

**Ferris State University**  
**Essential Requirements for the Clinical Laboratory Sciences Programs**

In addition to meeting published academic requirements, students must be able to meet other essential requirements in order to complete the program successfully. Students must be able to complete the program in ways that will not endanger themselves or other persons.

Essential Requirements for CLS	Functions
Essential Observational Requirements	<ul style="list-style-type: none"> <li>• Observe laboratory demonstrations in which body fluids and other biologicals are tested for their biochemical hematological, immunological, and microbiological characteristics.</li> <li>• Characterize the color, odor, clarity, and viscosity of body fluids, reagents, or reaction products.</li> <li>• Use a binocular microscope to discriminate among fine structural and color differences in microscopic specimens.</li> <li>• Read and comprehend text, numbers, and graphs displayed in print, on instrument scales, or video monitors.</li> <li>• Observe biological samples and their labeling to assess the acceptability of samples for analysis.</li> <li>• Observe and describe colonial morphology of bacteria.</li> <li>• Observe and quantitate the degree of agglutination or other antigen-antibody reaction.</li> </ul>
Essential Movement Requirements	<ul style="list-style-type: none"> <li>• Move freely and safely about the laboratory and campus.</li> <li>• Reach laboratory work stations, shelves, the interior of refrigerators and cupboards, and patients in hospital beds or seated in specimen collection furniture.</li> <li>• Travel to assigned sites for course work or practical experience.</li> <li>• Perform moderately taxing physical work, often requiring prolonged sitting and repetitive motions over several hours.</li> <li>• Gather equipment needed to perform assigned procedures.</li> <li>• Maneuver phlebotomy and culture acquisition equipment to collect valid laboratory specimens from patients safely.</li> <li>• Control small pieces of laboratory equipment such as pipettes and inoculating loops, and make sensitive adjustments to laboratory instruments.</li> <li>• Use an electronic keyboard to operate instruments and to calculate, record, evaluate, and transmit information.</li> <li>• Use equipment and instruments according to manufacturer's guidelines and established institutional protocols.</li> </ul>
Essential Intellectual Requirements	<ul style="list-style-type: none"> <li>• Read and comprehend technical and professional materials such as textbooks, professional journals, laboratory procedures, and instructional manuals.</li> <li>• Apply these intellectual skills: comprehension, measurement, mathematical calculation, reasoning, integration, analysis, comparison, self-expression, and criticism.</li> <li>• Exercise sufficient judgment to recognize and correct performance deviations.</li> <li>• Apply knowledge of related sciences, including biology, chemistry, physics, and mathematics, to laboratory test procedures.</li> <li>• Apply knowledge to the interpretation of laboratory test results, including correlation of results with diagnoses.</li> <li>• Apply knowledge to the assessment of laboratory results, taking appropriate action when invalid or grossly abnormal results occur.</li> </ul>

Essential Communication Requirements	<ul style="list-style-type: none"> <li>• Follow verbal and written instructions to perform assigned procedures correctly and independently.</li> <li>• Effectively and sensitively communicate with patients and others identifying and valuing cultural and religious differences.</li> <li>• Use appropriate terminology to instruct patients and others prior to specimen collections, adjusting communication style to meet the needs of the patient and situation.</li> <li>• Respect patients' rights to privacy and confidentiality.</li> <li>• Communicate effectively and clearly with faculty, students, staff, and other health care professionals verbally, in writing, and/or via graphical presentations.</li> <li>• Use facility guidelines and legal requirements concerning methods of sending and receiving information, including test results and other patient information.</li> <li>• Independently prepare papers and laboratory reports, and take paper, computerized, and practical examinations.</li> </ul>
Essential Behavioral Requirements	<ul style="list-style-type: none"> <li>• Manage time in order to prioritize and complete professional and technical tasks efficiently.</li> <li>• Employ intellect and exercise professional judgement effectively, seeking clarification or assistance when needed.</li> <li>• Be able to provide professional and technical services under the stressful conditions of the clinical laboratory, including (but not limited to): ambiguous test ordering, ambivalent interpretations, emergent demands, and a distracting environment.</li> <li>• Identify and operate within the scope of professional practice.</li> <li>• Be flexible and creative in adapting to professional and technical change.</li> <li>• Recognize potentially unpleasant and/or hazardous materials, equipment, and situations, and proceed safely in order to minimize risk of injury to self and others.</li> <li>• Support and promote the activities of fellow students, health care professionals, and health care organizations.</li> <li>• Promote a team approach to learning, task completion, problem solving, and patient care.</li> <li>• Perform honestly, compassionately, ethically, and responsibly, admitting errors and taking corrective action where appropriate.</li> </ul>

**I have read the Essential Requirements for the CLS program. To the best of my knowledge, I will be able to perform these requirements upon completion of the program.**

**To enable me to meet these Essential Requirements, I request the following accommodations:**

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**Name (Print)**

**Date**

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**Name (Signature)**