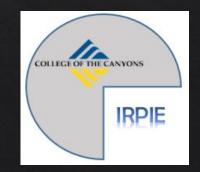
# Academic Program Review Workshop

# Data Trends Interpretation

November 2021



## Program Review Module

|   |                     | n.                     |
|---|---------------------|------------------------|
| Data Trends<br>(See above: Tableau, eLumen, and resources invested table to answer these prompts)   |                     |                        |
| Data Trends: Describe department trends, including growth/decline in: [Update in Years 1, 2 and 3.]<br>a) number of students served (measured by headcount and FTES),<br>b) instructional load (measured by instructional load and average class size),<br>c) student achievement and success (retention, course success, degrees/certificates completed, transfer). How do these trends compare to the College as a whole? |                     |                        |
|   | (100-200 words)     | words left             |
| Given the trends in student achievement and outcomes, what are your ideas for improving student completion in your programs? [Update in Years 1, 2 and 3.]  |                     |                        |
|   |                     |                        |
|   | (100-200 words) 200 | words left             |
| To what extent is there disproportionate impact for achievement or outcome indicators? If there is disproportionate impact, what can be done to minimize it? [Update in Years 1, 2 and 3.]  | l,                  |                        |
|   | (100-200 words)     | words left             |
| Use of Data: How is the department/program using and incorporating results (data) from assessments in decision making / planning? Give examples of how you have used results to in internal or external demands. [Update in Years 1, 2 and 3.]  | nprove program qua  | ality or to meet other |
|   |                     |                        |
|   | (100-200 words)     | words left             |

#### https://www.canyons.edu/administration/irpie/index.php

### Where are the Data?

| → C  anyons.edu/a      | administration/irpie/index.php  |  |                                      |                  |                    |                      |               | * 🐹 🛊 🔍   |
|------------------------|---|--|--------------------------------------|------------------|--------------------|----------------------|---------------|-----------|
| 11-                    | my  | ٢                                      |                                      |                  | As                 | sk Canyons A-Z i     | ndex          | ٩         |
| COLLEGE OF THE CANYONS | MY CANYONS  | CANVAS                                 |                                      | Students         | Future Students    | Community            | Board Agenda  | Employees |
|                        | The State of L  |  |                                      | 2                |                    |                      |               |           |
|                        |   |  |                                      |                  |                    |                      |               |           |
| In:                    | stitutional Research, Planning 8  | Institutional Effectiveness Sta        | ff External Data Resources           | Reports & Briefs | Data Visualization | s                    |               |           |
|                        | Institutional Review Board (IRB)  | (IE) <sup>2</sup>                      |                                      |                  |                    |                      |               |           |
| w                      | elcome to the Office of <b>Institutio</b>   | nal Research, Planning and Institu     | itional Effectiveness (IRPIE), the   |                  |                    |                      |               |           |
| pri                    | rimary source for information on i  | nstitutional effectiveness. We also:   |                                      |                  |                    | STRATEGIC PLAN       | <u>. N.S.</u> |           |
|                        | Provide access to data for ev   | vidence-based planning                 |                                      |                  |                    | 2019-2022            | No.           |           |
|                        | Assist departments with undepartments   | erstanding data                        |                                      |                  | r R.               |                      |               |           |
|                        | Support the district's plannin  |  |                                      |                  |                    |                      |               |           |
|                        | <ul> <li>Assist with accreditation nee</li> <li>Support grant requirements</li> </ul> | ds                                     |                                      |                  |                    |                      |               |           |
|                        | Support grant requirements  |  |                                      |                  |                    |                      |               |           |
|                        |   |  |                                      |                  | S                  | trategic Pla         | an            |           |
| С                      | Our Mission   |  |                                      |                  | Acc                | essible PDF   Flip B | Book          |           |
| lt i                   | is the mission of the Institutional   | Research, Planning and Institutional   | I Effectiveness Office at College of | of the           |                    |                      |               |           |
|                        |   | ity data for planning, and to assist d | lepartments in using data to infor   | m                | Educati            | ional and F          | acilities     |           |
| de                     | ecision-making processes.   |  |                                      |                  |                    | Master Plan          | l             |           |
|                        |   |  |                                      |                  | Acc                | essible PDF   Flip B | Book          |           |
|                        |   | Data On Demand                         |                                      |                  |                    |                      |               |           |
|                        | C   | Data Charts and Tables                 |                                      |                  |                    | SEA Plan             |               |           |
|                        |   |  |                                      |                  | Student E          | Equity and Achieve   | ment Plan     |           |
|                        |   | Student Data Highlights                |                                      |                  |                    |                      |               |           |
|                        |   | Review Reports by Topic                |                                      |                  | Strategic P        | lan Brainstorming    | Form (Draft)  |           |
|                        |   |  |                                      |                  |                    |                      |               |           |

#### Where are the Data? www.canyons.edu/data

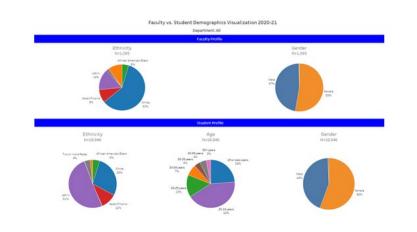
#### **Program Review Success/Retention Overview**



This visualization provides data on elements required for program review. Course success and retention rates, department details (FTE, sections, load etc.), Awards (degrees/certificates) and Programs of study (Majors across fall terms).

Data are refreshed annually in September when data ar academic year (summer through Spring terms).

#### Faculty vs. Student Demographics Visualization



#### Success/Retention Data For Fall Terms



This visualization provides fall-term data starting in 2017 on success rates, retention rates, grade distributions and enrollments. The data can be filtered by School, Dept, (online vs. on-ground), Race/Ethnicity, financial aid and special

Descriptions & Video tutorial links below thumbnails

#### Program Review Success/Retention Dashboard

Success & Retention Overview Success & Retention Department Details Trend Department Details Program Awards Award Earner Demographics Program/Majors Fall Terms



**Program Review Success/Retention Overview** 

This visualization provides data on elements required for program review. Course success and retention rates, department details (FTE, sections, load etc.), Awards (degrees/certificates) and Programs of study (Majors across fall terms).

Data are refreshed annually in September when data are complete for the preceding academic year (summer through Spring terms).

## New filters for Location/Mode

| Туре                                 | Mode  | Location  |               |            |                   |   |
|--------------------------------------|---|---|---------------|------------|-------------------|---|
| Synchronous                          |   |   |               |            |                   |   |
| (OnlineLive/ in-person)              | OnlineLive<br>Mixed (part in-person, part                                     | Online  |               |            |                   |   |
|                                      | OnlineLive)   | Valencia  |               |            | Filters           |   |
|                                      | On-ground/in-person   | Canyon Country  | Outo          | come       |                   |   |
|                                      |   | High School   | g Suc         | cess       |                   | • |
|                                      |   | Pitchess  | Year          | r          | (Multiple values) | • |
|                                      |   | Other (e.g. Cardinal school)  | Divi          | ision      | (All)             | • |
| Asynchronous (100% Online)           | Online 100%   | Online  | Tern          | m          | (All)             | • |
|                                      |   |   | Cou           | ırse #     | (All)             | • |
| Mixed (i.e. Hybrid,<br>fall/su2020*) | Hybrid (part in-person/OnlineLive,<br>part 100% Online)<br>Fall 2020 "Online" | Online<br>Valencia<br>Canyon Country<br>High School<br>Other (e.g. Cardinal<br>school)<br>Fall 2020 Virtual | (All)<br>Loca | )<br>ation | s/Asynchronous    | • |
| Other                                | Other (correspondence)  | Correctional Facility (   | Pitch         | ess et     | <mark>c.)</mark>  |   |

## Important Definitions/Notes

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. Weekly Student Contact Hours (WSCH) is the number of class hours each course is regularly scheduled to meet times enrollment. (Source: 320 Report).

2. Full-Time Equivalent Students Generated (FTES) is the calculation used by the state to determine funding levels per student. For California Community Colleges, one FTES represents 52: contact hours with students. It is important to note that FTES only applies to California residents. Apportionment cannot be claimed for non-California residents. Calculating FTES for straight lectu courses is done by multiplying the number of units for a course by the number of students in the class and then divide by 30. For example, an instructor teaching a 3 unit course with 20 students we equate to 2 FTES (3 units x 20 students=60/30=2 FTES). The calculation becomes a little more complicated when the section is not taught in a straight lecture format. (Source: 320 file)

3. **Full-Time equivalent Faculty (FTEF)** is calculated using the number of contact hours per week with students. One FTEF for a semester is equivalent to 15 equated (adjusted for lab hours) teaching hours. (Sources: UXE files). FTEF has been annualized to account for factor of 15 teaching hours used in the FTEF measure used in primary terms. At the request of the Program Review committee all terms are included in program review data (summer, fall, winter and spring), not just primary terms. Primary terms are fall and spring.

4. Instructional Load is a measure of efficiency and can be thought of as a ratio of how many students faculty members teach. Specifically, load is Weekly Student Contact Hours (WSCH) divide Full-time Equivalent Faculty (FTEF). In the simplest example, if a faculty member teaches five 3-unit classes and each class has 35 students, the load would be 525. The Load measure has been annualized to account for factor of 15 teaching hours used in the FTEF measure. (Sources: UXE and 320 data files)

5. Course Retention is defined as the percent of students retained in courses out of total enrolled in courses: Numerator = Number of students (duplicated) with A, B, C, D, F, I, CR/P, FW, NC/N Denominator = Number of students (duplicated) with A, B, C, D, DR, F, I, W, CR/P, FW, NC/NP. Students who drop prior to the first census are not counted. (Sources: USX files.)

6. **Course Success** is defined as the percent of students <u>successful</u> in courses out of total enrolled in courses: Numerator = Number of students (duplicated) with A, B, C, CR/P; Denominator = Number of students (duplicated) with A, B, C, D, DR, F, FW, CR/P, NC/NP, W, I. Students who drop prior to the first census are not counted. (Sources: USX files.)

7. Number of online sections refers to sections coded as 100% online (Source: 320 Report).

Number of sections is the total number of sections offered in the department. Note that cross-listed sections within a department are combined. If the sections are cross-listed in two different departments, the section is counted in both departments. (Source: 320 Report).

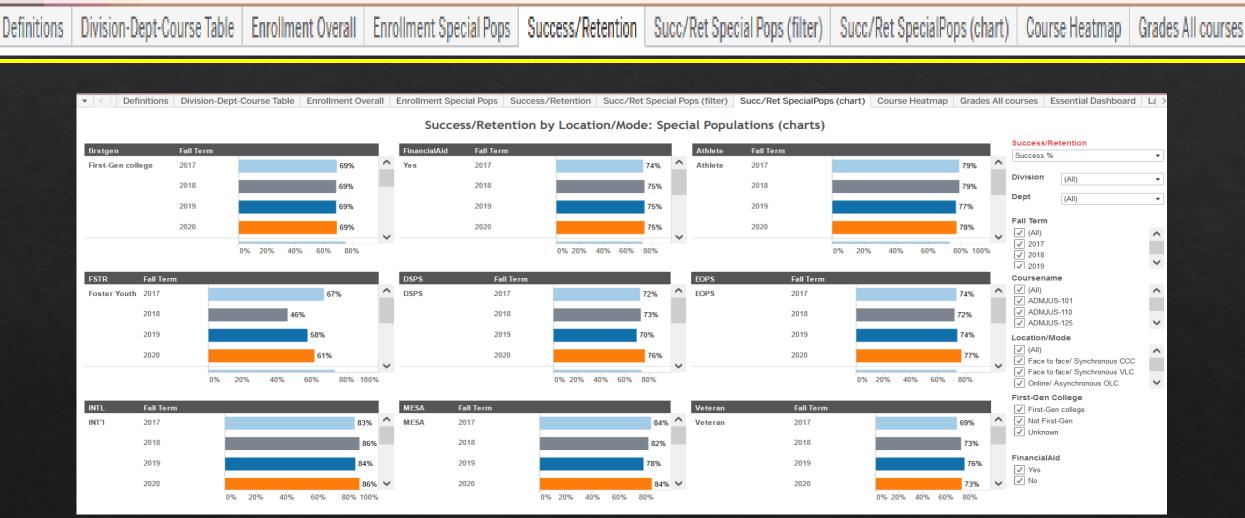
Average class size is the median number of students enrolled in classes in the department. Cross-listed sections within a department are combined for the purposes of computing the averag class size. Sections cross-listed across departments are not combined, although the use of the median rather than the mean minimizes these effects. (Source: 320 Report).

10. Annual awards include awards for an academic year awarded from summer through spring. For example, Summer 2016, Fall 2016, Winter 2017, and Spring 2017. (Source: Informer Degre and Certificates report).

11. Total Students with Declared Major reflects the number of students with declared majors offered by the department. These data are pulled from Datatel using the most current primary term reflect data at the time it was pulled (e.g., Fall 2018 data were pulled in September 2018).

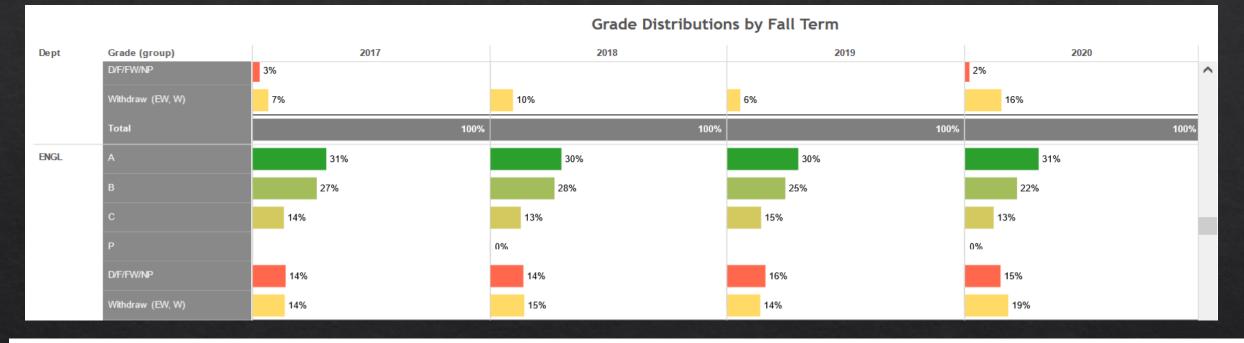
12. Department Student Headcount reflects the unduplicated number of students with an active registration (registration status=Add or New Add at census) enrolled in courses within a department

## Success & Retention Data for Fall Terms- Dashboard

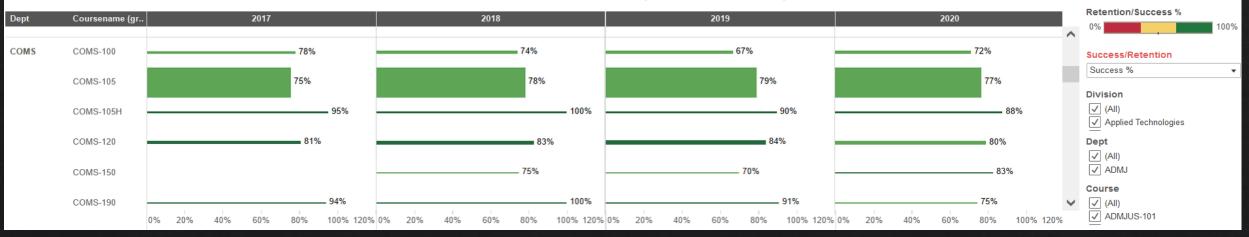


4 fall terms 2017 - 2020

## Fall Success & Retention- Grades & Heatmap



#### Course Success/Retention by Fall term (Heatmap)



## Context & Data

- Longitudinal (e.g. Changes in headcount, changes in class sizes/sections/changes in demographics)
- ♦ In comparison to what? (e.g. other departments, prior years, college as a whole).
- ♦ Triangulating other data to tell a full story:
  - ♦ How do these data relate to other outcomes for your department (e.g., SLOs/new courses or archiving of courses/labor market/external factors).

## Disproportionate Impact

- ♦ What is it?
- ♦ Where can you find flags for this in Data Visualization?
- ♦ Where else to look for it?
- ♦ What to do about it?

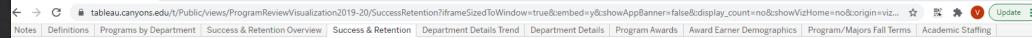
## Disproportionate Impact

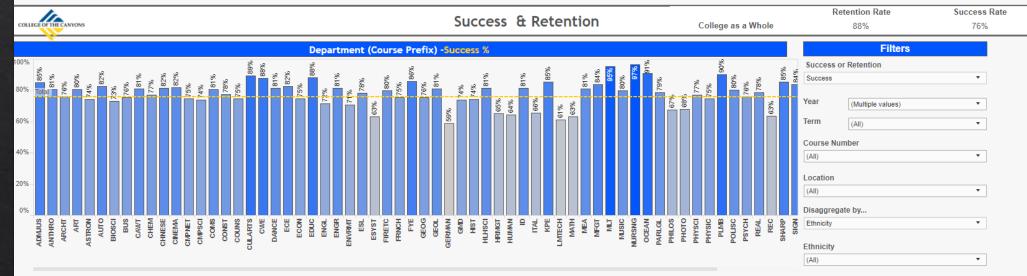
- When one group of students attains an outcome at a rate that is substantially lower than the benchmark rate that subgroup may be referred to as "disproportionately impacted".
- Differences in educational outcomes between subgroups of students may suggest that one group
  - ♦ has less access to support services/key resources,
  - ♦ is in need of relatively greater support, and/or
  - ♦ must address certain obstacles in order to attain those outcomes at rates comparable to their peers.

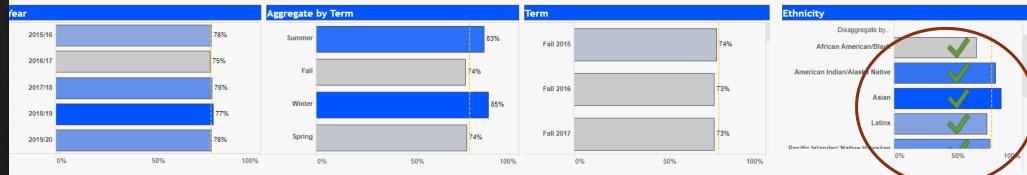
## Disproportionate Impact

- Within Tableau D.I. is called out in the Success & Retention Tab indicated by checkmarks for (no D.I.) or exclamation points (yes, D.I.).
- 80% Proprotionality Index = target group representation among successes/target group
   representation within enrollments (or cohort).
- ♦ Addresses the question: "If a subgroup represents 45% of the student body, does that subgroup represent at least 45% of the students who successfully complete the course?

## Where is D.I. found in Tableau







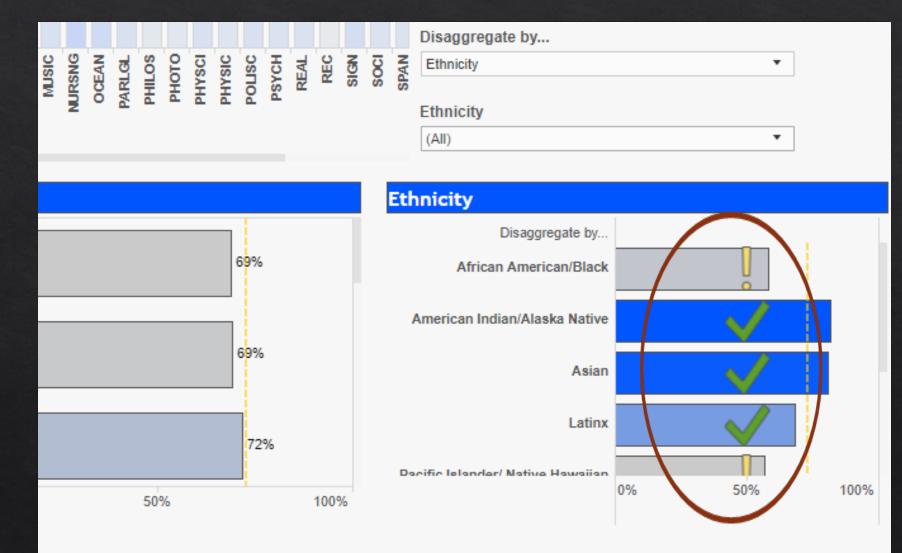
Excludes: Noncredit courses, In-Service Agreement (ISA) students, Students with a registration other than 'Add/New Add', excludes 'Drops'

.ocation Filter: Online includes 100% online only, HYBRID sections are included in on-ground meeting location; SP2020 Location is section location at the beginning of the spring term before the transition to remote/online operations (on March 16th, 2020), with the exception of essential infrastructure sections (e.g. Welding, EMT, lursing) that returned to physical locations mid to late spring.

SP2020 Grade EW: COVID19 denominator includes EWs

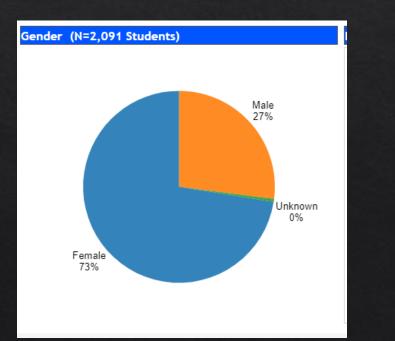
辩 Workbook: Program Review Visua 🗙 🛛 🕂

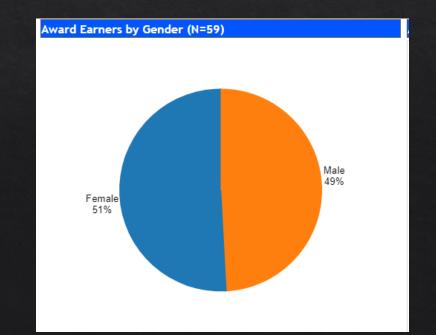
## Where is D.I. found in Tableau



## D.I. Also by Comparing

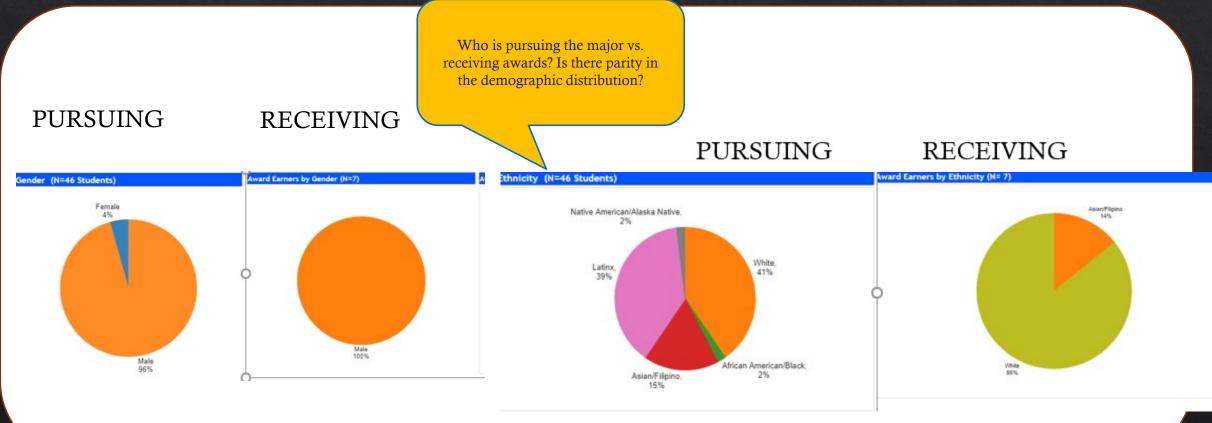
- Demographic Proportions of "Program Majors" and demographic proportions of "Award Earners" (Data found in two tabs).
- ♦ For the same Department females are 73% of those pursuing Major X, however, for that year females are only 51% of the award earners.
- .51/.75 = .69 (Lower than our .80 threshold) some evidence for D.I.
- ♦ Context would be looking at the trend over time is this improving worsening etc.





For your Department, describe trends including growth/decline in:

- a) Student achievement and success (retention, course success, degrees/certificates completed, transfer).
- b) How do these trends compare to the college as a whole?



#### Things to Consider when seeing D.I.

- Is disaggregating of course level data unanimously understood and adopted within your department?
- Have conversations been had surrounding disaggregating and increased support for target groups? If so, can these changes in the classroom be uniformly agreed on within the department and then implemented?
- Are COC Basic Needs and additional resources included within course syllabi?
- Is an effort to connect background/identity of target groups to the course material being made?
- Researching best practices to reduce equity gaps within your discipline (specialized support).
- Patterns you may see in Course Assignments (e.g., SLOs)  $\rightarrow$  affect success retention.

## Things to Reflect on

- ♦ To what extent is there disproportionate impact for achievement or outcome indicators? If there is disproportionate impact, what can be done to minimize it?
- Siven the trends in the student achievement outcomes, what are your ideas for improving student completion in your programs?
- ♦ Use of Data: How is the department/program using and incorporating data from assessments in decision making/planning?

For your Department, describe trends including growth/decline in:

- a) Number of students served (measured by headcount and FTES),
- b) Instructional load (measured by instructional load and class size),
- c) How do these trends compare to the college as a whole?

|            | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |
|------------|---------|---------|---------|---------|---------|
| Surv       |         |         |         |         |         |
| FTES       | 14.15   | 22.55   | 22.97   | 31.61   | 36.67   |
| Headcount  | 61      | 77      | 81      | 104     | 154     |
| Class size | 12      | 16      | 13      | 18      | 19      |
| Inst. Load | 193     | 216     | 207     | 261     | 283     |
| College    |         |         |         |         |         |
| FTES       | 14093.5 | 14064.8 | 14060.7 | 13742.4 | 13524.1 |
| Headcount  | 23,927  | 24,566  | 24,551  | 24,780  | 24,634  |
| Class size | 27      | 27      | 25      | 24      | 26      |
| Inst. Load | 434     | 402     | 368     | 355     | 376     |

FTES, headcount and class size are all smaller than the college as a whole. Longitudinal trend data illustrates however, that these all have increased over the last 5 years. Survey headcount has increased by 152% while headcount has increased 3% for the college as a whole. While both Survey and the College saw a dip in their instructional load (efficiency) in 2017/18 Instructional load has increased 47% across the 5-years for Survey. It is still making its way back up to the 2015 baseline for the college as a whole.

For your Department, describe trends including growth/decline in:

- a) Student achievement and success (retention, course success, degrees/certificates completed, transfer).
- b) How do these trends compare to the college as a whole?

|           | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |   |
|-----------|---------|---------|---------|---------|---------|---|
| Surv      |         |         |         |         |         |   |
| Success   | 85%     | 83%     | 83%     | 83%     | 76%     |   |
| Retention | 87%     | 94%     | 93%     | 93%     | 83%     |   |
| College   |         |         |         |         |         |   |
| Success   | 76%     | 75%     | 76%     | 77%     | 76%     | ] |
| Retention | 89%     | 88%     | 89%     | 89%     | 88%     |   |

Success has seen a 10% decrease over these five years and retention was at its' lowest in 2019/20, lower than the baseline 2015/16 low. For the college as a whole success and retention rates have remained stable.

For your Department, describe trends including growth/decline in:

- a) Student achievement and success (retention, course success, degrees/certificates completed, transfer).
- b) How do these trends compare to the college as a whole?

|           | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | Avg |
|-----------|---------|---------|---------|---------|---------|-----|
| Surv      |         |         |         |         |         |     |
| Success   | 85%     | 83%     | 83%     | 83%     | 76%     | 82% |
| Retention | 87%     | 94%     | 93%     | 93%     | 83%     | 90% |
| College   |         |         |         |         |         |     |
| Success   | 76%     | 75%     | 76%     | 77%     | 76%     | 76% |
| Retention | 89%     | 88%     | 89%     | 89%     | 88%     | 89% |

Success has seen a 10% decrease over these five years and retention was at its' lowest in 2019/20, lower than the baseline 2015/16 low. For the college as a whole success and retention rates have remained stable. While survey has not seen increases in success or retention the overall average success and retention for the survey Department is higher than for the College as a whole.

For your Department, describe trends including growth/decline in:

- a) Student achievement and success (retention, course success, degrees/certificates completed, transfer).
- b) How do these trends compare to the college as a whole?

| Success                 | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | 5-yr Avg  |
|-------------------------|---------|---------|---------|---------|---------|-----------|
| Surv                    | D.I.    | D.I.    | D.I.    | D.I.    | D.I.    | D.I.      |
| AfricanAm/Bl            | *       | Yes     | No      | No      | No      | No        |
| Latinx                  | No      | No      | No      | No      | No      | No        |
| White                   | No      | No      | No      | No      | No      | No        |
| Asian                   | No      | No      | No      | No      | No      | No        |
| American Indian/Alaskan | *       | *       | Yes     | *       | Yes     | Yes low N |
| Unknown                 | *       | *       | Yes     | *       | No      | No        |
| Two or More             | No      | No      | No      | No      | No      | No        |
| *no students            |         |         |         |         |         |           |
|                         |         |         |         |         |         |           |
| Success                 | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | 5-yr Avg  |
| College                 | D.I.    | D.I.    | D.I.    | D.I.    | D.I.    | D.I.      |
| AfricanAm/Bl            | No      | No      | No      | No      | No      | No        |
| Latinx                  | No      | No      | No      | No      | No      | No        |
| White                   | No      | No      | No      | No      | No      | No        |
| Asian                   | No      | No      | No      | No      | No      | No        |
| American Indian/Alaskan | No      | No      | No      | No      | No      | No        |
| Unknown                 | No      | No      | No      | No      | No      | No        |
| Two or More             | No      | No      | No      | No      | No      | No        |

Other patterns to look for besides DI are whether students from certain demographics are present at all within the course/program or major. For example there were no Black students until 2016/17 and no American Indian until 2017/18 both of the "first years" showed DI.

For your Department, describe trends including growth/decline in:

- a) Student achievement and success (retention, course success, degrees/certificates completed, transfer).
- b) How do these trends compare to the college as a whole?

| COLLEGE OF THE CANYONS |         | Program Awards |         |         |         |         |         |         |   |  |  |  |  |
|------------------------|---------|----------------|---------|---------|---------|---------|---------|---------|---|--|--|--|--|
| Award Overview         |         |                |         |         |         |         |         |         |   |  |  |  |  |
| Awardtype              | 2011/12 | 2012/13        | 2013/14 | 2014/15 | 2015/16 | 2016/17 | 2017/18 | 2018/19 |   |  |  |  |  |
| AA/AS Degree           | 11      | 5              | 6       | 11      | 7       | 14      | 15      | 12      |   |  |  |  |  |
| Cert. of Achievement   | 16      | 11             | 13      | 10      | 15      | 21      | 19      | 18      | 2 |  |  |  |  |

Delimiting to the same 5 year period of 2015/16-2019/20 Survey went from a total of 4 awards to 13 (225% increase). Further Survey made up 18% of Engineering Technology awards in 2015/16 however Survey awards make up 36% of Engineering Tech awards in 2019/20. Their awards are growing in raw number and the proportion of awards within Engineering Technologies.

|                          | Award Detail         |              |    |         |         |         |         |         |         |         |         |         |  |
|--------------------------|----------------------|--------------|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| Dept §                   | Program Title        | Awardtype    | Â  | 2011/12 | 2012/13 | 2013/14 | 2014/15 | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |  |
| ENGTC                    | Land Surveying       | AA/AS Degree |    | 2       | 1       |         | 2       | 2       | 3       | 2       | 5       | 6       |  |
|                          | Cert. of Achievement |              | 1  |         | 1       | 2       | 2       | 2       | 4       | 6       | 7       |         |  |
| Water Systems Technology | AA/AS Degree         |              | 9  | 4       | 6       | 9       | 5       | 11      | 13      | 7       | 9       |         |  |
|                          | Cert. of Achievement |              | 15 | 11      | 12      | 8       | 13      | 19      | 15      | 12      | 14      |         |  |

For your Department, describe trends including growth/decline in:

- a) Student achievement and success (retention, course success, degrees/certificates completed, transfer).
- b) How do these trends compare to the college as a whole?

| COLLEGE OF THE CANYONS |         | Program Awards |         |         |         |         |         |         |   |  |  |  |  |
|------------------------|---------|----------------|---------|---------|---------|---------|---------|---------|---|--|--|--|--|
| Award Overview         |         |                |         |         |         |         |         |         |   |  |  |  |  |
| Awardtype              | 2011/12 | 2012/13        | 2013/14 | 2014/15 | 2015/16 | 2016/17 | 2017/18 | 2018/19 |   |  |  |  |  |
| AA/AS Degree           | 11      | 5              | 6       | 11      | 7       | 14      | 15      | 12      |   |  |  |  |  |
| Cert. of Achievement   | 16      | 11             | 13      | 10      | 15      | 21      | 19      | 18      | 2 |  |  |  |  |

Delimiting to the same 5 year period of 2015/16-2019/20 Survey went from a total of 4 awards to 13 (225% increase). Further Survey made up 18% of Engineering Technology awards in 2015/16 however Survey awards make up 36% of Engineering Tech awards in 2019/20. Their awards are growing in raw number and the proportion of awards within Engineering Technologies.

|                          | Award Detail         |              |    |         |         |         |         |         |         |         |         |         |  |
|--------------------------|----------------------|--------------|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| Dept §                   | Program Title        | Awardtype    | Â  | 2011/12 | 2012/13 | 2013/14 | 2014/15 | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |  |
| ENGTC                    | Land Surveying       | AA/AS Degree |    | 2       | 1       |         | 2       | 2       | 3       | 2       | 5       | 6       |  |
|                          | Cert. of Achievement |              | 1  |         | 1       | 2       | 2       | 2       | 4       | 6       | 7       |         |  |
| Water Systems Technology | AA/AS Degree         |              | 9  | 4       | 6       | 9       | 5       | 11      | 13      | 7       | 9       |         |  |
|                          | Cert. of Achievement |              | 15 | 11      | 12      | 8       | 13      | 19      | 15      | 12      | 14      |         |  |