MILWAUKEE AREA Technical College
CREDIT for PRIOR LEARNING and EXPERIENCE

Work/Life Experience Portfolio
Approved by: Edward Kerschen
Last updated: 12/12/2025

Microbiology, BIOSCI-197, 4 CR

Work Life Experience Information

The Work and Life Experience Portfolio Evaluation lets students turn their real-world experience—whether from work, co-op education, or training—into college credit! Here are a few important things to keep in mind:

- Milwaukee Area Technical College will not award credit based solely on years of employment
- Experiences must be verifiable and demonstrate achievement of course competencies; determined by the Lead Faculty
- A portfolio must be submitted for each course you are requesting credit
- In addition to documentation, students may be asked to display specific skills and/or complete an interview to assess content knowledge

Steps for Students to Begin:

1. Select a course (see below) that matches your prior knowledge and skills
2. Email cple@matc.edu to initiate the process with:
    a. Name
    b. Student ID#
    c. Course information (e.g., ENG-201)
3. A CPLE Specialist will notify the student when the fee is posted
4. Pay the nonrefundable fee and obtain a receipt using one of the following methods:
    a. In person at any MATC cashier's office
    b. Online via Self-Service
5. Submit the completed portfolio and any other documents required to cple@matc.edu
6. CPLE Specialist reviews and submits the portfolio to lead faculty for evaluation
7. After evaluation, the lead faculty will complete and submit the CPLE Request Form to cple@matc.edu, regardless of the outcome
8. Next Steps:
    - **If the evaluation is approved**, credit(s) will be awarded, and the student's program plan will be updated
    - **If the evaluation is not approved**, students should consult their Pathway Advisor for further guidance

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Course Information

1. **Course title, number & credit value:**
    a. Microbiology, BIOSCI-197, 4 CR
2. **Course description:**
    a. This course covers the five categories of the microbial world (Bacteria, Fungi, Protozoa, Helminths, and Viruses) and their relationship to human health and disease. Laboratory work will focus on the study (isolation, culture, and identification) of bacteria.

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3. **Students must demonstrate the course competencies by submitting: A Portfolio and any other artifacts required found below. ****Note for Resumes:*** **Lead faculty must verify the student's work history via a letterhead mail or phone interview.**
    a. Students must submit official college transcripts to MATC's Admissions department, and the transcripts must come from a regionally accredited institution.
    b. Students must have a Masters or PhD in Microbiology or related field (including 18 Graduate credits in a Microbiology related field).
4. **Course Competencies that must be demonstrated:**
    a. Summarize the history and scope of the field of microbiology.
    b. Details the anatomy and physiology of prokaryotic and eukaryotic cells.
    c. Explain microbial growth requirements and characteristics.
    d. Relate the role of biochemistry to microbial physiology and identification.
    e. Evaluate the process to control the growth of microbes in vivo and in intro.
    f. Examine the impact of microbial genetics on humans and the environment.
    g. Evaluate the principles of epidemiology and monitor and control microbial disease transmission.
    h. Summarize host-microbe interactions including mechanisms of pathogenicity.
    i. Outline host defense mechanisms.
    j. Evaluate the immune response, immunopathology and applications.
    k. Examine bacteria, fungi, viruses and parasites as they relate to human disease.
    Lab Competencies
        i. Use safe laboratory practices.
        ii. Use of bright-field microscopes.
        iii. Prepare slides for microbiological examination.
        iv. Isolation and aseptic transfer techniques for handling of microorganisms.
        v. Use of appropriate microbiological media and test systems.
        vi. Proper use of standard microbiology laboratory equipment.
        vii. Demonstrate evolving analytical, critical thinking skills