

Program Review Comprehensive Report



Program Review - Instructional: Manufacturing, Machine Shop Technology, Supply Chain Technology, Electronics

Supplemental Reports and Attachments

2014 - 2017

Comments or Notes: NCB ENTERED

Attachments:

- [2014_17_MANUFACTURING_MACHINEShopTech_SupplyChain_ELECTRONICS_CurriculumRPT.pdf](#)
- [2014_17_MANUFACTURING_MACHINEShopTech_SupplyChain_ELECTRONICS_SuccessEfficiencyRetentionRPT.pdf](#)
- [2014-17_INSTRUCTION_MANUFACTURING_MACHINEShop_SupplyChain_ELECTRONICS_ResourceRequests.xlsx](#)
- [2014-17_MAN_CNC_PLO_INSTRUCTIONAL.pdf](#)
- [2014-17_MAN_ComputerAided_Production_Tech_PLO_INSTRUCTIONAL.pdf](#)
- [2014-17_MANUFACTURING_SLO_DISCIPLINE.pdf](#)

Program Trends and Updates

2014 - 2017

Program Update Section

Has your unit shifted departments in the PAST 4 years?: No

Do you anticipate your unit will shift departments in the NEXT 4 years?: No

New certificates programs created by your unit in the PAST 4 years?: No

New certificate programs anticipated by your unit in the NEXT 4 years?: No

Substantial modifications made to certificates/degrees in the PAST 4 years.: Yes

Substantial modifications anticipated to certificates/degrees in the NEXT 4 years.: Man-55 will decrease to one unit for Fall 2018

Man-39 and 38 will combine to make Man-36 for Fall 2018

These changes will impact all certificates in the programs including:

- Industrial automation
- Computer numerical control (CNC) operator
- Computer numerical control programming
- Conventional machine operator
- Supply chain technology

Activities in other units that impacted your unit in the PAST 4 years.: None

Activities in other units that impacted your unit in the NEXT 4 years.: None

Previous Program Review Resource Requests

Resource Requests Received: • Purchase a 5th axis milling table

- Software for the cmm machine
- Replace computers in CACT 2
- Battery set for RV-2a1 robot in IT-124.
- Purchase Surface Grinder for the CACT
- Mitutoyo - 0.03 Inch Range, 0.0005 Inch Dial Graduation, Horizontal Dial Test Indicator - 1.5748 Inch White Dial, 0- 15-0 Dial Reading, Accurate to 0.0005 Inch

- Floppy emulator for Haas machine
- Fluid sim software

How did the resources received impact student learning?: The purchase of the 5th axis milling table will make MAN35 and MAN 56 more relevant because students will be able to practice setting up and programming CNC machines that they will find in industry.

The software for the CMM machine will allow the students to use the machine to practice advanced measurement that they would be required to understand in industry. This will make the ENE 52, MAN 39 and MAN 56 class more relevant and more hands on.

Replace computers in CACT 2: Computers are very slow right now. I am told that they will be replaced Summer 2018

Purchase surface grinder for the CACT. MAN 38 and MAN 39 will use the surface grinder. NIMs certification requires that the students understand how to use the machine.

Many of the indicators are broken. Having new ones will allow the students to measure vise and work placement and straightness.

Floppy emulator will allow the students to use a USB drive on the two older machines. Floppy disks are very outdated.

Fluid sim software needs to be updated since it is as old as IT-124

If you requested resources but did not receive them, how did that impact student learning?: Need to purchase another chemical drum storage bin for the side of the cact building. This is a safety concern for the college.

Program Data Highlights Section

COR Review: 8 courses need to be updated or deleted.

Program Metric Highlights: More work needs to be done to convince/help students complete certificates
More advertising to the community needs to be done.

Assessment Report Highlights: Lab manuals need to be created for the new lab aid.

Need to learn how to program and operated the new five axis machine

Need to develop curriculum for teaching the grinder.

Need to purchase another chemical drum storage bin for the side of the cact building.

No Program Goal were returned for this Assessment Unit based upon the selected parameters.