UNIVERSITY OF SAN FRANCISCO | College of Arts and Sciences

<NAME OF YOUR PROGRAM/DEPARTMENT/MAJOR OR MINOR>

ASSESSMENT REPORT
ACADEMIC YEAR 2018 – 2019

I. LOGISTICS

1. **Please indicate the name and email of the program contact person to whom feedback should be sent (usually Chair, Program Director, or Faculty Assessment Coordinator).**

   EJ Jung, ejung2@usfca.edu, Chair and Faculty Assessment Coordinator of CS dept.

2. Please indicate if you are submitting report for (a) a Major, (b) a Minor, (c) an aggregate report for a Major & Minor (in which case, each should be explained in a separate paragraph as in this template), (d) a Graduate or (e) a Certificate Program

(d) Graduate

3. Please note that a Curricular Map should accompany every assessment report. Has there been any revisions to the Curricular Map?

No changes were made.

II. MISSION STATEMENT & PROGRAM LEARNING OUTCOMES

1. Were any changes made to the program mission statement since the last assessment cycle in October 2018? Kindly state "Yes" or "No." Please provide the current mission statement below. If you are submitting an aggregate report, please provide the current mission statements of both the major and the minor program

Mission Statement (Major/Graduate/Certificate):

No.

The mission of the MS in Computer Science graduate program is:

To provide students a strong theoretical background in computer science and deep technical programming skills by focusing on one-on-one student interaction and fostering the unique capabilities of each student.

Our mission statement coincides with the university mission to give students the knowledge and skills needed to succeed as professionals, and we are sensitive to the needs of our extremely diverse student population.

2. **Were any changes made to the program learning outcomes (PLOs) since the last assessment cycle in October 2017? Kindly state "Yes" or "No." Please provide the current PLOs below. If you are submitting an aggregate report, please provide the current PLOs for both the major and the minor programs.**

Based on FDCD's feedback, we rephrased one of the PLOs.

Students who graduate with a MS in Computer Science will be able to:

Demonstrate advanced knowledge in a breadth of topics in computer science, including theory, systems, and development.

Master at least one area of specialization in computer science. Demonstrate ability to independently solve advanced problems in academia or industry.

Demonstrate ability to learn, use, and adapt emerging developments in the state-of-the-art in computer science.

3. **State the particular Program Learning Outcome(s) you assessed for the academic year 2018-2019.**

Demonstrate ability to independently solve advanced problems in academia or industry.

III. METHODOLOGY

Describe the methodology that you used to assess the PLO(s).

This learning outcome is very difficult to assess directly, since most of the advanced problems students solve in industry are trade secrets and are confidential. We relied on the feedback from the industry sponsors and did indirect assessment.

IV. RESULTS & MAJOR FINDINGS

What are the major takeaways from your assessment exercise?

Level	Percentage of Students
Complete Mastery of the outcome	100% (7/7)
Mastered the outcome in most parts	
Mastered some parts of the outcome	
Did not master the outcome at the level intended	

Results (Major/Graduate/Certificate):

All students received satisfactory feedback from sponsors. Here are some sample feedbacks showing that students demonstrated ability to independently solve advanced problems. The sensitive information is redacted.

- [Student] has worked on [a service] with a team of 7 Software Engineers and **significantly contributed to codebase**. He has been fast to adopt and to learn Software Development best practices followed by the team.
- [Student] is extremely smart and **takes ownership immediately** to what she works on.
- [Students] worked with one of our product managers who gave the requirements. They then work with our UX designer to **create detailed specifications**

V. CLOSING THE LOOP

1. Based on your results, what changes/modifications are you planning in order to achieve the desired level of mastery in the assessed learning outcome? This section could also address more long-term planning that your department/program is considering and does not require that any changes need to be implemented in the next academic year itself.

The current trend in software development is not only focused on the independence, but also on the collaboration. Most development projects are team efforts, and the sponsors recognize team players more than the individual contributors. CS faculty will discuss if we should revise the PLO to more specifically include the collaboration aspect.

2. What were the most important suggestions/feedback from the FDCD on your last assessment report (for academic year 2016-2017, submitted in October 2017)? How did you incorporate or address the suggestion(s) in this report?

Based on FDCD's feedback from 2016-2017, we rephrased one of the PLOs.