

## Course & Curriculum Committee Meeting Agenda

March 8, 2024 at 1:00 p.m.

TTC 4370-4380

*Present:* S. Myers, M. Dunneback, D. Coblenz, D. Martin, P. Grohs, J. Abbott, B. Reynolds, N. Bergen, C. Pruis, A. Nord, K. Naatjes, S. Hubble, A. Moore, C. Jbara, S. Postula, H. Parmelee, J. Brady, P. Eagan

*Absent:* J. Wagner, K. Lavender, M. Raines

- 1) Call to Order at 1:02pm
- 2) Meeting Minutes from January 25, 2024 – Approved as is
- 3) Business Matters
  - a) EDMT – Engineering Design Manufacturing Technology – Motion made to approve as a bundle versus individually. MOVED, SECONDED and CARRIED
    - i) New Courses (Effective: 202520)

M. Dunneback presented brief overview. Progressive structure EDMT 115 is an introduction and each new course stacks upon the previous. Focusing on the industry standards of quality using tools and technology. After discussion, it was MOVED, SECONDED and CARRIED to endorse the new course offering.

      - (1) EDMT 115: Intro to Precision Measurement, 3-2-3 (Lecture/Discussion – Standard Lab)

**Course Description:** This is a comprehensive course on precision measurement. General topics include measurements as a language, communicating measurement, accuracy, precision, and reliability. The course instructs the student in the utilization of basic hand-held measuring instruments and tape and rule, slide caliper, gage, angle, micrometer, and dial gage measurement.
      - (2) EDMT 150: Dimensional Metrology, 3-2-3 (Lecture/Discussion – Standard Lab)

**Course Description:** This is a comprehensive course on dimensional metrology, the science of precision measurement. General topics include measurements as a language, communicating measurement, accuracy, precision, and reliability. More specific topics of calibration, tolerancing, basic statistics, and sampling are covered. The course instructs the student in the utilization of basic hand-held measuring instruments, height stand and surface plate measuring, gage blocks, and dial and digital indicators. Moving on to more sophisticated measuring instruments, the student is instructed in the operation of optical comparators, Faro arms, and Vision inspection machines. The student will also learn to use the associated computers and software that support the operation of these inspection machines.

- (3) EDMT 250, Fundamentals of CMM, 3-2-3  
(Lecture/Discussion – Standard Lab)

**Course Description:** This course is an introduction to the fundamental concepts of Coordinate Measuring Machines (CMM). General topics include how CMM measurements integrate into precision manufacturing environments. More specific topics of calibration, tolerancing, basic statistics, and sampling are covered. The course instructs the student in the utilization of basic CMM which includes best practices for probe calibration and part fixturing. The student is instructed in the operation of both vision and tactile type coordinate measurement machines. The student will also learn to use the associated computers and software that support the operation of these inspection machines.

- ii) New Programs (Effective: 202520) –

Brief overview of the new programs presented by M. Dunneback. Discussion brought forth apprehension on the matching titles of the new programs. S. Hubbell suggested that B. Kring should be included in further discussion. Therefore, a Motion to table programs to allow B. Kring to be present for discussion was made. MOVED, SECONDED and CARRIED to table new program offerings until next meeting.

- (1) DIM.CERT: Dimensional Metrology CERT

**Program Description:** Specialization in metrology technology (precision measurement) is designed to meet the precision measurement needs of industry by preparing graduates through both theoretical and hands-on laboratory work to successfully enter the work force. Metrology is used throughout the world in such areas as telecommunications, manufacturing, electrical power, aerospace, transportation, medicine, pharmaceuticals, food production, packaging, construction, national defense, atmospheric research, and environmental protection. The metrology technology program at KVCC emphasizes dimensional metrology for the local manufacturing industry.

- (2) DIM.COA: Dimensional Metrology COA

**Program Description:** This program is designed to fast track students through the modern dimensional metrology program of study.

4) Other

5) Next Meeting: April 12, 2024 at 1:00pm in TTC 4370/4380

6) Adjournment – 1:37pm