

Revised 05/08/2009

PROPOSAL SUMMARY AND ROUTING FORM


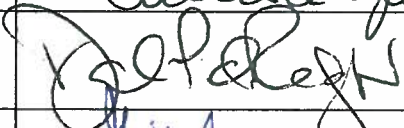
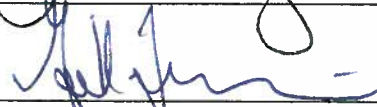



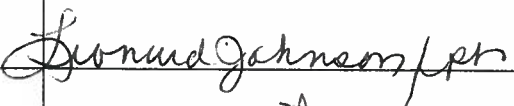
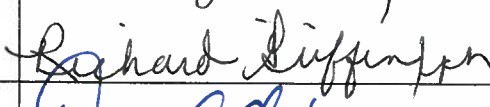

Proposal Title: Close Phlebotomy Certificate Prgm & Update Courses

Initiating Unit or Individual: Barbara Ross

Contact Person's Name: Barbara Ross e-mail: ROSSB@FERRIS.EDU phone: 231.591.2317

Date or Term of Proposal Implementation: 2010 Fall

- Group I - A – New degree/major or major, redirection of a current offering, or elimination of a degree, major or minor
- Group I - B – New minors or concentrations
- Group II - A – Minor curriculum clean-up and course changes
- Group II - B – New Course
- Group III - Certificates
- Group IV – Off-Campus Programs

Group/Individual	Signature	Date	Vote/Action *
Program Faculty			<u>4</u> Support <input type="radio"/> Support with Concerns <input type="radio"/> Not Support
Department Faculty			<u>16</u> Support <input type="radio"/> Support with Concerns <input type="radio"/> Not Support
Department Head			<input checked="" type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
College Curriculum Committee			<u>10</u> Support <input type="radio"/> Support with Concerns <input type="radio"/> Not Support
College Faculty		<u>3/30/10</u>	<u>33</u> Support <input type="radio"/> Support with Concerns <input type="radio"/> Not Support
Dean		<u>3/30/10</u>	<input checked="" type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
University Curriculum Committee		<u>4/14/10</u>	<input checked="" type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
Senate		<u>4/14/10</u>	<input checked="" type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
Academic Affairs		<u>4/16/10</u>	<input checked="" type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support

* Support with Concerns or Not Support must include a list of specific concerns. Votes must be shown for faculty groups. Administrators check appropriate action taken.

To be completed by Academic Affairs

President (Date Approved)

Board of Trustees (Date Approved)

President's Council (Date Approved)

APR 15 2010

PROVOST

1. Proposal Summary

(Summary is generally less than one page. Briefly: state what is proposed with a summary of rationale and highlights. Additional rationale may be attached.)

The phlebotomy program was created in response to a perceived need to retrain displaced workers in Michigan, and to provide certification-eligible, trained phlebotomists for clinical laboratories throughout the state. However, actual enrollment in the program has consisted mostly of students in pre professional programs in CAHS, who often need to wait one or more years to enter the professional phase of their programs.

Between Fall 2006 and Spring 2010 (nearly four total academic years) 114 students have completed the phlebotomy program. Ninety-four of these students (82.5% of the total) have no intention of ever being employed as phlebotomists: 43 pre-nursing students, and 40 in other CAHS programs, and 11 in other programs ranging from Applied communications to Elementary Education. Only 20 students (17.5%) could possibly be classified as seeking employment as phlebotomists.

CLLS 123, the on campus laboratory course that introduces students to specimen collection, is very expensive, costing close to \$150/student for supplies alone. In addition, providing the number of sections of this course to meet the demands of students who don't intend to work as phlebotomists requires almost 1.0 faculty positions. The Clinical Laboratory Science programs cannot afford to dedicate the amount of faculty time and S+E budget to maintain a program that does not meet its mission. Closing the phlebotomy program has been approved as a cost – cutting measure for the College of Allied Health Sciences.

CLLS 122 and 123 are still required for students in the Medical Technology (BS) and Medical Laboratory Technology (AAS) programs. Their descriptions will be modified to require enrollment in MT, MLT, pre-MT or pre-MLT. CLLS 191, the phlebotomy internship, will be offered in Summer and Fall 2010 to allow students in the program to complete it, and then discontinued.

2. Summary of All Course Action Required*

a. Newly Created Courses to FSU:

Prefix	Number	Title
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b. Courses to be Deleted From FSU Catalog:

Prefix	Number	Title
CLLS	191	Clinical Experience in Phlebotomy

c. Existing Course(s) to be Modified:

Prefix	Number	Title
CLLS	122	Introduction to Specimen Collection
CLLS	123	Specimen Collection Laboratory

d. Addition of existing FSU courses to program

Prefix	Number	Title
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e. Removal of existing FSU courses from program

Prefix	Number	Title
CCHS	101	Orientation to Health Care
CCHS	102	Safety in Health Care
MRIS	102	Orientation to Medical Vocabulary

3. Summary of All Consultations

Form Sent (B or C)	Date Sent	Responding Dept.	Date Received & by Whom
Form B	3/1/10	Clinical Lab, Resp, Health Admin	

4. Will External Accreditation be Sought? (For new programs or certificates only)

_____ Yes _____ **NA** _____ No

If yes, name the organization involved with accreditation for this program.

5. Program Checksheets affected by this proposal.

Phlebotomy Certificate (discontinued)
Medical Laboratory Technology Program
Medical Technology Program

CURRICULUM CONSULTATION FORM

To be completed by each department affected by the proposed change, new degree, new program, new minor, or new course. Potential duplication of coursework is reason for consultation.

1. This completed form must be forwarded with the proposal to the chair/head of the department to be consulted.
2. The department must respond within 20 calendar days of receipt of this form to insure inclusion in the final proposal. The completed form is returned to the initiator and inserted into the proposal.

Failure to respond is interpreted as support for the proposal.

3. The Proposing Department must address any concerns raised by the department. This response will be in writing and be included in the proposal following the consultation form.

RE: Proposal Title Close Phlebotomy Program

Initiator(s): Barbara Ross

Proposal Contact: Barbara Ross **Date Sent:** 3/1/2010

Department: CRHA **Campus Address:** VFS 303
(Please print)

Responding Department: Clinical Lab, Respiratory, Health Administration Programs

Chair/Head/Coordinator: Dr. Gregory Zimmerman **Date Returned:** _____

Based upon department faculty review on _____(date), we

- Support the above proposal.
- Support the above proposal with the modifications and concerns listed below.
- Do not support the proposal for the reasons listed below.

Comment regarding the impact this proposal has on scheduling, room assignments, faculty load, and prerequisites for your department. Use additional pages, if necessary.

FERRIS STATE UNIVERSITY CURRENT
COLLEGE OF ALLIED HEALTH SCIENCES
CERTIFICATE IN PHLEBOTOMY

Name _____ SS# _____

REQUIRED CERTIFICATE COURSES – 12 Credits				
CCHS	101	Orientation to Health Care (none)	3	
CCHS	102	Safety Issues in Health Care (none)	1	
CLLS	122	Introduction to Specimen Collection (concurrent enrollment in CLLS 123)	2	
CLLS	123	Specimen Collection Laboratory (concurrent enrollment in CLLS 122)	1	
CLLS	191	Clinical Experience in Phlebotomy (CLLS 101, 102; CLLS 122, 123; MRIS 102 with a grade of C or better)	4	
MRIS	102	Orientation to Medical Vocabulary	1	
TOTAL CREDITS REQUIRED FOR CERTIFICATE			12	

Progression: Students must complete all other courses with a grade of C or better before enrolling in CLLS 191.

Students who return to the University after an interrupted enrollment (not including summer semester) must meet the requirements of the curriculum which are in effect at the time of their return, not the requirements which were in effect when they were originally admitted.

5/04/04
 Revised 4/14/05

FERRIS STATE UNIVERSITY CURRENT
COLLEGE OF ALLIED HEALTH SCIENCES
Medical Technology – Bachelor of Science Degree

Name _____ Student Number _____

CAHS Core Curriculum Requirements: 6-7 credits Required				
CCHS	101	Orientation to Health Care (none)	3	
CCHS	102	Safety Issues in Health Care (none)	1	
CCHS	103	Clinical Skills for Health Care Providers (CAHS enrollment)	1	
MRIS	102	Orientation to Medical Vocabulary (none)	1	
FSUS	100	Ferris State University Seminar (none) – FTIAC only	1	
		Computer Competency		
Clinical Laboratory Sciences Courses: 62 Credits Required				
CLLS	101	Clinical Laboratory Science Orientation (none)	1	
CLLS	122	Introduction to Specimen Collection (none)	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	Immunoematology (BIOL 205; CLLS 251, 252, concurrent enrollment in CLLS 259)	2	
CLLS	259	Immunoematology 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 Immunoematology (CLLS 252, 258, concurrent enrollment in CLLS 459)	1	
CLLS	459	Advanced Immunoematology 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)	10	

Clinical Laboratory Sciences Courses: 62 Credits Required, cont				
CLLS	494	Management Practice in Clinical Laboratory Science (CLLS 465)	1	
CLLS	499	Clinical Laboratory Science Seminar (last semester on campus)	1	
Communication Competence: 12 Credits Required				
Recommended: COMM	221	Small Group Decision Making (none)	3	

Also Accepted: COMM	105 121	Interpersonal Communication OR Fundamentals of Public Speaking		
ENGL	150	English 1 (ENGL 074 or ACT 14)	3	
ENGL	250	English 2 (ENGL 150)	3	
ENGL	321	Advanced Composition (ENGL 250)	3	
Scientific Understanding: 26 Credits Required				
BIOL	103	Biological Concepts (none)	4	
BIOL	108 or 286	Medical Microbiology (none) OR General Microbiology (CHEM 122)	3	
BIOL	205	Human Anatomy and Physiology (CHEM 114)	5	
BIOL	300	Pathophysiology (BIOL 205 and CHEM 214)	3	
CHEM	114	Introduction to General Chemistry (CHEM 103 or HS Chem and Math 110 or ACT 19)	4	
CHEM	214	Fundamentals of Organic Chemistry (CHEM 114 or 121)	4	
CHEM	324	Fundamentals of Biochemistry (CHEM 214)	3	
Quantitative Skills: Proficiency or 4 Credits Required				
Recommended: MATH Also Accepted: MATH	117 115	Contemporary Mathematics (MATH 110 or ACT 19) Intermediate Algebra	4	
Cultural Enrichment: 9 Credits Required				
		Cultural Enrichment Elective	3	
		Cultural Enrichment Elective	3	
		Cultural Enrichment Elective (200 level or above)	3	
Social Foundations: 9 Credits Required				
		Social Foundations Elective	3	
		Social Awareness Elective	3	
		Social Awareness Elective (200 level or above)	3	
Other Requirements (4 Credits Required)				
CCHS	315	Epidemiology and Statistics (none)	3	

Progression: Students must complete BIOL 205, CHEM 214, all CLLS courses and CAHS courses with a grade of C or better. Students who return to the University after an interrupted enrollment (not including summer semester) must meet the requirements of the curriculum which are in effect at the time of their return, not the requirements which were in effect when they were originally admitted.

*FTIAC only.

**Internship is for 18 weeks

Students must meet the following University requirements: Cultural Enrichment – select three (3) courses with one at the 200 level or above; Social Awareness – Three (3) courses in two different areas, including one “Foundation” course, at the 200 level or higher, and one fulfilling race, ethnicity, and/or gender requirement. One of the Cultural Enrichment **OR** Social Awareness courses must fulfill Global Consciousness requirement. Students must earn a grade of C or better in the CAHS core courses, all CLLS courses, BIOL 205, and CHEM 214.

128 credits required for graduation

Revised 4/8/00
Revised 5/15/03
Revised 2/18/05
Revised 5/2/05

FERRIS STATE UNIVERSITY PROPOSED
COLLEGE OF ALLIED HEALTH SCIENCES
Medical Technology – Bachelor of Science Degree

Name _____ Student Number _____

CAHS Core Curriculum Requirements: 6-7 credits Required			
CCHS	101	Orientation to Health Care (none)	3
CCHS	102	Safety Issues in Health Care (none)	1
CCHS	103	Clinical Skills for Health Care Providers (CAHS enrollment)	1
MRIS	102	Orientation to Medical Vocabulary (none)	1
FSUS	100	Ferris State University Seminar (none) – FTIAC only	1
		Computer Competency	
Clinical Laboratory Sciences Courses: 62 Credits Required			
CLLS	101	Clinical Laboratory Science Orientation (none)	1
CLLS	122	Introduction to Specimen Collection (concurrent enrollment in CLLS 123; enrollment in MT, MLT, pre-MT or pre-MLT program)	2
CLLS	123	Specimen Collection Laboratory (concurrent enrollment in CLLS 122; enrollment in MT, MLT, pre-MT or pre-MLT program)	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, EHS 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
Clinical Laboratory Sciences Courses: 62 Credits Required, cont			
CLLS	480	Clinical Laboratory Science Applications (concurrent enrollment in CLLS 491)	1
CLLS	491	Clinical Laboratory Practice (CLLS 456, concurrent enrollment in CLLS 481)	10
CLLS	494	Management Practice in Clinical Laboratory Science (CLLS 465)	1
CLLS	499	Clinical Laboratory Science Seminar (last semester on campus)	1
Communication Competence: 12 Credits Required			

Recommended: COMM Also Accepted: COMM	221	Small Group Decision Making (none)	3	
	105	Interpersonal Communication	OR	
	121	Fundamentals of Public Speaking		
ENGL	150	English 1 (ENGL 074 or ACT 14)	3	
ENGL	250	English 2 (ENGL 150)	3	
ENGL	321	Advanced Composition (ENGL 250)	3	
Scientific Understanding: 26 Credits Required				
BIOL	103	Biological Concepts (none)	4	
BIOL	108 or 286	Medical Microbiology (none) OR General Microbiology (CHEM 122)	3	
BIOL	205	Human Anatomy and Physiology (CHEM 114)	5	
BIOL	300	Pathophysiology (BIOL 205 and CHEM 214)	3	
CHEM	114	Introduction to General Chemistry (CHEM 103 or HS Chem and Math 110 or ACT 19)	4	
CHEM	214	Fundamentals of Organic Chemistry (CHEM 114 or 121)	4	
CHEM	324	Fundamentals of Biochemistry (CHEM 214)	3	
Quantitative Skills: Proficiency or 4 Credits Required				
Recommended: MATH Also Accepted: MATH	117	Contemporary Mathematics (MATH 110 or ACT 19)	4	
	115	Intermediate Algebra		
Cultural Enrichment: 9 Credits Required				
		Cultural Enrichment Elective	3	
		Cultural Enrichment Elective	3	
		Cultural Enrichment Elective (200 level or above)	3	
Social Foundations: 9 Credits Required				
		Social Foundations Elective	3	
		Social Awareness Elective	3	
		Social Awareness Elective (200 level or above)	3	
Other Requirements (4 Credits Required)				
CCHS	315	Epidemiology and Statistics (none)	3	

Progression: Students must complete BIOL 205, CHEM 214, all CLLS courses and CAHS courses with a grade of C or better. Students who return to the University after an interrupted enrollment (not including summer semester) must meet the requirements of the curriculum which are in effect at the time of their return, not the requirements which were in effect when they were originally admitted.

*FTIAC only.

**Internship is for 18 weeks

Students must meet the following University requirements: Cultural Enrichment – select three (3) courses with one at the 200 level or above; Social Awareness – Three (3) courses in two different areas, including one “Foundation” course, at the 200 level or higher, and one fulfilling race, ethnicity, and/or gender requirement. One of the Cultural Enrichment OR Social Awareness courses must fulfill Global Consciousness requirement. Students must earn a grade of C or better in the CAHS core courses, all CLLS courses, BIOL 205, and CHEM 214.

128 credits required for graduation

Revised 4/8/00
Revised 5/15/03
Revised 2/18/05

FERRIS STATE UNIVERSITY CURRENT
COLLEGE OF ALLIED HEALTH SCIENCES
Medical Laboratory Technology – Associate in Applied Science Degree

Name _____ Student Number _____

COMMUNICATION COMPETENCE: 9 CREDITS REQUIRED				
ENGL	150	English 1	3	
ENGL	250	English 2 (ENGL 150)	3	
Recommended: COMM	221	Small Group Decision Making	3	
Also Accepted: COMM	105	Interpersonal Communication OR (105)		
	121	Fundamentals of Public Speaking		
QUANTITATIVE SKILLS: PROFICIENCY OR COURSE REQUIRED				
Recommended: MATH	117	Contemporary Mathematics or ACT Math subscore of 24	4	
Also Accepted: MATH	115	Intermediate Algebra	4	
SOCIAL AWARENESS: 3 CREDITS REQUIRED				
		Hyperlink to Social Awareness Courses Social Awareness Elective SOCY 121	3	
CULTURAL ENRICHMENT: 3 CREDITS REQUIRED				
		Hyperlink to Cultural Enrichment Elective: Cultural Enrichment Elective	3	
SCIENTIFIC UNDERSTANDING: 16 CREDITS REQUIRED				
BIOL	108	Medical Microbiology (none)	3	
BIOL	205	Human Anatomy and Physiology (CHEM 114)	5	
CHEM	114	Introduction to General Chemistry (CHEM 103 or HS Chem and Math 110 or ACT 19)	4	
CHEM	214	Fundamentals of Organic Chemistry (CHEM 114 or 121)	4	
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		OK
MRIS	102	Orientation to Medical Vocabulary or Medical Terminology Competency	1	
MLT MAJOR: 42 CREDITS REQUIRED				
CLLS	101	Clinical Laboratory Science Orientation (none)	1	
CLLS	122	Introduction to Specimen Collection (concurrent enrollment in CLLS 123)	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)	1	
CLLS	219	Hemostasis (BIOL 205)	1	
CLLS	220	Body Fluid 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	256	Simulated Clinical Laboratory (CLLS 217, 220, 232, 237, 253, 259)	3	
CLLS	258	Immunohematology (BIOL 205, CLLS 251 and 252, concurrent enrollment in CLLS 259)	2	
CLLS	259	Immunohematology Laboratory (concurrent enrollment in CLLS 258)	1	
CLLS	281	Application of Clinical Laboratory Science (CLLS 256)	1	
CLLS	292	Applied Clinical Practicum 1 (CLLS 256)	6	
CLLS	293	Applied Clinical Practicum 2 (CLLS 292)	5	

Students must earn a C or better in the CAHS core courses, all CLLS classes, CHEM 214, and BIOL 205.

83 – 84 total credits

Revised 4/5/00
 Revised 5/15/03
 Revised 4/26/05

FERRIS STATE UNIVERSITY PROPOSED
COLLEGE OF ALLIED HEALTH SCIENCES
Medical Laboratory Technology – Associate in Applied Science Degree

Name _____ Student Number _____

COMMUNICATION COMPETENCE: 9 CREDITS REQUIRED				
ENGL	150	English 1	3	
ENGL	250	English 2 (ENGL 150)	3	
Recommended: COMM	221	Small Group Decision Making	3	
Also Accepted: COMM	105	Interpersonal Communication OR (105)		
	121	Fundamentals of Public Speaking		
QUANTITATIVE SKILLS: PROFICIENCY OR COURSE REQUIRED				
Recommended: MATH	117	Contemporary Mathematics or ACT Math subscore of 24	4	
Also Accepted: MATH	115	Intermediate Algebra	4	
SOCIAL AWARENESS: 3 CREDITS REQUIRED				
		Hyperlink to Social Awareness Courses Social Awareness Elective SOCY 121	3	
CULTURAL ENRICHMENT: 3 CREDITS REQUIRED				
		Hyperlink to Cultural Enrichment Elective: Cultural Enrichment Elective	3	
SCIENTIFIC UNDERSTANDING: 16 CREDITS REQUIRED				
BIOL	108	Medical Microbiology (none)	3	
BIOL	205	Human Anatomy and Physiology (CHEM 114)	5	
CHEM	114	Introduction to General Chemistry (CHEM 103 or HS Chem and Math 110 or ACT 19)	4	
CHEM	214	Fundamentals of Organic Chemistry (CHEM 114 or 121)	4	
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		OK
MRS	102	Orientation to Medical Vocabulary or Medical Terminology Competency	1	
MLT MAJOR: 42 CREDITS REQUIRED				
CLLS	101	Clinical Laboratory Science Orientation (concurrent enrollment in CLLS 122;)	1	
CLLS	122	Introduction to Specimen Collection (concurrent enrollment in CLLS 123; enrollment in MT, MLT, pre-MT or pre-MLT program)	2	
CLLS	123	Specimen Collection Laboratory (concurrent enrollment in CLLS 122; enrollment in MT, MLT, pre-MT or pre-MLT program)	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)	1	
CLLS	219	Hemostasis (BIOL 205)	1	
CLLS	220	Body Fluid 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	

MLT MAJOR: 42 CREDITS REQUIRED				
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	256	Simulated Clinical Laboratory (CLLS 217, 220, 232, 237, 253, 259)	3	
CLLS	258	Immunohematology (BIOL 205, CLLS 251 and 252, concurrent enrollment in CLLS 259)	2	
CLLS	259	Immunohematology Laboratory (concurrent enrollment in CLLS 258)	1	
CLLS	281	Application of Clinical Laboratory Science (CLLS 256)	1	
CLLS	292	Applied Clinical Practicum 1 (CLLS 256)	6	
CLLS	293	Applied Clinical Practicum 2 (CLLS 292)	5	

Students must earn a C or better in the CAHS core courses, all CLLS classes, CHEM 214, and BIOL 205.

83 – 84 total credits

Revised 4/5/00
 Revised 5/15/03
 Revised 4/26/05

NEW COURSE INFORMATION FORM

Course Identification:

Prefix:	Number	Title
CLLS	122	Introduction to Specimen Collection

Course Description: An introduction to the knowledge and behaviors required to collect, process and transport specimens used for laboratory analysis. Co-Requisites: CLLS 123.

Course Outcomes and Assessment Plan: At the conclusion of this course, the student will be able to:

Outcome	Assessment Methods
Recognize and discuss factors that influence laboratory samples, including types of sample, and anatomy/physiology of blood and body fluids	Quizzes, case study discussion
Discuss factors that influence laboratory specimens, including pre-analytical patient variations	Quizzes, case study discussion
Recognize and resolve problems, in specimen collection	Quizzes, case study discussion
Discuss professional behaviors in the work place	Quizzes, case study discussion

Course Outline including Time Allocation:

Phlebotomy in Health Care:	2 hours
Safety, Infection Control:	2 hours
Blood Collection Equipment, Order of Draw:	3 hours
Venipuncture Procedures:	2 hours
Circulatory System:	2 hours
PreAnalytical Variables:	2 hours
Capillary Puncture:	2 hours
Special Collections:	2 hours
QA and Legal Issues:	2 hours
Elderly and Pediatric Patients:	2 hours
Non – Blood Samples:	2 hours
Computers and Lab Information Systems:	2 hours
Specimen Processing:	2 hours
Case Studies:	3 hours

MODIFY COURSE
Course Data Entry Form

FORM F

Modify Course
Rev. 07/23/07

I. ACTION TO BE TAKEN: MODIFY AN EXISTING COURSE

Notes:

- 1. Complete all parts of Sections I and II; complete only those items in Section III that represent changes.
- 2. If either prefix or number is being changed, use 'Delete Course' and 'Create New Course' forms rather than this form.

a. List the changes to be made (See Proposed Changes a through p below): n, p

b. Term Effective (6 digit code only): Examples: 200801(Spring), 200805(Summer), 200808(Fall)
Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. CURRENT: Include information that is in the current course database.

a. Course Prefix b. Number c. Enter Contact Hours per week in boxes.
LECTure LAB INDEpendent Study – Check (x)
Practicum: Seminar:

d. Course Title:

III. PROPOSED CHANGES: Complete only those boxes that represent proposed changes identified in Section I. Leave all other spaces blank.

a. Course Prefix b. Number c. Enter Contact Hours per week in boxes.
LECTure LAB INDEpendent Study – Check (x)
Practicum: Seminar:

d. Course Title: (Limit to 30 characters/spaces.)

e. College Code: f. Department Code:

Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.

g. Type: Variable Fixed h. Maximum Credit Hours i. Minimum Credit Hours

j. May Be Repeated for Added Credit: Check (x) Yes No

k. Levels: Check (x) Undergraduate Graduate Professional

l. Grade Method: Check (x) Normal Grading Credit/No Credit only (Pass/Fail)

m. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.

n. Term(s) Offered: (See instructions for listing.) o. Max. Section Enrollment:

p. Prerequisites/Co-requisites/Restrictions: Limited to 100 spaces.

UCC Chair Signature/Date:

Lumina Johnson/ps 4/14/10

Academic Affairs Approval Signature/Date:

Paul [unclear] 4/16/10

To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code

Basic Skill (BS) General Education (GE) Occupational Education (OC) G.E. Codes

Office of the Registrar use ONLY

Date Rec'd: ___ Date Completed: ___ Entered: SCACRSE ___ SCADETL ___ SCARRES ___ SCAPREQ ___

FORM E

NEW COURSE INFORMATION FORM

Course Identification:

Prefix: **Number** **Title**
CLLS **123** **Specimen Collection Laboratory**

Course Description:

Students gain experience in safe practices of venipuncture, dermal puncture, and specimen processing. Co-Requisites: CLLS 122. Typically Offered Spring

Course Outcomes and Assessment Plan:

At the completion of this course, the student will be able to:

Demonstrate safe practices while collecting blood samples, including use of personal protective equipment and hand washing	Peer evaluations and Instructor evaluations
Demonstrate safe practices while performing special procedures, including throat swabs and instructing patients about urine collection	Peer evaluations and Instructor evaluations
Demonstrate correct procedures while processing specimens for testing, including use of personal protective equipment and hand washing	Peer evaluations and Instructor evaluations
Demonstrate professional and ethical behaviors while dealing with various types of patients	Peer evaluations and Instructor evaluations

Course Outline including Time Allocation:

Hand washing, Personal protective equipment:	3 hours
Tie tourniquet, locate vein	3 hours
Venipuncture, artificial arm	15 hours
Venipuncture, real patient	10 hours
Dermal puncture	5 hours
Processing blood samples	3 hours
Throat swab collection	3 hours
Urine processing and testing	3 hours

MODIFY COURSE
Course Data Entry Form

FORM F

Modify Course
Rev. 07/23/07

I. ACTION TO BE TAKEN: MODIFY AN EXISTING COURSE

Notes:

- 3. Complete all parts of Sections I and II; complete only those items in Section III that represent changes.
- 4. If either prefix or number is being changed, use 'Delete Course' and 'Create New Course' forms rather than this form.

a. List the changes to be made (See Proposed Changes a through p below): n, p

b. Term Effective (6 digit code only): Examples: 200801(Spring), 200805(Summer), 200808(Fall)
Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. CURRENT: Include information that is in the current course database.

a. Course Prefix b. Number c. Enter Contact Hours per week in boxes.
LECture LAB INDEpendent Study – Check (x)
Practicum: Seminar:

d. Course Title:

III. PROPOSED CHANGES: Complete only those boxes that represent proposed changes identified in Section I. Leave all other spaces blank.

a. Course Prefix b. Number c. Enter Contact Hours per week in boxes.
LECture LAB INDEpendent Study – Check (x)
Practicum: Seminar:

d. Course Title: (Limit to 30 characters/spaces.)

e. College Code: f. Department Code:

Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.

g. Type: Variable Fixed h. Maximum Credit Hours i. Minimum Credit Hours

j. May Be Repeated for Added Credit: Check (x) Yes No

k. Levels: Check (x) Undergraduate Graduate Professional

l. Grade Method: Check (x) Normal Grading Credit/No Credit only (Pass/Fail)

m. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.

n. Term(s) Offered: (See instructions for listing.) o. Max. Section Enrollment:

p. Prerequisites/Co-requisites/Restrictions: Limited to 100 spaces.

UCC Chair Signature/Date:

Donna Johnson 4/14/10

Academic Affairs Approval Signature/Date:

Janet [Signature] 4/16/10

To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code

Basic Skill (BS) General Education (GE) Occupational Education (OC) G.E. Codes

Office of the Registrar use ONLY

Date Rec'd: _____ Date Completed: _____ Entered: SCACRSE ___ SCADETL ___ SCARRES ___ SCAPREQ ___

Empty rectangular box at the top of the page.

DELETE COURSE
Course Data Entry Form

FORM F

Delete Course
Rev. 7/23/07

I. ACTION TO BE TAKEN: DELETE COURSE FROM CATALOG.

Note: Complete each section.

The course described below will be moved to inactive status.

a. Term Effective: Term Year See instructions.

II. CURRENT COURSE TO BE DELETED FROM THE ACTIVE STATUS:

Include the information that is in the current course database.

a. Course Prefix

b. Number

c. Enter Contact Hours per week in boxes.
LECture LAB INDEpendent Study – Check (x)
Practicum: Seminar:

d. Full Course Title:

UCC Chair Signature/Date:

Donald Johnson/ph 4/14/10

Academic Affairs Approval Signature/Date:

David [Signature] 4/16/10

Office of the Registrar use ONLY

Date Rec'd: ___ Date Completed: ___ Entered: SCACRSE ___ SCADETL ___ SCARRES ___ SCAPREQ ___