



Las Positas College
Program Review Discipline Data Packet
Spring 2016 to Spring 2020

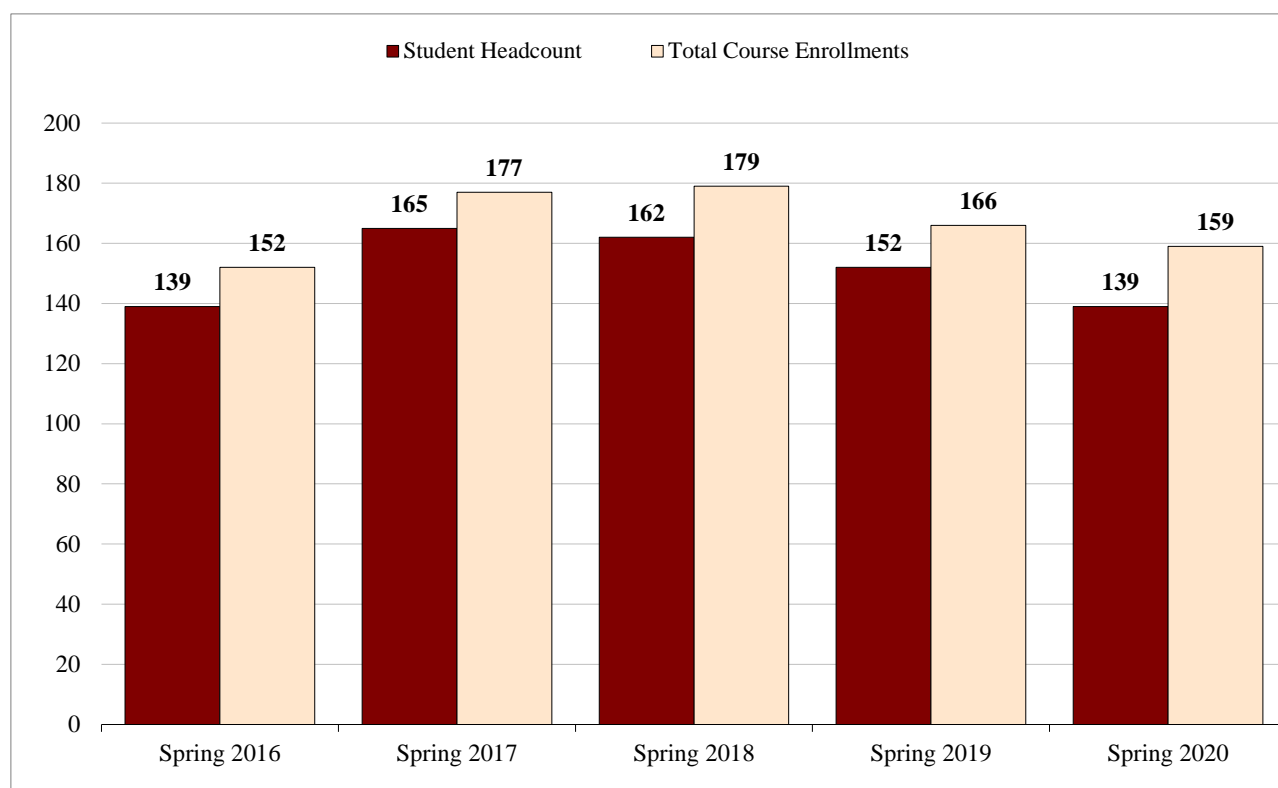
Discipline:
Engineering (ENGR)

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NOTE: ^ next to rubric / subject code indicates that the report combines data for related credit and non-credit rubrics

Headcount & Enrollment

| Engineering (ENGR) | | | | | |
|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | Term | | | | |
| | Spring 2016 | Spring 2017 | Spring 2018 | Spring 2019 | Spring 2020 |
| Student Headcount | 139 | 165 | 162 | 152 | 139 |
| Total Course Enrollments | 152 | 177 | 179 | 166 | 159 |



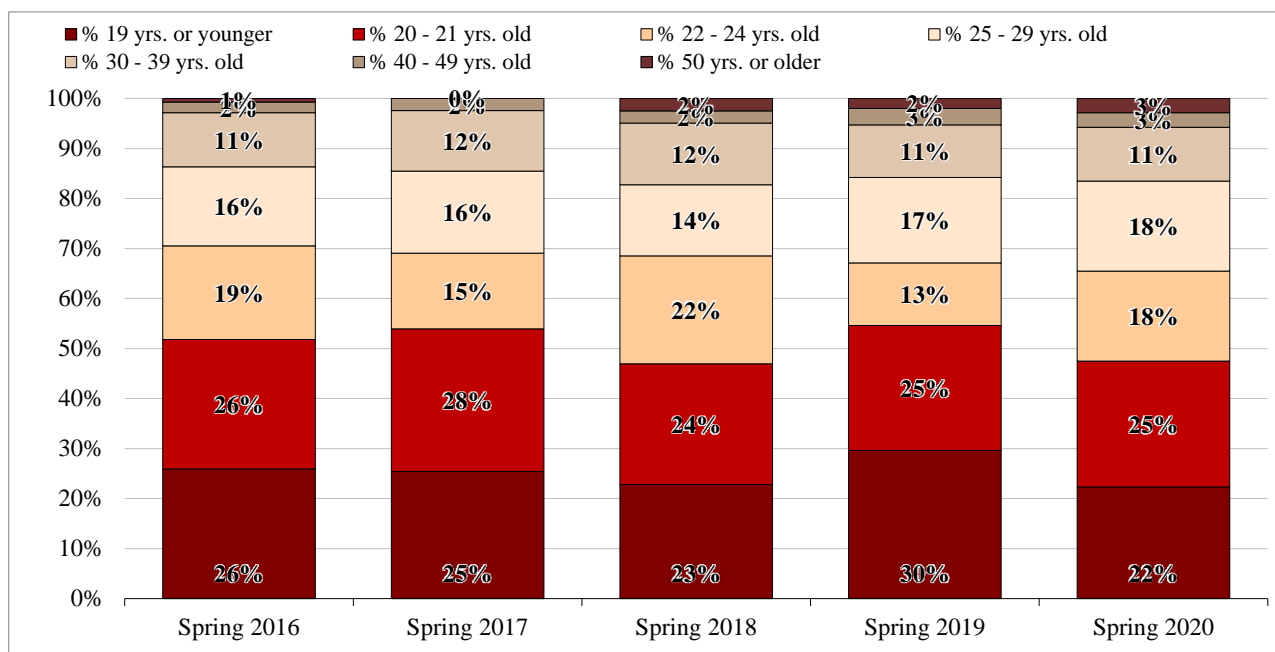
Definitions:

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.

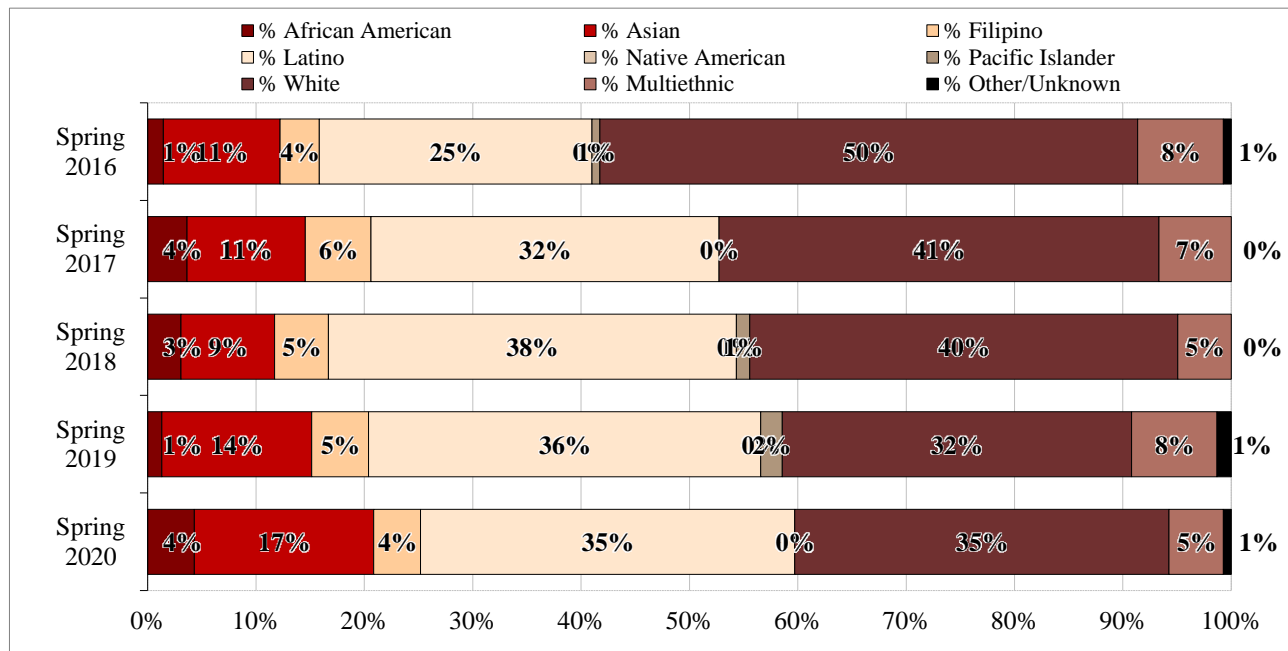
Student Demographics: Gender & Age

| Engineering (ENGR) | | | | | |
|----------------------|-------------|-------------|-------------|-------------|-------------|
| | Term | | | | |
| | Spring 2016 | Spring 2017 | Spring 2018 | Spring 2019 | Spring 2020 |
| Female | 21 | 25 | 25 | 25 | 26 |
| Male | 116 | 140 | 134 | 124 | 109 |
| 19 yrs. or younger | 36 | 42 | 37 | 45 | 31 |
| 20-21 yrs. old | 36 | 47 | 39 | 38 | 35 |
| 22-24 yrs. old | 26 | 25 | 35 | 19 | 25 |
| 25-29 yrs. old | 22 | 27 | 23 | 26 | 25 |
| 30-39 yrs. old | 15 | 20 | 20 | 16 | 15 |
| 40-49 yrs. old | 3 | 4 | 4 | 5 | 4 |
| 50 yrs. or older | 1 | 0 | 4 | 3 | 4 |
| % Female | 15% | 15% | 16% | 17% | 19% |
| % Male | 85% | 85% | 84% | 83% | 81% |
| % 19 yrs. or younger | 26% | 25% | 23% | 30% | 22% |
| % 20 - 21 yrs. old | 26% | 28% | 24% | 25% | 25% |
| % 22 - 24 yrs. old | 19% | 15% | 22% | 13% | 18% |
| % 25 - 29 yrs. old | 16% | 16% | 14% | 17% | 18% |
| % 30 - 39 yrs. old | 11% | 12% | 12% | 11% | 11% |
| % 40 - 49 yrs. old | 2% | 2% | 2% | 3% | 3% |
| % 50 yrs. or older | 1% | 0% | 2% | 2% | 3% |



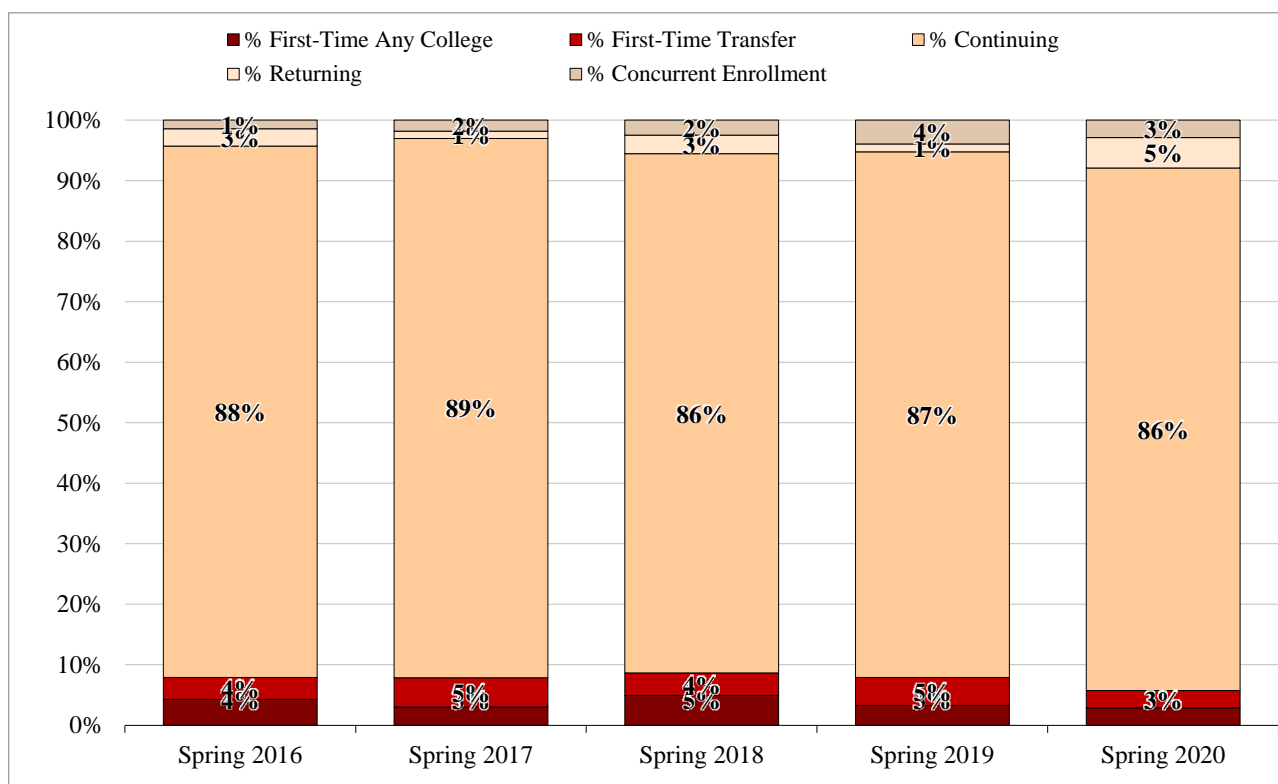
Student Demographic: Race-Ethnicity

| Engineering (ENGR) | | | | | |
|----------------------|-------------|-------------|-------------|-------------|-------------|
| | Term | | | | |
| | Spring 2016 | Spring 2017 | Spring 2018 | Spring 2019 | Spring 2020 |
| African American | 2 | 6 | 5 | 2 | 6 |
| Asian | 15 | 18 | 14 | 21 | 23 |
| Filipino | 5 | 10 | 8 | 8 | 6 |
| Latino | 35 | 53 | 61 | 55 | 48 |
| Native American | 0 | 0 | 0 | 0 | 0 |
| Pacific Islander | 1 | 0 | 2 | 3 | 0 |
| White | 69 | 67 | 64 | 49 | 48 |
| Multiethnic | 11 | 11 | 8 | 12 | 7 |
| Other/Unknown | 1 | 0 | 0 | 2 | 1 |
| % African American | 1% | 4% | 3% | 1% | 4% |
| % Asian | 11% | 11% | 9% | 14% | 17% |
| % Filipino | 4% | 6% | 5% | 5% | 4% |
| % Latino | 25% | 32% | 38% | 36% | 35% |
| % Native American | 0% | 0% | 0% | 0% | 0% |
| % Pacific Islander | 1% | 0% | 1% | 2% | 0% |
| % White | 50% | 41% | 40% | 32% | 35% |
| % Multiethnic | 8% | 7% | 5% | 8% | 5% |
| % Other/Unknown | 1% | 0% | 0% | 1% | 1% |



Student Enrollment Status

| Engineering (ENGR) | | | | | |
|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | Term | | | | |
| | Spring 2016 | Spring 2017 | Spring 2018 | Spring 2019 | Spring 2020 |
| First-Time Any College | 6 | 5 | 8 | 5 | 4 |
| First-Time Transfer | 5 | 8 | 6 | 7 | 4 |
| Continuing | 122 | 147 | 139 | 132 | 120 |
| Returning | 4 | 2 | 5 | 2 | 7 |
| Concurrent Enrollment | 2 | 3 | 4 | 6 | 4 |
| % First-Time Any College | 4% | 3% | 5% | 3% | 3% |
| % First-Time Transfer | 4% | 5% | 4% | 5% | 3% |
| % Continuing | 88% | 89% | 86% | 87% | 86% |
| % Returning | 3% | 1% | 3% | 1% | 5% |
| % Concurrent Enrollment | 1% | 2% | 2% | 4% | 3% |



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.

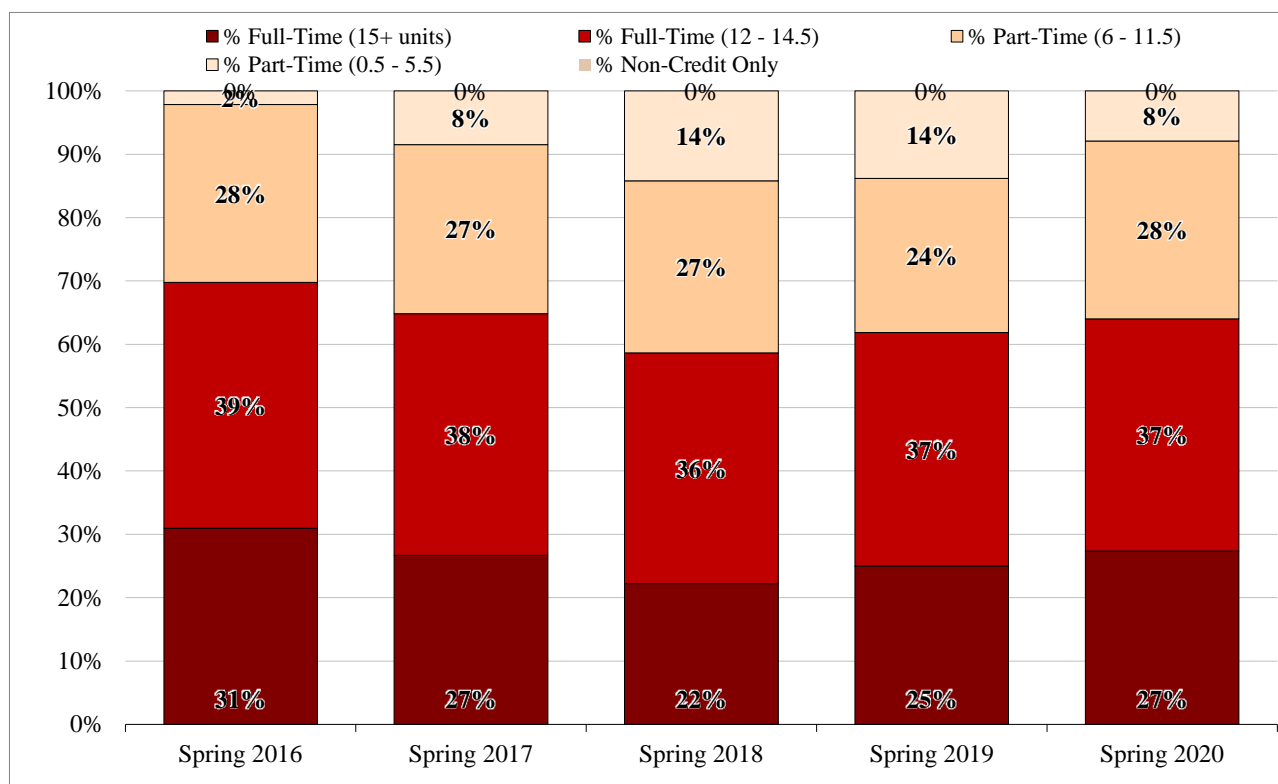
Continuing: Students enrolled in the current semester and were enrolled in the previous primary term. Primary terms are Fall and Spring.

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.

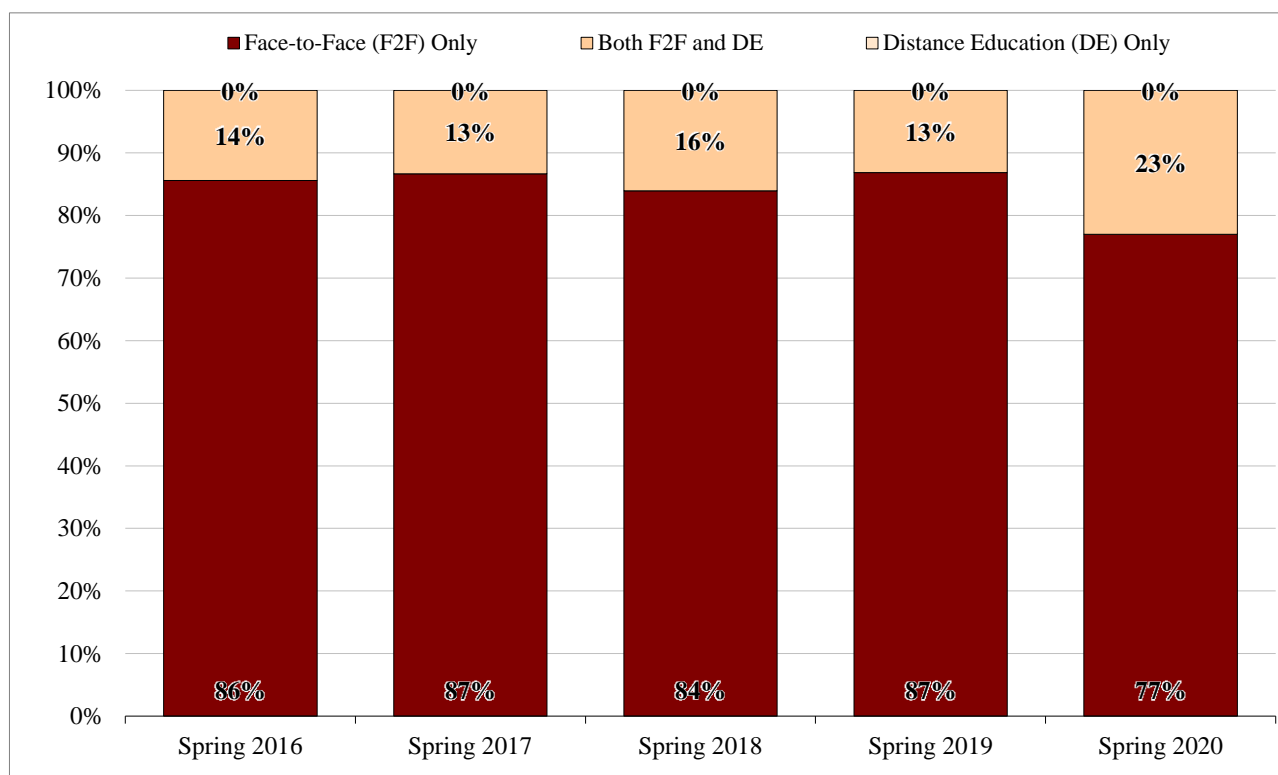
Student Unit Load

| Engineering (ENGR) | | | | | |
|-------------------------|-------------|-------------|-------------|-------------|-------------|
| | Term | | | | |
| | Spring 2016 | Spring 2017 | Spring 2018 | Spring 2019 | Spring 2020 |
| Full-Time (15+ units) | 43 | 44 | 36 | 38 | 38 |
| Full-Time (12 - 14.5) | 54 | 63 | 59 | 56 | 51 |
| Part-Time (6 - 11.5) | 39 | 44 | 44 | 37 | 39 |
| Part-Time (0.5 - 5.5) | 3 | 14 | 23 | 21 | 11 |
| Non-Credit Only | 0 | 0 | 0 | 0 | 0 |
| % Full-Time (15+ units) | 31% | 27% | 22% | 25% | 27% |
| % Full-Time (12 - 14.5) | 39% | 38% | 36% | 37% | 37% |
| % Part-Time (6 - 11.5) | 28% | 27% | 27% | 24% | 28% |
| % Part-Time (0.5 - 5.5) | 2% | 8% | 14% | 14% | 8% |
| % Non-Credit Only | 0% | 0% | 0% | 0% | 0% |



Students Using Distance Education

| Engineering (ENGR) | | | | | |
|---|-------------|-------------|-------------|-------------|-------------|
| <i>(Categories reflect college-wide coursework)</i> | Term | | | | |
| | Spring 2016 | Spring 2017 | Spring 2018 | Spring 2019 | Spring 2020 |
| Face-to-Face (F2F) Only | 119 | 143 | 136 | 132 | 107 |
| Both F2F and DE | 20 | 22 | 26 | 20 | 32 |
| Distance Education (DE) Only | 0 | 0 | 0 | 0 | 0 |
| % Face-to-Face (F2F) Only | 86% | 87% | 84% | 87% | 77% |
| % Both F2F and DE | 14% | 13% | 16% | 13% | 23% |
| % Distance Education (DE) Only | 0% | 0% | 0% | 0% | 0% |

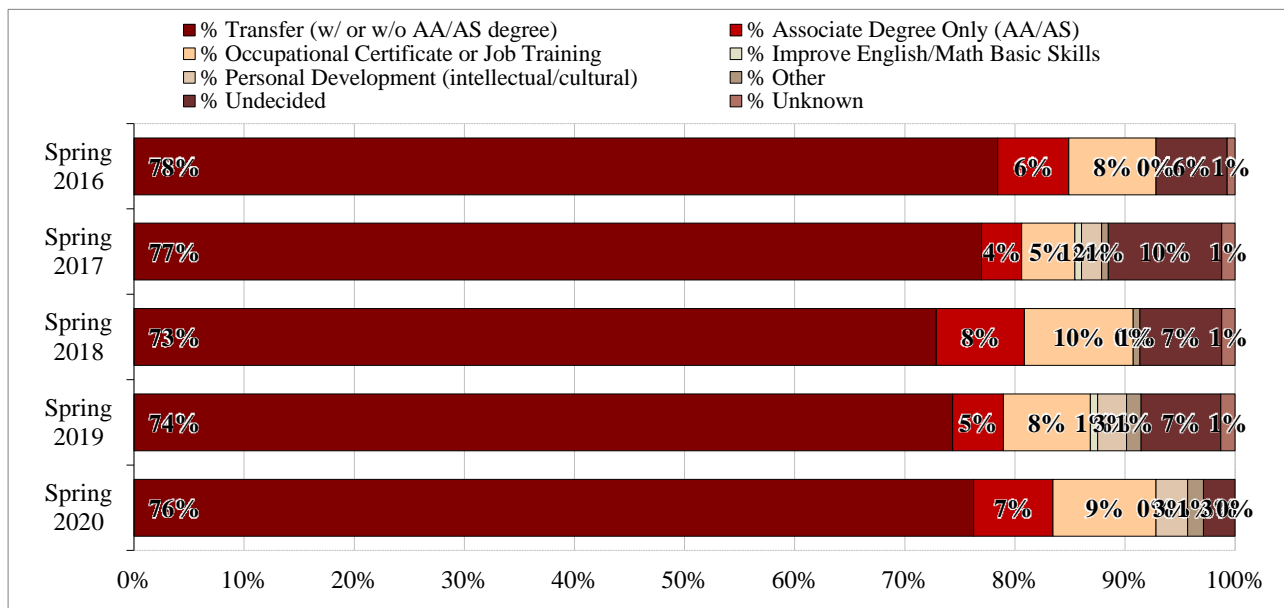


Definitions:

Distance Education (DE) includes enrollments in course sections that begin with 'DE', 'HD', 'LD' and 'LO'.

Student Educational Goal

| Engineering (ENGR) | | | | | |
|--|-------------|-------------|-------------|-------------|-------------|
| | Term | | | | |
| | Spring 2016 | Spring 2017 | Spring 2018 | Spring 2019 | Spring 2020 |
| Transfer (w/ or w/o AA/AS degree) | 109 | 127 | 118 | 113 | 106 |
| Associate Degree Only (AA/AS) | 9 | 6 | 13 | 7 | 10 |
| Occupational Certificate or Job Training | 11 | 8 | 16 | 12 | 13 |
| Improve English/Math Basic Skills | 0 | 1 | 0 | 1 | 0 |
| Personal Development (intellectual/cultural) | 0 | 3 | 0 | 4 | 4 |
| Other | 0 | 1 | 1 | 2 | 2 |
| Undecided | 9 | 17 | 12 | 11 | 4 |
| Unknown | 1 | 2 | 2 | 2 | 0 |
| % Transfer (w/ or w/o AA/AS degree) | 78% | 77% | 73% | 74% | 76% |
| % Associate Degree Only (AA/AS) | 6% | 4% | 8% | 5% | 7% |
| % Occupational Certificate or Job Training | 8% | 5% | 10% | 8% | 9% |
| % Improve English/Math Basic Skills | 0% | 1% | 0% | 1% | 0% |
| % Personal Development (intellectual/cultural) | 0% | 2% | 0% | 3% | 3% |
| % Other | 0% | 1% | 1% | 1% | 1% |
| % Undecided | 6% | 10% | 7% | 7% | 3% |
| % Unknown | 1% | 1% | 1% | 1% | 0% |



Definitions:

Transfer: Students who want to transfer to a 4-year university. Includes students enrolled in 4-year institutions completing requirements at LPC.

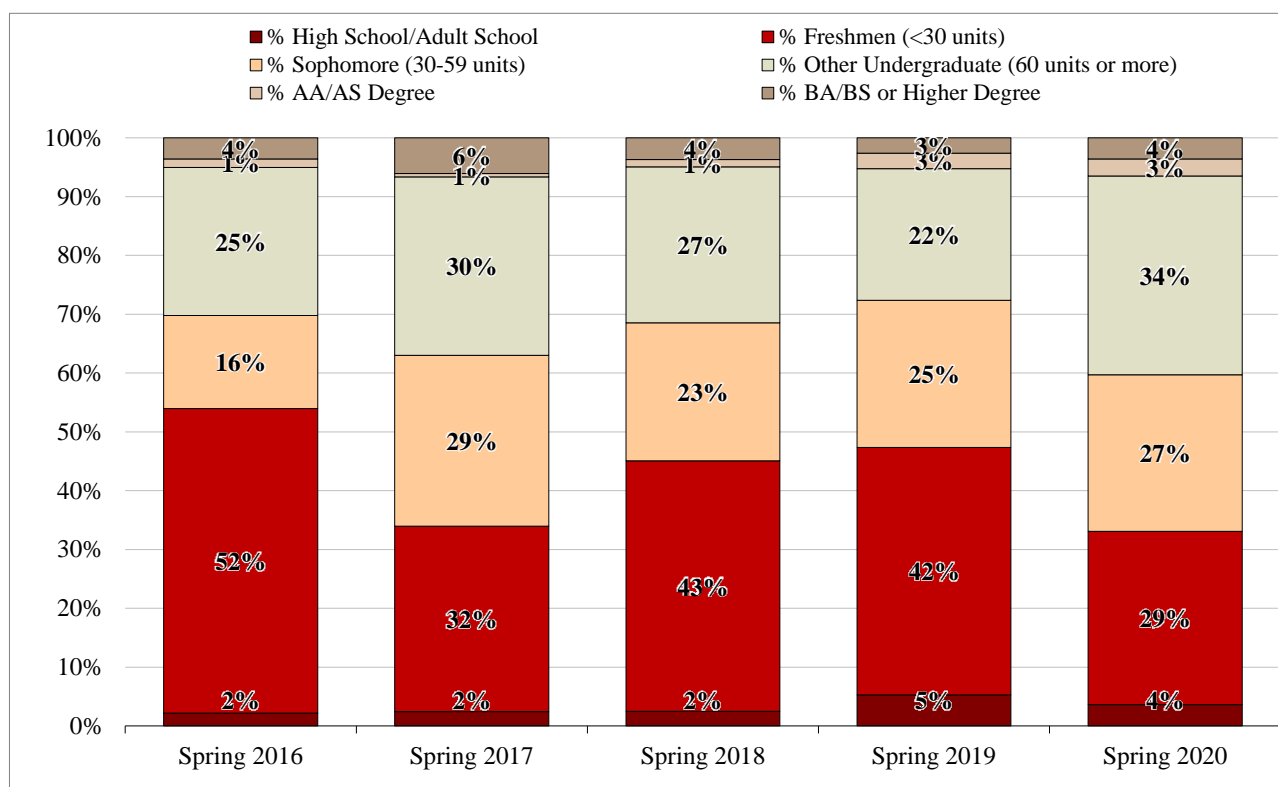
Occupational Certificate/Job Training: Acquire job skills, explore career interests, earn a certificate, or maintain a certificate/license.

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.

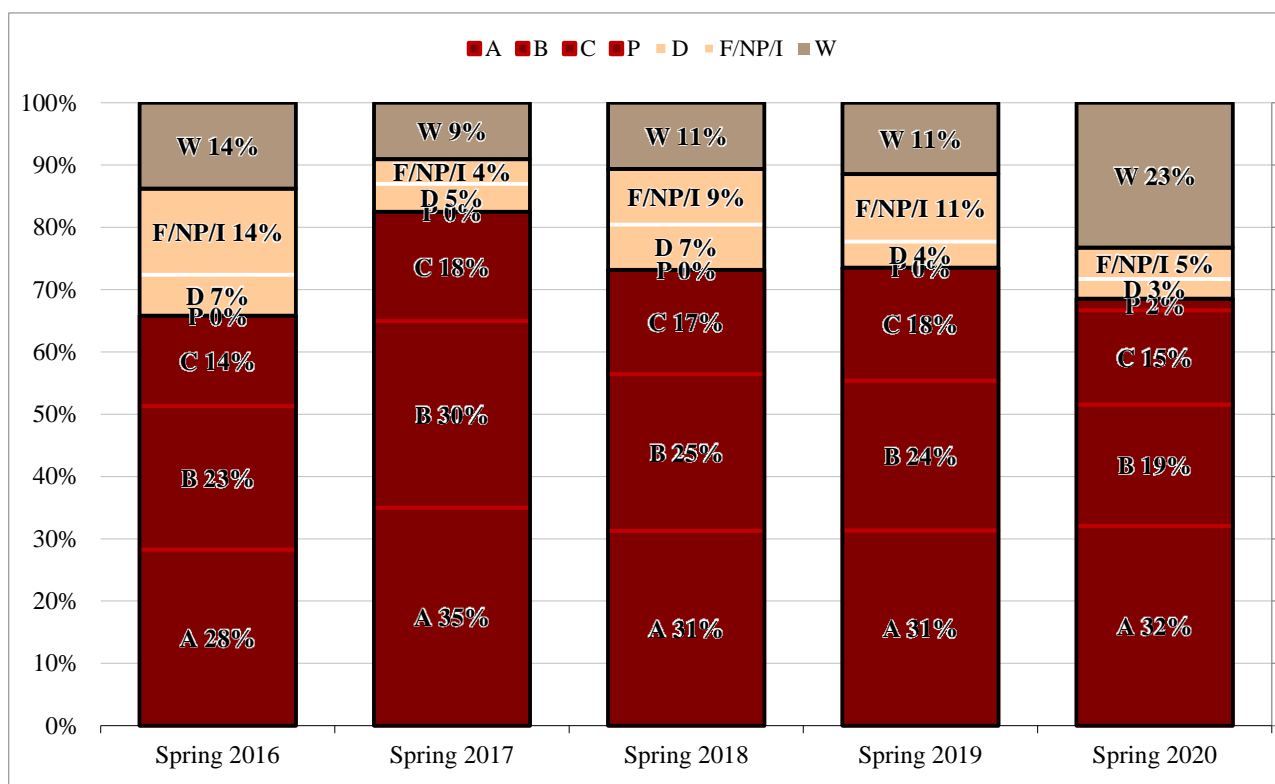
Highest Educational Level of Students

| Engineering (ENGR) | | | | | |
|--|-------------|-------------|-------------|-------------|-------------|
| | Term | | | | |
| | Spring 2016 | Spring 2017 | Spring 2018 | Spring 2019 | Spring 2020 |
| High School/Adult School | 3 | 4 | 4 | 8 | 5 |
| Freshmen (<30 units) | 72 | 52 | 69 | 64 | 41 |
| Sophomore (30-59 units) | 22 | 48 | 38 | 38 | 37 |
| Other Undergraduate (60 units or more) | 35 | 50 | 43 | 34 | 47 |
| AA/AS Degree | 2 | 1 | 2 | 4 | 4 |
| BA/BS or Higher Degree | 5 | 10 | 6 | 4 | 5 |
| % High School/Adult School | 2% | 2% | 2% | 5% | 4% |
| % Freshmen (<30 units) | 52% | 32% | 43% | 42% | 29% |
| % Sophomore (30-59 units) | 16% | 29% | 23% | 25% | 27% |
| % Other Undergraduate (60 units or more) | 25% | 30% | 27% | 22% | 34% |
| % AA/AS Degree | 1% | 1% | 1% | 3% | 3% |
| % BA/BS or Higher Degree | 4% | 6% | 4% | 3% | 4% |



Student Performance: Grade Distribution

| Engineering (ENGR) | | | | | |
|---------------------------------|-------------|-------------|-------------|-------------|-------------|
| | Term | | | | |
| | Spring 2016 | Spring 2017 | Spring 2018 | Spring 2019 | Spring 2020 |
| Total Course Enrollments | 152 | 177 | 179 | 166 | 159 |
| Course Success Rates | 66% | 82% | 73% | 73% | 69% |
| A | 28% | 35% | 31% | 31% | 32% |
| B | 23% | 30% | 25% | 24% | 19% |
| C | 14% | 18% | 17% | 18% | 15% |
| P | 0% | 0% | 0% | 0% | 2% |
| Course Non-Success Rate | 20% | 8% | 16% | 15% | 8% |
| D | 7% | 5% | 7% | 4% | 3% |
| F/NP/I | 14% | 4% | 9% | 11% | 5% |
| Withdrawals (W) | 14% | 9% | 11% | 11% | 23% |



Definitions:

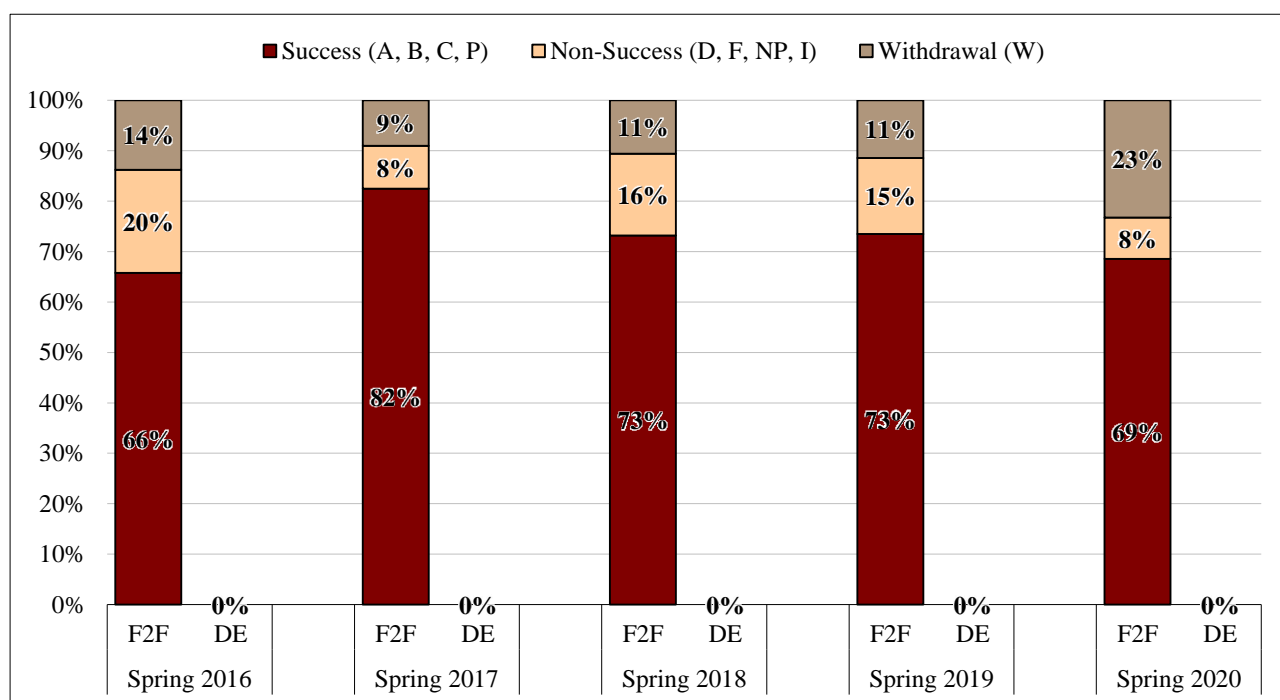
Course Success Rate is the percentage of students receiving a passing grade ('A', 'B', 'C', or 'P') relative to all students receiving a grade.

Course Non-Success Rate is the percentage of students receiving a grade of ('D', 'F', 'NP' or 'I') relative to all students receiving a grade.

Withdrawals is the percentage of students receiving a grade notation of 'W' relative to all students receiving a grade.

Student Performance: Distance Education

| Engineering (ENGR) | | | | | |
|---|-------------|-------------|-------------|-------------|-------------|
| | Term | | | | |
| | Spring 2016 | Spring 2017 | Spring 2018 | Spring 2019 | Spring 2020 |
| Total Course Enrollments | 152 | 177 | 179 | 166 | 159 |
| Face-to-Face (F2F) Sections | 540 | 572 | 611 | 597 | 585 |
| Success Rates | 66% | 82% | 73% | 73% | 69% |
| Non-Success Rates | 20% | 8% | 16% | 15% | 8% |
| Withdrawals | 14% | 9% | 11% | 11% | 23% |
| Distance Education (DE) Sections | — | — | — | — | — |
| Success Rates | — | — | — | — | — |
| Non-Success Rates | — | — | — | — | — |
| Withdrawals | — | — | — | — | — |



Definitions:

Course Success Rate is the percentage of students receiving a passing grade ('A', 'B', 'C', or 'P') relative to all students receiving a grade.

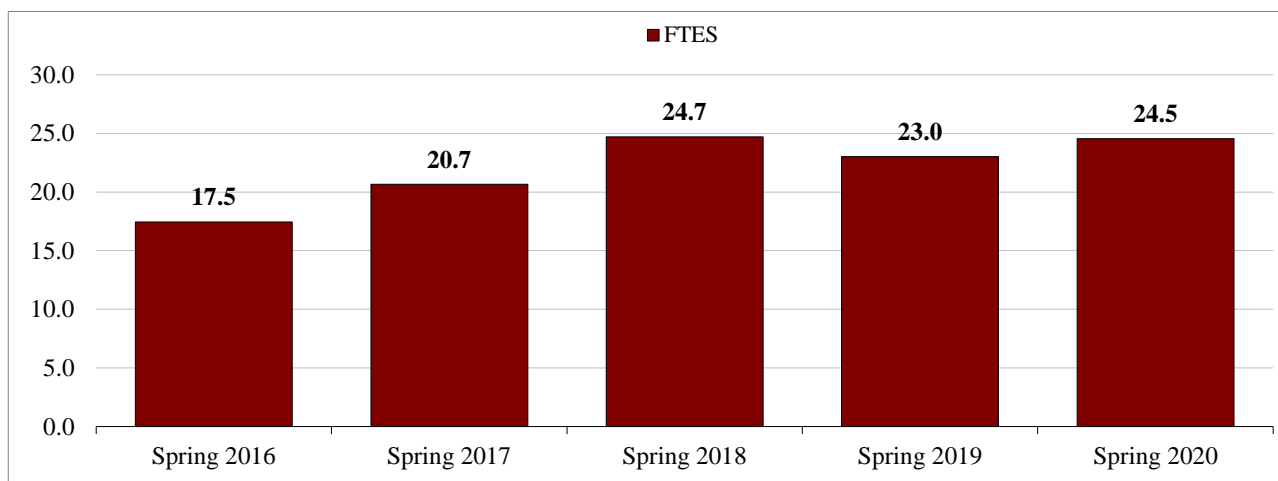
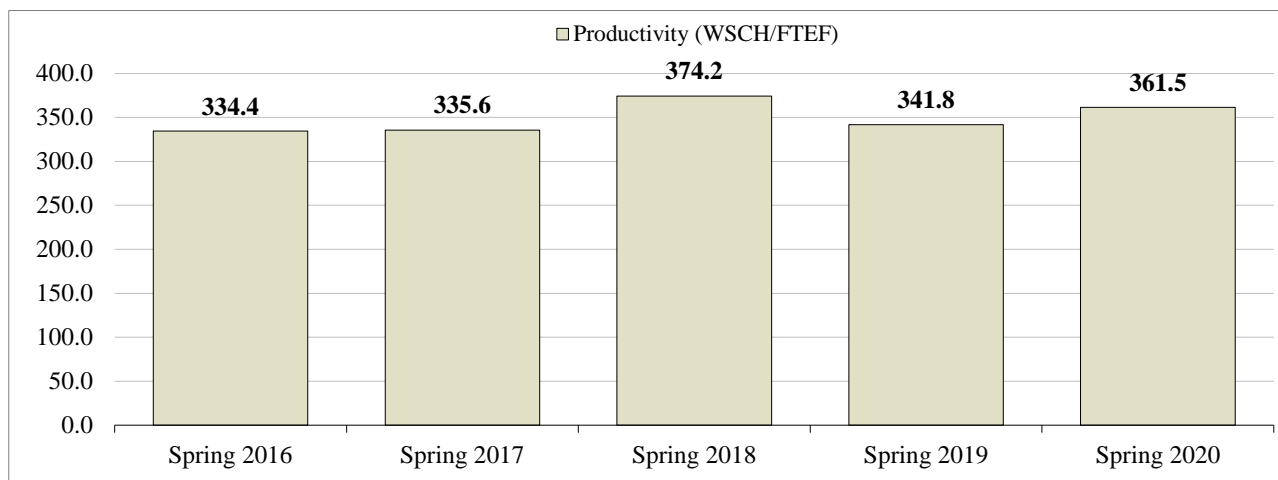
Course Non-Success Rate is the percentage of students receiving a grade of ('D', 'F', 'NP' or 'T') relative to all students receiving a grade.

Withdrawals is the percentage of students receiving a grade notation of 'W' relative to all students receiving a grade.

Distance Education (DE) includes enrollments in course sections that begin with 'DE', 'HD', 'LD' and 'LO'.

Enrollment Management: Part 1

| | Engineering (ENGR) | | | | |
|--------------------------|----------------------|-------------|-------------|-------------|-------------|
| | Term | | | | |
| | Spring 2016 | Spring 2017 | Spring 2018 | Spring 2019 | Spring 2020 |
| WSCH | 540 | 637 | 760 | 717 | 758 |
| FTEF | 17.5 | 20.7 | 24.7 | 23.0 | 24.5 |
| FTEF | 1.6 | 1.9 | 2.0 | 2.1 | 2.1 |
| Productivity (WSCH/FTEF) | 334.4 | 335.6 | 374.2 | 341.8 | 361.5 |



Definitions:

WSCH is the total Weekly Student Contact Hours resulting from all enrollment within the discipline.

FTEF is the total Full Time Equivalent Student value resulting from all enrollment within the discipline.

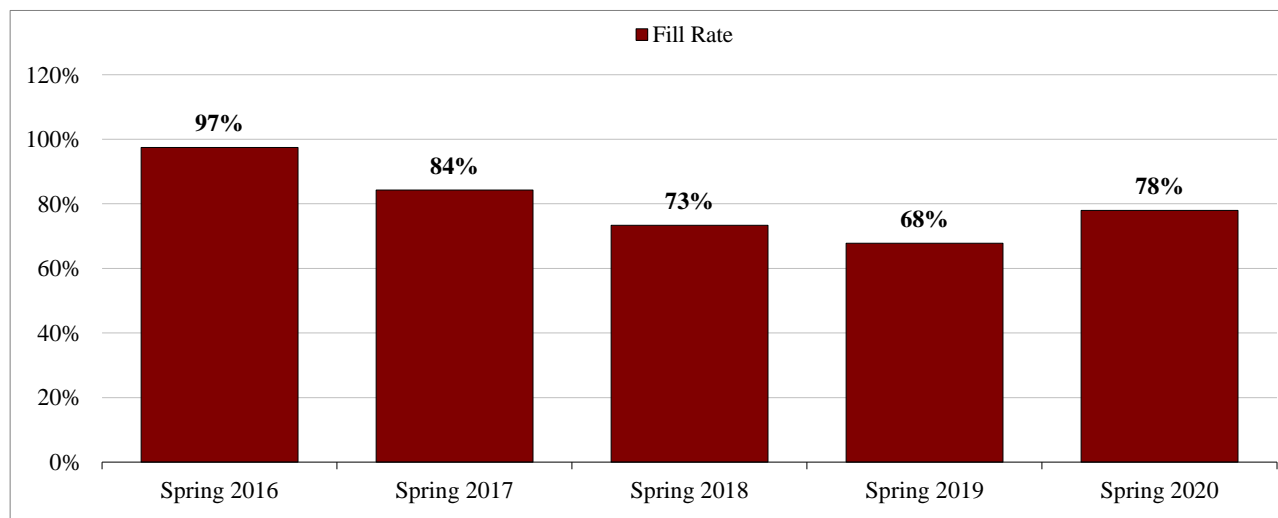
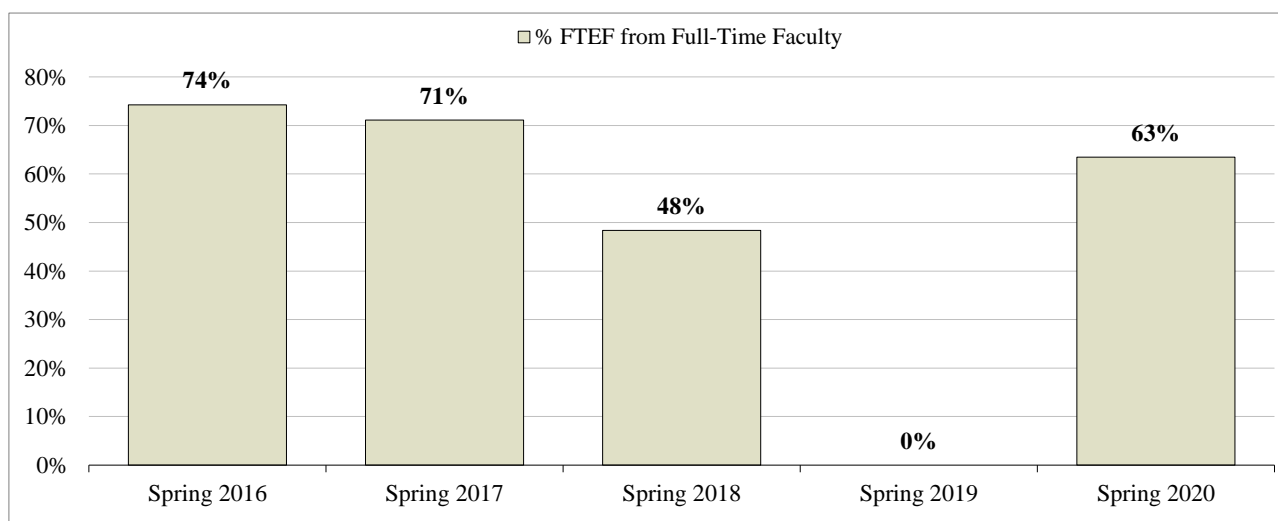
FTEF is the Full Time Equivalent Faculty associated with the discipline's course offerings for that semester.

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 7/14/20.

Enrollment Management: Part 2

| Engineering (ENGR) | | | | | |
|-------------------------------|-------------|-------------|-------------|-------------|-------------|
| | Term | | | | |
| | Spring 2016 | Spring 2017 | Spring 2018 | Spring 2019 | Spring 2020 |
| FTEF from Full-Time Faculty | 1.2 | 1.3 | 1.0 | 0.0 | 1.3 |
| % FTEF from Full-Time Faculty | 74% | 71% | 48% | 0% | 63% |
| Enrollments | 152 | 177 | 179 | 166 | 159 |
| Capacity (seats available) | 156 | 210 | 244 | 245 | 204 |
| Fill Rate | 97% | 84% | 73% | 68% | 78% |



Definitions:

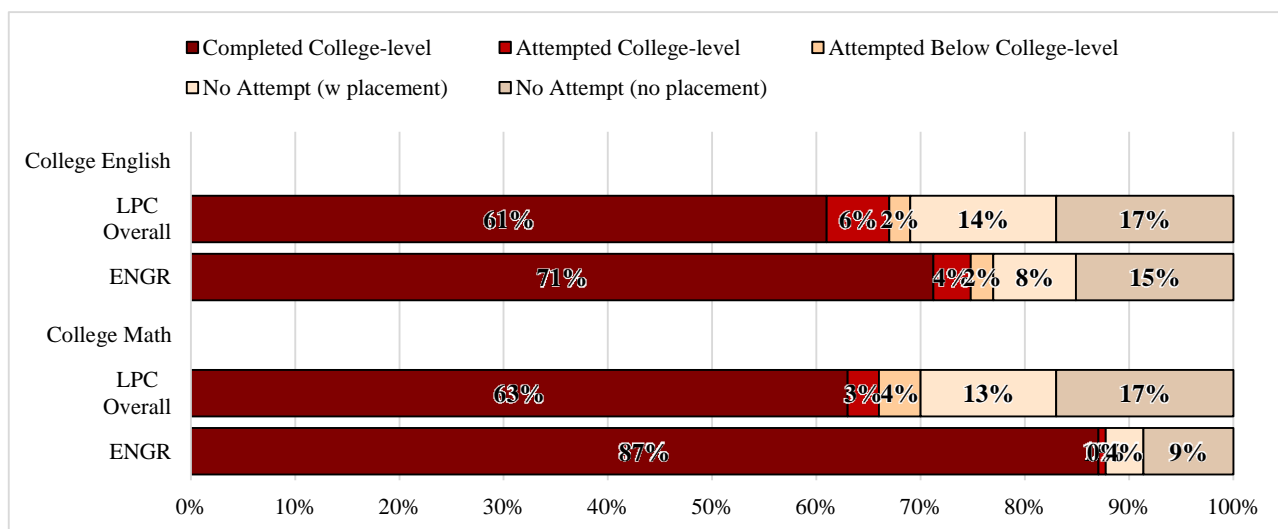
Fill Rate is number of enrollments over the total capacity (seats available).

% 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.

College Readiness: English & Math Proficiency

| Spring 2020 | | | | |
|-------------------------------|------|-----|-------------|-----|
| | ENGR | | LPC Overall | |
| | Num | Pct | Num | Pct |
| College English | | | | |
| Completed College-level | 99 | 71% | 5,254 | 61% |
| Attempted College-level | 5 | 4% | 502 | 6% |
| Attempted Below College-level | 3 | 2% | 179 | 2% |
| No Attempt (with placement) | 11 | 8% | 1,175 | 14% |
| No Attempt (no placement) | 21 | 15% | 1,480 | 17% |
| College Math | | | | |
| Completed College-level | 121 | 87% | 5,383 | 63% |
| Attempted College-level | 1 | 1% | 274 | 3% |
| Attempted Below College-level | 0 | 0% | 366 | 4% |
| No Attempt (with placement) | 5 | 4% | 1,134 | 13% |
| No Attempt (no placement) | 12 | 9% | 1,433 | 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 Attempt (w placement) = no previous English enrollments within the sequence but has used a placement tool.

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

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