

**TRANSFER GUIDE FOR
 NORTHWESTERN MICHIGAN COLLEGE**

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

Home Page	Contact	Phone
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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 Northwestern 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 111

QUANTITATIVE SKILLS: PROFICIENCY OR COURSE REQUIRED

Recommended: MATH Also Accepted: MATH	117 115	Contemporary Mathematics or ACT Math subscore of 24 Intermediate Algebra	4 4	MTH 023
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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:

BIOL	103	Biological Concepts	4	Sub BIO 116
BIOL	108 or 286	Medical Microbiology General Microbiology (CHEM 122)	3	BIO 208
BIOL	205	Human Anatomy and Physiology (CHEM 114)	5	BIO227 & 228
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 CHM150 & 150R
CHEM	214	Fundamentals of Organic Chemistry (CHEM 114 or 121)	4	Sub CHM 250 & 251
CHEM	324	Fundamentals of Biochemistry (CHEM 214)	3	

CAHS CORE REQUIREMENTS:

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		CIT 120B, 124B & 128
MRIS	102	Orientation to Medical Vocabulary or Medical Terminology Competency	1	HAH 101

MT MAJOR: CREDITS REQUIRED 61

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

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	Immunohematology (BIOL 205; CLLS 251, 252, concurrent enrollment in CLLS 259)	2	
CLLS	259	Immunohematology 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 Immunohematology (CLLS 252, 258, concurrent enrollment in CLLS 459)	1	
CLLS	459	Advanced Immunohematology 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	