Computer Science – Implementation Plan

We have a range of improvements we would like to work in in the CS program, over the coming years. Some of these improvements are higher priorities than others, and / or more amenable to progress without additional funding.

During the next APR cycle, we plan to:

1. Hire more tenure track faculty.
2. Review our lower division and introductory courses to more carefully and thoroughly structure the course learning outcomes to ensure students are prepared for their upper division courses.
3. Revise our Program Learning Outcomes.
4. Continue development of improved upper division GE course offerings.
5. Explore developing an ethics course specific to computing field(s).
6. Expand our elective course offerings, including new courses for our new Cybersecurity concentration and minor.
7. Consider developing additional concentrations, such as Data Science, Machine Learning and/or Artificial Intelligence.
8. Continue exploring, with Liberal Studies faculty, developing a concentration in Computer Science Education.
9. Consider revising and/or expanding our mathematics requirements, with particular attention to requiring more discrete structures or alternate mathematical specialties.
10. Review program curriculum to keep it current with nationwide CS degree trends, and to update areas of focus.
11. Enhance our coordination with CS faculty at local community colleges.
12. Continue development of our student learning assessment practices.
13. Apply for grant monies to support the use of more high-impact practices, such as student instructional support in classes and additional tutoring.

:epl 10122023