

Information Technology



2019

ANNUAL REPORT OF PROGRAM DATA



UNIVERSITY of HAWAII®
HAWAII
COMMUNITY COLLEGE

1. Program Description

The Information Technology program is a career-laddered, competency-based program that provides training in the use and support of business-related computer systems, data communication networks (including local area networks), and the development of business computer information systems programs using procedural, event-driven and object-oriented programming techniques. The program includes a combination of business, computer, and information technology courses. Campus-based computer and networking projects, faculty supervised laboratories, and workplace internships provide hands-on experience designed to prepare students for positions in computer support, programming, network administration, or systems development in a business information technology system. The program focuses on computers and information technology as tools to solve business problems.

Information Technology (IT) Program Learning Outcomes

- Information Systems: Plan, develop, and implement the hardware, software, and procedural components of a data processing system in a business environment.
- Networking: Plan, develop, and implement the hardware, software, and procedural components of a data communications system in a business environment.
- Programming: Plan, develop, implement, and document computer programs that meet the data processing requirements of a business organization.
- Productivity: Work independently and cooperatively to deliver reports, programs, projects, and other deliverables that document a business organization's information technology requirements.
- Legal/Ethical/Professional: Base decisions and actions on the legal, ethical, and professional guidelines and practices of the information technology field.
- Explore: Demonstrate the ability to search, analyze, and synthesize current information and solutions in the rapidly changing information technology profession.

2. Analysis of the Program

Overall, the IT program is rated as healthy. The demand and efficiency indicators are both rated as healthy. The efficiency indicator changed from cautionary to healthy this year. The effectiveness indicator is rated as cautionary. Within this category the good areas are increasing successful completion, decreasing withdrawals, increasing persistence Fall to Spring, increasing persistence Fall to Fall, increase in degrees awarded, and an increase

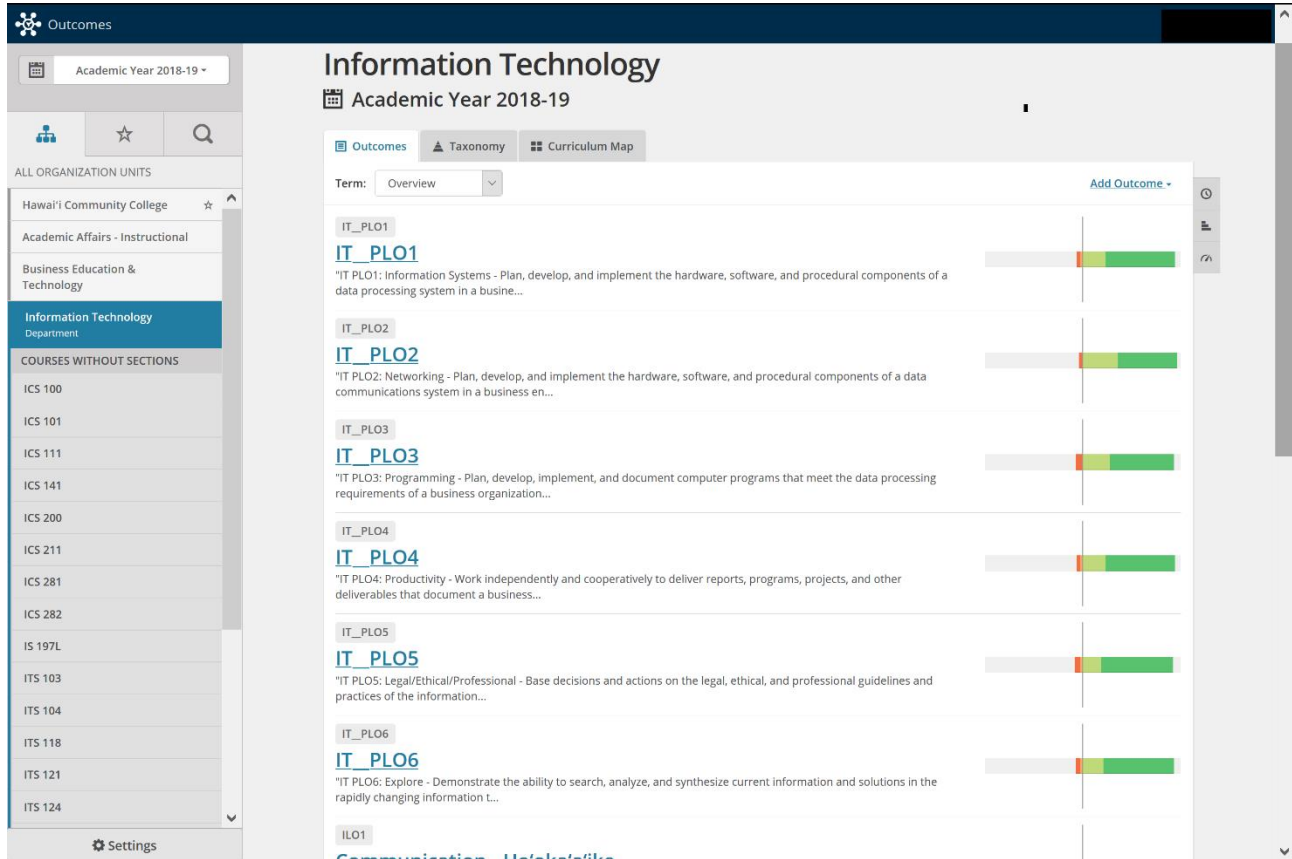
in certificate of achievements awarded. Those not as good the previous year are a decrease in other certificates awarded and a decrease in UH transfers. Some of the graduated students from this year attended other schools such as Western Governors University. The distance indicators have increased due to offering the first DE courses in the year of the report. For Perkins, the 1P1, 2P1, 4P1, and 5P2 were all met. The 3P1 and 5P1 indicators were not met but very close to the target. The program offers a free club called Girls Who Code for 6th-12th grade girls which will hopefully increase numbers for 5P1 in the future by interesting more females in IT.

The first action item from the previous year was to add a distance education class to increase average class size. Two classes were offered during the year of the report and the average class size increased from 12 to 15. The other action item was to change the curriculum to make sure the classes being offered met the current needs and to help support transfer rates. The curriculum changes were approved during the report year. Another large change the program made was to incorporate Textbook Cost Zero in all classes. Rather than using expensive textbooks, the courses were redesigned to use free resources.

3. Program Student Learning Outcomes

- a) The IT Program Learning Outcomes (PLOs) are:
- IT PLO1: Information Systems - Plan, develop, and implement the hardware, software, and procedural components of a data processing system in a business environment.
 - IT PLO2: Networking - Plan, develop, and implement the hardware, software, and procedural components of a data communications system in a business environment.
 - IT PLO3: Programming - Plan, develop, implement, and document computer programs that meet the data processing requirements of a business organization
 - IT PLO4: Productivity - Work independently and cooperatively to deliver reports, programs, projects, and other deliverables that document a business organization's information technology requirements
 - IT PLO5: Legal/Ethical/Professional - Base decisions and actions on the legal, ethical, and professional guidelines and practices of the information technology field.
 - IT PLO6: Explore - Demonstrate the ability to search, analyze, and synthesize current information and solutions in the rapidly changing information technology profession.
- b) All IT Program Student Learning Outcomes have been assessed in the 2018-2019 year.
- c) Assessed courses that contributed to PLO assessments were ICS 101, ITS 104, ITS 121, ITS 129, ITS 287, and ITS 288. The assessment results overall for the program learning outcomes show that all students met or exceeded the program's achievement standards. These results are displayed in the graphic screenshot below on page 4.

- d) The assessment results were favorable, so no changes have been made based on the assessment from the 2018-2019 academic year. Results will continue to be monitored as the program strives to improve every year.



4. Action Plan

Action Item 1: Work on pathways to UH and other schools for transfer. This will help with the Perkins indicator 3P1 which we did not meet by increasing transfer rates.

Action Item 2: Continue to work on recruitment for the program by attending career fairs and other community events. The Girls Who Code club the program offers for 6th-12th grade girls will also continue to help with recruitment and to increase the Perkins indicator 5P1 for nontraditional participation.

5. Resource Implications

There are no resource budget asks based on health and safety needs, emergency needs, and/or needs based on compliance with Federal/State laws/regulations.