



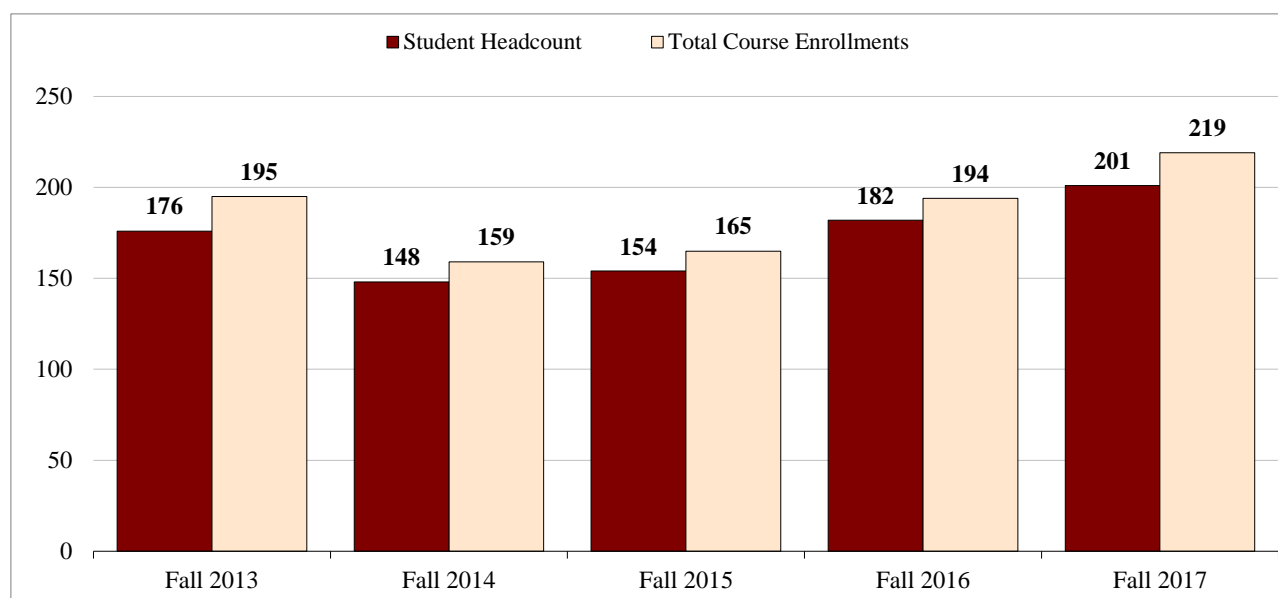
Las Positas College
Program Review Discipline Data Packet
Fall 2013 to Fall 2017

Discipline:
Astronomy (ASTR)

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Headcount & Enrollment

| | Astronomy (ASTR) | | | | |
|--------------------------|--------------------|-----------|-----------|-----------|-----------|
| | Term | | | | |
| | Fall 2013 | Fall 2014 | Fall 2015 | Fall 2016 | Fall 2017 |
| Student Headcount | 176 | 148 | 154 | 182 | 201 |
| Total Course Enrollments | 195 | 159 | 165 | 194 | 219 |



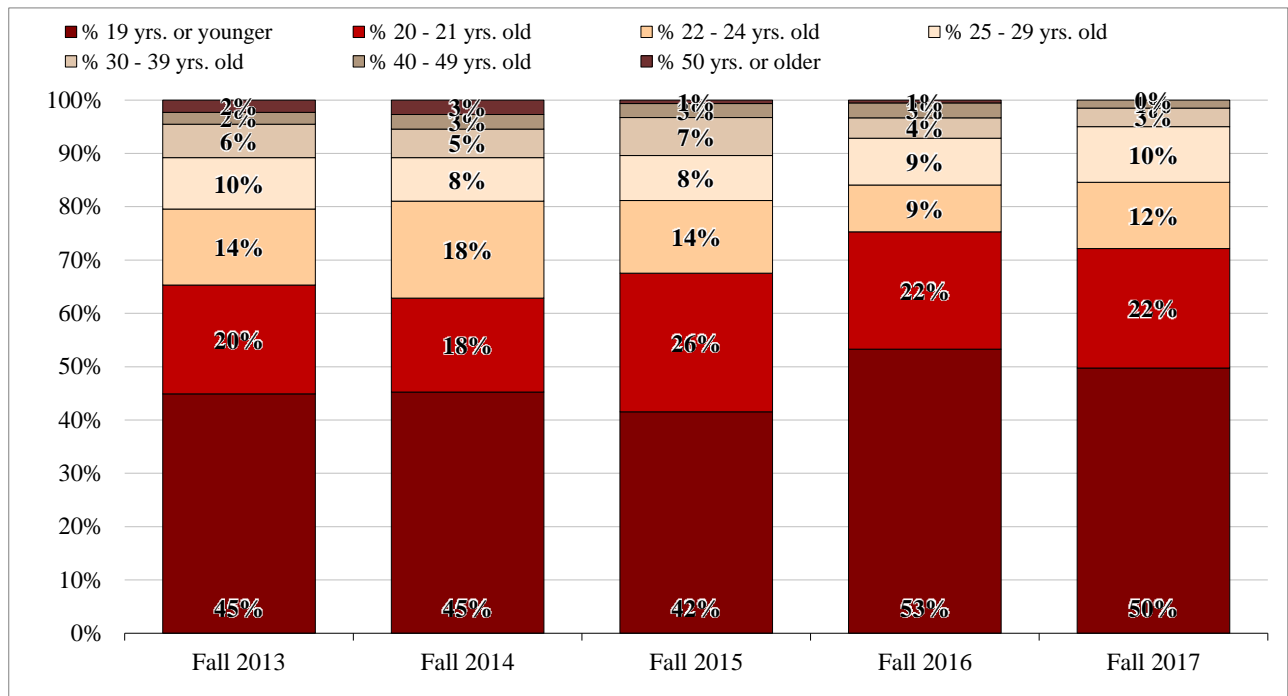
Definitions:

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.

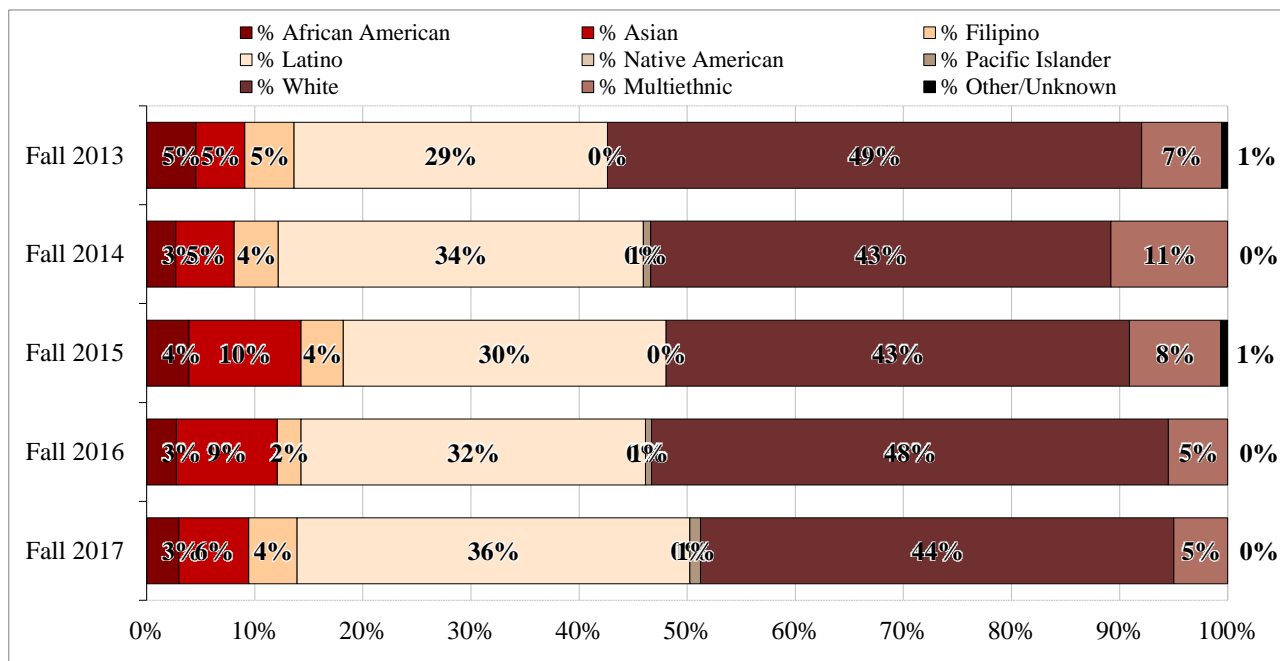
Student Demographics: Gender & Age

| Astronomy (ASTR) | | | | | |
|----------------------|-----------|-----------|-----------|-----------|-----------|
| | Term | | | | |
| | Fall 2013 | Fall 2014 | Fall 2015 | Fall 2016 | Fall 2017 |
| Female | 83 | 74 | 67 | 67 | 98 |
| Male | 91 | 71 | 84 | 112 | 99 |
| 19 yrs. or younger | 79 | 67 | 64 | 97 | 100 |
| 20-21 yrs. old | 36 | 26 | 40 | 40 | 45 |
| 22-24 yrs. old | 25 | 27 | 21 | 16 | 25 |
| 25-29 yrs. old | 17 | 12 | 13 | 16 | 21 |
| 30-39 yrs. old | 11 | 8 | 11 | 7 | 7 |
| 40-49 yrs. old | 4 | 4 | 4 | 5 | 3 |
| 50 yrs. or older | 4 | 4 | 1 | 1 | 0 |
| % Female | 48% | 51% | 44% | 37% | 50% |
| % Male | 52% | 49% | 56% | 63% | 50% |
| % 19 yrs. or younger | 45% | 45% | 42% | 53% | 50% |
| % 20 - 21 yrs. old | 20% | 18% | 26% | 22% | 22% |
| % 22 - 24 yrs. old | 14% | 18% | 14% | 9% | 12% |
| % 25 - 29 yrs. old | 10% | 8% | 8% | 9% | 10% |
| % 30 - 39 yrs. old | 6% | 5% | 7% | 4% | 3% |
| % 40 - 49 yrs. old | 2% | 3% | 3% | 3% | 1% |
| % 50 yrs. or older | 2% | 3% | 1% | 1% | 0% |



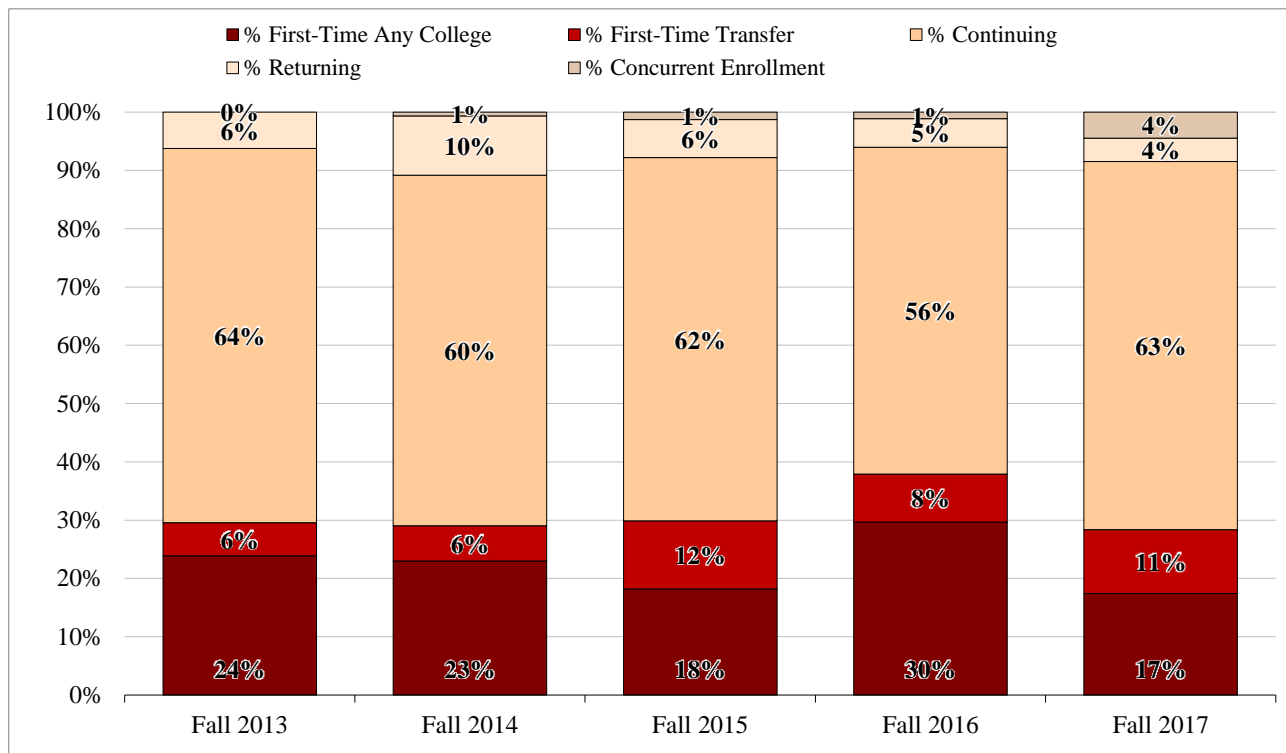
Student Demographic: Race-Ethnicity

| Astronomy (ASTR) | | | | | |
|--------------------|-----------|-----------|-----------|-----------|-----------|
| | Term | | | | |
| | Fall 2013 | Fall 2014 | Fall 2015 | Fall 2016 | Fall 2017 |
| African American | 8 | 4 | 6 | 5 | 6 |
| Asian | 8 | 8 | 16 | 17 | 13 |
| Filipino | 8 | 6 | 6 | 4 | 9 |
| Latino | 51 | 50 | 46 | 58 | 73 |
| Native American | 0 | 0 | 0 | 0 | 0 |
| Pacific Islander | 0 | 1 | 0 | 1 | 2 |
| White | 87 | 63 | 66 | 87 | 88 |
| Multiethnic | 13 | 16 | 13 | 10 | 10 |
| Other/Unknown | 1 | 0 | 1 | 0 | 0 |
| % African American | 5% | 3% | 4% | 3% | 3% |
| % Asian | 5% | 5% | 10% | 9% | 6% |
| % Filipino | 5% | 4% | 4% | 2% | 4% |
| % Latino | 29% | 34% | 30% | 32% | 36% |
| % Native American | 0% | 0% | 0% | 0% | 0% |
| % Pacific Islander | 0% | 1% | 0% | 1% | 1% |
| % White | 49% | 43% | 43% | 48% | 44% |
| % Multiethnic | 7% | 11% | 8% | 5% | 5% |
| % Other/Unknown | 1% | 0% | 1% | 0% | 0% |



Student Enrollment Status

| Astronomy (ASTR) | | | | | |
|--------------------------|-----------|-----------|-----------|-----------|-----------|
| | Term | | | | |
| | Fall 2013 | Fall 2014 | Fall 2015 | Fall 2016 | Fall 2017 |
| First-Time Any College | 42 | 34 | 28 | 54 | 35 |
| First-Time Transfer | 10 | 9 | 18 | 15 | 22 |
| Continuing | 113 | 89 | 96 | 102 | 127 |
| Returning | 11 | 15 | 10 | 9 | 8 |
| Concurrent Enrollment | 0 | 1 | 2 | 2 | 9 |
| % First-Time Any College | 24% | 23% | 18% | 30% | 17% |
| % First-Time Transfer | 6% | 6% | 12% | 8% | 11% |
| % Continuing | 64% | 60% | 62% | 56% | 63% |
| % Returning | 6% | 10% | 6% | 5% | 4% |
| % Concurrent Enrollment | 0% | 1% | 1% | 1% | 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.

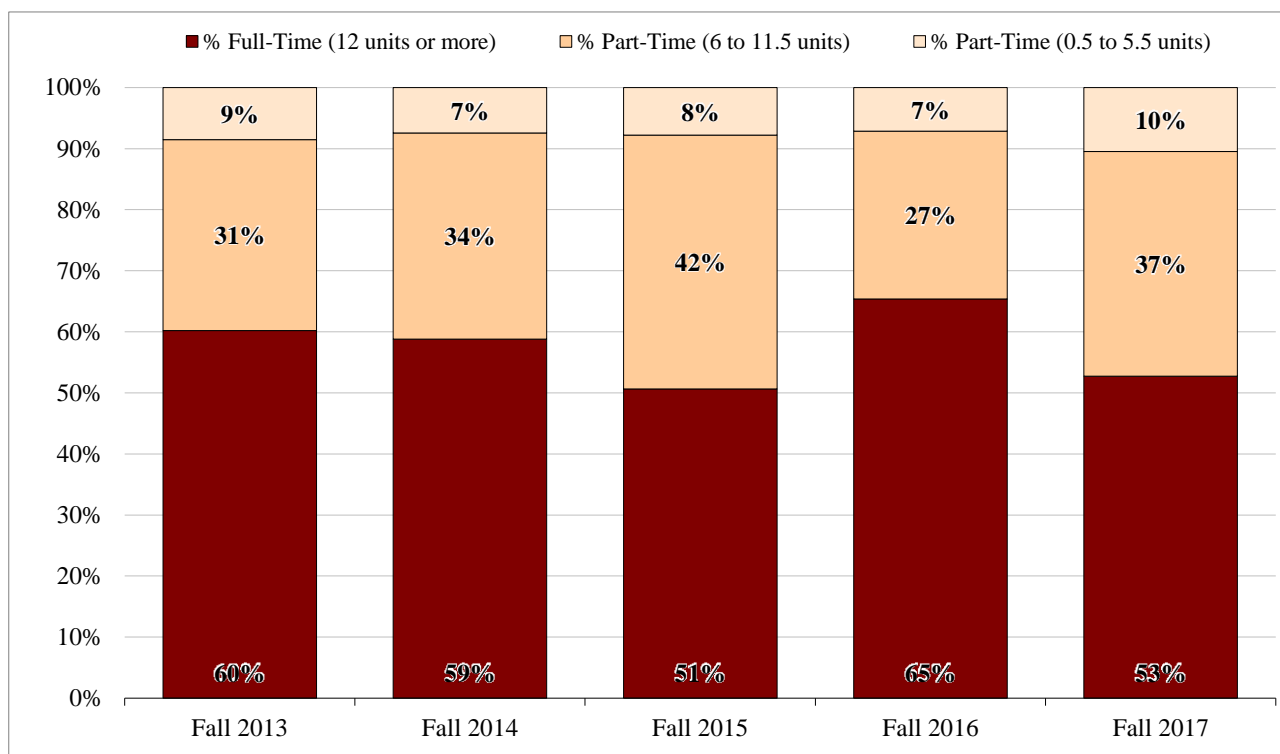
Continuing: Students enrolled in the current semester and were enrolled in the previous primary term. Primary terms are Fall and Spring.

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.

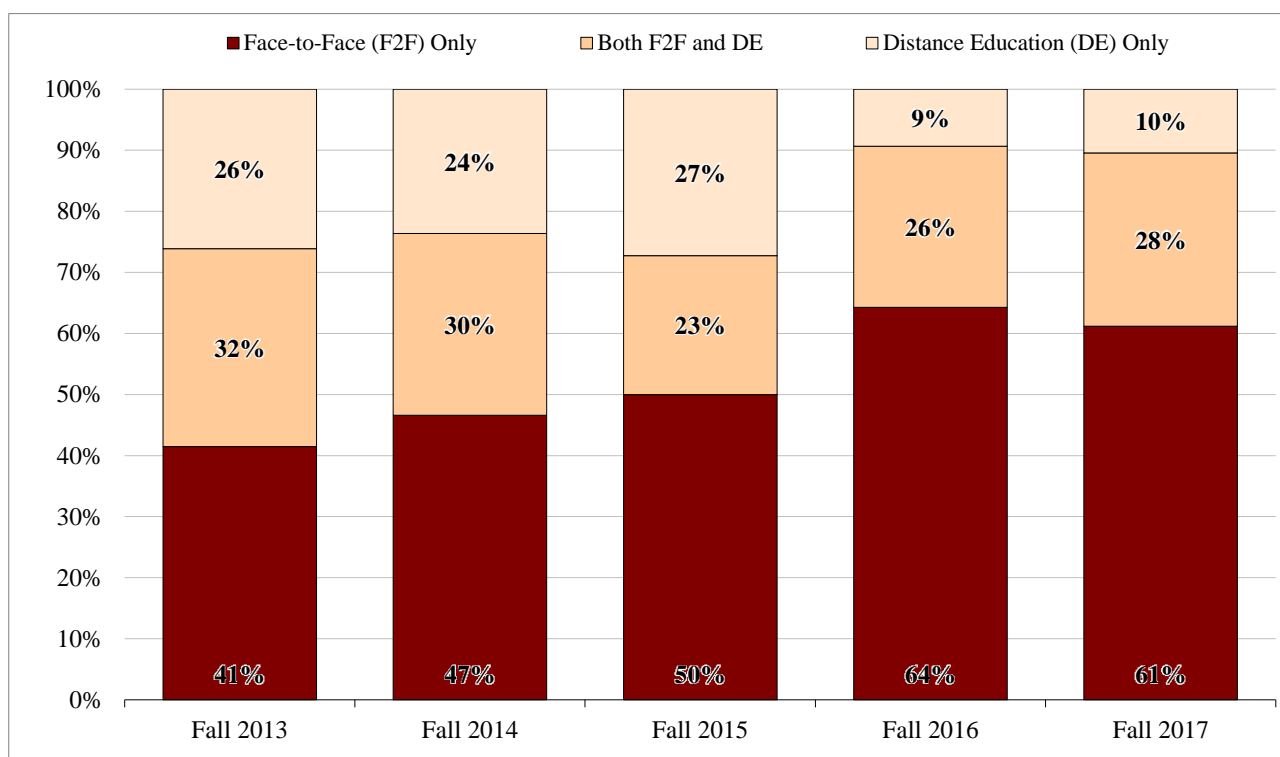
Student Unit Load

| Astronomy (ASTR) | | | | | |
|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| | Term | | | | |
| | Fall 2013 | Fall 2014 | Fall 2015 | Fall 2016 | Fall 2017 |
| Full-Time (12 units or more) | 106 | 87 | 78 | 119 | 106 |
| Part-Time (6 to 11.5 units) | 55 | 50 | 64 | 50 | 74 |
| Part-Time (0.5 to 5.5 units) | 15 | 11 | 12 | 13 | 21 |
| % Full-Time (12 units or more) | 60% | 59% | 51% | 65% | 53% |
| % Part-Time (6 to 11.5 units) | 31% | 34% | 42% | 27% | 37% |
| % Part-Time (0.5 to 5.5 units) | 9% | 7% | 8% | 7% | 10% |



Students Using Distance Education

| Astronomy (ASTR) | | | | | |
|-----------------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| <i>(Categories reflect college-wide coursework)</i> | Term | | | | |
| | Fall 2013 | Fall 2014 | Fall 2015 | Fall 2016 | Fall 2017 |
| Face-to-Face (F2F) Only | 73 | 69 | 77 | 117 | 123 |
| Both F2F and DE | 57 | 44 | 35 | 48 | 57 |
| Distance Education (DE) Only | 46 | 35 | 42 | 17 | 21 |
| % Face-to-Face (F2F) Only | 41% | 47% | 50% | 64% | 61% |
| % Both F2F and DE | 32% | 30% | 23% | 26% | 28% |
| % Distance Education (DE) Only | 26% | 24% | 27% | 9% | 10% |

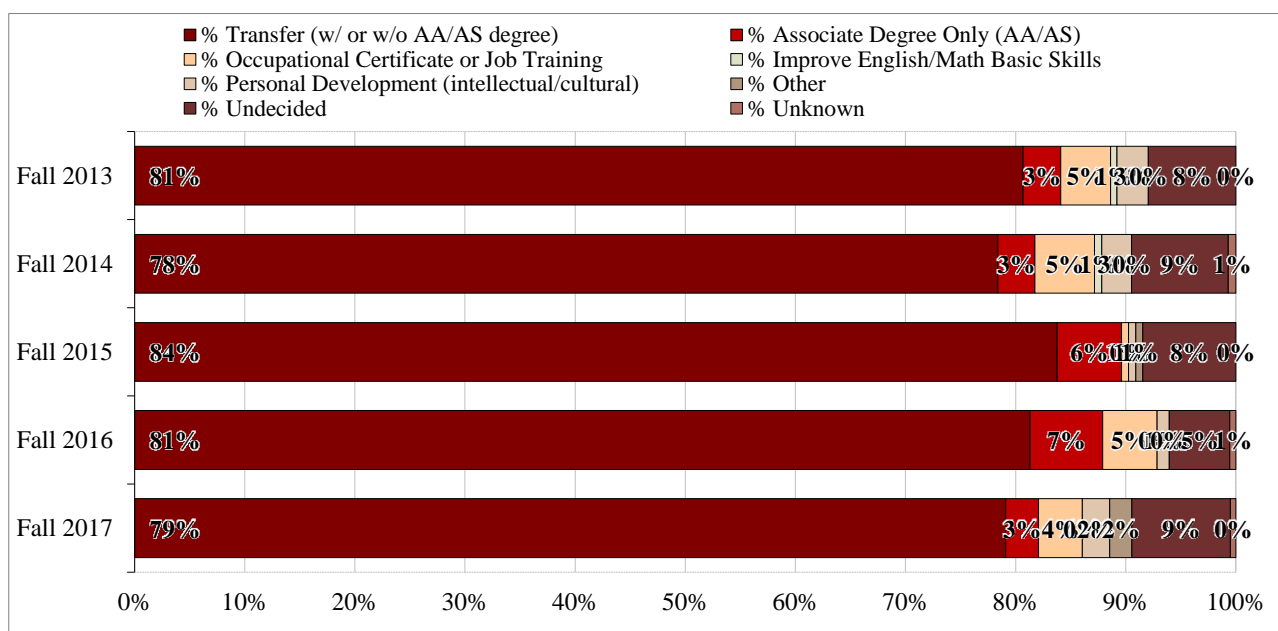


Definitions:

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

Student Educational Goal

| Astronomy (ASTR) | | | | | |
|------------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| | Term | | | | |
| | Fall 2013 | Fall 2014 | Fall 2015 | Fall 2016 | Fall 2017 |
| Transfer (w/ or w/o AA/AS degree) | 142 | 116 | 129 | 148 | 159 |
| Associate Degree Only (AA/AS) | 6 | 5 | 9 | 12 | 6 |
| Occupational Certificate or Job Training | 8 | 8 | 1 | 9 | 8 |
| Improve English/Math Basic Skills | 1 | 1 | 0 | 0 | 0 |
| Personal Development (intellectual/cultural) | 5 | 4 | 1 | 2 | 5 |
| Other | 0 | 0 | 1 | 0 | 4 |
| Undecided | 14 | 13 | 13 | 10 | 18 |
| Unknown | 0 | 1 | 0 | 1 | 1 |
| % Transfer (w/ or w/o AA/AS degree) | 81% | 78% | 84% | 81% | 79% |
| % Associate Degree Only (AA/AS) | 3% | 3% | 6% | 7% | 3% |
| % Occupational Certificate or Job Training | 5% | 5% | 1% | 5% | 4% |
| % Improve English/Math Basic Skills | 1% | 1% | 0% | 0% | 0% |
| % Personal Development (intellectual/cultural) | 3% | 3% | 1% | 1% | 2% |
| % Other | 0% | 0% | 1% | 0% | 2% |
| % Undecided | 8% | 9% | 8% | 5% | 9% |
| % Unknown | 0% | 1% | 0% | 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.

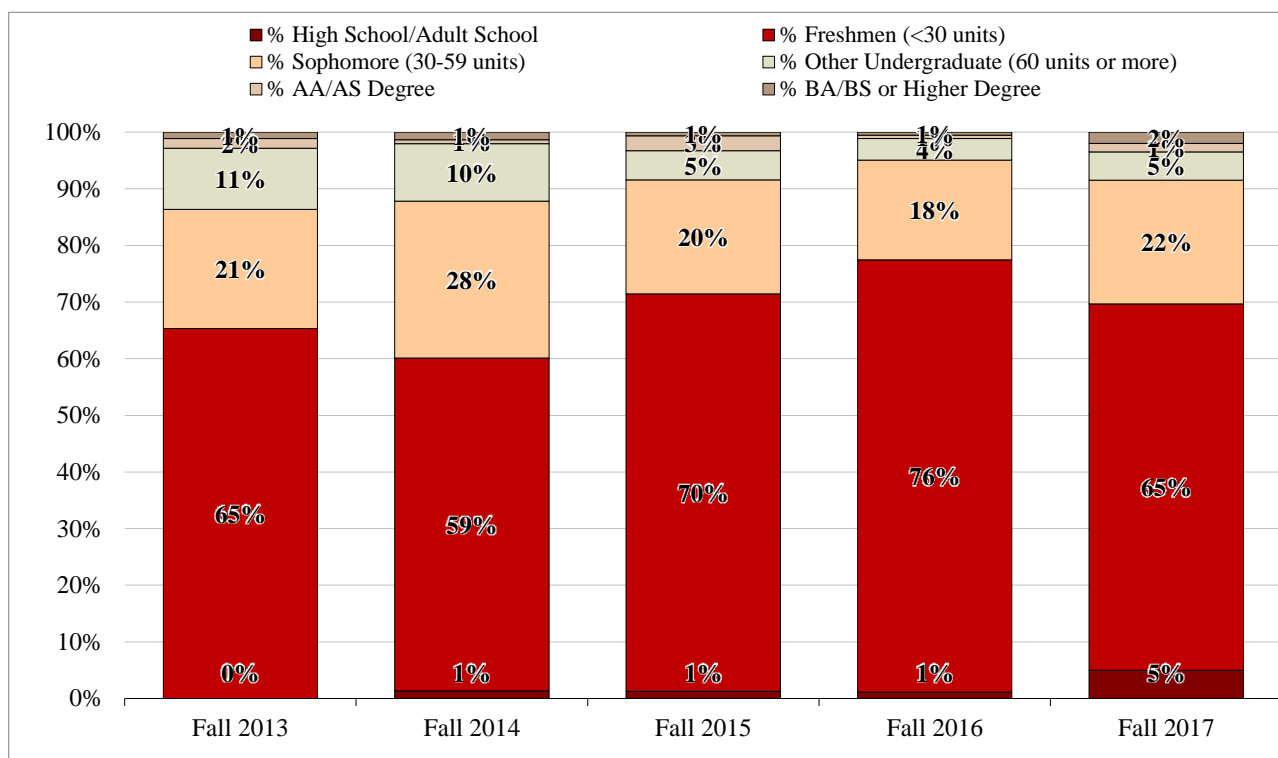
Occupational Certificate/Job Training: Acquire job skills, explore career interests, earn a certificate, or maintain a certificate/license.

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.

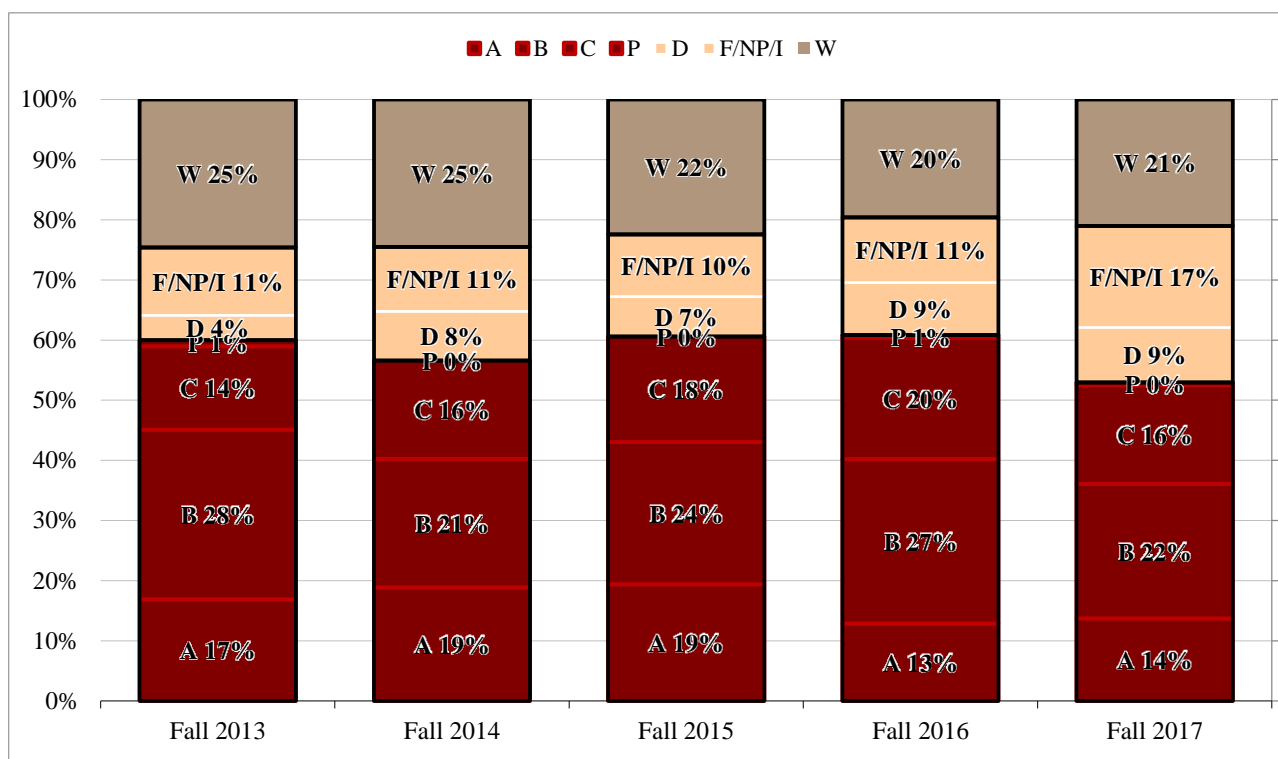
Highest Educational Level of Students

| Astronomy (ASTR) | | | | | |
|------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| | Term | | | | |
| | Fall 2013 | Fall 2014 | Fall 2015 | Fall 2016 | Fall 2017 |
| High School/Adult School | 0 | 2 | 2 | 2 | 10 |
| Freshmen (<30 units) | 115 | 87 | 108 | 139 | 130 |
| Sophomore (30-59 units) | 37 | 41 | 31 | 32 | 44 |
| Other Undergraduate (60 units or more) | 19 | 15 | 8 | 7 | 10 |
| AA/AS Degree | 3 | 1 | 4 | 1 | 3 |
| BA/BS or Higher Degree | 2 | 2 | 1 | 1 | 4 |
| % High School/Adult School | 0% | 1% | 1% | 1% | 5% |
| % Freshmen (<30 units) | 65% | 59% | 70% | 76% | 65% |
| % Sophomore (30-59 units) | 21% | 28% | 20% | 18% | 22% |
| % Other Undergraduate (60 units or more) | 11% | 10% | 5% | 4% | 5% |
| % AA/AS Degree | 2% | 1% | 3% | 1% | 1% |
| % BA/BS or Higher Degree | 1% | 1% | 1% | 1% | 2% |



Student Performance: Grade Distribution

| Astronomy (ASTR) | | | | | |
|---------------------------------|------------|------------|------------|------------|------------|
| | Term | | | | |
| | Fall 2013 | Fall 2014 | Fall 2015 | Fall 2016 | Fall 2017 |
| Total Course Enrollments | 195 | 159 | 165 | 194 | 219 |
| Course Success Rates | 60% | 57% | 61% | 61% | 53% |
| A | 17% | 19% | 19% | 13% | 14% |
| B | 28% | 21% | 24% | 27% | 22% |
| C | 14% | 16% | 18% | 20% | 16% |
| P | 1% | 0% | 0% | 1% | <1% |
| Course Non-Success Rate | 15% | 19% | 17% | 20% | 26% |
| D | 4% | 8% | 7% | 9% | 9% |
| F/NP/I | 11% | 11% | 10% | 11% | 17% |
| Withdrawals (W) | 25% | 25% | 22% | 20% | 21% |



Definitions:

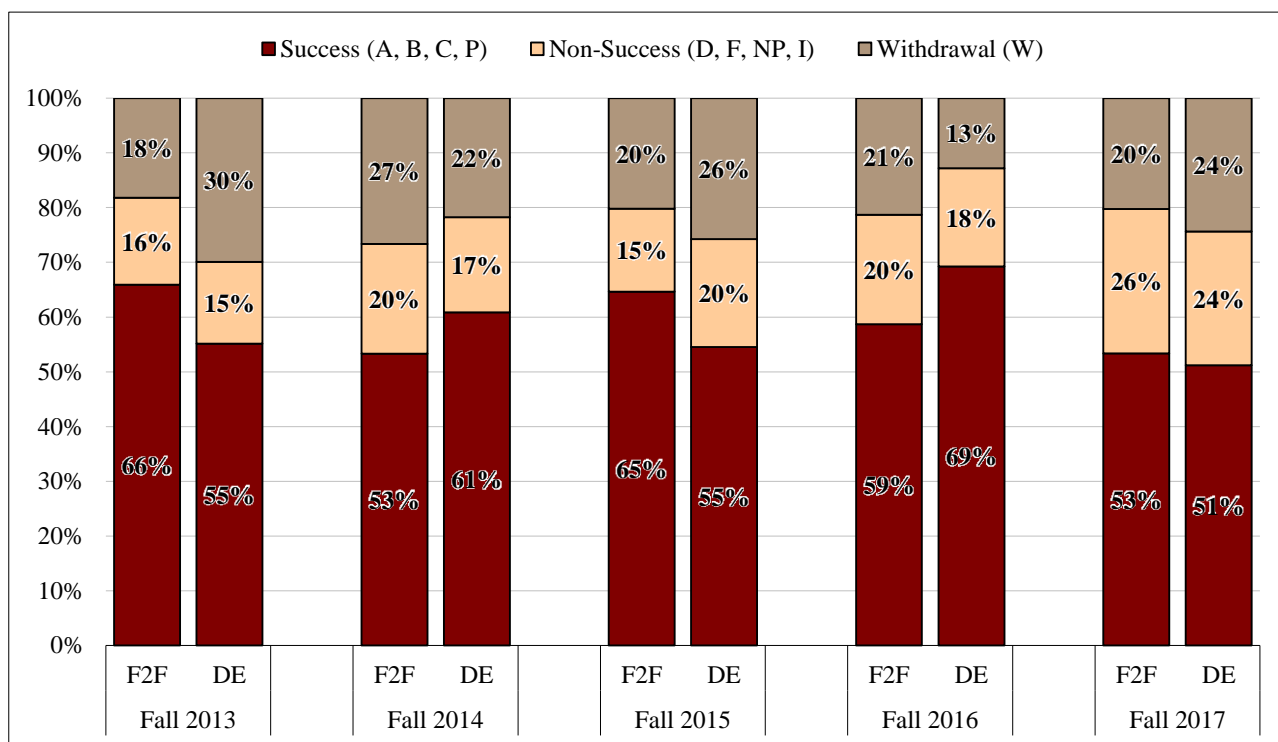
Course Success Rate is the percentage of students receiving a passing grade ('A', 'B', 'C', or 'P') relative to all students receiving a grade.

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

| Astronomy (ASTR) | | | | | |
|-----------------------------------------|------------|------------|------------|------------|------------|
| | Term | | | | |
| | Fall 2013 | Fall 2014 | Fall 2015 | Fall 2016 | Fall 2017 |
| Total Course Enrollments | 195 | 159 | 165 | 194 | 219 |
| Face-to-Face (F2F) Sections | 88 | 90 | 99 | 155 | 178 |
| Success Rates | 66% | 53% | 65% | 59% | 53% |
| Non-Success Rates | 16% | 20% | 15% | 20% | 26% |
| Withdrawals | 18% | 27% | 20% | 21% | 20% |
| Distance Education (DE) Sections | 107 | 69 | 66 | 39 | 41 |
| Success Rates | 55% | 61% | 55% | 69% | 51% |
| Non-Success Rates | 15% | 17% | 20% | 18% | 24% |
| Withdrawals | 30% | 22% | 26% | 13% | 24% |



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.

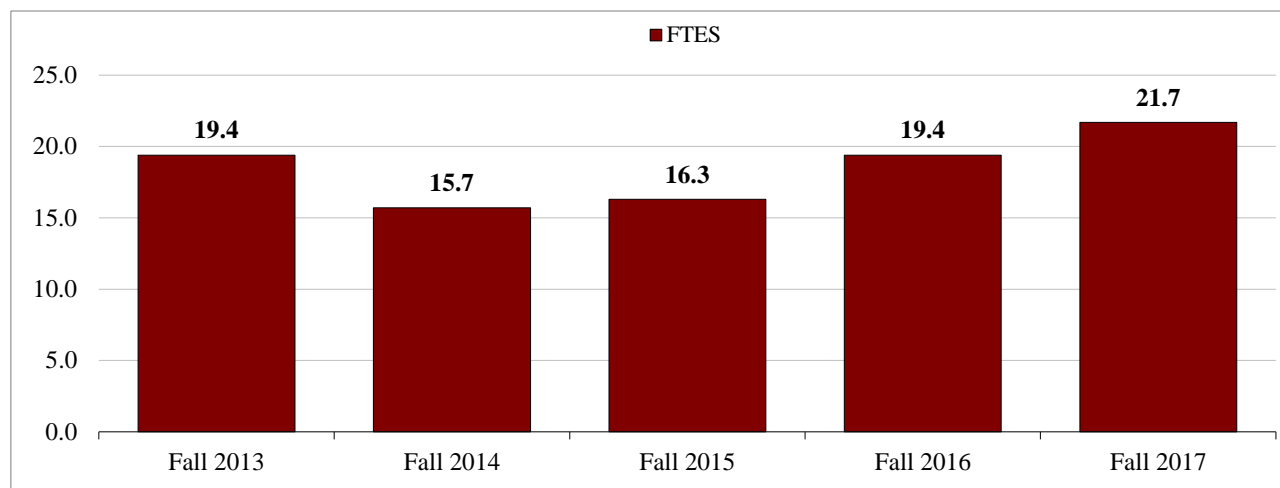
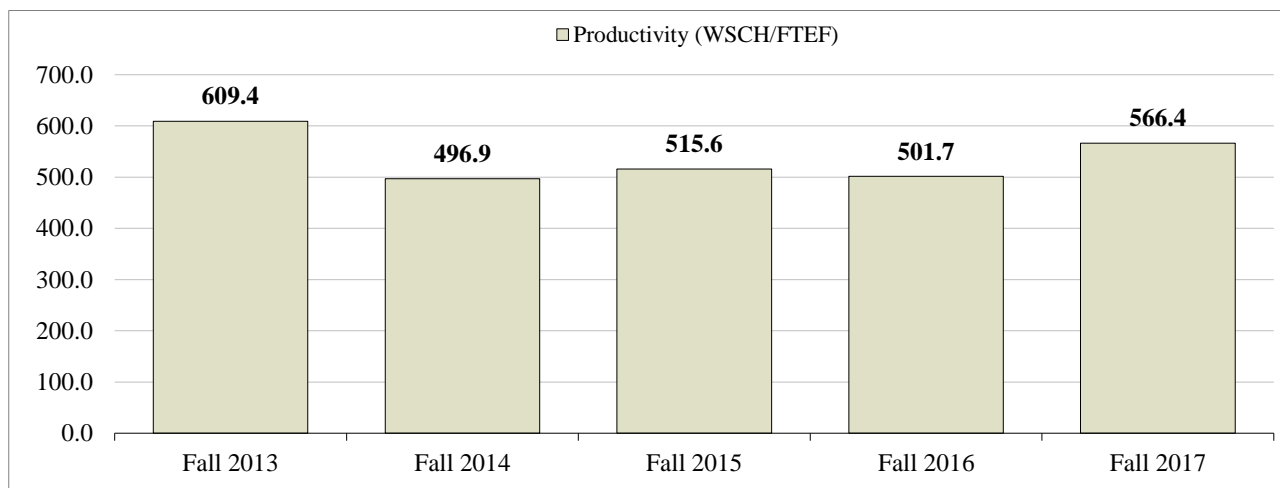
Course Non-Success Rate is the percentage of students receiving a grade of ('D', 'F', 'NP or 'T') relative to all students receiving a grade.

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

| Astronomy (ASTR) | | | | | |
|--------------------------|-----------|-----------|-----------|-----------|-----------|
| | Term | | | | |
| | Fall 2013 | Fall 2014 | Fall 2015 | Fall 2016 | Fall 2017 |
| WSCH | 585 | 477 | 495 | 582 | 657 |
| FTEF | 19.4 | 15.7 | 16.3 | 19.4 | 21.7 |
| Productivity (WSCH/FTEF) | 609.4 | 496.9 | 515.6 | 501.7 | 566.4 |



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.

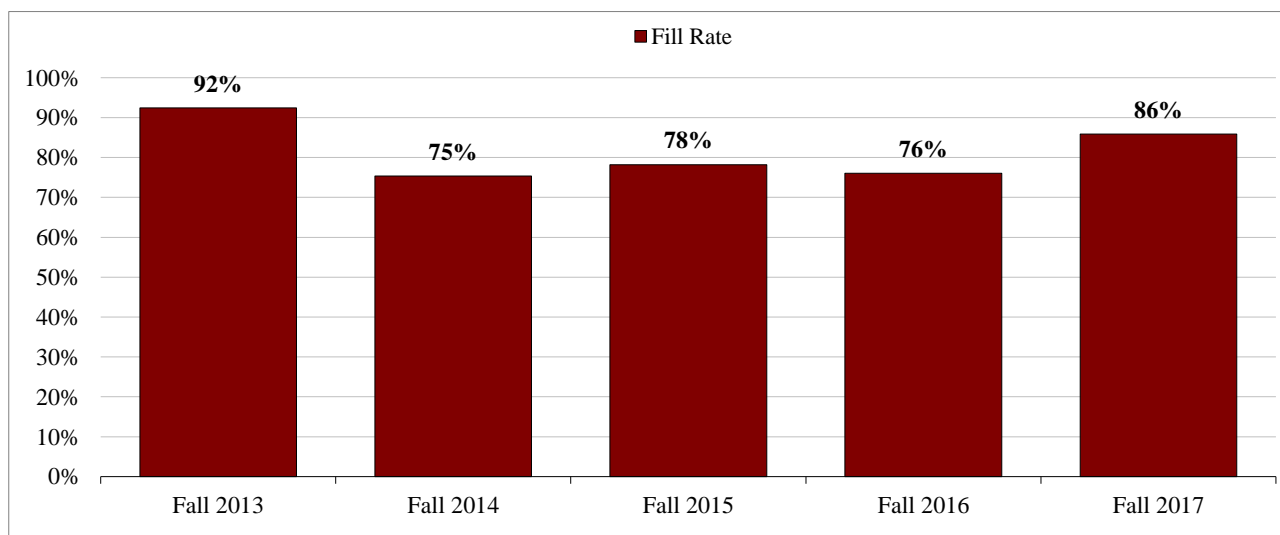
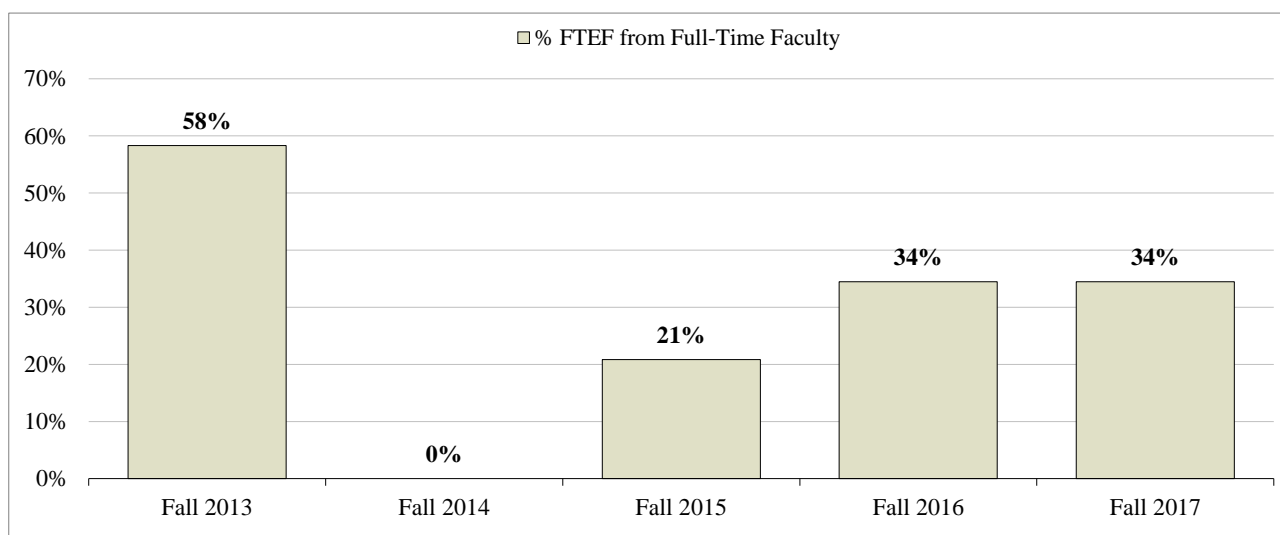
FTEF is the Full Time Equivalent Faculty associated with the discipline's course offerings for that semester.

Productivity is the ratio of WSCH to FTEF and a standard measure of discipline efficiency.

Note: Enrollment Management data includes all credit courses accounted for during the respective academic terms; data accessed on 5/15/18.

Enrollment Management: Part 2

| | Astronomy (ASTR) | | | | |
|-------------------------------|--------------------|-----------|-----------|-----------|-----------|
| | Term | | | | |
| | Fall 2013 | Fall 2014 | Fall 2015 | Fall 2016 | Fall 2017 |
| FTEF from Full-Time Faculty | 0.6 | 0.0 | 0.2 | 0.4 | 0.4 |
| % FTEF from Full-Time Faculty | 58% | 0% | 21% | 34% | 34% |
| Enrollments | 195 | 159 | 165 | 194 | 219 |
| Capacity (seats available) | 211 | 211 | 211 | 255 | 255 |
| Fill Rate | 92% | 75% | 78% | 76% | 86% |



Definitions:

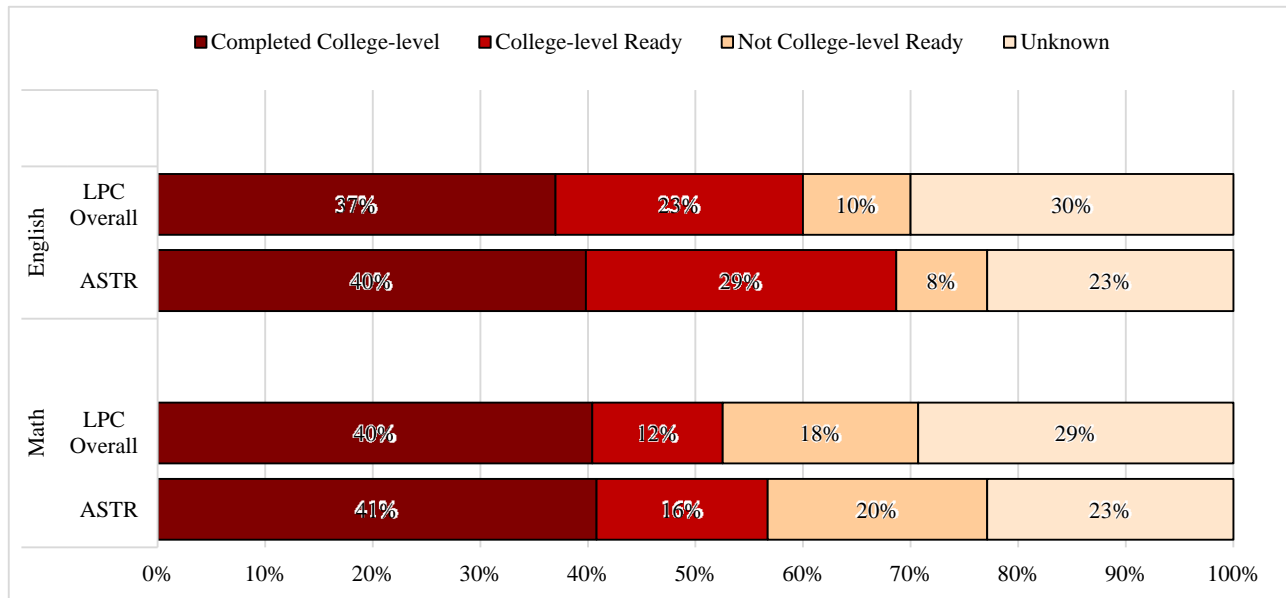
Fill Rate is number of enrollments over the total capacity (seats available).

% 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 includes all credit courses accounted for during the respective academic terms; data accessed on 5/15/18.

College Readiness: English & Math Proficiency

| Fall 2017 | | | | |
|-------------------------|------|-----|-------------|-----|
| | ASTR | | LPC Overall | |
| | Num | Pct | Num | Pct |
| College English | | | | |
| Completed College-level | 80 | 40% | 3,485 | 37% |
| College-level Ready | 58 | 29% | 2,141 | 23% |
| Not College-level Ready | 17 | 10% | 904 | 10% |
| Unknown | 46 | 23% | 2,842 | 30% |
| College Math | | | | |
| Completed College-level | 82 | 41% | 3,738 | 40% |
| College-level Ready | 32 | 16% | 1,138 | 12% |
| Not College-level Ready | 41 | 20% | 1,733 | 18% |
| Unknown | 46 | 23% | 2,763 | 29% |



Definitions:

College English

Completed College-level is defined as successfully completed ENG 1A or higher, or has earned at least an Associates degree.

College-level Ready is defined as anyone who is eligible for ENG 1A but has not successfully completed the course.

Not College-level Ready is defined as anyone who is not eligible for ENG 1A but has not successfully completed the course.

Unknown is defined as anyone with no previous English enrollments within the sequence and no previous English assessment.

College Math

Completed College-level is defined as successfully completed Math 55 or higher or assessed into Transfer-level Math, or has earned at least an Associates degree.

College-level Ready is defined as anyone who is eligible for MATH 55 but has not yet successfully complete the course.

Not College-level Ready is defined as anyone who is not eligible for MATH 55 but has not yet successfully complete the course.

Unknown is defined as anyone with no previous Math enrollments within the sequence and no previous Math assessment.