Common Course Outline

South Central College

CIM 2208  Applications III

Common Course Outline

Course Information

Description
This course provides students with continuing opportunities to work on applying their skills, building on what was learned in the previous Applications courses. Additional material is also introduced; topics include advanced grinding techniques. This is a variable credit course. If the Internship (CIM 1107) was completed or if 4 credits of Applications II (CIM 2108) were completed, only 2 credits of this course are required for CIM students. If the Internship was not completed and only 2 credits of Applications II were completed, all 4 credits are required. (Prerequisites: CIM 2108 - Applications II)

Total Credits  4.00
Total Hours  128.00

Types of Instruction

Instruction Type  Credits/Hours
Lab  2-4/64-128

Pre/Corequisites

Prerequisite  CIM 2108 - Applications II

Institutional Core Competencies

Analysis and inquiry: Students will demonstrate an ability to analyze information from multiple sources and to raise pertinent questions regarding that information.

Critical and creative thinking: Students will develop the disposition and skills to strategize, gather, organize, create, refine, analyze, and evaluate the credibility of relevant information and ideas.

Teamwork and problem-solving: Students will demonstrate the ability to work together cohesively with diverse groups of persons, including working as a group to resolve any issues that arise.

Written and oral communication: Students will communicate effectively in a range of social, academic, and professional contexts using a variety of means, including written, oral, numeric/quantitative, graphic, and visual modes of communication.

Course Competencies

1  Perform set-up operations on the grinding machine.

Learning Objectives
Set-up manual grinder.
Set-up cylindrical grinder for O.D. grinding.
2 Use the grinding magnet.
   Learning Objectives
   Dial in magnet.
   Dial in magnet fence.

3 Demonstrate grinding to print.
   Learning Objectives
   Illustrate grinding perpendicular to +or- .0003.
   Illustrate grinding parallel to +or- .0003.

4 Interact with the grinding wheel dresser.
   Learning Objectives
   Demonstrate how to "True" a grinding wheel.
   Demonstrate how to side dress a grinding wheel.

5 Practice form dressing.
   Learning Objectives
   Demonstrate form dressing an outside radius on a grinding wheel.
   Demonstrate form dressing an angle on a grinding wheel.

6 Demonstrate grinding a radius.
   Learning Objectives
   Show grinding an inside radius.
   Show grinding an outside radius

7 Select proper grinding wheel.
   Learning Objectives
   Demonstrate balancing grinding wheel.
   Demonstrate mounting wheel on grinder.

8 Illustrate ability to complete tasks on time.
   Learning Objectives
   Demonstrate professionalism.
   Demonstrate part craftsmanship.

9 Describe milling mold cavity.
   Learning Objectives
   Illustrate machining runners to specifications.
   Illustrate machining gates to specifications.

10 Demonstrate mold press safety.
    Learning Objectives
    Explain how to adjust press shut height.
    Explain how to adjust knock out bar.

11 Discuss types of plastics.
    Learning Objectives
    Identify thermosetting plastic.
    Identify thermoplastics.

12 Identify injection mold processes.
    Learning Objectives
    Analyze flash problems.
    Analyze vent problems.

SCC Accessibility Statement
If you have a disability and need accommodations to participate in the course activities, please contact your instructor as soon as possible. This information will be made available in an alternative format, such as Braille, large print, or cassette tape, upon request. If you wish to contact the college ADA Coordinator, call that office at 507-389-7222.

Disabilities page http://southcentral.edu/academic-policies/disability-rights.html