

MACHINING TECHNOLOGY ADVISORY COUNCIL

Meeting Notes

Airport Campus, Lecture Hall, 1:00pm, 10-12-2021



ATTENDEES:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Danny Farr, King Machine | <input checked="" type="checkbox"/> Sandy Bauman, Dean |
| <input checked="" type="checkbox"/> Bruce Howard, Diversified Plastics | <input checked="" type="checkbox"/> Tammy Burke, Exec Dir of CTE |
| <input checked="" type="checkbox"/> Erin LaRue, Boeing Company HR | <input checked="" type="checkbox"/> Bridget Guerin, Administrative Associate |
| <input checked="" type="checkbox"/> Dustin Nelson, Boeing Company | <input checked="" type="checkbox"/> John McLaughlin, Instructor |
| <input checked="" type="checkbox"/> Cody Smith, Pioneer Aerostructures | <input checked="" type="checkbox"/> Paul Nicholson, Instructor |
| <input checked="" type="checkbox"/> Preston Watts, Pioneer Aerostructures | |
| <input checked="" type="checkbox"/> HR | <input type="checkbox"/> |

1. Curriculum and Instruction

- Identify and expand the use of new technologies.
 - DDSN135 Solidworks vs. Mastercam Solids? We are trying to determine the best solution for the students.
 - Mastercam can do any solidworks and is more user friendly.
- Compare content with occupational competencies and tasks.
 - First Year students are required to obtain 6 certifications in precision measurement which will be a permanent addition to the first year.
 - Students do the labs and then have 3 tries to pass the tests.
 - Will be offering a Soft Skills certificate soon through NC3.
 - Second Year students are required to obtain both FANUC certified CNC training and HAAS operation certification.
 - Paul is hoping to have a certification center at HC in the near future.
 - Class projects were updated for relevancy in first and second year.
 - The students made tools that they could use in future courses to match the required outcomes. Both first year and second year students did this.

2. Program Review

- Assess, recommend, and/or provide equipment and facilities.
 - 3 new manual lathes are in the first-year program are up and running.
 - 3 new manual vertical milling machines.
 - A new HAAS ST-20Y turning center with live tooling did replace the old HAAS SL-20 turning center last year.
 - Installed a new Haas Mini Mill to replace an old Haas Mini Mill over the summer. Students will be using this machine this semester.
 - High speed 4th axis
 - Wi-Fi system with cameras were purchased for both the Haas ST-20Y and the Haas Mini Mill. This will help students from theory, online theory, helping local high schools, etc.
 - This will also benefit any remote learning needed (due to sickness, etc.) and classroom assignments so all students can easily see what is being taught.
- Assist in short and long-term planning for program improvement.
 - 2019-2020 Enrollment decreased:
 - Fall 2020: 6 first year students, 7 second year students
 - Fall 2021: 9 first year students, 3 second year students
 - HC changed the name of the Machining Program to Manual Machining (1st year) and CNC Machining (2nd year) in hopes of acquiring new students – wondering if the old name was too generic for people to understand what was being offered.
 - HC will be doing more marketing of the program.
 - Machining work-study student is going to promote the program in social media with the hopes of getting the attention of younger people.
 - Curriculum review is in process for second year
 - DDSN135 Solidworks vs. Mastercam Solids? We are trying to determine the best solution for the students.

3. Recruitment and Job Placement

- Notify instructors of entry-level job openings for students.
 - Employers are encouraged to contact the Helena College instructors to schedule meetings with students and or student groups regarding job opportunities. Department instructors will organize these events.
 - Business partners are welcome to contact Shelby Zander – Career Connections Coordinator or Bridget Guerin – Administrative Associate to help reach out to students for employment and/or to advertise on the HC web page.
 - Employers are encouraged to provide or obtain cooperative work experiences, internships/externships, work/study or work-based learning opportunities for students.

- First and second year instructors are trying to visit shops to further understand what these shops do. This will help students and employers find a better fit.
 - Pioneer and Diversified are welcoming field trips.

4. Student Organizations

- FMOA?
 - Suggested that the club be opened to junior and seniors in high school.
 - Business partners said they would work around the club schedule to allow their student employees flexible work times to participate.
- Suggestions on how to get student involvement.

5. Staff Development

- Review professional development plans.
 - First year instructor will be going through MasterCam Solids – John McLaughlin.
 - Second year instructor is taking the HAAS operator certification – Paul Nicholson.
 - First and second year instructors will be learning GrabCAD and the 3D printer.

6. Resources

- Provide tours and field trips, job shadowing experiences and speakers.
 - Boeing field trip for all students.
 - 2021-2022 school year may not have field trips due to Covid 19.
 - Dean Bauman said HC doesn't have restrictions at this time for travel and field trips are an option this semester.
 - Business partners also mentioned that individual tours for students is available.