

**TRANSFER GUIDE FOR
 NORTH CENTRAL MICHIGAN COLLEGE**

**BACHELOR OF SCIENCE MEDICAL TECHNOLOGY
 Effective Fall 2008**

| Home Page | Contact | Phone |
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| http://www.ferris.edu/htmls/colleges/alliedhe/ | Barbara Ross Program Coordinator Clinical Laboratory Sciences College of Allied Health Sciences Ferris State University 200 Ferris Drive Big Rapids MI 49307-2740 allesn@ferris.edu | 1-800-GO-BULLDOGS or 231/591-2266 |

This is a guide for students who plan to transfer to Ferris State University. This guide is not intended to be a contract with Ferris State University. The information on this guide is subject to change; students should contact the College of Allied Health Sciences to keep informed of changes (see "contact" above). Final responsibility for verifying all transfer information lies with the students.

For Admission to the Professional Medical Technology Sequence: These courses/qualifiers must be completed by the end of the Spring Semester to qualify for entry into the professional sequence. Students must officially apply to the professional sequence **between January 15 and January 30** for the fall semester start each year.

| COURSE / QUALIFIERS | Minimum CREDITS | Minimum GRADE REQUIRED |
|--|-----------------|------------------------|
| Academic Status: <ul style="list-style-type: none"> Minimum Standard: Maintain GPA of 2.5 or higher | NA | NA |
| Math Competency: <ul style="list-style-type: none"> ACT Subscore of 24 or higher <u>or</u> MATH 115 or MATH 117 | NA 3 | NA C |
| CHEM 114 Intro to Inorganic Chemistry | 1 | C |
| CHEM 214 Intro to Inorganic Chemistry | 4 | C |
| BIOL 205 Anatomy & Physiology | 5 | C |

Program Coordinator: Barbara Ross
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Be sure to watch the Clinical Laboratory Sciences Website for Program updates. Application Guidelines & Forms can be accessed on the CAHS Website:
<http://www.ferris.edu/htmls/colleges/alliedhe/index.cfm>

The following is a list of courses students must complete to earn the degree. Community college equivalents are listed below and may be taken prior to transferring to Ferris. If a program will accept a course as a substitution, the word "sub" will follow the community college course number. Blank spaces in the community college column indicate there are no course equivalents or substitutions available.

| REQUIRED | COURSE TITLE – FSU PREREQUISITES SHOWN IN BRACKETS () | | FSU HOURS | COURSE AT North Central CC |
|----------|--|--|-----------|----------------------------|
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COMMUNICATION COMPETENCE: 12 CREDITS REQUIRED

| | | | | |
|--|-------------------|---|---|--------------------------|
| ENGL | 150 | English 1 | 3 | ENG 111 |
| ENGL | 250 | English 2 (ENGL 150) | 3 | ENG 112 |
| ENGL | 321 | Advanced Composition (ENGL 250) | 3 | |
| Recommended: COMM Also Accepted: COMM | 221 105 121 | Small Group Decision Making Interpersonal Communication OR Fundamentals of Public Speaking | 3 | COM 170 or 111 or 231 |

QUANTITATIVE SKILLS: PROFICIENCY OR COURSE REQUIRED

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|--|------------|---|--------|-------------------|
| Recommended: MATH Also Accepted: MATH | 117 115 | Contemporary Mathematics or ACT Math subscore of 24 Intermediate Algebra | 4 4 | MTH 114 or 113 |
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SOCIAL AWARENESS – 9 CREDITS REQUIRED

Of the three Social Awareness courses:

- One must be a foundations course
- One must meet the race, ethnicity and gender requirement
- One must be at the 200 level or above

CULTURAL ENRICHMENT – 9 CREDITS REQUIRED

Of the three Cultural Enrichment courses:

- One must meet the Global Consciousness requirement (hyperlink to Global Consciousness and Cultural Enrichment.)
- One must be at the 200 level.

SCIENTIFIC UNDERSTANDING:

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|------|------------------|---|---|----------------------|
| BIOL | 103 | Biological Concepts | 4 | Sub BIO 101 |
| BIOL | 108 or 286 | Medical Microbiology General Microbiology (CHEM 122) | 3 | BIO 226 |
| BIOL | 205 | Human Anatomy and Physiology (CHEM 114) | 5 | BIO 235 & 236 |
| BIOL | 300 | Pathophysiology (BIOL 205 and CHEM 214) | 3 | |
| CHEM | 114 | Introduction to General Chemistry (CHEM 103 or HS Chemistry and Math 110 or ACT 19) | 4 | sub CEM 121 |
| CHEM | 214 | Fundamentals of Organic Chemistry (CHEM 114 or 121) | 4 | Sub CEM 231 & 232 |
| CHEM | 324 | Fundamentals of Biochemistry (CHEM 214) | 3 | |

CAHS CORE REQUIREMENTS:

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|------|-----|---|---|---------|
| CCHS | 101 | Orientation to Health Care | 3 | |
| CCHS | 102 | Safety Issues in Health Care | 1 | |
| CCHS | 103 | Clinical Skills for Health Care Providers (CAHS enrollment) | 1 | |
| | | Computer Competency | | CIS 100 |
| MRIS | 102 | Orientation to Medical Vocabulary or Medical Terminology Competency | 1 | OAS 116 |

MT MAJOR: CREDITS REQUIRED 61

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| CLLS | 101 | Clinical Laboratory Science Orientation | 1 | |
| CLLS | 122 | Introduction to Specimen Collection | 2 | |

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|------|-----|--|----|--|
| CLLS | 123 | Specimen Collection Laboratory (concurrent enrollment in CLLS 122) | 1 | |
| CLLS | 216 | Clinical Chemistry (BIOL 205, CHEM 214, concurrent enrollment in CLLS 217) | 3 | |
| CLLS | 217 | Clinical Chemistry Laboratory (concurrent enrollment in CLLS 216) | 1 | |
| CLLS | 218 | Body Fluid Analysis (BIOL 205, concurrent enrollment in CLLS 219 and 220) | 1 | |
| CLLS | 219 | Hemostasis (BIOL 205, concurrent enrollment in CLLS 218 and 220) | 1 | |
| CLLS | 220 | Body Fluid Analysis and Hemostasis Laboratory (concurrent enrollment in CLLS 218 and 219) | 1 | |
| CLLS | 231 | Hematology (BIOL 205, CHEM 214, concurrent enrollment in CLLS 232) | 2 | |
| CLLS | 232 | Hematology Laboratory (concurrent enrollment in CLLS 231) | 1 | |
| CLLS | 236 | Diagnostic Microbiology (BIOL 108 or 286, BIOL 205, CHEM 214, concurrent enrollment in CLLS 237) | 2 | |
| CLLS | 237 | Diagnostic Microbiology Laboratory (concurrent enrollment in CLLS 236) | 2 | |
| CLLS | 241 | Medical Virology/Mycology/Parasitology (BIOL 108 or 286, concurrent enrollment in CLLS 242) | 2 | |
| CLLS | 242 | Medical Virology/Mycology/Parasitology Laboratory (concurrent enrollment in CLLS 241) | 1 | |
| CLLS | 252 | Introduction to Clinical Immunology (BIOL 205, concurrent enrollment in CLLS 253) | 2 | |
| CLLS | 253 | Introduction to Clinical Immunology Laboratory (concurrent enrollment in CLLS 252) | 1 | |
| CLLS | 258 | Immunochemistry (BIOL 205; CLLS 251, 252, concurrent enrollment in CLLS 259) | 2 | |
| CLLS | 259 | Immunochemistry Laboratory (concurrent enrollment in CLLS 258) | 1 | |
| CLLS | 356 | Advanced Clinical Chemistry (CLLS 216, EHSM 315, concurrent enrollment in CLLS 357) | 2 | |
| CLLS | 357 | Advanced Clinical Chemistry Laboratory (concurrent enrollment in CLLS 356) | 1 | |
| CLLS | 431 | Advanced Hematology (CLLS 218, 219, 220, 231, 232, concurrent enrollment in CLLS 432) | 2 | |
| CLLS | 432 | Advanced Hematology Laboratory (concurrent enrollment in CLLS 431) | 1 | |
| CLLS | 436 | Advanced Diagnostic Microbiology (CLLS 236, concurrent enrollment in CLLS 437) | 2 | |
| CLLS | 437 | Advanced Diagnostic Microbiology Laboratory (concurrent enrollment in CLLS 436) | 2 | |
| CLLS | 456 | Clinical Laboratory Practicum (CLLS 356, 431, 437, 459) | 3 | |
| CLLS | 458 | Advanced Immunochemistry (CLLS 252, 258, concurrent enrollment in CLLS 459) | 1 | |
| CLLS | 459 | Advanced Immunochemistry Laboratory (concurrent enrollment in CLLS 458) | 1 | |
| CLLS | 465 | Management of the Clinical Laboratory (CLLS 356, 431, 436, 458) | 3 | |
| CLLS | 480 | Clinical Laboratory Science Applications (concurrent enrollment in CLLS 491) | 1 | |
| CLLS | 491 | Clinical Laboratory Practice (CLLS 456, concurrent enrollment in CLLS 481) | 14 | |
| CLLS | 494 | Management Practice in Clinical Laboratory Science (CLLS 465) | 1 | |
| CLLS | 499 | Clinical Laboratory Science Seminar (last semester on campus) | 1 | |
| EHSM | 315 | Epidemiology and Statistics | 3 | |