Any College	1%	2%	2%	2%	2%
% First-Time Transfer	3%	4%	5%	5%	4%
% Continuing	92%	90%	87%	87%	88%
% Returning	3%	3%	3%	3%	4%
% Concurrent Enrollment	1%	2%	2%	3%	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.

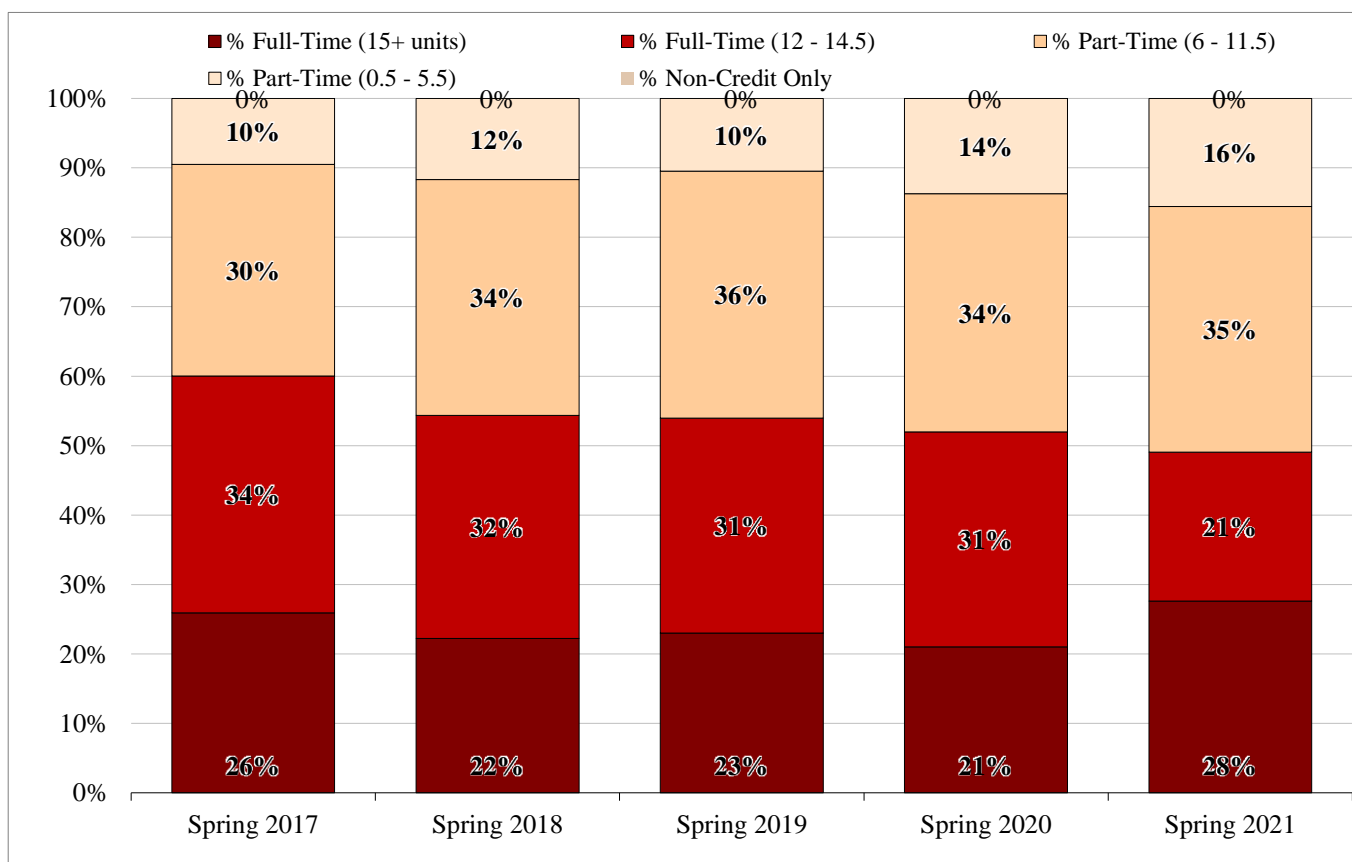
**Continuing:** Students enrolled in the current semester and were enrolled in the previous primary term. Primary terms are Fall and Spring.

**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.

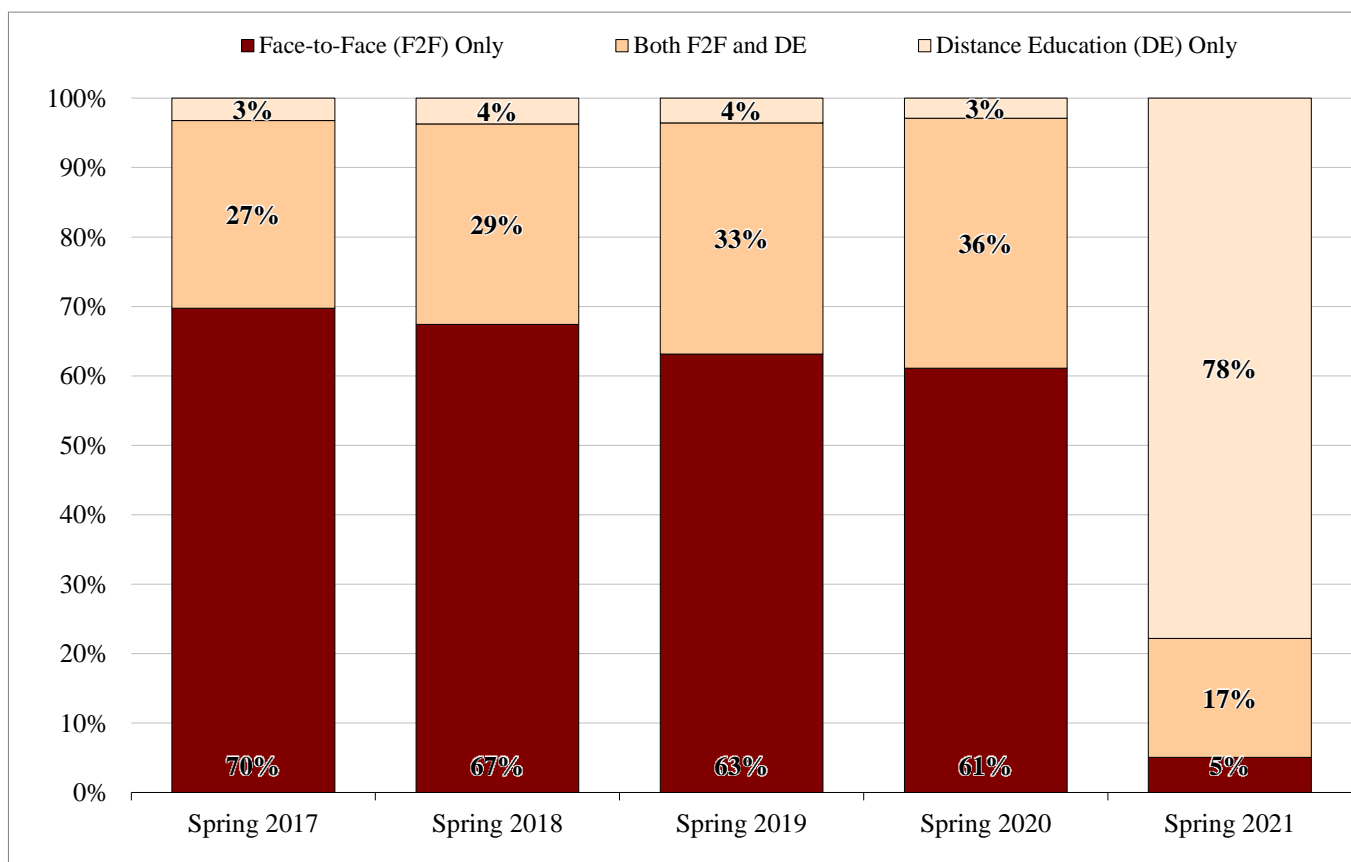
## Student Unit Load

Biological Sciences ( BIO )					
	Term				
	Spring 2017	Spring 2018	Spring 2019	Spring 2020	Spring 2021
Full-Time (15+ units)	240	221	226	219	263
Full-Time (12 - 14.5)	316	319	304	322	204
Part-Time (6 - 11.5)	282	338	349	357	337
Part-Time (0.5 - 5.5)	88	116	103	143	148
Non-Credit Only	0	0	0	0	0
% Full-Time (15+ units)	26%	22%	23%	21%	28%
% Full-Time (12 - 14.5)	34%	32%	31%	31%	21%
% Part-Time (6 - 11.5)	30%	34%	36%	34%	35%
% Part-Time (0.5 - 5.5)	10%	12%	10%	14%	16%
% Non-Credit Only	0%	0%	0%	0%	0%



## Students Using Distance Education

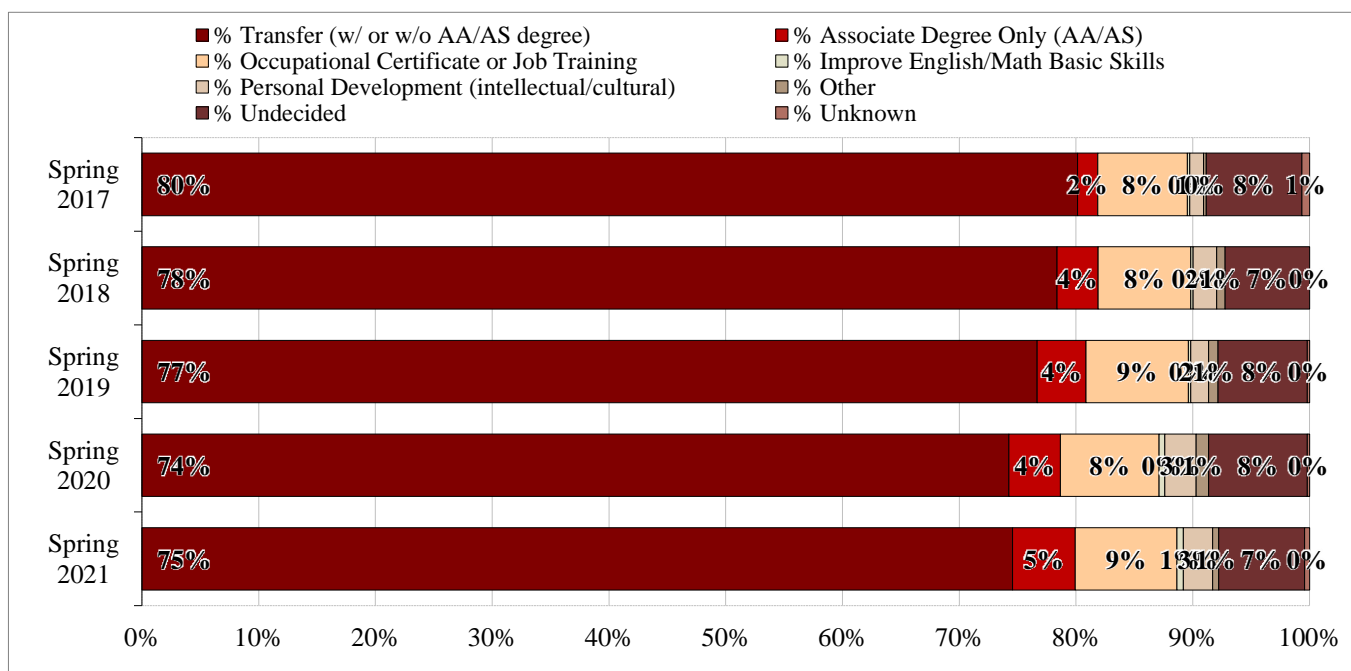
Biological Sciences ( BIO )					
(Categories reflect college-wide coursework)	Term				
	Spring 2017	Spring 2018	Spring 2019	Spring 2020	Spring 2021
Face-to-Face (F2F) Only	646	670	620	636	48
Both F2F and DE	250	287	327	375	163
Distance Education (DE) Only	30	37	35	30	741
% Face-to-Face (F2F) Only	70%	67%	63%	61%	5%
% Both F2F and DE	27%	29%	33%	36%	17%
% Distance Education (DE) Only	3%	4%	4%	3%	78%



**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

Biological Sciences ( BIO )					
	Term				
	Spring 2017	Spring 2018	Spring 2019	Spring 2020	Spring 2021
Transfer (w/ or w/o AA/AS degree)	742	779	753	773	710
Associate Degree Only (AA/AS)	16	35	41	46	51
Occupational Certificate or Job Training	71	79	86	88	83
Improve English/Math Basic Skills	2	2	2	5	5
Personal Development (intellectual/cultural)	11	20	15	28	24
Other	2	7	8	11	5
Undecided	76	72	75	88	70
Unknown	6	0	2	2	4
% Transfer (w/ or w/o AA/AS degree)	80%	78%	77%	74%	75%
% Associate Degree Only (AA/AS)	2%	4%	4%	4%	5%
% Occupational Certificate or Job Training	8%	8%	9%	8%	9%
% Improve English/Math Basic Skills	<1%	<1%	<1%	<1%	1%
% Personal Development (intellectual/cultural)	1%	2%	2%	3%	3%
% Other	<1%	1%	1%	1%	1%
% Undecided	8%	7%	8%	8%	7%
% Unknown	1%	0%	<1%	<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.

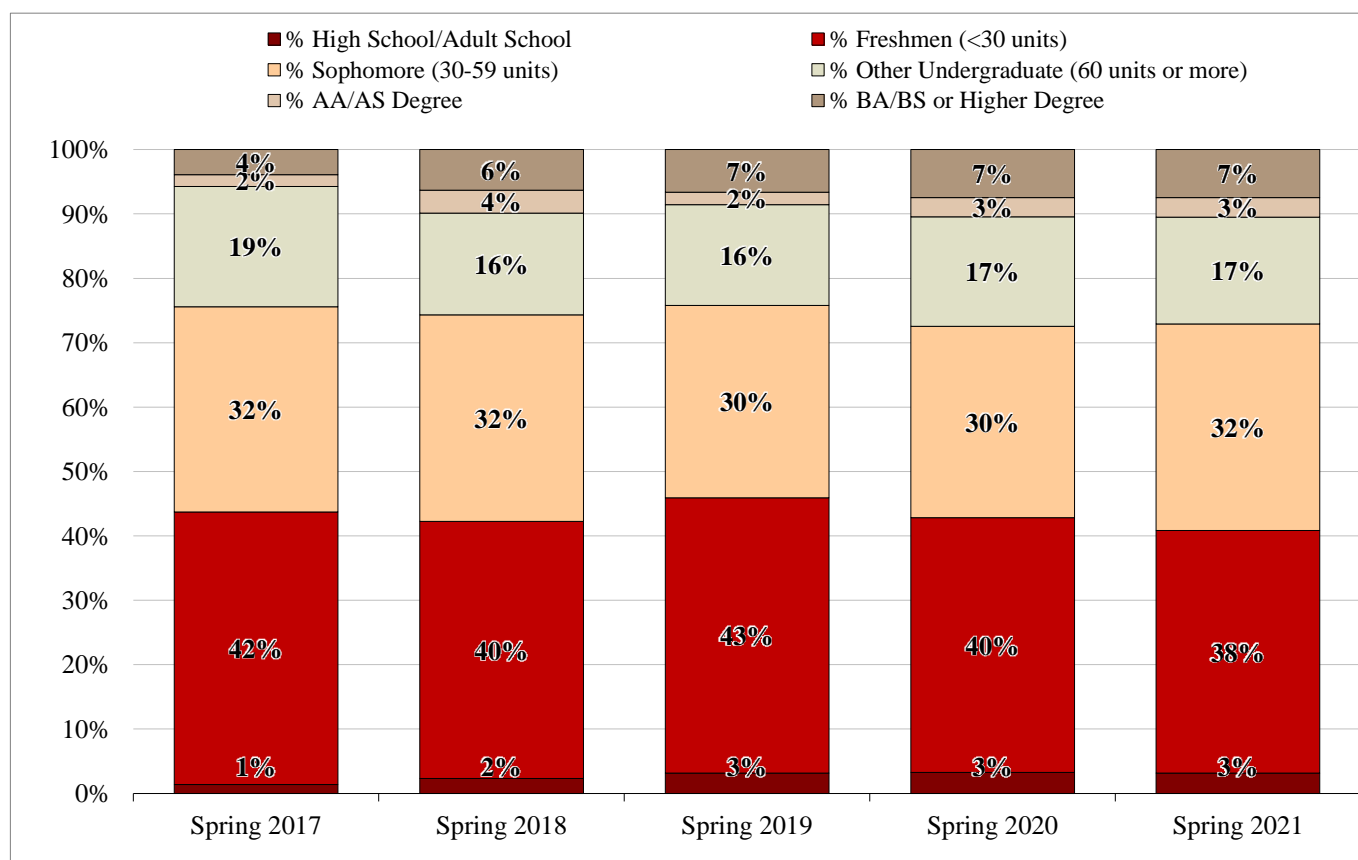
**Personal Development:** Students taking courses for intellectual and/or cultural development.

**Other:** Students completing diploma/GED requirements or moving from non-credit to credit courses. Data from admission application.



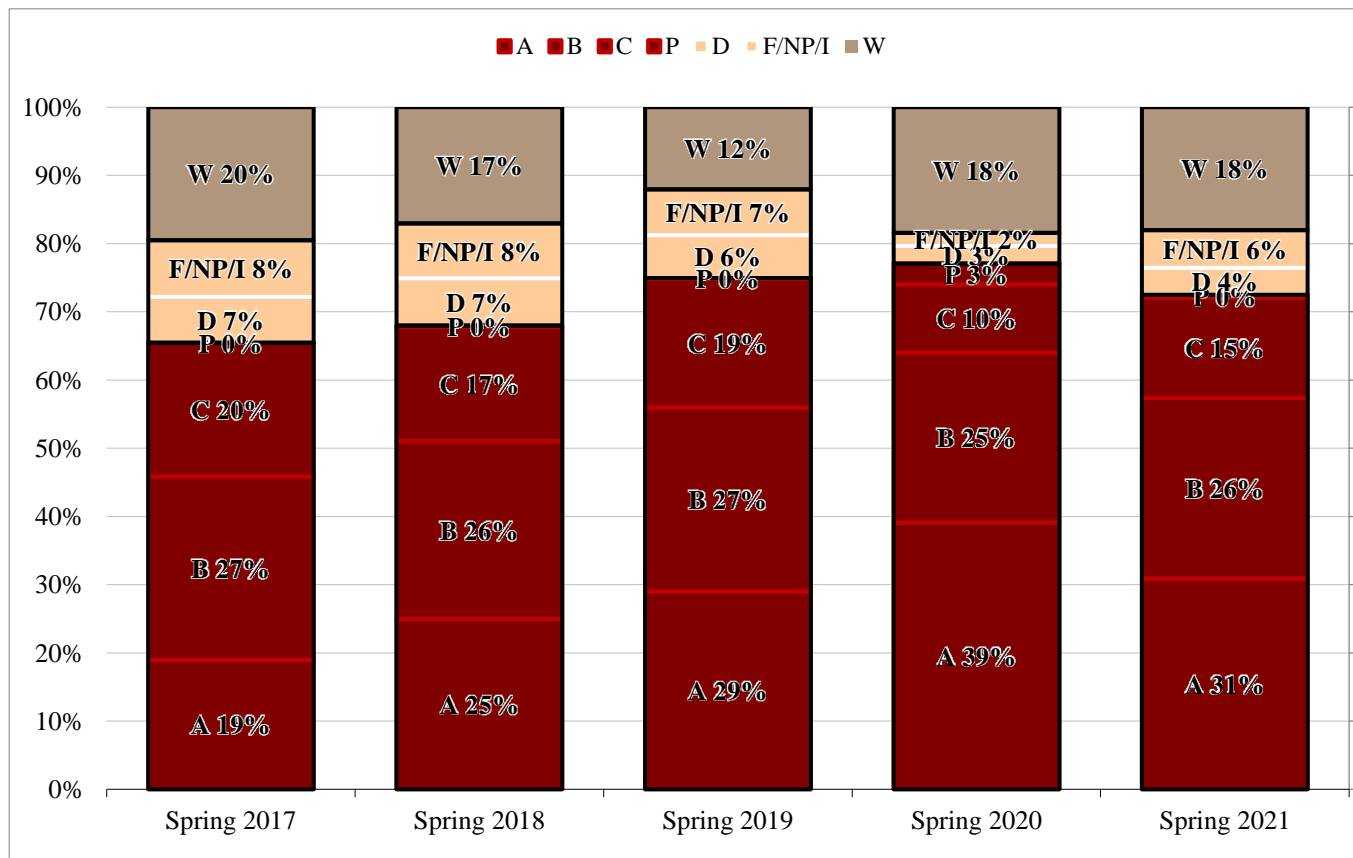
## Highest Educational Level of Students

Biological Sciences ( BIO )					
	Term				
	Spring 2017	Spring 2018	Spring 2019	Spring 2020	Spring 2021
High School/Adult School	13	23	31	34	30
Freshmen (<30 units)	392	397	420	412	359
Sophomore (30-59 units)	295	319	293	309	305
Other Undergraduate (60 units or more)	173	157	154	177	158
AA/AS Degree	17	35	19	31	29
BA/BS or Higher Degree	36	63	65	78	71
% High School/Adult School	1%	2%	3%	3%	3%
% Freshmen (<30 units)	42%	40%	43%	40%	38%
% Sophomore (30-59 units)	32%	32%	30%	30%	32%
% Other Undergraduate (60 units or more)	19%	16%	16%	17%	17%
% AA/AS Degree	2%	4%	2%	3%	3%
% BA/BS or Higher Degree	4%	6%	7%	7%	7%



## Student Performance: Grade Distribution

Biological Sciences ( BIO )					
	Term				
	Spring 2017	Spring 2018	Spring 2019	Spring 2020	Spring 2021
<b>Total Course Enrollments</b>	<b>965</b>	<b>1,022</b>	<b>1,020</b>	<b>1,087</b>	<b>990</b>
<b>Course Success Rates</b>	<b>65%</b>	<b>68%</b>	<b>75%</b>	<b>77%</b>	<b>73%</b>
A	19%	25%	29%	39%	31%
B	27%	26%	27%	25%	26%
C	20%	17%	19%	10%	15%
P	0%	<1%	<1%	3%	<1%
<b>Course Non-Success Rate</b>	<b>15%</b>	<b>15%</b>	<b>13%</b>	<b>4%</b>	<b>9%</b>
D	7%	7%	6%	3%	4%
F*	8%	8%	7%	2%	6%
<b>Withdrawals (See Note)</b>	<b>20%</b>	<b>17%</b>	<b>12%</b>	<b>18%</b>	<b>18%</b>



### Definitions:

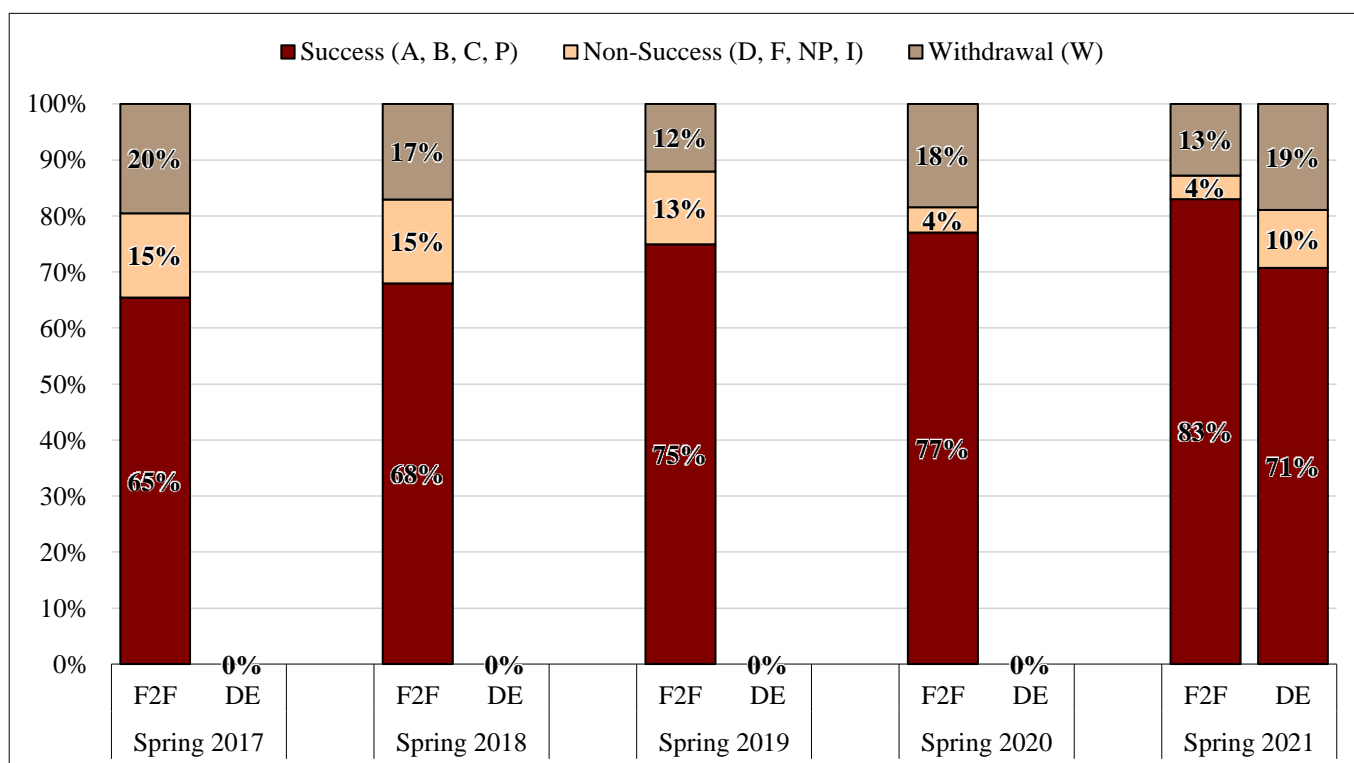
**Course Success Rate:** Share of course enrollments resulting in a passing grade ('A', 'B', 'C', 'P', 'NCA', 'NCB', 'NCC', or 'NCP').

**Course Non-Success Rate:** Share of course enrollments resulting in a grade of 'D' or 'F\*' (includes: 'F', 'NP', '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.

## Student Performance: Distance Education

Biological Sciences ( BIO )					
	Term				
	Spring 2017	Spring 2018	Spring 2019	Spring 2020	Spring 2021
<b>Total Course Enrollments</b>	<b>965</b>	<b>1,022</b>	<b>1,020</b>	<b>1,087</b>	<b>990</b>
<b>Face-to-Face (F2F) Sections</b>	<b>896</b>	<b>945</b>	<b>952</b>	<b>1013</b>	<b>141</b>
Success Rates	65%	68%	75%	77%	83%
Non-Success Rates	15%	15%	13%	4%	4%
Withdrawals	20%	17%	12%	18%	13%
<b>Distance Education (DE) Sections</b>	<b>69</b>	<b>77</b>	<b>67</b>	<b>74</b>	<b>849</b>
Success Rates	—	—	—	—	71%
Non-Success Rates	—	—	—	—	10%
Withdrawals	—	—	—	—	19%



### Definitions:

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

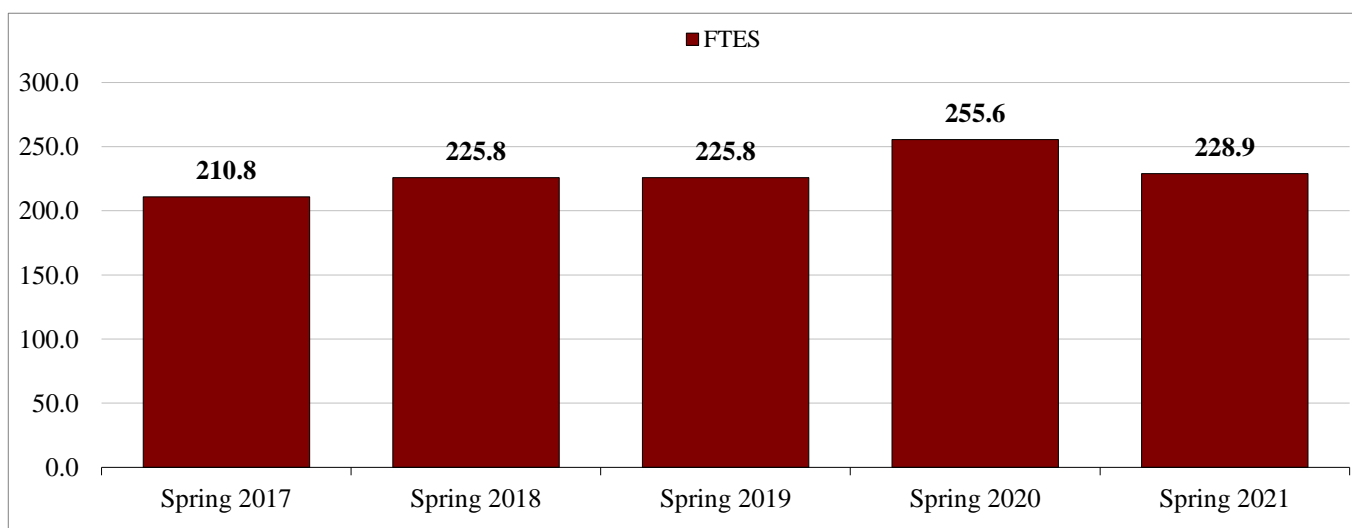
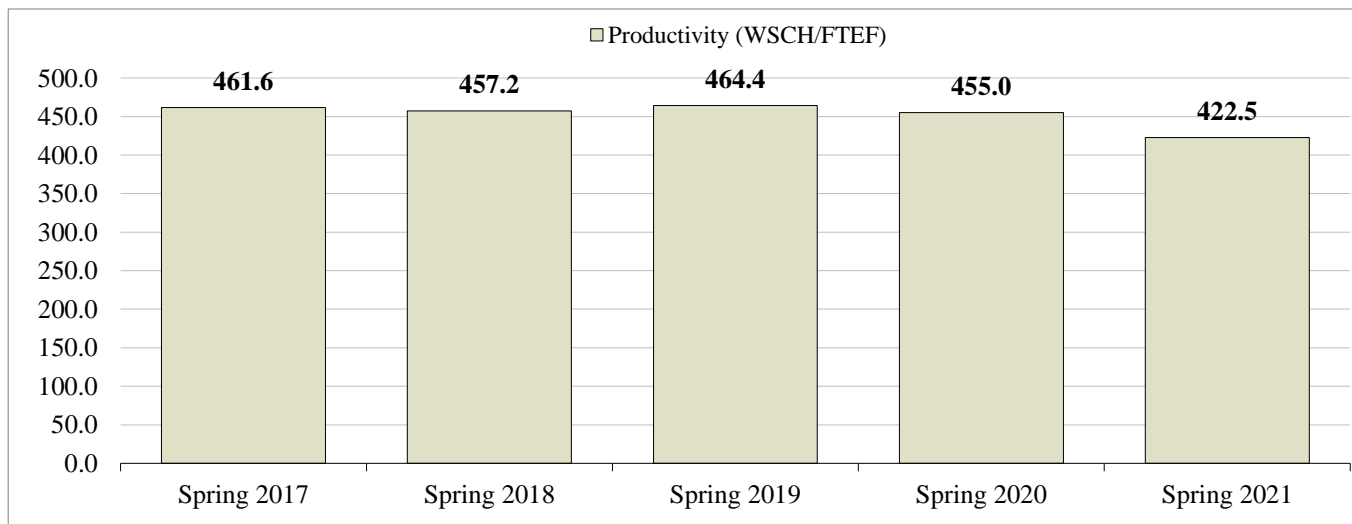
**Course Non-Success Rate:** Share of course enrollments resulting in a grade of 'D', 'F', 'NP', 'T', 'NCD', 'NCF', or 'NCNP'.

**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 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**

<b>Biological Sciences ( BIO )</b>					
	<b>Term</b>				
	<b>Spring 2017</b>	<b>Spring 2018</b>	<b>Spring 2019</b>	<b>Spring 2020</b>	<b>Spring 2021</b>
WSCH	6,435	6,849	6,878	7,817	6,938
FTES	210.8	225.8	225.8	255.6	228.9
FTEF	13.9	15.0	14.8	17.2	16.4
Productivity (WSCH/FTEF)	461.6	457.2	464.4	455.0	422.5

**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.

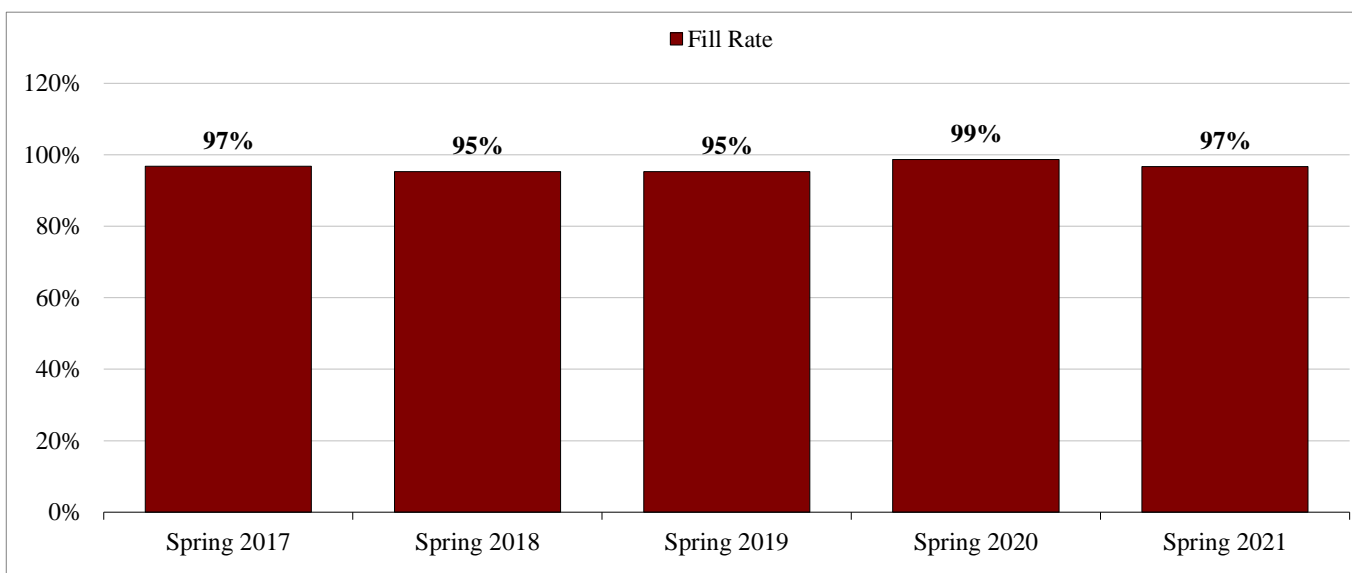
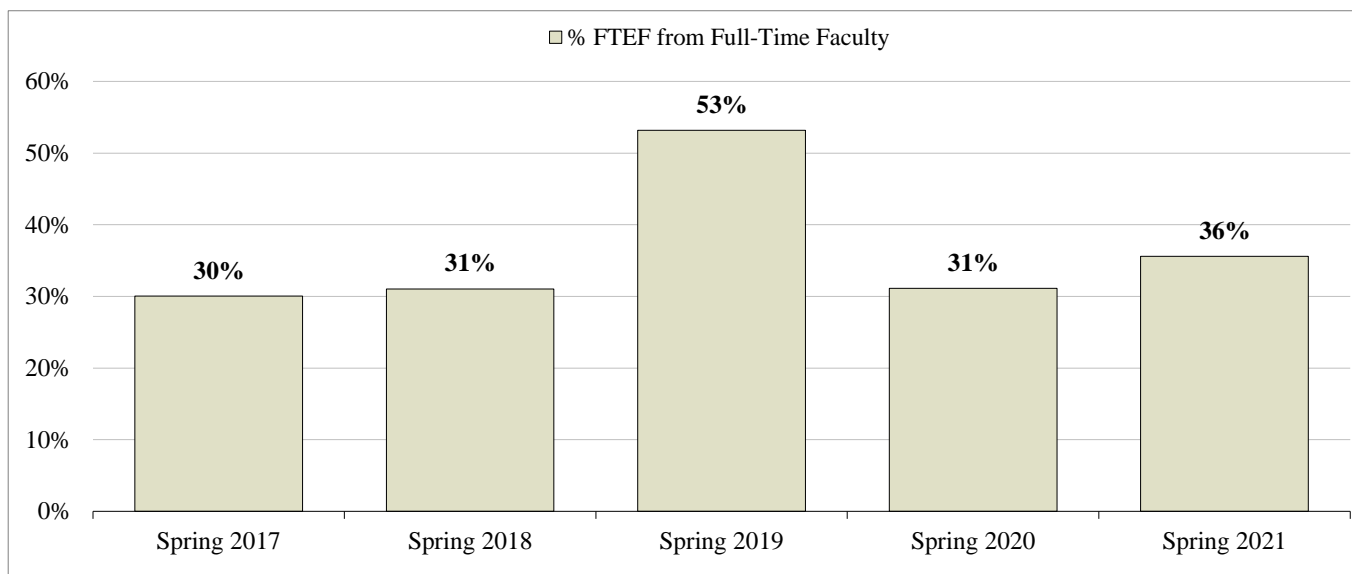
**FTEF** is the Full Time Equivalent Faculty associated with the discipline's course offerings for that semester.

**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

Biological Sciences ( BIO )					
	Term				
	Spring 2017	Spring 2018	Spring 2019	Spring 2020	Spring 2021
FTEF from Full-Time Faculty	4.2	4.7	7.9	5.4	5.8
% FTEF from Full-Time Faculty	30%	31%	53%	31%	36%
Enrollments	965	1,022	1,020	1,087	990
Capacity (seats available)	997	1,073	1,070	1,102	1,024
Fill Rate	97%	95%	95%	99%	97%



### Definitions:

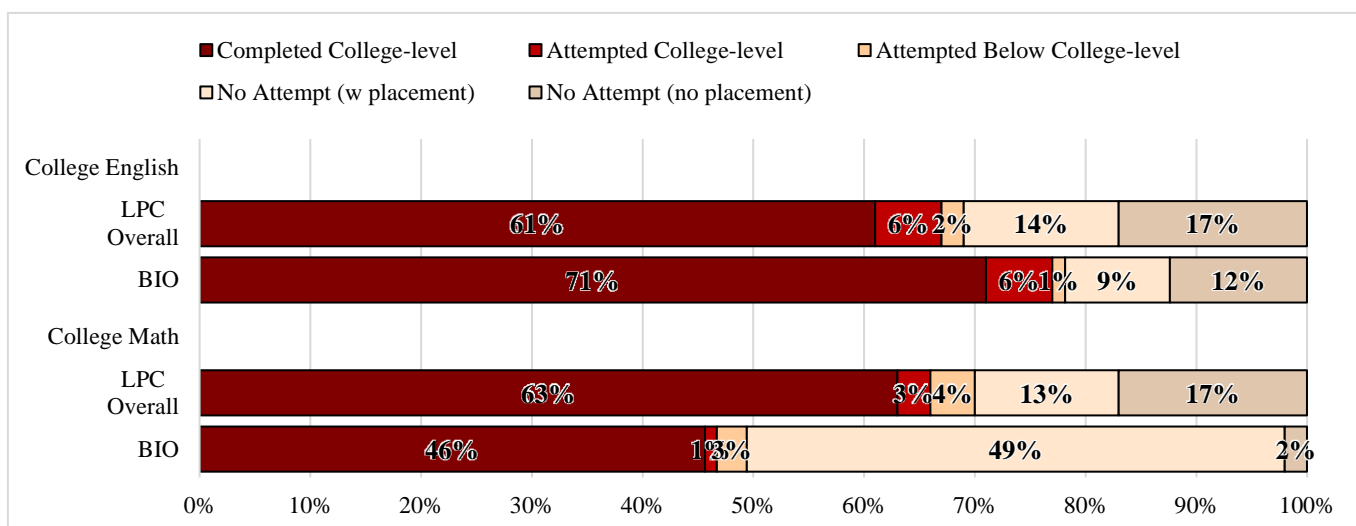
**Fill Rate** is number of enrollments over the total capacity (seats available).

**% 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 7/14/20.

## Prior Experience in English & Math

	Spring 2021			
	BIO		LPC Overall	
	Num	Pct	Num	Pct
<b>College English</b>				
Completed College-level	676	71%	4,882	61%
Attempted College-level	57	6%	547	7%
Attempted Below College-level	11	1%	65	1%
No Prior Attempt (has placement)	90	9%	1,066	13%
No Prior Attempt (no placement)	118	12%	1,485	18%
<b>College Math</b>				
Completed College-level	387	46%	5,173	64%
Attempted College-level	9	1%	186	2%
Attempted Below College-level	23	3%	217	3%
No Prior Attempt (has placement)	412	49%	1,126	14%
No Prior Attempt (no placement)	17	2%	1,343	17%



### 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 Attempt (no placement)** = no previous English enrollments within the sequence and did not utilize a placement tool.

### College Math:

**Completed College-level** = successfully 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 Attempt (no placement)** = no previous Math enrollments within the sequence and did not utilize a placement tool.