ANNUAL PROGRAM REPORT

College	College of Science

3. Both Dr. Tandon and Dr. Sumarsono have successfully published their research at multiple conferences and in multiple journal articles. Additionally, Dr. Doering has continued to develop his free chip design and his free MIPS simulator tools such that students in the Computer engineering program may continue to use quality software for free.
4. The COVID19 pandemic caused student enrollment to drop by approximately 15% but enrollment is down across all majors. As students return to campus, we expect the program to increase enrollment faster than other programs in the engineering department. We are developing a plan to perform recruitement

C. **Program Changes and Needs**

Report on changes and emerging needs not already discussed above. Include any changes related to SB1440, significant events which have occurred or are imminent, program demand projections, notable changes in resources, retirements/new hires, curricular changes, honors received, etc., and their implications for attaining program goals. Organize your discussion using the following subheadings.

Overview: The most significant change was the reorganization of course prerequisites. Due to the unreasonably long time to graduation due to the course requirements, We noticed this deficiency and figured out that some of the course prerequisites in the program were overly conservative, we took steps to remedy the situation. Now a students have a shorter time to graduation and (we expect) they will be able to graduate faster.

Curriculum: This past year, the most major change was the recognition that CMPE 321 and CMPE 322 were a lecture/lab class pair that complimented each other. In order to reduce the probability that students would be held back an extra year due to prerequisites not being allowed, the two classes have been merged into a single class: CMPE 323. Additionally, prerequisites for classes were reviewed to reduce year-over-year dependencies between classes. The following prerequisite changes were implemented: CMPE 492 now requires CMPE 330; CMPE 344 now requires only CS 201.

Students: As indicated in the previous section, the student enrollment fell due to the COVID19 pandemic. However, this is not unique to the program. We fully expect enrollment to continue growing as things return to a new normal.

Faculty: No significant changes in faculty for the program since the previous 5-year assessment.

Staff: Our department administrator is now shared with Computer Science as well as other programs in the school of Engineering (undergraduate and graduate programs in Industrial Engineering and Construction Management and Civil Engineering). Also, we have an engineering technician who is responsible for managing lab hardware, and purchases, and information technology. The department administrator has changed once, and the

Resources: *(facilities, space, equipment, etc.)* We have brought up the new quadcopter/drone lab which has a working quadcopter drone cage. The College of Science Dean decided to close the quadcopter drone cage and is moving us to a smaller space in the Applied Sciences building. Individual faculty will have a smaller number of work benches to work on in the shared space.

Assessment: We have submitted our ABET self-study report to the accreditation commission and the program has been reviewed by the representatives. We received ABET accreditation for another 5 years.

Other: *(e.g., major program modifications)* none.

II. SUMMARY OF ASSESSMEN[6 ( )o8.8Tc -0Tw2ncASesoedeper prup teUMessiAS Tf20Td[Tw2nEht 7d ou 72so 72Tc4T

Assessed. *List the PLO(s) assessed. Provide a brief background on your program's history of assessing the PLO(s) (e.g., annually, first time, part of other assessments, etc.)*

Course: CMPE 493
Semester: Spring, 2023
Item: Ethics paper

Score	# of Students
	0
	4
	0
	13
Total Students	
Average Score	
Score of 3 or Higher	

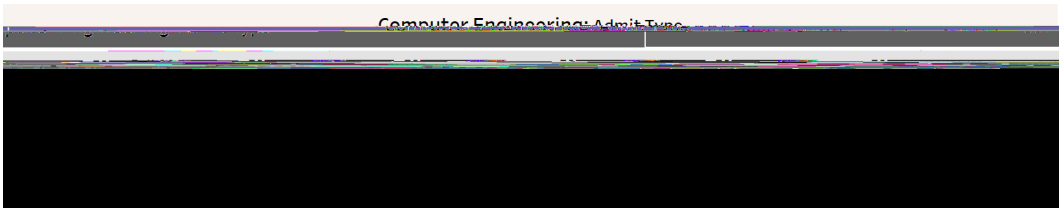
C. **Summary of Assessment Results**
Summarize your assessment results briefly using the following sub-headings.

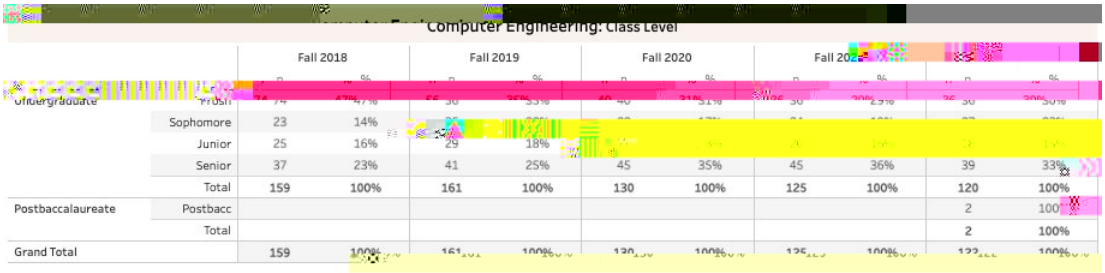
Main Findings:
Most students in this class demonstrated an ability to meet the objective of the assignment. They offered analysis and conclusions showing their adequate understanding on the subj although there is room for improvement in the depth and coherency of their thinking.

Next Step(s) for Closing the Loop: *(recommendations to address findings, how & when)*
Offer published articles on this subject for students to read as a framework for their thinking. The can then integrate these articles with their own ideas and analysis to formulate the discussion in their papers.

D. **Assessment Plans for Next Year**
Summarize your assessment plans for the next year, including the PLO(s) you plan to assess, any revisions to the program assessment plan presented in your last five-year plan self-study, and any other relevant information.

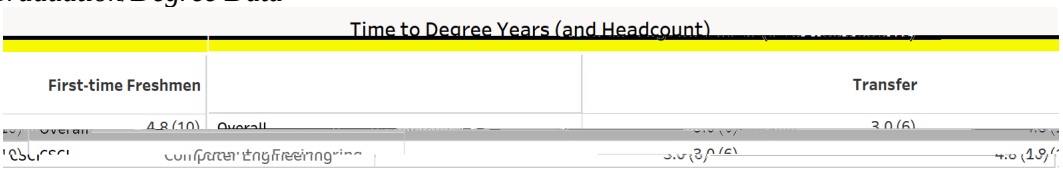
We plan to continue assessment with midterm exam questions and final exam questions where feasible for individual wrk for PLO 4.This PLO is defined as an ability to function effectively

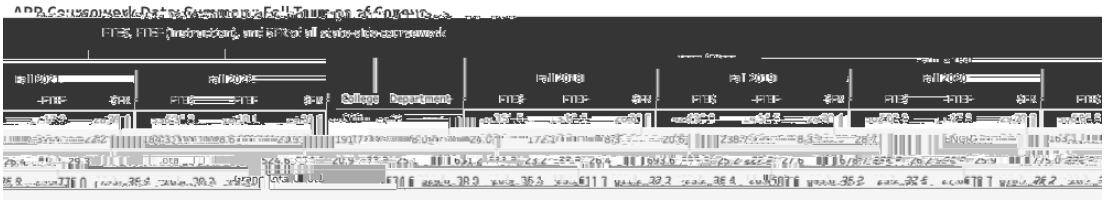




		Fall 2018		Fall 2019		Fall 2020		Fall 2021		Fall 2022	
Undergraduate	Freshman	74	47%	56	35%	66	51%	50	40%	50	42%
	Sophomore	23	14%	30	18%	22	17%	24	19%	23	19%
	Junior	25	16%	29	18%	22	17%	26	21%	18	15%
	Senior	37	23%	41	25%	45	35%	45	36%	39	33%
	Total	159	100%	161	100%	130	100%	125	100%	120	100%
Postbaccalaureate	Postbacc									2	100%
	Total									2	100%
Grand Total		159	100%	161	100%	130	100%	125	100%	122	100%

Graduation/Degree Data

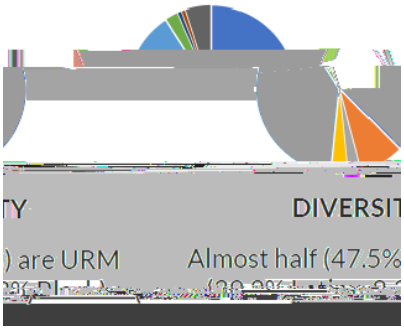




Reflections on Trends and Program Statistics:
Provide your reflections on the trends discussed above and statistics and supplemental information presented in this report.

During the COVID19 pandemic we realized a loss of students due to a number factors beyond our contr which impacted enrollment. This trend was common across all the university enrollment. It should be noted that we see an upward trend from F2021 to F2023 by 2%. We forecast that there will be another 2 or more increase in enrollment.

From the census collected in CMPE classes for Fall 2023 indicate that we have a large number of underrepresented minorities in the major which comports with the greater population of CSU East Bay



B. **Request for Resources** *(suggested length of 1 page)*

1. Request for Tenure-Track Hires: provide evidence from trends provided
   Due to an enrollment drop that can be attributed to COVID-19, no requests for tenure-track hires
   at this time. We expect student enrollment to start increasing again based on pandemic trends.

2.