

## Enrollment Analysis Top 10 Education Plan Programs 2010/11 to 2014/15

- The focus of this study is the top ten Associate Degree programs that attracted the highest numbers of Education Plans (see Table 1). The large numbers of Education Plans formulated for these degree programs imply a high demand for the required and elective courses sequenced for the degrees. A potential impact on enrollment could be derived from the high demand. Therefore, the purpose of this study is to gather some evidence for exploring the correlation between Education Plans and the actual enrollments, through describing enrollment trends, as well as the trends in a few other productivity indicators such as section, FTES, FTES/FTEF ratio, and fill rate. Associate degrees conferred were also included in the report.
- Between 2010/11 and 2014/15, about half of the top ten education plan programs experienced a remarkable or moderate increase in enrollment, whereas the rest of the programs saw slight to moderate decline (see Table 2). Almost all of the top ten education plan programs witnessed a sharp reduction in enrollment between 2010/11 and 2011/12, but were able to subsequently restore program enrollments back to the previous levels or grow even larger during 2012/13 – 2014/15. The enrollment trends observed in the top ten education plan programs have mirrored the trends in section offerings and FTES, as well as the college-wide enrollment trend over the same five-year period.

Table 1. Miramar College Top 10 Education Plan Programs

| Education Plan Degree Program   | Required<br>Major<br>Units | Total #<br>of Ed<br>Plans |
|---|----------------------------|---------------------------|
| <b>AS Degree: Biology - Allied Health Track</b>                               | 21                         | 384                       |
| <b>AS Degree: Administration of Justice for Transfer Degree</b>               | 18                         | 354                       |
| <b>AS Degree: Business Administration</b>                                     | 33                         | 294                       |
| <b>AS Degree: Fire Protection Technology - Fire Technology</b>                | 36.2                       | 269                       |
| <b>AA Degree: Social and Behavioral Sciences</b>                              | 18                         | 195                       |
| <b>AS Degree: Automotive Technology</b>                                       | 40                         | 166                       |
| <b>AS Degree: Child Development</b>   | 26-29                      | 136                       |
| <b>AS Degree: Paralegal</b>   | 30                         | 126                       |
| <b>AS Degree: Administration of Justice - Law Enforcement</b>                 | 33                         | 112                       |
| <b>AS Degree: Aviation Maintenance Technology - Airframe &amp; Powerplant</b> | 52.5                       | 112                       |

Source: SDCCD Information System

## Miramar College Enrollment Analysis – Phase II

Table 2. Miramar College Top 10 Education Plan Program Enrollment (2010/11 – 2014/15)

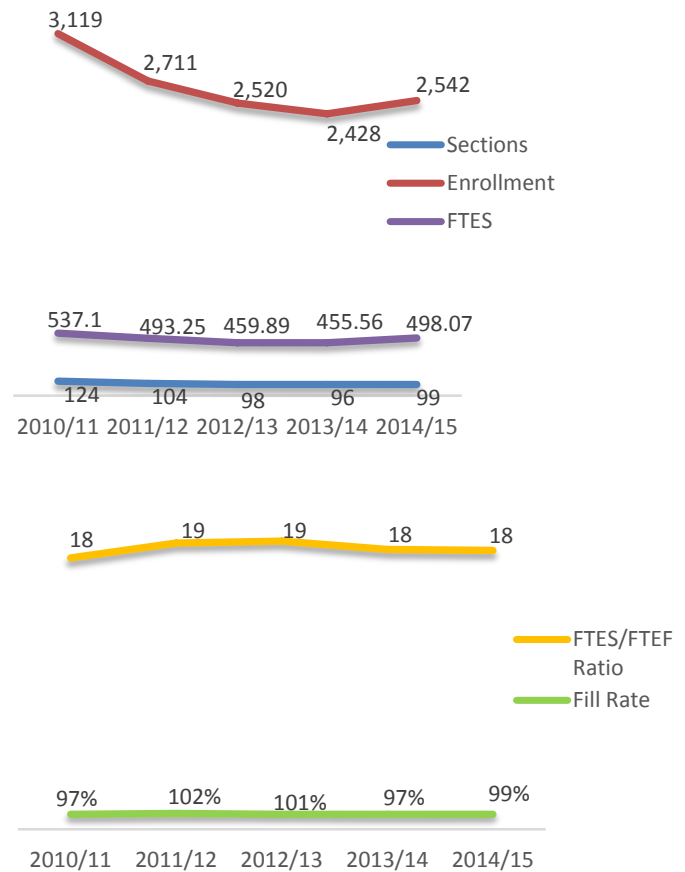
| Education Plan Degree Program                                      | 2010/11 | 2011/12 | 2012/13 | 2013/14 | 2014/15 | 5-Year Trends    |          |
|--|---------|---------|---------|---------|---------|------------------|----------|
|  |         |         |         |         |         | Total Enrollment | % Change |
| AS Degree: Biology - Allied Health Track                           | 3,119   | 2,711   | 2,520   | 2,428   | 2,542   | 13,320           | -18%     |
| AS Degree: Administration of Justice for Transfer Degree           | 3,559   | 3,030   | 2,847   | 3,030   | 3,427   | 15,893           | -4%      |
| AS Degree: Business Administration                                 | 5,228   | 4,570   | 4,669   | 4,674   | 5,193   | 24,334           | -1%      |
| AS Degree: Fire Protection Technology - Fire Technology            | 1,654   | 2,332   | 2,020   | 2,040   | 2,568   | 10,614           | 55%      |
| AA Degree: Social and Behavioral Sciences                          | 7,703   | 6,480   | 6,168   | 6,514   | 7,649   | 34,514           | -1%      |
| AS Degree: Automotive Technology                                   | 540     | 444     | 500     | 619     | 737     | 2,840            | 36%      |
| AS Degree: Child Development                                       | 1,593   | 1,280   | 1,224   | 1,192   | 1,699   | 6,988            | 7%       |
| AS Degree: Paralegal   | 899     | 856     | 765     | 696     | 804     | 4,020            | -11%     |
| AS Degree: Administration of Justice - Law Enforcement             | 175     | 206     | 158     | 98      | 300     | 937              | 71%      |
| AS Degree: Aviation Maintenance Technology - Airframe & Powerplant | 1,587   | 1,691   | 1,668   | 1,706   | 1,933   | 8,585            | 22%      |

Source: SDCCD Information System

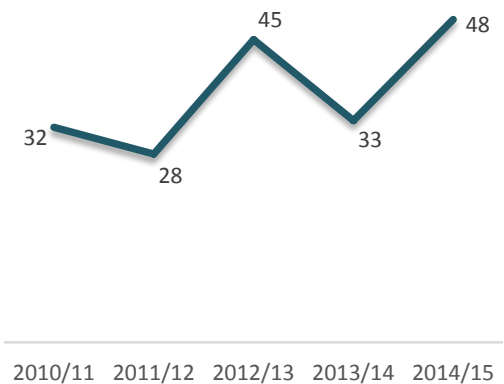
## Associate of Science Degree: Biology – Allied Health Track

- Program enrollment for the associate degree decreased 18% between 2010/11 and 2014/15. Although student enrollments have leveled off slightly in the most recent years (2012/13-2014/15), they are still below the levels of the 2010/11 academic year. Section offerings and FTES demonstrated similar trends. The trends were in part due to budget cuts starting in 2011/12.
- Program fill rate was consistently high (between 97% and 102%) implying a high course demand. Courses mapped for the education plan were also consistently efficient with an average FTEF/FTES ratio of 18.5.
- It is possible that the solid science degree program itself, along with the occupational demand, attracts students to remain enrolled in the classes.
- The number of awards for this education plan fluctuated over the five years. As the course offerings were affected by budget cuts, students were likely prompted to pursue their studies elsewhere. However, with popularity and a good reputation, the program attracts students back once the section offerings were restored.

### Productivity

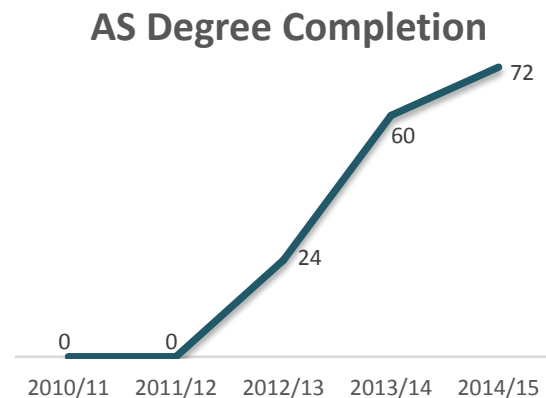
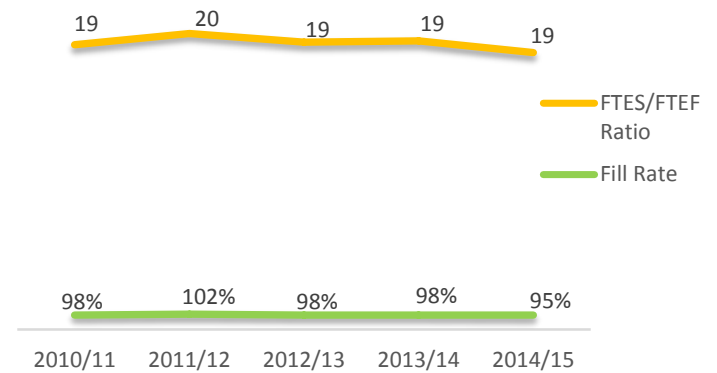
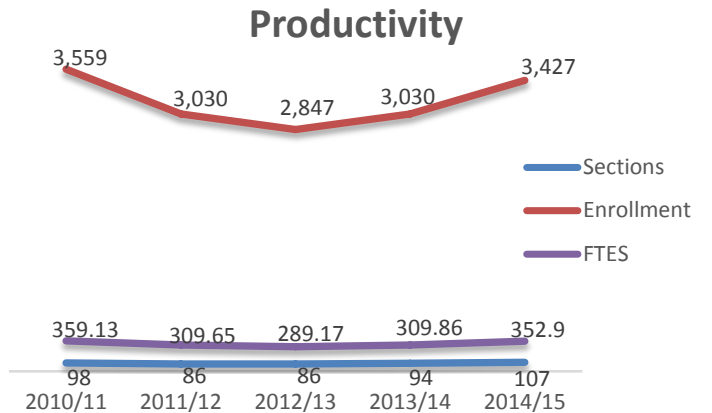


### AS Degree Completion



## Associate of Science: Administration of Justice for Transfer Degree

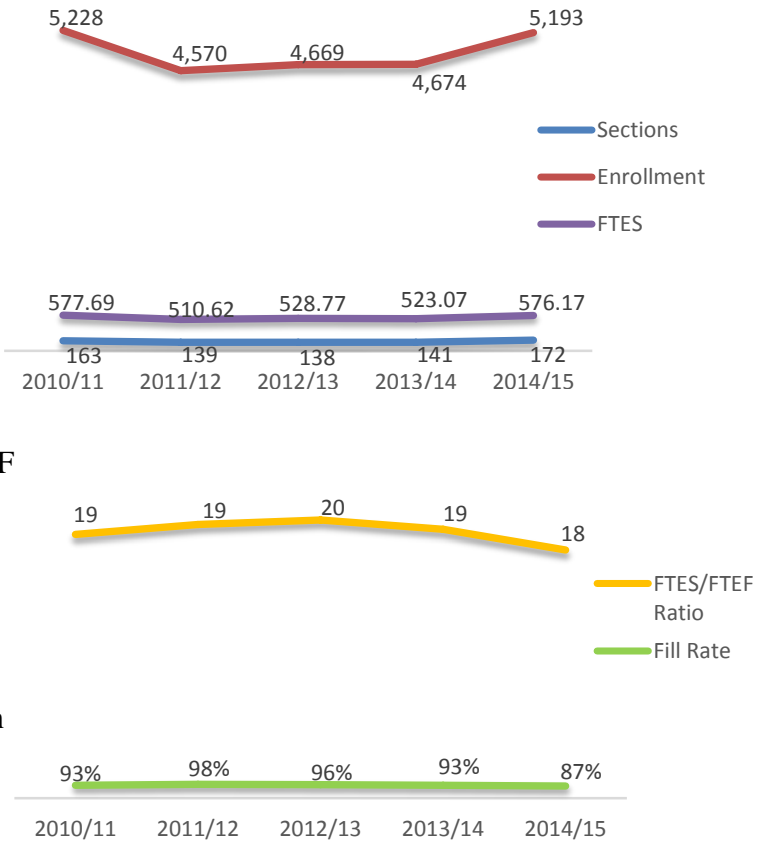
- Program enrollment, FTES, and section for the Associate of Science in Administration of Justice for Transfer degree all declined between 2010/11 and 2012/13, mainly due to budget cuts and a sharp reduction in course offerings. Program enrollment rebounded as the course offerings were gradually restored in the subsequent years, but were still 4% lower than those of the 2010/11 academic year.
- As the FTES/FTEF ratio remains steady across the five years indicating high efficiency, fill rates for the education plan program saw a slight decrease from 102% in 2011/12 to 95% in 2014/15. This may be due to increased regional job opportunities and job attainment that have reversely influenced course demand.
- The completion of the degree program saw a steep increase between 2012/13 and 2014/15, with the number of associate degrees tripling over the past three years (2012/13 – 2014/15).



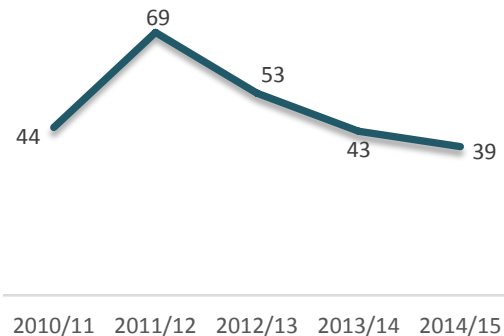
## Associate of Science Degree: Business Administration

- Program enrollment first witnessed a sharp reduction from 5,228 in 2010/11 to 4,570 in 2011/12, remained flat between 2011/12 and 2013/14, but rebounded to 5,193 in 2014/15. Section numbers and FTES figures also demonstrated the same trend. Budget cuts could most likely be the impact factor amidst the others.
- While student enrollments and section offerings were restored gradually during the most recent three years, both efficiency in terms of FTES/FTEF and demand for the program courses slightly declined.
- The number of associate degrees awarded for the program experienced a notable increase from 44 in 2010/11 to 69 in 2011/12, however, has been enduring a continuous decrease since then. The number of associate degrees awarded through the program dropped to 39 in 2014/15.

### Productivity



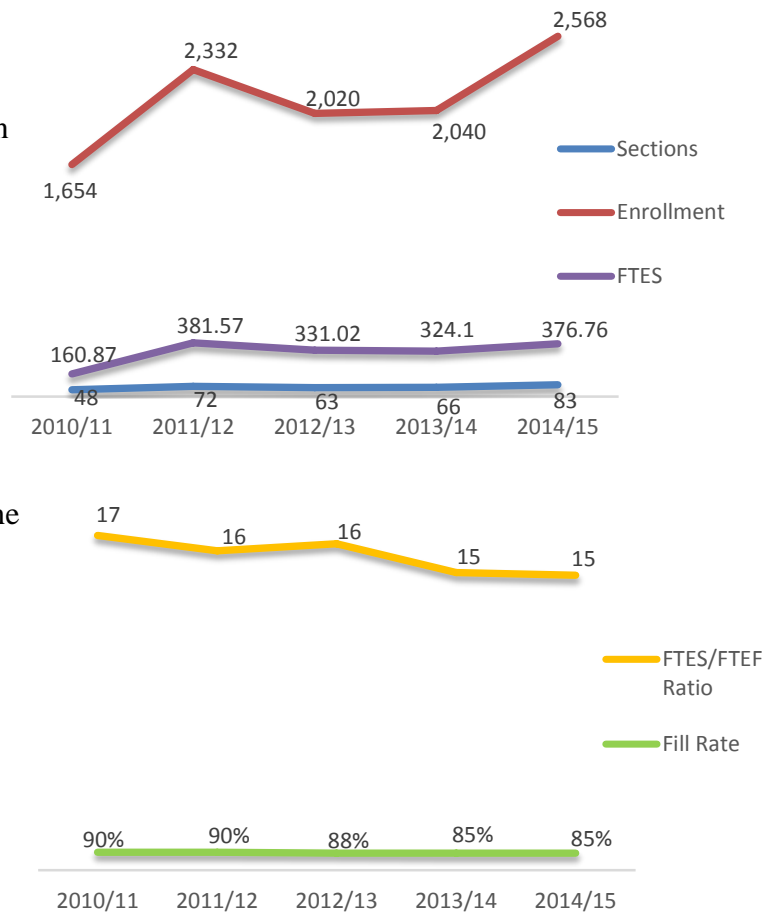
### AS Degree Completion



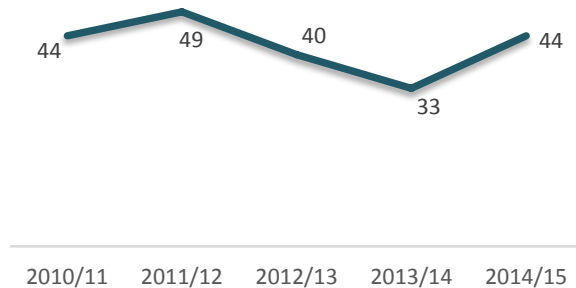
## Associate of Science Degree: Fire Protection Technology (FPT) – Fire Technology

- Overall, the Associate Degree in FPT - Fire Technology program witnessed a 55% increase in enrollment between 2010/11 and 2014/15. Sections and FTES were trending the same way over the same years.
- Both fill rates and efficiency figures (FTES/FTEF ratios) demonstrated a downward trend between 2010/11 and 2014/15. However, the number of associate degrees awarded fluctuated over the five years.

### Productivity



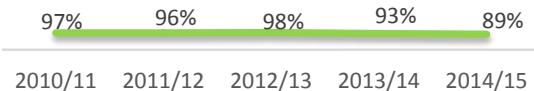
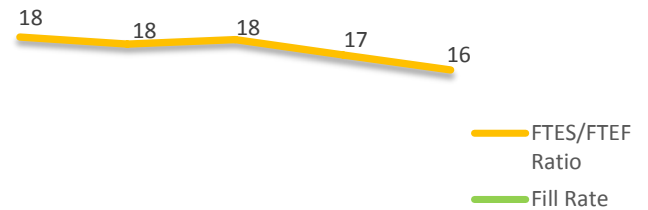
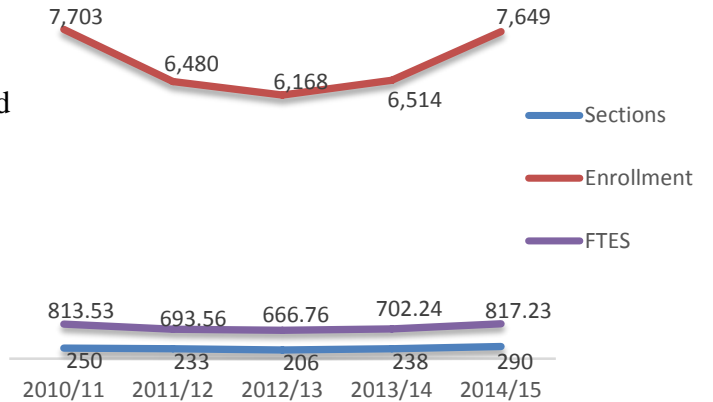
### AS Degree Completion



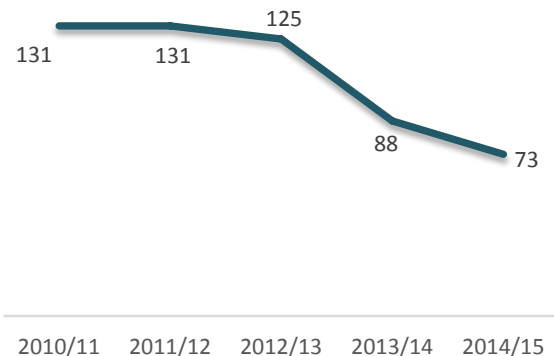
## Associate of Arts Degree: Social and Behavioral Sciences

- Program enrollment for the Associate of Art Degree in Social and Behavioral Science decreased steadily between 2010/11 and 2012/13, but increased notably during the most recent two years (2013/14 – 2014/15). Section offerings and FTES were trending the same way. The trends were mainly due to budget cuts that led to section reduction.
- While enrollments were increasing, fill rates and efficiency figures for the program demonstrated a downward trend over the five years.
- The number of degrees completed remained steady between 2010/11 and 2012/13, but witnessed a sharp decrease during the subsequent years (2013/14 – 2014/15).
- Fill rates, FTES/FTEF ratios, and awards conferred for the degree program were all trending in a similar way. It is possible that when section offerings were deducted due to budget cuts, especially for the higher-level program courses, students were prompted to continue their studies elsewhere. When the sections were restored, productivity did not rebound to the same or higher levels than those of the 2010/11 academic year.

## Productivity



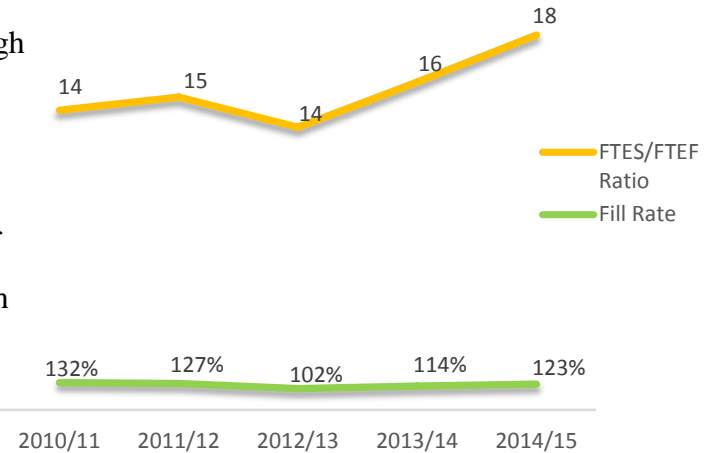
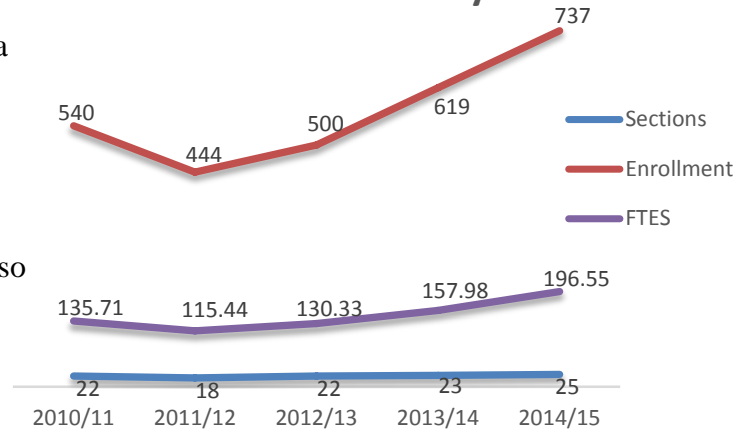
## AA Degree Completion



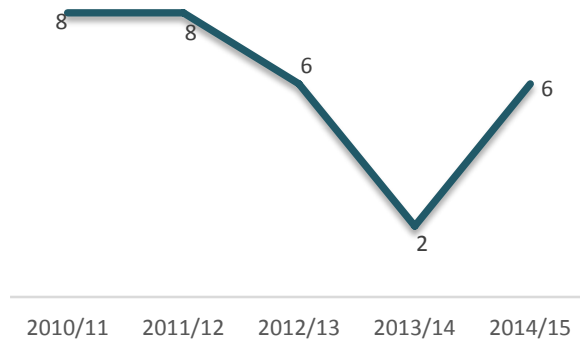
## Associate of Science Degree: Automotive Technology

- Automotive Technology enrollment experienced a sharp decrease from 540 in 2010/11 to 444 in 2011/12 but increased steadily since then, which yielded an overall increase of 36% for program enrollment. FTES and sections for the program also witnessed growth over the five years - although with a slightly lower rate of increase.
- Program efficiency has also been growing in terms of FTES/FTEF over the past five years. Fill rates averaged nearly 120%, demonstrating a steady high demand for the courses for the degree program.
- Being a small program, there are proportionally a small number of degrees awarded. The number of awards experienced a sharp decrease from eight in 2010/11 to two in 2013/14, however increased to six in 2014/15.

### Productivity



### AS Degree Completion

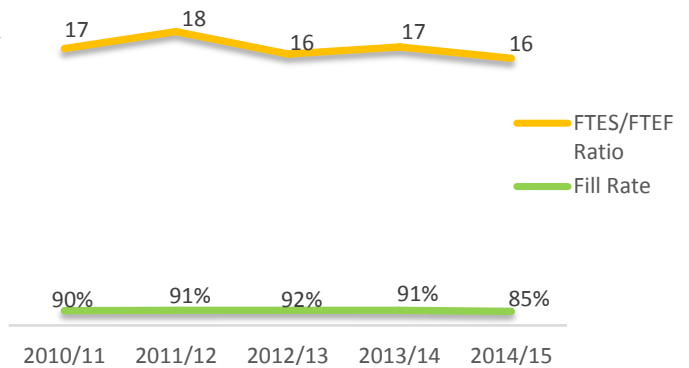
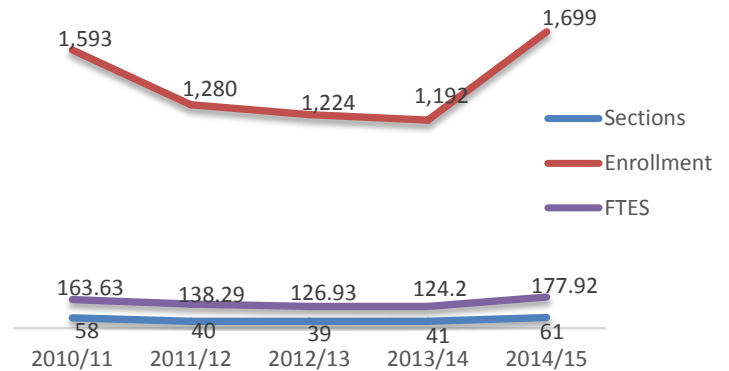




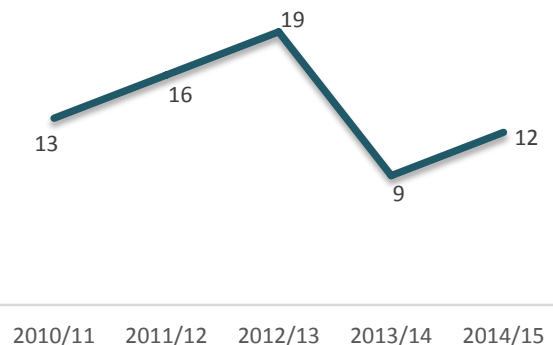
## Associate of Science Degree: Child Development

- Overall, program enrollment experienced a sharp decrease during 2010/11-2011/12, followed by a flattening trend during 2012/13-2013/14, and a notable increase in 2014/15. The restoration brought an overall 7% increase in enrollment between 2010/11 and 2014/15. Section offerings and FTES demonstrated a similar trend. The trends were in part due to budget cuts that the entire district was enduring starting in 2011/12.
- The efficiency in terms of FTES/FTEF ranged from 16 to 18 FTES per FTEF, whereas the demand for the courses indicated by fill rates declined over the five years between 2010/11 and 2014/15. It is possible that as the course offerings were cut, students left the program to pursue their studies elsewhere.
- The number of awards peaked in 2012/13 but dipped in 2013/14, yet was not able to rebound in 2014/15.

### Productivity

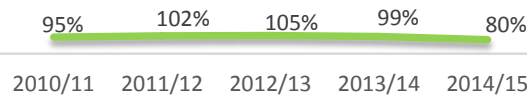
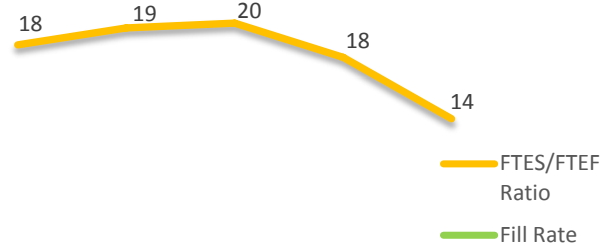
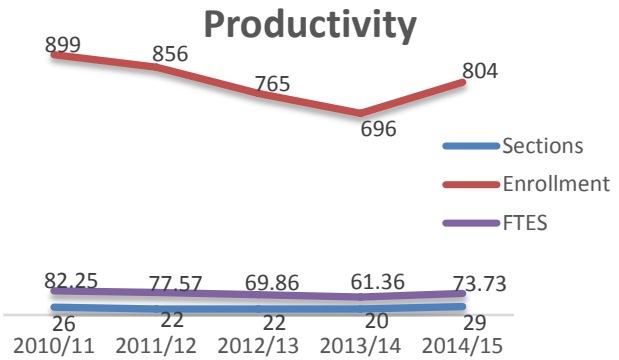


### AS Degree Completion

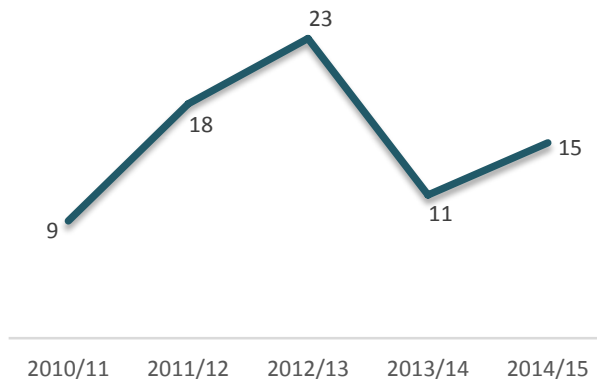


## Associate of Science Degree: Paralegal

- Student enrollments in the courses that fulfill the requirements for the degree decreased 11% between 2010/11 and 2014/15. Although student enrollments leveled off slightly in 2014/15, they were still lower than the levels of the 2010/11 academic year because of the continuous decrease from 2010/11 to 2013/14. Trends in section offerings and FTES were mirroring the enrollment trend. Mostly it's due to the financial difficulty that the entire district was going through starting in 2011/12, affecting section offerings and program enrollment.
- Fill rates and FTES/FTEF ratios slightly peaked in 2012/13, but decreased notably from 2013/14 to 2014/15. It is possible that when section offerings were restored, enrollments in the courses did not necessarily rebound. It could also be a function of the increasing occupational demand and employment rates in the region.
- The number of degrees awarded saw a steep increase from 2010/11 and 2012/13 but witnessed a sharp decrease during the subsequent years (2013/14 -2014/15). The trends may be due to the lagging effect derived from the instability of section offerings over the five years between 2010/11 and 2014/15.



## AS Degree Completion



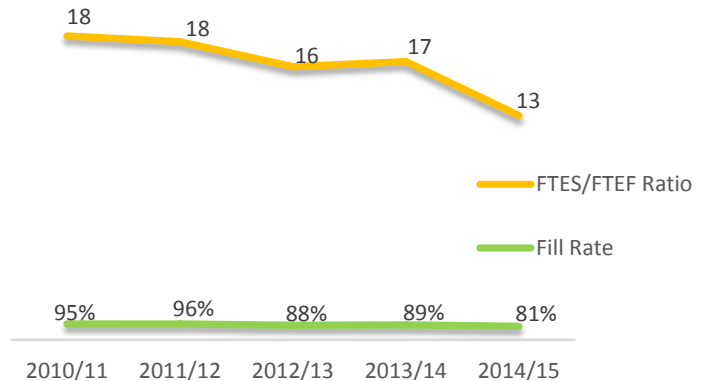
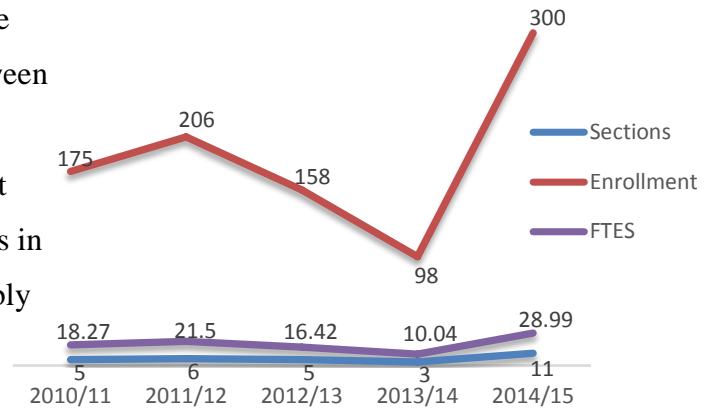
## Associate of Science Degree: Administration of Justice – Law Enforcement

- Student enrollments in the courses that fulfill the requirements for the degree increased 71% between 2010/11 and 2014/15, although student enrollments, along with sections and FTES, kept decreasing between 2010/11 and 2013/14. It was in the most recent year (2014/15) when a remarkably larger number of sections were added, which yielded the steepest increase in program enrollment, section, and FTES.

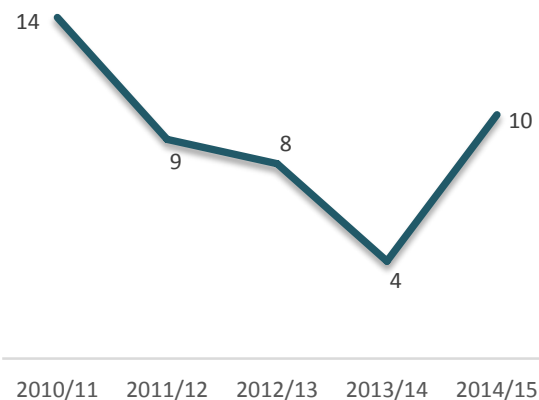
- However, fill rates and FTES/FTEF ratios for the program demonstrated a decreasing trend over the same period. It is possible that the restoration of section offerings did not necessarily increase flexibility of scheduling, parking, and classroom space, which still impede students from enrolling and staying in the classes.

- The number of degrees completed demonstrated a similar trend as observed in enrollment. The program awarded 14 degrees in 2010/11, but decreased to four in 2013/14. Although the number of degrees awarded rebounded to ten in 2014/15, it is still not fully restored to the previous level of the 2010/11 academic year. The trends may also be an implication of the lagging effect derived from cutting, and then restoring section offerings over the five years between 2010/11 and 2014/15.

### Productivity



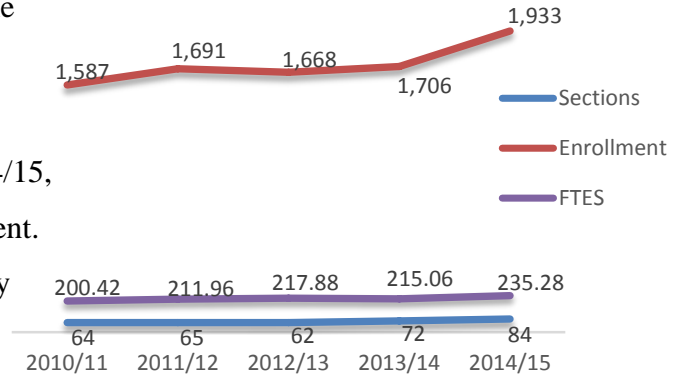
### AS Degree Completion



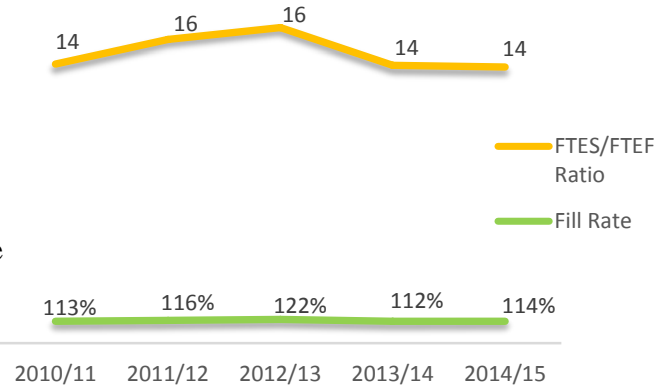
## Associate of Science Degree: Aviation Maintenance Technology – Airframe & Powerplant

- Student enrollments in the courses that fulfill the requirements for the AMT - Airframe & Powerplant education plan program increased steadily from 1,587 in 2010/11 to 1,933 in 2014/15, yielding an overall increase of 22% in enrollment. It appeared that the program was not affected by the budget cuts as most of the other programs did.

### Productivity



- Program fill rate remained consistently high, ranging from 112% to 122%, indicating a persistently high demand for the courses. The efficiency in terms of FTES/FTEF also remained steady with a slight decline towards the end of the five-year period. The high demand could be a function of high occupational demand in the region during the time.



- The program awarded a relatively small number of degrees, yet the number of awards conferred fluctuated over the five years between 2010/11 and 2014/15. This could be a lagging effect derived from cutting section offerings in the previous years. Students left while the sections were cut and most likely were prompted to continue their studies elsewhere.

### AS Degree Completion

