

## Annual Program Review

### Dean's Report 2018-19

#### Division of Business, Computer Science and Applied Technologies

The Division of Business, Computer Science, and Applied Technologies hosts six departments which are Accounting, Automotive Technology, Business, Computer Information Systems, Design and Manufacturing Technologies, and Real Estate. Each program offers multiple degrees and certificates. Several of the programs from all of the six programs were recognized for their contribution to the Career Technical Education Workforce and increasing living wages by the California Community Colleges' Star rating.

Bronze Stars were awarded for most programs in Accounting, Business, CIS, Real Estate, Automotive Technology, and Silver Stars were awarded for five programs including Business, CIS, and Design and Manufacturing Technologies. According to the California Community College Chancellor's Office (2018):

Every California community college career education certificate or degree was analyzed to identify programs where graduates met one or more thresholds related to economic mobility:

- An increase in earnings by 50% or more
- Attainment of the regional living wage by 70% or more
- 90% or more were employed in a job similar to their field of study

This has been accomplished as a result of the faculty's dedication and vision of workforce demand, and their ability to create innovative curriculum relevant to advancements in their field and in collaboration with the departments' advisory boards.

According to the College's Institutional Research, the division awards over a third of all degrees and certificates awarded by the college (see Table 1).

	2013-14	2014-15	2015-16	2016-17	2017-18
<b>De Anza Total</b>	2064	2390	2328	2753	2815
<b>Business, CS, and Applied Technologies</b>	782	959	960	1070	1058
<b>Percentage</b>	<b>33%</b>	<b>41%</b>	<b>35%</b>	<b>38%</b>	<b>38%</b>

**Table 1:** Total Degrees and Certificates Awarded by De Anza College and the 2CB+2AT Division

Additionally, the Division offers **over 50%** of the College's Associate Transfer Degrees (see Table 2).

Major	Degree Group	2013-14	2014-15	2015-16	2016-17	2017-18
2AJT - Admin of Justice	Associate in Science	5	15	25	35	48
2AOT - Anthropology	Associate in Arts					2
2BAT - Business Admin	Associate in Science	82	151	226	285	341
2CMS - Communication Studies	Associate in Arts	24	23	45	65	94
2CST - Computer Science	Associate in Science			7	13	24
2ECT - Early Childhood Ed	Associate in Science		3	9	22	25
2EGT - English	Associate in Arts			6	17	11
2EOT - Economics	Associate in Arts					7
2HST - History	Associate in Arts	1	4	11	9	22
2JRT - Journalism	Associate in Arts			1	1	6
2KIN - Kinesiology	Associate in Arts	11	23	31	44	37
2MTH - Mathematics	Associate in Science	4	17	17	16	22
2PST - Political Science	Associate in Arts	4	9	12	36	32
2SCT - Sociology	Associate in Arts	3	11	21	36	58
<b>De Anza Total ADT Degrees Awarded</b>		<b>134</b>	<b>256</b>	<b>411</b>	<b>579</b>	<b>729</b>
<b>ADT Degrees Awarded by The Division of Business, CS, and Applied Technologies</b>		<b>82</b>	<b>151</b>	<b>233</b>	<b>298</b>	<b>365</b>
<b>Percentage</b>		<b>61%</b>	<b>59%</b>	<b>57%</b>	<b>51%</b>	<b>50%</b>

**Table2:** ADT Degrees Awarded by De Anza College and the 2Cb+2AT Division

### Challenges:

1. **Enrollment.** A 5-year enrollment trend is presented in Tables 3a and 3b.

	2013-14	2014-15	2015-16	2016-17	2017-18	5-yr % Inc
<b>Computer Information System</b>	5,677	7,443	8,349	8,625	8,914	57%
<b>Real Estate</b>	656	620	489	522	492	-25%
<b>Business</b>	5,817	5,973	6,196	5,506	5,575	-4%
<b>Accounting</b>	5,821	5,654	5,285	5,174	5,134	-12%
<b>Total</b>	<b>17,971</b>	<b>19,690</b>	<b>20,319</b>	<b>19,827</b>	<b>20,115</b>	<b>6%</b>

**Table 3a.** 2CB Enrollment Trend

	2013-14	2014-15	2015-16	2016-17	2017-18	5-yr % Inc
<b>Automotive Technologies</b>	2,427	2,385	2,201	1,991	1,905	-22%
<b>Design and Manufacturing Technologies</b>	N/A	N/A	1,397	1,551	1,396	0%
<b>Applied Technologies Total</b>	<b>3,541</b>	<b>3,403</b>	<b>3,709</b>	<b>3,542</b>	<b>3,301</b>	<b>-7%</b>

**Table 3a.** 2AT Enrollment Trend

Although there has been an overall decline in the college's enrollment, the 2CB enrollment has been up 6% over a 5-year average. The faculty are taking the lead to explore various approaches to increase enrollment. Changes to the Applied Technologies program scheduling and introducing non-credit course offerings has resulted in a significant increase in enrollment by as high as 15%. Offering 6-week courses in the Business department has created a slightly positive increase. There has been resistance in other programs, but there is a plan to offer such courses in Accounting. There is also a plan to create non-credit courses in Computer Information Systems (the project management certificates) and Real Estate.

- 2. Closing the Equity Gap.** Although there has been some improvement toward closing the equity gap, the 2CB division equity gap continues to be higher than the college's gaps. The 2AT equity gap, however, is much lower than the college's equity gap. Accounting and Business have the largest equity gap, with the last two years showing some improvement. Embedded tutoring and various approaches in the implementation phase which require CTE Strong Workforce Funding should help in closing the equity gap in those programs. Tutoring in the CIS program has shown to have a significant positive impact on the success rate of the program. There is a significant amount of work that needs to be done to further close the equity gap.

The college move into hiring dedicated counselors for each division has not been consistently implemented as some divisions now have five (5) counselors while a division such as 2CB has none. Although those divisions have dedicated counselors, their students also continue to use general counselors, which further reduces the opportunity for the 2CB division students to receive adequate academic counseling. I urge and request that the college be consistent in allocating academic counselors for all divisions. A dedicated counselor(s) to the division would help in closing the equity gap and would put its students on a successful pathway to graduation.

The division is also applying for various grants to create programs that would help in closing the equity gap.

- 3. Impact of Faculty Retirement.** Two of the Accounting faculty and one of the Automotive Technology faculty have opted for the early retirement program. Additionally, Automotive Technology has lost an additional faculty who has accepted the position of the Dean of Career Technical Education. A significant impact on those two programs is expected since there are fewer full-time faculty to share day-to-day duties such as serving on committees, conducting adjunct faculty evaluations, and curriculum development. The division requests that the college put a high priority on hiring faculty for such programs when resources are available.

4. **Financial Resources.** With the B-budget and funds from Strong Workforce, Lottery, and other resources, there are sufficient funds available to the division. Each of the departments/program in the division has submitted a resource allocation request as part of the 2018-19 program review. It is important for the success of those programs, that the college continue its support through adequate financial support.
5. **Others.** 100% of the programs SLO were completed on time. All annual program reviews have also been submitted by the due date.

Should the Instruction Planning and Budget Committee have any questions regarding any of the Division program reviews, please contact the division Dean.