

FHDA Program Review

Physical Sciences/Math/Engin > Astronomy-FD

Enrollment Trends

Physical Sciences/Math/Engin > Astronomy-FD

| | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 5-yr %Inc |
|---------------------------|---------|---------|---------|---------|---------|-----------|
| ↗Unduplicated Headcount | 2,452 | 2,149 | 1,896 | 1,858 | 1,467 | -40.2% |
| ↗Census Enrollment | 2,576 | 2,266 | 1,990 | 1,935 | 1,562 | -39.4% |
| ↗Sections | 27 | 27 | 25 | 24 | 25 | -7.4% |
| ↗WSCH | 4,249 | 3,722 | 3,262 | 3,173 | 2,552 | -39.9% |
| ↗FTEs (end of term) | 280 | 246 | 216 | 210 | 169 | -39.8% |
| ↗FTEF (end of term) | 4.7 | 4.1 | 3.8 | 3.5 | 3.4 | -28.5% |
| ↗Productivity (WSCH/FTEF) | 898 | 900 | 868 | 902 | 754 | -16.0% |

Faculty Workload

Physical Sciences/Math/Engin > Astronomy-FD

| | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 5-yr %Inc |
|----------------|---------|---------|---------|---------|---------|-----------|
| Full Time Load | 2.5 | 1.8 | 2.1 | 1.9 | 1.1 | -55% |
| Full Time % | 53.0% | 44.0% | 55.0% | 53.5% | 33.6% | -37% |
| Overload | 1.5 | 0.9 | 1.1 | 0.9 | 0.3 | -82% |
| Overload % | 31.4% | 22.8% | 28.4% | 25.0% | 7.9% | -75% |
| Part Time Load | 0.7 | 1.4 | 0.6 | 0.8 | 2.0 | 169% |
| Part Time % | 15.6% | 33.3% | 16.6% | 21.4% | 58.5% | 276% |
| Total FTEF | 4.7 | 4.1 | 3.8 | 3.5 | 3.4 | -29% |

Course Success

Physical Sciences/Math/Engin > Astronomy-FD

| | 2015-16 | | 2016-17 | | 2017-18 | | 2018-19 | | 2019-20 | |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| Success | 2,096 | 81% | 1,800 | 79% | 1,632 | 82% | 1,554 | 80% | 1,187 | 76% |
| Non Success | 286 | 11% | 265 | 12% | 230 | 12% | 231 | 12% | 201 | 13% |
| Withdrew | 194 | 8% | 201 | 9% | 128 | 6% | 150 | 8% | 174 | 11% |
| Total | 2,576 | 100% | 2,266 | 100% | 1,990 | 100% | 1,935 | 100% | 1,562 | 100% |

Course Success for African American, Latinx, and Filipinx Students

| | 2015-16 | | 2016-17 | | 2017-18 | | 2018-19 | | 2019-20 | |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| Success | 691 | 74% | 622 | 69% | 531 | 72% | 516 | 72% | 450 | 68% |
| Non Success | 155 | 17% | 156 | 17% | 127 | 17% | 123 | 17% | 116 | 18% |
| Withdrew | 93 | 10% | 124 | 14% | 82 | 11% | 79 | 11% | 92 | 14% |
| Total | 939 | 100% | 902 | 100% | 740 | 100% | 718 | 100% | 658 | 100% |

Course Success for Asian, Native American, Pacific Islander, White, and Decline to State Students

| | 2015-16 | | 2016-17 | | 2017-18 | | 2018-19 | | 2019-20 | |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| Success | 1,405 | 86% | 1,178 | 86% | 1,101 | 88% | 1,038 | 85% | 737 | 82% |
| Non Success | 131 | 8% | 109 | 8% | 103 | 8% | 108 | 9% | 85 | 9% |
| Withdrew | 101 | 6% | 77 | 6% | 46 | 4% | 71 | 6% | 82 | 9% |
| Total | 1,637 | 100% | 1,364 | 100% | 1,250 | 100% | 1,217 | 100% | 904 | 100% |

by Gender

| | 2015-16 | | 2016-17 | | 2017-18 | | 2018-19 | | 2019-20 | |
|--------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
| | Enr | Percent | Enr | Percent | Enr | Percent | Enr | Percent | Enr | Percent |
| Female | 1,072 | 42% | 998 | 44% | 829 | 42% | 856 | 44% | 649 | 42% |
| Male | 1,486 | 58% | 1,247 | 55% | 1,149 | 58% | 1,066 | 55% | 902 | 58% |
| Not Reported | 18 | 1% | 21 | 1% | 12 | 1% | 13 | 1% | 11 | 1% |
| Total | 2,576 | 100% | 2,266 | 100% | 1,990 | 100% | 1,935 | 100% | 1,562 | 100% |

by Ethnicity

| | 2015-16 | | 2016-17 | | 2017-18 | | 2018-19 | | 2019-20 | |
|------------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
| | Enr | Percent | Enr | Percent | Enr | Percent | Enr | Percent | Enr | Percent |
| African American | 87 | 3% | 94 | 4% | 73 | 4% | 68 | 4% | 55 | 4% |
| Asian | 1,156 | 45% | 953 | 42% | 897 | 45% | 878 | 45% | 600 | 38% |
| Filipinx | 190 | 7% | 168 | 7% | 122 | 6% | 107 | 6% | 119 | 8% |
| Latinx | 662 | 26% | 640 | 28% | 545 | 27% | 543 | 28% | 484 | 31% |
| Native American | 9 | 0% | 10 | 0% | 4 | 0% | 8 | 0% | 6 | 0% |
| Pacific Islander | 28 | 1% | 19 | 1% | 13 | 1% | 15 | 1% | 15 | 1% |
| White | 391 | 15% | 340 | 15% | 308 | 15% | 295 | 15% | 237 | 15% |
| Decline to State | 53 | 2% | 42 | 2% | 28 | 1% | 21 | 1% | 46 | 3% |
| Total | 2,576 | 100% | 2,266 | 100% | 1,990 | 100% | 1,935 | 100% | 1,562 | 100% |

by Age

| | 2015-16 | | 2016-17 | | 2017-18 | | 2018-19 | | 2019-20 | |
|--------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
| | Enr | Percent | Enr | Percent | Enr | Percent | Enr | Percent | Enr | Percent |
| 19 or less | 799 | 31% | 702 | 31% | 583 | 29% | 640 | 33% | 482 | 31% |
| 20-24 | 1,427 | 55% | 1,281 | 57% | 1,133 | 57% | 1,053 | 54% | 824 | 53% |
| 25-39 | 312 | 12% | 250 | 11% | 235 | 12% | 211 | 11% | 230 | 15% |
| 40 + | 38 | 1% | 33 | 1% | 39 | 2% | 31 | 2% | 26 | 2% |
| Total | 2,576 | 100% | 2,266 | 100% | 1,990 | 100% | 1,935 | 100% | 1,562 | 100% |

by Education Level

| | 2015-16 | | 2016-17 | | 2017-18 | | 2018-19 | | 2019-20 | |
|--------------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
| | Enr | Percent | Enr | Percent | Enr | Percent | Enr | Percent | Enr | Percent |
| Bachelor or higher | 39 | 2% | 19 | 1% | 35 | 2% | 25 | 1% | 24 | 2% |
| Associate | 30 | 1% | 22 | 1% | 13 | 1% | 17 | 1% | 11 | 1% |
| HS/Equivalent | 2,279 | 88% | 2,041 | 90% | 1,767 | 89% | 1,741 | 90% | 1,428 | 91% |
| All Other | 228 | 9% | 184 | 8% | 175 | 9% | 152 | 8% | 99 | 6% |
| Total | 2,576 | 100% | 2,266 | 100% | 1,990 | 100% | 1,935 | 100% | 1,562 | 100% |

Some courses may continue to be listed but no longer have data due to renumbering or because the course was not offered in the past five years.

Success Rates by Gender
Physical Sciences/Math/Engin > Astronomy-FD

| 2019-20 | | | | | | | | |
|--------------|---------|---------|-------------|---------|----------|---------|--------|---------|
| | Success | | Non Success | | Withdrew | | Total | |
| | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| Female | 483 | 74% | 89 | 14% | 77 | 12% | 649 | 100% |
| Male | 696 | 77% | 110 | 12% | 96 | 11% | 902 | 100% |
| Not Reported | 8 | 73% | 2 | 18% | 1 | 9% | 11 | 100% |
| All | 1,187 | 76% | 201 | 13% | 174 | 11% | 1,562 | 100% |

| 2018-19 | | | | | | | | |
|--------------|---------|---------|-------------|---------|----------|---------|--------|---------|
| | Success | | Non Success | | Withdrew | | Total | |
| | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| Female | 672 | 79% | 106 | 12% | 78 | 9% | 856 | 100% |
| Male | 873 | 82% | 123 | 12% | 70 | 7% | 1,066 | 100% |
| Not Reported | 9 | 69% | 2 | 15% | 2 | 15% | 13 | 100% |
| All | 1,554 | 80% | 231 | 12% | 150 | 8% | 1,935 | 100% |

| 2017-18 | | | | | | | | |
|--------------|---------|---------|-------------|---------|----------|---------|--------|---------|
| | Success | | Non Success | | Withdrew | | Total | |
| | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| Female | 688 | 83% | 79 | 10% | 62 | 7% | 829 | 100% |
| Male | 933 | 81% | 151 | 13% | 65 | 6% | 1,149 | 100% |
| Not Reported | 11 | 92% | 0 | 0% | 1 | 8% | 12 | 100% |
| All | 1,632 | 82% | 230 | 12% | 128 | 6% | 1,990 | 100% |

| 2016-17 | | | | | | | | |
|--------------|---------|---------|-------------|---------|----------|---------|--------|---------|
| | Success | | Non Success | | Withdrew | | Total | |
| | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| Female | 804 | 81% | 104 | 10% | 90 | 9% | 998 | 100% |
| Male | 977 | 78% | 160 | 13% | 110 | 9% | 1,247 | 100% |
| Not Reported | 19 | 90% | 1 | 5% | 1 | 5% | 21 | 100% |
| All | 1,800 | 79% | 265 | 12% | 201 | 9% | 2,266 | 100% |

| 2015-16 | | | | | | | | |
|--------------|---------|---------|-------------|---------|----------|---------|--------|---------|
| | Success | | Non Success | | Withdrew | | Total | |
| | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| Female | 866 | 81% | 126 | 12% | 80 | 7% | 1,072 | 100% |
| Male | 1,214 | 82% | 158 | 11% | 114 | 8% | 1,486 | 100% |
| Not Reported | 16 | 89% | 2 | 11% | 0 | 0% | 18 | 100% |
| All | 2,096 | 81% | 286 | 11% | 194 | 8% | 2,576 | 100% |

2019-20

| | Success | | Non Success | | Withdrew | | Total | |
|------------|---------|---------|-------------|---------|----------|---------|--------|---------|
| | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| 19 or less | 381 | 79% | 60 | 12% | 41 | 9% | 482 | 100% |
| 20-24 | 623 | 76% | 116 | 14% | 85 | 10% | 824 | 100% |
| 25-39 | 162 | 70% | 24 | 10% | 44 | 19% | 230 | 100% |
| 40 + | 21 | 81% | 1 | 4% | 4 | 15% | 26 | 100% |
| All | 1,187 | 76% | 201 | 13% | 174 | 11% | 1,562 | 100% |

2018-19

| | Success | | Non Success | | Withdrew | | Total | |
|------------|---------|---------|-------------|---------|----------|---------|--------|---------|
| | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| 19 or less | 544 | 85% | 69 | 11% | 27 | 4% | 640 | 100% |
| 20-24 | 835 | 79% | 125 | 12% | 93 | 9% | 1,053 | 100% |
| 25-39 | 153 | 73% | 34 | 16% | 24 | 11% | 211 | 100% |
| 40 + | 22 | 71% | 3 | 10% | 6 | 19% | 31 | 100% |
| All | 1,554 | 80% | 231 | 12% | 150 | 8% | 1,935 | 100% |

2017-18

| | Success | | Non Success | | Withdrew | | Total | |
|------------|---------|---------|-------------|---------|----------|---------|--------|---------|
| | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| 19 or less | 512 | 88% | 50 | 9% | 21 | 4% | 583 | 100% |
| 20-24 | 901 | 80% | 151 | 13% | 81 | 7% | 1,133 | 100% |
| 25-39 | 186 | 79% | 27 | 11% | 22 | 9% | 235 | 100% |
| 40 + | 33 | 85% | 2 | 5% | 4 | 10% | 39 | 100% |
| All | 1,632 | 82% | 230 | 12% | 128 | 6% | 1,990 | 100% |

2016-17

| | Success | | Non Success | | Withdrew | | Total | |
|------------|---------|---------|-------------|---------|----------|---------|--------|---------|
| | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| 19 or less | 594 | 85% | 62 | 9% | 46 | 7% | 702 | 100% |
| 20-24 | 994 | 78% | 172 | 13% | 115 | 9% | 1,281 | 100% |
| 25-39 | 180 | 72% | 31 | 12% | 39 | 16% | 250 | 100% |
| 40 + | 32 | 97% | 0 | 0% | 1 | 3% | 33 | 100% |
| All | 1,800 | 79% | 265 | 12% | 201 | 9% | 2,266 | 100% |

2015-16

| | Success | | Non Success | | Withdrew | | Total | |
|------------|---------|---------|-------------|---------|----------|---------|--------|---------|
| | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| 19 or less | 664 | 83% | 87 | 11% | 48 | 6% | 799 | 100% |
| 20-24 | 1,153 | 81% | 164 | 11% | 110 | 8% | 1,427 | 100% |
| 25-39 | 248 | 79% | 32 | 10% | 32 | 10% | 312 | 100% |
| 40 + | 31 | 82% | 3 | 8% | 4 | 11% | 38 | 100% |
| All | 2,096 | 81% | 286 | 11% | 194 | 8% | 2,576 | 100% |

2019-20

| | Success | | Non Success | | Withdrew | | Total | |
|------------------|---------|---------|-------------|---------|----------|---------|--------|---------|
| | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| African American | 30 | 55% | 12 | 22% | 13 | 24% | 55 | 100% |
| Asian | 490 | 82% | 51 | 9% | 59 | 10% | 600 | 100% |
| Filipinx | 86 | 72% | 22 | 18% | 11 | 9% | 119 | 100% |
| Latinx | 334 | 69% | 82 | 17% | 68 | 14% | 484 | 100% |
| Native American | 5 | 83% | 1 | 17% | 0 | 0% | 6 | 100% |
| Pacific Islander | 13 | 87% | 2 | 13% | 0 | 0% | 15 | 100% |
| White | 188 | 79% | 26 | 11% | 23 | 10% | 237 | 100% |
| Decline to State | 41 | 89% | 5 | 11% | 0 | 0% | 46 | 100% |
| All | 1,187 | 76% | 201 | 13% | 174 | 11% | 1,562 | 100% |

2018-19

| | Success | | Non Success | | Withdrew | | Total | |
|------------------|---------|---------|-------------|---------|----------|---------|--------|---------|
| | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| African American | 45 | 66% | 15 | 22% | 8 | 12% | 68 | 100% |
| Asian | 758 | 86% | 71 | 8% | 49 | 6% | 878 | 100% |
| Filipinx | 83 | 78% | 15 | 14% | 9 | 8% | 107 | 100% |
| Latinx | 388 | 71% | 93 | 17% | 62 | 11% | 543 | 100% |
| Native American | 5 | 63% | 3 | 38% | 0 | 0% | 8 | 100% |
| Pacific Islander | 13 | 87% | 2 | 13% | 0 | 0% | 15 | 100% |
| White | 244 | 83% | 30 | 10% | 21 | 7% | 295 | 100% |
| Decline to State | 18 | 86% | 2 | 10% | 1 | 5% | 21 | 100% |
| All | 1,554 | 80% | 231 | 12% | 150 | 8% | 1,935 | 100% |

2017-18

| | Success | | Non Success | | Withdrew | | Total | |
|------------------|---------|---------|-------------|---------|----------|---------|--------|---------|
| | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| African American | 39 | 53% | 19 | 26% | 15 | 21% | 73 | 100% |
| Asian | 789 | 88% | 75 | 8% | 33 | 4% | 897 | 100% |
| Filipinx | 94 | 77% | 21 | 17% | 7 | 6% | 122 | 100% |
| Latinx | 398 | 73% | 87 | 16% | 60 | 11% | 545 | 100% |
| Native American | 3 | 75% | 1 | 25% | 0 | 0% | 4 | 100% |
| Pacific Islander | 10 | 77% | 1 | 8% | 2 | 15% | 13 | 100% |
| White | 275 | 89% | 22 | 7% | 11 | 4% | 308 | 100% |
| Decline to State | 24 | 86% | 4 | 14% | 0 | 0% | 28 | 100% |
| All | 1,632 | 82% | 230 | 12% | 128 | 6% | 1,990 | 100% |

2016-17

| | Success | | Non Success | | Withdrew | | Total | |
|------------------|---------|---------|-------------|---------|----------|---------|--------|---------|
| | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| African American | 59 | 63% | 19 | 20% | 16 | 17% | 94 | 100% |
| Asian | 824 | 86% | 82 | 9% | 47 | 5% | 953 | 100% |
| Filipinx | 133 | 79% | 18 | 11% | 17 | 10% | 168 | 100% |
| Latinx | 430 | 67% | 119 | 19% | 91 | 14% | 640 | 100% |
| Native American | 8 | 80% | 0 | 0% | 2 | 20% | 10 | 100% |
| Pacific Islander | 15 | 79% | 2 | 11% | 2 | 11% | 19 | 100% |
| White | 290 | 85% | 24 | 7% | 26 | 8% | 340 | 100% |
| Decline to State | 41 | 98% | 1 | 2% | 0 | 0% | 42 | 100% |
| All | 1,800 | 79% | 265 | 12% | 201 | 9% | 2,266 | 100% |

2015-16

| | Success | | Non Success | | Withdrew | | Total | |
|------------------|---------|---------|-------------|---------|----------|---------|--------|---------|
| | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| African American | 63 | 72% | 19 | 22% | 5 | 6% | 87 | 100% |
| Asian | 1,009 | 87% | 83 | 7% | 64 | 6% | 1,156 | 100% |
| Filipinx | 148 | 78% | 23 | 12% | 19 | 10% | 190 | 100% |
| Latinx | 480 | 73% | 113 | 17% | 69 | 10% | 662 | 100% |
| Native American | 9 | 100% | 0 | 0% | 0 | 0% | 9 | 100% |
| Pacific Islander | 18 | 64% | 4 | 14% | 6 | 21% | 28 | 100% |
| White | 322 | 82% | 40 | 10% | 29 | 7% | 391 | 100% |
| Decline to State | 47 | 89% | 4 | 8% | 2 | 4% | 53 | 100% |
| All | 2,096 | 81% | 286 | 11% | 194 | 8% | 2,576 | 100% |