

Revised 05/08/2009

**PROPOSAL SUMMARY AND ROUTING FORM**

**Proposal Title:** Delete CCHS 103

**Initiating Unit or Individual:** Ellen Haneline

**Contact Person's Name:** Ellen Haneline e-mail: haneline@ferris.edu phone: x2269

**Date or Term of Proposal Implementation:** Fall, 2010

- 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			<input type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
Department Faculty			<input type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
Department Head			<input type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
College Curriculum Committee			<input type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
College Faculty	<i>Ellen Haneline</i>	3/30/10	<u>33</u> <input checked="" type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
Dean	<i>Ellen Haneline</i>		<input checked="" type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
University Curriculum Committee	<i>Leonard Johnson, per</i>	4/14/10	<input checked="" type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
Senate	<i>Richard Duffin, per</i>	4/14/10	<input checked="" type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
Academic Affairs	<i>Paul Fluke</i>	4/16/10	<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)

VPAA  
**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.)

**CCHS 103 is being removed from the CORE requirements for all clinical programs within the College of Allied Health Sciences. After review of the course content and study by the college's Core Curriculum Committee over a period of years, it has been determined that the course content is either being taught in the professional courses or is no longer relevant to the programs for which it was designed. Removing the course as a requirement for all students, and allowing the content to remain in the professional programs reduces redundancy and expense for both the student and the university. Course content is assessed in the professional courses, therefore there are no changes in outcomes required.**

**2. Summary of All Course Action Required\***

**a. Newly Created Courses to FSU:**

<b>Prefix</b>	<b>Number</b>	<b>Title</b>
None		

**b. Courses to be Deleted From FSU Catalog:**

<b>Prefix</b>	<b>Number</b>	<b>Title</b>
CCHS	103	Clinical Skills for Health Care Providers

**c. Existing Course(s) to be Modified:**

<b>Prefix</b>	<b>Number</b>	<b>Title</b>
None		

**d. Addition of existing FSU courses to program**

<b>Prefix</b>	<b>Number</b>	<b>Title</b>
None		

**e. Removal of existing FSU courses from program**

<b>Prefix</b>	<b>Number</b>	<b>Title</b>
CCHS	103	Clinical Skills for Health Care Providers

**3. Summary of All Consultations**

**Form Sent (B or C)      Date Sent      Responding Dept.      Date Received & by Whom**  
**This change does not impact any of the curricula outside of the College of Allied Health Sciences**

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

\_\_\_\_\_ **Yes**                      \_\_\_\_\_ **No**      **Not applicable**

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

**5. Program Checksheets affected by this proposal.**

**Medical Laboratory Technology AAS**  
**Medical Technology BS**  
**Nursing BS**  
**Nuclear Medicine Technology BS**  
**Radiography AAS**  
**Respiratory Care AAS**  
**Diagnostic Medical Sonography AAS**  
**Dental Hygiene AAS**

# FERRIS STATE UNIVERSITY SCHOOL OF NURSING

## BACHELOR OF SCIENCE IN NURSING (BSN) PROGRAM FOR REGISTERED NURSING Curriculum Guide for Students

REQUIRED		COURSE TITLE – PRE/CO-REQUISITES IN ( )	CREDITS	GRADE	MET
<b>NURSING MAJOR: 71 CREDITS REQUIRED</b>					
NURS	240	Concepts of Professional Nursing (Pre: NURS Status)	4		
NURS	241	Technical Skills Lab (Pre: NURS Status)	2		
NURS	242	Health Assessment Lab (Pre: NURS status)	1		
NURS	243	Clinical Foundations 1 (Pre: NURS status)	2		
NURS	250	Health Promotion in Nursing (Pre: NURS 240, 241, 242, 243)	4		
NURS	251	Pharmacology in Nursing (Pre: NURS 240, 241, 242, 243)	3		
NURS	252	Clinical Foundations 2 (Pre: NURS 240, 241,242,243)	2		
NURS	300	Pathophysiology for Nursing (Pre: NURS 240, 241,242,243)	3		
NURS	340	Community Nursing (Pre: NURS 250, 251, 252, 300)	3		
NURS	341	Nursing Theory 1 (Pre: NURS 250, 251, 252,300)	4		
NURS	342	Clinical Nursing 1 (Pre: NURS 250, 251, 252, 300)	5		
NURS	350	Research in Nursing (Pre: NURS 340, 341, 342)	3		
NURS	351	Nursing Theory 2 (Pre: NURS 340, 341, 342)	4		
NURS	352	Clinical Nursing 2 (Pre: NURS 340, 341, 342)	5		
NURS	440	Leadership in Nursing (Pre: 350, 351,352)	3		
NURS	441	Nursing Theory 3 (Pre: NURS 350, 351, 352)	4		
NURS	442	Clinical Nursing 3 (Pre: NURS 350,351,352)	6		
NURS	450	Nursing Capstone (Pre: NURS 440, 441, 442)	3		
NURS	451	Nursing Theory 4 (Pre: NURS 440, 441, 442)	4		
NURS	452	Clinical Nursing 4 (Pre: NURS 440, 441, 442)	6		
<b>PROGRAM CORE &amp; BS DEGREE REQUIREMENTS – 51 CREDITS REQUIRED</b>					
<b>Communication Competence – 12 Credits Required</b>					
ENGL	150	English 1 (none)	3		
ENGL	250	English 2 (ENGL 150)	3		
COMM		Choose one: COMM 105, COMM 121 or COMM 221 (none)	3		
ENGL	321	Advanced English Composition (ENGL 250)	3		
<b>Scientific Understanding – 12 Credits Required</b>					
BIOL	108	Medical Microbiology (None)	3		
CHEM	114	Intro to General Chemistry (HS Chemistry or CHEM 103)	4		
BIOL	205	Anatomy and Physiology (CHEM 114)	5		
<b>Social Awareness – 9 Credits Required</b>					
ELEC		Foundation Course: PSYC 150 , SOCY 121 or ANTH 122 recommended	3		
ELEC		Social Awareness Elective	3		
ELEC		Social Awareness Elective – 200 level or higher	3		
<b>Cultural Enrichment – 9 Credits Required</b>					
ELEC		Cultural Enrichment Elective	3		
ELEC		Cultural Enrichment Elective - PHIL 220 or 320 Recommended	3		
ELEC		Cultural Enrichment Elective – 200 level or higher	3		
<b>CAHS Core Curriculum Requirements – 9 Credits Required</b>					
CCHS	101	Orientation to Health Care (none)	3		
CCHS	102	Safety Issues in Health Care (none)	1		
CCHS	103	Clinical Skills (none)	1		
MRIS	102	Orientation to Medical Vocabulary (none)	1		
CCHS	315	Epidemiology & Statistics (none)	3		
		Computer Competency – course or proficiency demonstrated			
<b>Quantitative Skills – Proficiency or Course Required</b>					
		ACT – Math score of 24 or higher or MATH 115 or 117 –Grade B-			

<b>GENERAL EDUCATION REQUIREMENTS FOR BS DEGREE</b>	<b>Requirement Met</b>
<b>COMMUNICATION COMPETENCE – 12 CREDITS REQUIRED:</b> <i>Met In Program Core</i>	
<b>SCIENTIFIC UNDERSTANDING – 7-8 CREDITS REQUIRED:</b> <i>Met In Program Core</i>	
<b>SOCIAL AWARENESS – 9 CREDITS REQUIRED:</b> <i>Met in Program Core</i>	
<b>CULTURAL ENRICHMENT – 9 CREDITS REQUIRED:</b> <i>Met in Program Core</i>	
<b>QUANTITATIVE SKILLS – PROFICIENCY OR COURSE REQUIRED</b> <i>Program Admission Requirement</i>	
<b>GLOBAL CONSCIOUSNESS – 1course selected from Cultural or Social Electives</b> <i>Met in Program Core</i>	
<b>RACE/ETHNICITY/GENDER – 1course selected from Cultural or Social Electives</b> <i>Met in Program Core</i>	
<b>CAHS CORE CURRICULUM REQUIREMENTS – 9 CREDITS REQUIRED:</b> <i>Met In Program Core</i>	

<b>NURSING PROGRAM REQUIREMENTS FOR PROGRESSION &amp; GRADUATION</b>	<b>Requirement Met</b>
<ul style="list-style-type: none"> <li>All Pre-Nursing students must attend the scheduled group advising sessions each semester until they enter the program.</li> <li>Total Program Credits = 122</li> <li>A minimum of 40 credits are required at the 300 level or above for the BS degree</li> <li>A grade of 2.7 or "B-" is required for all MATH, BIOL &amp; CHEM courses. <i>These courses may only be repeated once. Two (2) Unsuccessful attempts will result in dismissal from the nursing program.</i></li> <li>A grade of 2.0 or "C" is required for all NURS courses. <i>Two unsuccessful (less than C) attempts in any NURS course(s) will result in dismissal from the nursing program.</i></li> <li>A grade of 2.0 or "C" is required for all CAHS Core Curriculum Courses: ENGL 150, 250 &amp; 321, COMM foundation course and CCHS 101, 102 &amp; 103 and EHSM 315</li> <li>Service Learning Project</li> <li>Professional Portfolio</li> <li>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</li> </ul>	
Initial Course Evaluation for Program Entry: _____	Advisor/Date _____
Check sheet Review End of Level 1: _____	Advisor/Date _____
Check sheet Review End of Level 2: _____	Advisor/Date _____
Check sheet Review End of Level 3: _____	Advisor/Date _____
Graduation Clearance Form Complete: _____ (date)	(Advisor) _____

**Notes:**

**FERRIS STATE UNIVERSITY  
SCHOOL OF NURSING**

FORM D PROPOSED

**BACHELOR OF SCIENCE IN NURSING (BSN) PROGRAM  
FOR REGISTERED NURSING  
Curriculum Guide for Students – Effective Fall 2010**

REQUIRED		COURSE TITLE – PRE/CO-REQUISITES IN ( )	CREDITS	GRADE	MET
<b>NURSING MAJOR: 71 CREDITS REQUIRED</b>					
NURS	240	Concepts of Professional Nursing (Pre: NURS Status)	4		
NURS	241	Technical Skills Lab (Pre: NURS Status)	2		
NURS	242	Health Assessment Lab (Pre: NURS status)	1		
NURS	243	Clinical Foundations 1 (Pre: NURS status)	2		
NURS	250	Health Promotion in Nursing (Pre: NURS 240, 241, 242, 243)	4		
NURS	251	Pharmacology in Nursing (Pre: NURS 240, 241, 242, 243)	3		
NURS	252	Clinical Foundations 2 (Pre: NURS 240, 241,242,243)	2		
NURS	300	Pathophysiology for Nursing (Pre: NURS 240, 241,242,243)	3		
NURS	340	Community Nursing (Pre: NURS 250, 251, 252, 300)	3		
NURS	341	Nursing Theory 1 (Pre: NURS 250, 251, 252,300)	4		
NURS	342	Clinical Nursing 1 (Pre: NURS 250, 251, 252, 300)	5		
NURS	350	Research in Nursing (Pre: NURS 340, 341, 342)	3		
NURS	351	Nursing Theory 2 (Pre: NURS 340, 341, 342)	4		
NURS	352	Clinical Nursing 2 (Pre: NURS 340, 341, 342)	5		
NURS	440	Leadership in Nursing (Pre: 350, 351,352)	3		
NURS	441	Nursing Theory 3 (Pre: NURS 350, 351, 352)	4		
NURS	442	Clinical Nursing 3 (Pre: NURS 350,351,352)	6		
NURS	450	Nursing Capstone (Pre: NURS 440, 441, 442)	3		
NURS	451	Nursing Theory 4 (Pre: NURS 440, 441, 442)	4		
NURS	452	Clinical Nursing 4 (Pre: NURS 440, 441, 442)	6		
<b>PROGRAM CORE &amp; BS DEGREE REQUIREMENTS – 50 CREDITS REQUIRED</b>					
<b>Communication Competence – 12 Credits Required</b>					
ENGL	150	English 1 (none)	3		
ENGL	250	English 2 (ENGL 150)	3		
COMM		Choose one: COMM 105, COMM 121 or COMM 221 (none)	3		
ENGL	321	Advanced English Composition (ENGL 250)	3		
<b>Scientific Understanding – 12 Credits Required</b>					
BIOL	108	Medical Microbiology (None)	3		
CHEM	114	Intro to General Chemistry (HS Chemistry or CHEM 103)	4		
BIOL	205	Anatomy and Physiology (CHEM 114)	5		
<b>Social Awareness – 9 Credits Required</b>					
ELEC		Foundation Course: PSYC 150 , SOCY 121 or ANTH 122 recommended	3		
ELEC		Social Awareness Elective	3		
ELEC		Social Awareness Elective – 200 level or higher	3		
<b>Cultural Enrichment – 9 Credits Required</b>					
ELEC		Cultural Enrichment Elective	3		
ELEC		Cultural Enrichment Elective - PHIL 220 or 320 Recommended	3		
ELEC		Cultural Enrichment Elective – 200 level or higher	3		
<b>CAHS Core Curriculum Requirements – 8 Credits Required</b>					
CCHS	101	Orientation to Health Care (none)	3		
CCHS	102	Safety Issues in Health Care (none)	1		
MRIS	102	Orientation to Medical Vocabulary (none)	1		
CCHS	315	Epidemiology & Statistics (none)	3		
		Computer Competency – course or proficiency demonstrated			
<b>Quantitative Skills – Proficiency or Course Required</b>					
		ACT – Math score of 24 or higher or MATH 115 or 117 –Grade B-			

<b>GENERAL EDUCATION REQUIREMENTS FOR BS DEGREE</b>	<b>Requirement Met</b>
<b>COMMUNICATION COMPETENCE – 12 CREDITS REQUIRED:</b> <i>Met In Program Core</i>	
<b>SCIENTIFIC UNDERSTANDING – 7-8 CREDITS REQUIRED:</b> <i>Met In Program Core</i>	
<b>SOCIAL AWARENESS – 9 CREDITS REQUIRED:</b> <i>Met in Program Core</i>	
<b>CULTURAL ENRICHMENT – 9 CREDITS REQUIRED:</b> <i>Met in Program Core</i>	
<b>QUANTITATIVE SKILLS – PROFICIENCY OR COURSE REQUIRED</b> <i>Program Admission Requirement</i>	
<b>GLOBAL CONSCIOUSNESS – 1course selected from Cultural or Social Electives</b> <i>Met in Program Core</i>	
<b>RACE/ETHNICITY/GENDER – 1course selected from Cultural or Social Electives</b> <i>Met in Program Core</i>	
<b>CAHS CORE CURRICULUM REQUIREMENTS – 8 CREDITS REQUIRED:</b> <i>Met In Program Core</i>	

<b>NURSING PROGRAM REQUIREMENTS FOR PROGRESSION &amp; GRADUATION</b>	<b>Requirement Met</b>
<ul style="list-style-type: none"> <li>All Pre-Nursing students must attend the scheduled group advising sessions each semester until they enter the program.</li> <li>Total Program Credits = 121</li> <li>A minimum of 40 credits are required at the 300 level or above for the BS degree</li> <li>A grade of 2.7 or "B-" is required for all MATH, BIOL &amp; CHEM courses. <i>These courses may only be repeated once. Two (2) Unsuccessful attempts will result in dismissal from the nursing program.</i></li> <li>A grade of 2.0 or "C" is required for all NURS courses. <i>Two unsuccessful (less than C) attempts in any NURS course(s) will result in dismissal from the nursing program.</i></li> <li>A grade of 2.0 or "C" is required for all CAHS Core Curriculum Courses: ENGL 150, 250 &amp; 321, COMM foundation course and CCHS 101 &amp; 102 and CCHS 315</li> <li>Service Learning Project</li> <li>Professional Portfolio</li> <li>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</li> </ul>	
Initial Course Evaluation for Program Entry: _____	Advisor/Date _____
Check sheet Review End of Level 1: _____	Advisor/Date _____
Check sheet Review End of Level 2: _____	Advisor/Date _____
Check sheet Review End of Level 3: _____	Advisor/Date _____
Graduation Clearance Form Complete: _____ (date)	(Advisor) _____

**Notes:**

Revised: 3/1/10

**FERRIS STATE UNIVERSITY**  
**DENTAL HYGIENE PROGRAM – ASSOCIATE DEGREE**  
**Curriculum Guide for Students Entering the Program**  
**Beginning Fall of 2009**

REQUIRED		COURSE TITLE-PRE-REQUISITES IN ( )	CR	GRADE	REQ. MET
<b>MAJOR: 47 CREDITS REQUIRED</b>					
DHYG	111	Oral Science 1 (DHYG students only)	3		
DHYG	114	Clinical Dental Hygiene Theory 1 (DHYG students only)	2		
DHYG	115	Clinical Dental Hygiene Practice 1 (DHYG students only)	3		
DHYG	121	Oral Science 2 (DHYG 111)	2		
DHYG	122	Dental Radiography (DHYG 111)	3		
DHYG	123	General/Oral Pathology (DHYG 111)	3		
DHYG	124	Clinical Dental Hygiene Theory 2 (DHYG 114)	2		
DHYG	125	Clinical Dental Hygiene Practice 2 (DHYG 114 & 115)	3		
DHYG	209	Dental Materials (DHYG 121 & DHYG 109)	2		
DHYG	213	Periodontics (DHYG 123)	3		
DHYG	214	Clinical Dental Hygiene Theory 3 (DHYG 124 & 125)	2		
DHYG	215	Clinical Dental Hygiene Practice 3 (DHYG 125)	4		
DHYG	217	Community Dentistry 1 (DHYG students only)	2		
DHYG	218	Pharmacology for Dental Hygiene (DHYG 123)	2		
DHYG	219	Pain Management (DHYG 121, DHYG 125, DHYG 218)	2		
DHYG	224	Clinical Dental Hygiene Theory 4 (DHYG 214 & 215)	2		
DHYG	225	Clinical Dental Hygiene Practice 4 (DHYG 209, DHYG 214 & DHYG 115)	4		
DHYG	227	Community Dentistry 2 (DHYG 217)	2		
DHYG	291	Dental Hygiene Practicum (DHYG 215) (optional course)	1-2		
<b>COMMUNICATION COMPETENCE – 9 CREDITS REQUIRED</b>					
COMM	105	Interpersonal Communication (none)	3		
	221	Small Group Decision Making (none)			
ENGL	150	English 1 (ENGL 074 or a minimum score of 14 on ACT or a minimum score of 370 on SAT)	3		
ENGL	250	English 2 (ENGL 150 with a C grade or better)	3		
<b>SCIENTIFIC UNDERSTANDING -12 CREDITS REQUIRED</b>					
BIOL	108	Medical Microbiology (none)	3		
BIOL	205	Anatomy and Physiology (CHEM 114)	5		
CHEM	114	Introduction to Inorganic Chemistry (CHEM 103 or yr of HS CHEM + MATH110 w/grade of C-/better or ACT 19 or SAT 460)	4		
<b>QUANTITATIVE SKILLS – PROFICIENCY OR COURSE REQUIRED</b>					
		Math ACT subscore of 19 or higher, or MATH 110			

REQUIRED	COURSE TITLE-PRE-REQUISITES IN ( )		CR	GRADE	REQ. MET
<b>SOCIAL AWARENESS – 6 CREDITS REQUIRED</b>					
PSYC	150	Introduction to Psychology (Reading score of 17 ACT or Verbal 430 SAT or READ 106 w/grade of C/better)	3		
SOCY	121	Introduction to Sociology (Reading score of 17 ACT or Verbal 430 SAT or READ 106 w/grade of C/better)	3		
<b>CULTURAL ENRICHMENT – 3 CREDITS REQUIRED</b>					
		Cultural Enrichment Elective Course	3		
<b>CAHS CORE CURRICULUM / OTHER REQUIREMENTS – 6 CREDITS REQUIRED</b>					
CCHS	101	Orientation to Health Care (none)	3		
CCHS	102	Safety Issues in Health Care (none)	1		
CCHS	103	Clinical Skills (none)	1		
MRIS	102	Orientation to Medical Vocabulary	1		
		Computer Competency – course or proficiency demonstrated			
		<b>Total Program Credits required for Graduation</b>	<b>82</b>		
<b>PROGRAM REQUIREMENTS FOR PROGRESSION/GRADUATION</b>					
<ul style="list-style-type: none"> <li>➤ Student Progression in the Associate Degree Dental Hygiene Program without interruption is determined academically by achieving a minimum grade of "C" (2.0) in each dental hygiene course. Progression includes graduation, and a dental hygiene student may not graduate if he/she receives less than a "C" grade in any course listed on the Dental Hygiene check sheet.</li> </ul>					
<ul style="list-style-type: none"> <li>➤ If a grade of C- or below is received in a DHYG course, the student will be denied continued progression in the professional sequence. An individualized contract will be developed to determine a mechanism for the student to maintain dental hygiene clinical skills until such time the student can re-enter the professional sequence.</li> </ul>					
<ul style="list-style-type: none"> <li>➤ No course in the professional sequence may be taken more than twice. If on the second attempt of the professional sequence course, a student receives a grade lower than a "C", the student will be dismissed from the program.</li> </ul>					
<ul style="list-style-type: none"> <li>➤ Students must successfully complete all dental hygiene courses and general education courses indicated on the Dental Hygiene check sheet with a "C" or better.</li> </ul>					

Approved 12/12/05  
Revised: 1/27/06  
Revised: 3/10/09

**FERRIS STATE UNIVERSITY  
DENTAL HYGIENE PROGRAM – ASSOCIATE DEGREE  
Curriculum Guide for Students Entering Fall 2010**

Name: \_\_\_\_\_

Student Number: \_\_\_\_\_

REQUIRED		COURSE TITLE-PRE-REQUISITES IN ( )	CR	GRADE	REQ. MET
<b>MAJOR: 46 CREDITS REQUIRED</b>					
DHYG	111	Oral Science 1 (DHYG students only)	3		
DHYG	114	Clinical Dental Hygiene Theory 1 (DHYG students only)	2		
DHYG	115	Clinical Dental Hygiene Practice 1 (DHYG students only)	3		
DHYG	121	Oral Science 2 (DHYG 111)	2		
DHYG	122	Dental Radiography (DHYG 111)	3		
DHYG	123	General/Oral Pathology (DHYG 111)	3		
DHYG	124	Clinical Dental Hygiene Theory 2 (DHYG 114)	2		
DHYG	125	Clinical Dental Hygiene Practice 2 (DHYG 114 & 115)	3		
DHYG	209	Dental Materials (DHYG 111)	2		
DHYG	213	Periodontics (DHYG 123)	3		
DHYG	214	Clinical Dental Hygiene Theory 3 (DHYG 124 & 125)	2		
DHYG	215	Clinical Dental Hygiene Practice 3 (DHYG 125)	4		
DHYG	217	Community Dentistry 1 (DHYG students only)	2		
DHYG	218	Pharmacology for Dental Hygiene (DHYG 123)	2		
DHYG	219	Pain Management (DHYG 121, DHYG 125, DHYG 218)	2		
DHYG	224	Clinical Dental Hygiene Theory 4 (DHYG 214 & 215)	2		
DHYG	225	Clinical Dental Hygiene Practice 4 (DHYG 209, DHYG 214 & DHYG 115)	4		
DHYG	227	Community Dentistry 2 (DHYG 217)	2		
DHYG	291	Dental Hygiene Practicum (DHYG 215) (optional course)	(1-2)		
<b>COMMUNICATION COMPETENCE – 9 CREDITS REQUIRED</b>					
COMM	105	Interpersonal Communication (none)	3		
	221	Small Group Decision Making (none)			
ENGL	150	English 1 (ENGL 074 or a minimum score of 14 on ACT or a minimum score of 370 on SAT)	3		
ENGL	250	English 2 (ENGL 150 with a C grade or better)	3		
<b>SCIENTIFIC UNDERSTANDING -12 CREDITS REQUIRED</b>					
BIOL	108	Medical Microbiology (none)	3		
BIOL	205	Anatomy and Physiology (CHEM 114)	5		
CHEM	114	Introduction to Inorganic Chemistry (CHEM 103 or yr of HS Chem + MATH110 w/grade of C-/better or ACT 19 or SAT 460)	4		
<b>QUANTITATIVE SKILLS – PROFICIENCY OR COURSE REQUIRED</b>					
		Math ACT subscore of 19 or higher, or MATH 110			

REQUIRED		COURSE TITLE-PRE-REQUISITES IN ( )	CR	GRADE	REQ. MET
<b>SOCIAL AWARENESS – 3 CREDITS REQUIRED</b>					
PSYC	150	Introduction to Psychology (Reading score of 17 ACT or Verbal 430 SAT or READ 106 w/grade of C/better)	3		
SOCY	121	Introduction to Sociology (Reading score of 17 ACT or Verbal 430 SAT or READ 106 w/grade of C/better)	3		
<b>CULTURAL ENRICHMENT – 3 CREDITS REQUIRED</b>					
		Cultural Enrichment Elective Course	3		
<b>CAHS CORE CURRICULUM / OTHER REQUIREMENTS – 5 CREDITS REQUIRED</b>					
CCHS	101	Orientation to Health Care (none)	3		
CCHS	102	Safety Issues in Health Care (none)	1		
MRIS	102	Orientation to Medical Vocabulary	1		
		Computer Competency – course or proficiency demonstrated			
		<b>Total Program Credits required for Graduation</b>	<b>81</b>		
<b>PROGRAM REQUIREMENTS FOR PROGRESSION/GRADUATION</b>					
➤ Student Progression in the Associate Degree Dental Hygiene Program without interruption is determined academically by achieving a minimum grade of "C" (2.0) in each course. Progression includes graduation, and a dental hygiene student may not graduate if he/she receives less than a "C" grade in any course listed on the Dental Hygiene check sheet.					
➤ In order to progress in the professional sequence of the program, a grade of C or better is required in all courses. If a student does not pass a course with a C or better, they may reapply to the professional sequence during the next application period. Students may not retake more than one professional sequence course.					
➤ No course in the professional sequence may be taken more than twice. If on the second attempt of the professional sequence course, a student receives a grade lower than a "C", the student will be dismissed from the program.					
➤ Students who return to the University after an interrupted enrollment (not including summer semester) must meet the requirements which were in effect when they were originally admitted.					
<b>Graduation Clearance Form Complete: _____ (date) _____ (advisor)</b>					

\_\_\_\_\_ Advisor Signature Date \_\_\_\_\_

\_\_\_\_\_ Student Signature Date \_\_\_\_\_

**FERRIS STATE UNIVERSITY  
COLLEGE OF ALLIED HEALTH SCIENCES  
DIAGNOSTIC MEDICAL SONOGRAPHY – ASSOCIATE IN APPLIED SCIENCE**

Name: \_\_\_\_\_ Student ID #: \_\_\_\_\_

REQUIRED		COURSE TITLE – PREREQUISITES IN ( )	CRED	GRADE	REQ MET
<b>DMS MAJOR: 56 CREDITS REQUIRED</b>					
SONO	100	Introduction to DMS (admission to professional sequence)	1		
SONO	102	Intro. to Sono. Imaging (admission to professional sequence)	1		
SONO	104	Intro. to Ultrasound Physics (admission to professional sequence)	3		
SONO	105	Sono. Physics lab (admission to professional sequence)	1		
SONO	111	Sonographic Pathophysiology of Abdominal Organs(SONO 100, 102, 104, 105)	4		
SONO	112	Abdominal Imaging lab (SONO 100, 102, 104, 105)	1		
SONO	115	Sono Cross Sectional Anatomy (SONO 100, 102, 104, 105)	1		
SONO	117	Intro. to Sono. Interpretation (SONO 100, 102, 104, 105)	2		
SONO	121	Intro. to OB/GYN Imaging (SONO 111, 112, 115, 117)	3		
SONO	122	OB/GYN Imaging Lab (SONO 111, 112, 115, 117)	1		
SONO	131	Hemo. and Doppler Principles (SONO 111, 112, 115, 117)	1		
SONO	132	Hemo. and Doppler Lab (SONO 111, 112, 115, 117)	1		
SONO	280	Clinical Internship 1 (SONO 121, 122, 131, 132)	8		
SONO	281	Small Parts and Invasive procedures (SONO 121,122,131,132)	4		
SONO	282	Clinical Internship II (SONO 280, 281)	8		
SONO	283	OB/GYN Imaging II (SONO 280,281)	4		
SONO	284	Clinical Internship III (SONO 282,283)	8		
SONO	285	Sonographic Interpretation II (SONO 282, 283)	3		
SONO	287	Management in DMS (SONO 282,283, equivalent)	1		
<b>Communication Competence 6 credits required</b>					
ENGL	250	English 2 (Engl 150 grade C or higher)	3		
COMM	105 or 221	Interpersonal communication (none)  Small group decision making (none)	3		
<b>SCIENTIFIC UNDERSTANDING: 8 CREDITS REQUIRED</b>					
BIOL	109	Basic Human Anatomy & Physiology (none)	4		
PHYS	130	Concepts of Physics (Math 110 C- or 19 ACT or 460 SAT)	4		
<b>QUANTITATIVE SKILLS: PROFICIENCY OR COURSE REQUIRED</b>					
		ACT – Math subscore of 24 or higher or MATH 115 grade of C			
		ENGL 150 grade of C or competency			
<b>SOCIAL AWARENESS: 3 CREDITS REQUIRED</b>					

ELEC		Social Awareness Elective – 200 level or higher	3		
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<b>CULTURAL ENRICHMENT: 3 CREDITS REQUIRED</b>					
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ELEC		Cultural Enrichment Elective	3		
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<b>CAHS CORE REQUIREMENTS: 5 CREDITS REQUIRED</b>					
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CCHS	101	Orientation to Health Care (none)	3		
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CCHS	102	Safety Issues in Health Care (none)	1		
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CCHS	103	Clinical Skills (none)	1		
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<b>OTHER REQUIREMENTS</b>					
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		Computer Competency – Course or proficiency			
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		A grade of C or better is required for all courses on the checksheet and FSUS 100.			
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		An overall GPA of 2.0 or better is required for graduation.			
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		BIOL 109, PHYS 130, MRIS 102, MATH 115, and ENGL 150 with a grade of C or better, or equivalency/proficiency are required prerequisites to the professional sequence.			
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		All general education course must be completed with a grade of C or better before entering SONO 280.			
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		In order to progress in the professional sequence of the program, a grade of C or better is required in all program courses. If a student does not pass a program course with a grade of C or better, they may re-apply to the program. Students may not retake more than one professional sequence course.			
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		<b>TOTAL PROGRAM CREDITS</b>	<b>81</b>		
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Students who return to the University after an interrupted enrollment (not including summer semester) must meet the requirements which were in effect when they were originally admitted.

Academic Advisor: \_\_\_\_\_ Date of Initial Evaluation: \_\_\_\_\_

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Graduation Clearance Form Complete: \_\_\_\_\_ Date: \_\_\_\_\_

Revised 5/22/08  
 Revised 11/5/09  
 Revised 02/09/10

**FERRIS STATE UNIVERSITY  
COLLEGE OF ALLIED HEALTH SCIENCES  
DIAGNOSTIC MEDICAL SONOGRAPHY – ASSOCIATE IN APPLIED SCIENCE**

Name: \_\_\_\_\_ Student ID #: \_\_\_\_\_

REQUIRED		COURSE TITLE – PREREQUISITES IN ( )	CRED	GRADE	REQ MET
<b>DMS MAJOR: 56 CREDITS REQUIRED</b>					
SONO	100	Introduction to DMS (admission to professional sequence)	1		
SONO	102	Intro. to Sono. Imaging (admission to professional sequence)	1		
SONO	104	Intro. to Ultrasound Physics (admission to professional sequence)	3		
SONO	105	Sono. Physics lab (admission to professional sequence)	1		
SONO	111	Sonographic Pathophysiology of Abdominal Organs(SONO 100, 102, 104, 105)	4		
SONO	112	Abdominal Imaging lab (SONO 100, 102, 104, 105)	1		
SONO	115	Sono Cross Sectional Anatomy (SONO 100, 102, 104, 105)	1		
SONO	117	Intro. to Sono. Interpretation (SONO 100, 102, 104, 105)	2		
SONO	121	Intro. to OB/GYN Imaging (SONO 111, 112, 115, 117)	3		
SONO	122	OB/GYN Imaging Lab (SONO 111, 112, 115, 117)	1		
SONO	131	Hemo. and Doppler Principles (SONO 111, 112, 115, 117)	1		
SONO	132	Hemo. and Doppler Lab (SONO 111, 112, 115, 117)	1		
SONO	280	Clinical Internship 1 (SONO 121, 122, 131, 132)	8		
SONO	281	Small Parts and Invasive procedures (SONO 121,122,131,132)	4		
SONO	282	Clinical Internship II (SONO 280, 281)	8		
SONO	283	OB/GYN Imaging II (SONO 280,281)	4		
SONO	284	Clinical Internship III (SONO 282,283)	8		
SONO	285	Sonographic Interpretation II (SONO 282, 283)	3		
SONO	287	Management in DMS (SONO 282,283, equivalent)	1		
<b>Communication Competence 6 credits required</b>					
ENGL	250	English 2 (Engl 150 grade C or higher)	3		
COMM	105 or 221	Interpersonal communication (none)  Small group decision making (none)	3		
<b>SCIENTIFIC UNDERSTANDING: 8 CREDITS REQUIRED</b>					
BIOL	109	Basic Human Anatomy & Physiology (none)	4		
PHYS	130	Concepts of Physics (Math 110 C- or 19 ACT or 460 SAT)	4		
<b>QUANTITATIVE SKILLS: PROFICIENCY OR COURSE REQUIRED</b>					
		ACT – Math subscore of 24 or higher or MATH 115 grade of C			
		ENGL 150 grade of C or competency			
<b>SOCIAL AWARENESS: 3 CREDITS REQUIRED</b>					

ELEC		Social Awareness Elective – 200 level or higher	3		
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<b>CULTURAL ENRICHMENT: 3 CREDITS REQUIRED</b>					
ELEC		Cultural Enrichment Elective	3		
<b>CAHS CORE REQUIREMENTS: 4 CREDITS REQUIRED</b>					
CCHS	101	Orientation to Health Care (none)	3		
CCHS	102	Safety Issues in Health Care (none)	1		
<b>OTHER REQUIREMENTS</b>					
		Computer Competency – Course or proficiency			
		A grade of C or better is required for all courses on the checksheet and FSUS 100.			
		An overall GPA of 2.0 or better is required for graduation.			
		BIOL 109, PHYS 130, MRIS 102, MATH 115, and ENGL 150 with a grade of C or better, or equivalency/proficiency are required prerequisites to the professional sequence.			
		All general education course must be completed with a grade of C or better before entering SONO 280.			
		In order to progress in the professional sequence of the program, a grade of C or better is required in all program courses. If a student does not pass a program course with a grade of C or better, they may re-apply to the program. Students may not retake more than one professional sequence course.			
		<b>TOTAL PROGRAM CREDITS</b>	<b>80</b>		

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

Academic Advisor: \_\_\_\_\_ Date of Initial Evaluation: \_\_\_\_\_

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Graduation Clearance Form Complete: \_\_\_\_\_ Date: \_\_\_\_\_

Revised 11/5/09  
 Revised 02/09/10  
 Revised 03/01/10

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

<b>CAHS Core Curriculum Requirements: 6-7 Credits Required</b>			
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	
<b>Science Courses: 26 Credits Required</b>			
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
<b>Communication Competence: 12 Credits Required</b>			
COMM or COMM or COMM	105 121 221	Interpersonal Communication Fundamentals of Public Speaking Small Group Decision Making (none)	3
ENGL	150	English 1 (ENGL 074 or ACT 14)	3
ENGL	250	English 2 (ENGL 150)	3
ENGL	321	Advanced Composition (ENGL 250)	3
<b>Cultural Enrichment: 9 Credits Required</b>			
		Cultural Enrichment Elective	3
		Cultural Enrichment Elective	3
		Cultural Enrichment Elective (200 level or above)	3
<b>Social Foundations: 9 Credits Required</b>			
		Social Foundations Elective	3
		Social Awareness Elective	3
		Social Awareness Elective (200 level or above)	3
<b>Other Requirements: 3 Credits Required</b>			
CCHS	315	Epidemiology and Statistics (none)	3
<b>Quantitative Skills: Proficiency or 4 Credits Required</b>			
		ACT Math Subscore of 24 or higher, or MATH 115 or 117	4
<b>Scientific Understanding: (Met by program requirements)</b>			
<b>Clinical Laboratory Sciences Courses: 58 Credits Required</b>			
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

<b>Clinical Laboratory Sciences Courses: 58 Credits Required, cont</b>				
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	481	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	

\* Students must meet the following University requirements regarding electives: 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 and one at the 200 level or higher. One of the Cultural Enrichment **OR** Social Awareness courses must fulfill Global Consciousness requirement, and one must fulfill the Race, Ethnicity, or Gender requirement. Students must earn a grade of "C" or better in the CAHS core courses, all CLLS courses, BIOL 205, and CHEM 214.

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.

### **123 – 124 credits required for graduation**

Revised 6/19/07  
Revised 9/15/09

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

<b>CAHS Core Curriculum Requirements: 5-6 Credits Required</b>			
CCHS	101	Orientation to Health Care (none)	3
CCHS	102	Safety Issues in Health Care (none)	1
MRIS	102	Orientation to Medical Vocabulary (none)	1
FSUS	100	Ferris State University Seminar (none) – FTIAC only	1
		Computer Competency	
<b>Science Courses: 26 Credits Required</b>			
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
<b>Communication Competence: 12 Credits Required</b>			
COMM or COMM or COMM	105 121 221	Interpersonal Communication Fundamentals of Public Speaking Small Group Decision Making (none)	3
ENGL	150	English 1 (ENGL 074 or ACT 14)	3
ENGL	250	English 2 (ENGL 150)	3
ENGL	321	Advanced Composition (ENGL 250)	3
<b>Cultural Enrichment: 9 Credits Required</b>			
		Cultural Enrichment Elective	3
		Cultural Enrichment Elective	3
		Cultural Enrichment Elective (200 level or above)	3
<b>Social Foundations: 9 Credits Required</b>			
		Social Foundations Elective	3
		Social Awareness Elective	3
		Social Awareness Elective (200 level or above)	3
<b>Other Requirements: 3 Credits Required</b>			
CCHS	315	Epidemiology and Statistics (none)	3
<b>Quantitative Skills: Proficiency or 4 Credits Required</b>			
		ACT Math Subscore of 24 or higher, or MATH 115 or 117	4
<b>Scientific Understanding: (Met by program requirements)</b>			
<b>Clinical Laboratory Sciences Courses: 58 Credits Required</b>			
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

<b>Clinical Laboratory Sciences Courses: 58 Credits Required, cont</b>			
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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, CCHS 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	481	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	

\* Students must meet the following University requirements regarding electives: 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 and one at the 200 level or higher. One of the Cultural Enrichment **OR** Social Awareness courses must fulfill Global Consciousness requirement, and one must fulfill the Race, Ethnicity, or Gender requirement. Students must earn a grade of “C” or better in the CAHS core courses, all CLLS courses, BIOL 205, and CHEM 214.

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.

### 122 – 123 credits required for graduation

Revised 6/19/07  
Revised 9/15/09  
Revised 3/1/10

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

Name \_\_\_\_\_ Student Number \_\_\_\_\_

<b>COMMUNICATION COMPETENCE: 9 CREDITS REQUIRED</b>				
ENGL	150	English 1	3	
ENGL	250	English 2 (ENGL 150)	3	
<b>Recommended:</b> COMM	221	Small Group Decision Making	3	
<b>Also Accepted:</b> COMM	105 121	Interpersonal Communication <b>OR</b> Fundamentals of Public Speaking		
<b>QUANTITATIVE SKILLS: PROFICIENCY OR COURSE REQUIRED</b>				
<b>Recommended:</b> MATH	117	Contemporary Mathematics or ACT Math subscore of 24	4	
<b>Also Accepted:</b> MATH	115	Intermediate Algebra	4	
<b>SOCIAL AWARENESS: 3 CREDITS REQUIRED</b>				
		<b>Hyperlink to Social Awareness Courses</b> Social Awareness Elective	3	
<b>CULTURAL ENRICHMENT: 3 CREDITS REQUIRED</b>				
		<b>Hyperlink to Cultural Enrichment Elective:</b> Cultural Enrichment Elective	3	
<b>SCIENTIFIC UNDERSTANDING: 16 CREDITS REQUIRED</b>				
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	
<b>CAHS CORE REQUIREMENTS:</b>				
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		
MRIS	102	Orientation to Medical Vocabulary or Medical Terminology Competency	1	
<b>MLT MAJOR: 42 CREDITS REQUIRED</b>				
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 meet the following University requirements regarding electives: 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 and one at the 200 level or higher. One of the Cultural Enrichment **OR** Social Awareness courses must fulfill Global Consciousness requirement, and one must fulfill the Race, Ethnicity, or Gender requirement. Students must earn a grade of “C” or better in the CAHS core courses, all CLLS courses, BIOL 205, and CHEM 214.

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.

### **83 – 84 total credits**

Revised 4/5/00  
 Revised 5/15/03  
 Revised 6/19/07

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

Name \_\_\_\_\_ Student Number \_\_\_\_\_

<b>COMMUNICATION COMPETENCE: 9 CREDITS REQUIRED</b>				
ENGL	150	English 1	3	
ENGL	250	English 2 (ENGL 150)	3	
<b>Recommended:</b> COMM	221	Small Group Decision Making	3	
<b>Also Accepted:</b> COMM	105 121	Interpersonal Communication <b>OR</b> Fundamentals of Public Speaking		
<b>QUANTITATIVE SKILLS: PROFICIENCY OR COURSE REQUIRED</b>				
<b>Recommended:</b> MATH	117	Contemporary Mathematics or ACT Math subscore of 24	4	
<b>Also Accepted:</b> MATH	115	Intermediate Algebra	4	
<b>SOCIAL AWARENESS: 3 CREDITS REQUIRED</b>				
		<b>Hyperlink to Social Awareness Courses</b> Social Awareness Elective	3	
<b>CULTURAL ENRICHMENT: 3 CREDITS REQUIRED</b>				
		<b>Hyperlink to Cultural Enrichment Elective:</b> Cultural Enrichment Elective	3	
<b>SCIENTIFIC UNDERSTANDING: 16 CREDITS REQUIRED</b>				
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	
<b>CAHS CORE REQUIREMENTS: 5 CREDITS REQUIRED</b>				
CCHS	101	Orientation to Health Care	3	
CCHS	102	Safety Issues in Health Care	1	
		Computer Competency		
MRIS	102	Orientation to Medical Vocabulary or Medical Terminology Competency	1	
<b>MLT MAJOR: 42 CREDITS REQUIRED</b>				
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	Immunoematology (BIOL 205, CLLS 251 and 252, concurrent enrollment in CLLS 259)	2	
CLLS	259	Immunoematology 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 meet the following University requirements regarding electives: 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 and one at the 200 level or higher. One of the Cultural Enrichment **OR** Social Awareness courses must fulfill Global Consciousness requirement, and one must fulfill the Race, Ethnicity, or Gender requirement. Students must earn a grade of “C” or better in the CAHS core courses, all CLLS courses, BIOL 205, and CHEM 214.

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.

## **82 – 83 total credits**

Revised 5/15/03  
Revised 6/19/07  
Revised 3/01/10

**FERRIS STATE UNIVERSITY  
COLLEGE OF ALLIED HEALTH SCIENCES  
NUCLEAR MEDICINE TECHNOLOGY – BACHELOR OF SCIENCE DEGREE**

Name: \_\_\_\_\_ ID# \_\_\_\_\_

REQUIRED		COURSE TITLE-PRE-REQUISITES IN ( )	CR	GRADE	REQ. MET
<b>MAJOR: 69 CREDITS REQUIRED</b>					
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	1		
CCHS	315	Epidemiology and Statistics	3		
FSUS	100	Freshman Seminar	1		
HCSA	335	Supervisory Practices for Health Care Workers	4		
MRIS	102	Orientation to Medical Vocabulary (none)	1		
NUCM	100	Introduction to Nuclear Medicine (Admission to program)	1		
NUCM	101	Practical Mathematics in Nuclear Medicine (Admission to program)	1		
NUCM	110	Principles & Practices of Nuclear Medicine (NUCM 100 & 101)	3		
NUCM	111	Principles & Practices of Nuclear Medicine Lab (Concurrent w/NUCM 110)	1		
NUCM	205	Nuclear Medicine Instrumentation (NUCM 110 & 111)	3		
NUCM	206	Nuclear Medicine Instrumentation Lab (Concurrent with NUCM 205)	1		
NUCM	215	Nuclear Medicine Imaging 1 (NUCM 205 & 206)	3		
NUCM	216	Nuclear Medicine Imaging 1 Lab (Concurrent with NUCM 215)	1		
NUCM	240	Cross Sectional Imaging (Department Permission)	1		
NUCM	320	Nuclear Medicine Imaging 2 (NUCM 215, 216, & 240)	3		
NUCM	321	Nuclear Medicine Imaging 2 Lab (Concurrent with NUCM 320)	1		
NUCM	340	Advanced Imaging Techniques (NUCM 320 & 321)	3		
NUCM	350	Advanced Nuclear Cardiology (NUCM 320 & 321)	2		
NUCM	351	Advanced Nuclear Cardiology Lab (Concurrent with NUCM 350)	1		
NUCM	360	Management and Leadership in NMT (HCSA 335, CCHS 101, NUCM 320 & 321)	3		
NUCM	380	Diagnostic Imaging Techniques (NUCM 320 & 321)	3		
NUCM	480	Research Methodology (EHSM 315, concurrent with NUCM 491)	2		
NUCM	491	Clinical Application in NMT 1 (Permission of program)	10		
NUCM	492	Clinical Application in NMT 2 (NUCM 491)	10		
NUCM	499	Capstone in NMT (NUCM 480 & 491; concurrent with NUCM 492)	2		
<b>COMMUNICATION COMPETENCE: 12 CREDITS REQUIRED</b>					
COMM	105/ 121/ 221	Interpersonal Communication (none) OR Principles of Public Speaking OR Small Group Decision Making (none)	3		
ENGL	150	English 1	3		
ENGL	250	English 2 (ENGL 150 with a C grade or better)	3		
ENGL	321	Advanced Composition (ENGL 250)	3		
<b>SCIENTIFIC UNDERSTANDING: 17 CREDITS REQUIRED</b>					
BIOL	205	Human Anatomy and Physiology (CHEM 114)	5		
CHEM	114	Introduction to General Chemistry	4		
PHYS	211	General Physics 1 (MATH 116)	4		
PHYS	212	General Physics 2 (PHYS 211)	4		
<b>QUANTITATIVE SKILLS: PROFICIENCY OR COURSE REQUIRED</b>					
MATH	116	Intermediate Algebra & Numerical Trigonometry (or ACT math subscore of 26 or higher)	4		

<b>SOCIAL AWARENESS: 9 CREDITS REQUIRED</b>				
		Social Awareness Foundation Course	3	
		Social Awareness Elective	3	
		Social Awareness Elective 200+	3	
<b>CULTURAL ENRICHMENT: 9 CREDITS REQUIRED</b>				
		Cultural Enrichment Elective	3	
		Cultural Enrichment Elective	3	
		Cultural Enrichment Elective 200+	3	
<b>RACE, ETHNICITY, &amp; GENDER REQUIREMENT</b>				
		One course; please note that this course may also meet social awareness or cultural enrichment requirements		
<b>GLOBAL CONSCIOUSNESS REQUIREMENT</b>				
		One course; please note that this course may also meet social awareness or cultural enrichment requirements.		
<b>COMPUTER COMPETENCY REQUIREMENT</b>				
		Successful completion of all NUCM courses		

CAHS Computer Competency requirement. Requirement can be met through successful completion of all NUCM courses.

One course from Social Awareness or Cultural Enrichment must meet the Global Consciousness Requirement, **and** one course from Social Awareness or Cultural Enrichment must meet the Race, Ethnicity, and/or Gender requirement.

All first-time-in-any-college freshman (FTIAC) must complete a one credit FSUS 100 requirement. FTIAC is defined as any freshman who has completed less than 12 credits at another higher education institution, excluding credits earned in dual enrollment, advanced placement, or proficiency testing such as CLEP. All FTIAC's are required to complete FSUS 100 their first term at the University.

A total of 120 credits are required for a Bachelor of Science degree at Ferris State University. Additional courses may be required in order to meet this requirement.

### **120 Semester Hours Required for Graduation**

**FERRIS STATE UNIVERSITY  
COLLEGE OF ALLIED HEALTH SCIENCES  
NUCLEAR MEDICINE TECHNOLOGY – BACHELOR OF SCIENCE DEGREE**

Name: \_\_\_\_\_

ID# \_\_\_\_\_

REQUIRED		COURSE TITLE-PRE-REQUISITES IN ( )	CR	GRADE	REQ. MET
<b>MAJOR: 68 CREDITS REQUIRED</b>					
CCHS	101	Orientation to Health Care (none)	3		
CCHS	102	Safety Issues in Health Care (none)	1		
CCHS	315	Epidemiology and Statistics	3		
FSUS	100	Freshman Seminar	1		
HCSA	335	Supervisory Practices for Health Care Workers	4		
MRIS	102	Orientation to Medical Vocabulary (none)	1		
NUCM	100	Introduction to Nuclear Medicine (Admission to program)	1		
NUCM	101	Practical Mathematics in Nuclear Medicine (Admission to program)	1		
NUCM	110	Principles & Practices of Nuclear Medicine (NUCM 100 & 101)	3		
NUCM	111	Principles & Practices of Nuclear Medicine Lab (Concurrent w/NUCM 110)	1		
NUCM	205	Nuclear Medicine Instrumentation (NUCM 110 & 111)	3		
NUCM	206	Nuclear Medicine Instrumentation Lab (Concurrent with NUCM 205)	1		
NUCM	215	Nuclear Medicine Imaging 1 (NUCM 205 & 206)	3		
NUCM	216	Nuclear Medicine Imaging 1 Lab (Concurrent with NUCM 215)	1		
NUCM	240	Cross Sectional Imaging (Department Permission)	1		
NUCM	320	Nuclear Medicine Imaging 2 (NUCM 215, 216, & 240)	3		
NUCM	321	Nuclear Medicine Imaging 2 Lab (Concurrent with NUCM 320)	1		
NUCM	340	Advanced Imaging Techniques (NUCM 320 & 321)	3		
NUCM	350	Advanced Nuclear Cardiology (NUCM 320 & 321)	2		
NUCM	351	Advanced Nuclear Cardiology Lab (Concurrent with NUCM 350)	1		
NUCM	360	Management and Leadership in NMT (HCSA 335, CCHS 101, NUCM 320 & 321)	3		
NUCM	380	Diagnostic Imaging Techniques (NUCM 320 & 321)	3		
NUCM	480	Research Methodology (EHSM 315, concurrent with NUCM 491)	2		
NUCM	491	Clinical Application in NMT 1 (Permission of program)	10		
NUCM	492	Clinical Application in NMT 2 (NUCM 491)	10		
NUCM	499	Capstone in NMT (NUCM 480 & 491; concurrent with NUCM 492)	2		
<b>COMMUNICATION COMPETENCE: 12 CREDITS REQUIRED</b>					
COMM	105/ 121/ 221	Interpersonal Communication (none) OR Principles of Public Speaking OR Small Group Decision Making (none)	3		
ENGL	150	English 1	3		
ENGL	250	English 2 (ENGL 150 with a C grade or better)	3		
ENGL	321	Advanced Composition (ENGL 250)	3		
<b>SCIENTIFIC UNDERSTANDING: 17 CREDITS REQUIRED</b>					
BIOL	205	Human Anatomy and Physiology (CHEM 114)	5		
CHEM	114	Introduction to General Chemistry	4		
PHYS	211	General Physics 1 (MATH 116)	4		
PHYS	212	General Physics 2 (PHYS 211)	4		
<b>QUANTITATIVE SKILLS: PROFICIENCY OR COURSE REQUIRED</b>					
MATH	116	Intermediate Algebra & Numerical Trigonometry (or ACT math subscore of 26 or higher)	4		

<b>SOCIAL AWARENESS: 9 CREDITS REQUIRED</b>				
		Social Awareness Foundation Course	3	
		Social Awareness Elective	3	
		Social Awareness Elective 200+	3	
<b>CULTURAL ENRICHMENT: 9 CREDITS REQUIRED</b>				
		Cultural Enrichment Elective	3	
		Cultural Enrichment Elective	3	
		Cultural Enrichment Elective 200+	3	
<b>RACE, ETHNICITY, &amp; GENDER REQUIREMENT</b>				
		One course; please note that this course may also meet social awareness or cultural enrichment requirements		
<b>GLOBAL CONSCIOUSNESS REQUIREMENT</b>				
		One course; please note that this course may also meet social awareness or cultural enrichment requirements.		
<b>COMPUTER COMPETENCY REQUIREMENT</b>				
		Successful completion of all NUCM courses		

CAHS Computer Competency requirement. Requirement can be met through successful completion of all NUCM courses.

One course from Social Awareness or Cultural Enrichment must meet the Global Consciousness Requirement, **and** one course from Social Awareness or Cultural Enrichment must meet the Race, Ethnicity, and/or Gender requirement.

All first-time-in-any-college freshman (FTIAC) must complete a one credit FSUS 100 requirement. FTIAC is defined as any freshman who has completed less than 12 credits at another higher education institution, excluding credits earned in dual enrollment, advanced placement, or proficiency testing such as CLEP. All FTIAC's are required to complete FSUS 100 their first term at the University.

A total of **119** credits are required for a Bachelor of Science degree at Ferris State University.  
**Additional courses may be required in order to meet this requirement.**

### **119 Semester Hours Required for Graduation**

**FERRIS STATE UNIVERSITY  
COLLEGE OF ALLIED HEALTH SCIENCES  
RADIOGRAPHY – ASSOCIATE IN APPLIED SCIENCE  
EFFECTIVE FALL 2008**

Name: \_\_\_\_\_ Student ID #: \_\_\_\_\_

REQUIRED		COURSE TITLE – PREREQUISITES IN ( )	CR	GRADE	REQ. MET
<b>RADIOGRAPHY MAJOR – 57 CREDITS REQUIRED</b>					
RADI	104	Radiographic Procedures 1 (Program Admission)	2		
RADI	105	Radiographic Procedures 1 Lab (Program Admission)	1		
RADI	106	Radiographic Procedures 2 (RADI 104, 105, 121, 141 & 142)	2		
RADI	107	Radiographic Procedures 2 Lab (RADI 104, 105, 121, 141 & 142)	1		
RADI	108	Radiographic Imaging Procedures (RADI 106, 107, 122, 143 & 144)	2		
RADI	109	Radiographic Imaging Procedures Lab (RADI 106, 107, 122, 143 & 144)	1		
RADI	121	Radiographic Physics & Imaging Production (Program Admission)	3		
RADI	122	Radiographic Protection & Biology (RADI 104, 105, 121, 141 & 142)	3		
RADI	141	Principles of Radiographic Imaging 1 (Program Admission)	2		
RADI	142	Principles of Radiographic Imaging 1 Lab (Program Admission)	1		
RADI	143	Principles of Radiographic Imaging 2 (RADI 104, 105, 121, 141 and 142)	2		
RADI	144	Principles of Radiographic Imaging 2 Lab (RADI 104, 105, 121, 141 & 142)	1		
RADI	170	Radiographic QA and Processing (RADI 106, 107, 122, 143 & 144)	1		
RADI	171	Image Processing Lab (RADI 106, 107, 122, 143 and 144)	1		
RADI	172	Digital Imaging (RADI 106, 107, 1212, 143 and 144)	1		
RADI	202	Radiographic Pathology (RADI 108, 109, 170, 171 and 172)	1		
RADI	203	Advanced Concepts in Radiography 1 (RADI 108, 109, 170, 171 and 172)	1		
RADI	204	Principles of Computed Tomography (RADI 202, 203, 211 & 291)	2		
RADI	211	Pharmacology for Radiographers (RADI 108, 109, 170, 171 & 172)	1		
RADI	212	Radiology Management (RADI 204, 213 and 292)	1		
RADI	213	Advanced Concepts in Radiography 2 (RADI 202, 203, 211 & 291)	1		
RADI	223	Advanced Concepts in Radiography 3 (RADI 204, 213 & 292)	1		
RADI	291	Clinical Practicum 1 (RADI 108, 109, 170, 171 & 172)	9		
RADI	292	Clinical Practicum 2 (RADI 202, 203, 211 & 291)	9		
RADI	293	Clinical Practicum 3 (RADI 204, 213 & 292)	6		
RADI	299	Radiography Review (RADI 204, 213 & 292)	1		
<b>COMMUNICATION COMPETENCE – 9 CREDITS REQUIRED</b>					
ENGL	150	English 1 (none)	3		
ENGL	250	English 2 (ENGL 150)	3		
COMM	105 121 221	Interpersonal Communication (none) OR Fundamentals of Public Speaking OR Small Group Decision Making (none)	3		
<b>SCIENTIFIC UNDERSTANDING – 4 CREDITS REQUIRED</b>					
BIOL	109	Human Anatomy and Physiology (none)	4		
<b>QUANTITATIVE SKILLS – PROFICIENCY or COURSE REQUIRED</b>					
		ACT – Math Subscore of 24 or higher, or MATH 115	4		

<b>SOCIAL AWARENESS – 3 CREDITS REQUIRED</b>					
		Social Awareness Elective (SOC 121 or PSYC 150 recommended)	3		
<b>CULTURAL ENRICHMENT – 3 CREDITS REQUIRED</b>					
		Cultural Enrichment Elective (HUMN 220 or 320 recommended)	3		
<b>CAHS CORE CURRICULUM REQUIREMENTS – 5 CREDITS REQUIRED</b>					
CCHS	101	Orientation to Health Care (none)	3		
CCHS	102	Safety Issues in Health Care (none)	1		
CCHS	103	Clinical Skills for the Health Care Provider (none)	1		
		Computer Competency – course or proficiency demonstrated			
		Medical Terminology Competency – MRIS 102 or equivalency or proficiency			
<b>RADIOGRAPHY PROGRAM REQUIREMENTS FOR PROGRESSION/GRADUATION</b>					
<ul style="list-style-type: none"> <li>• A GPA of 2.75 must be maintained for the Radiography Program.</li> <li>• ENGL 150, Medical Terminology, BIOL 109, and MATH 115 or an ACT score of 24 or higher is required for admission to the professional sequence of the program.</li> <li>• A grade of "C" or better is required for all RADI program requirements.</li> <li>• All general education requirements must be completed before internship.</li> <li>• <i>Students must maintain a "C" or higher in all RADI courses.</i></li> <li>• <i>Application into the Radiography Program will not be accepted if a student has two unsuccessful attempts in MATH 115 and BIOL 109.</i></li> </ul>					
<ul style="list-style-type: none"> <li>• 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.</li> </ul>					

**TOTAL PROGRAM CREDITS = 81**

Graduation Clearance Form Completed \_\_\_\_\_ (date) \_\_\_\_\_ (Advisor)

\_\_\_\_\_  
Advisor Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Date

Revised 5/10/06  
Revised 2/14/08

**FERRIS STATE UNIVERSITY  
COLLEGE OF ALLIED HEALTH SCIENCES  
RADIOGRAPHY – ASSOCIATE IN APPLIED SCIENCE  
EFFECTIVE FALL 2008**

Name: \_\_\_\_\_ Student ID #: \_\_\_\_\_

REQUIRED		COURSE TITLE – PREREQUISITES IN ( )	CR	GRADE	REQ. MET
<b>RADIOGRAPHY MAJOR – 57 CREDITS REQUIRED</b>					
RADI	104	Radiographic Procedures 1 (Program Admission)	2		
RADI	105	Radiographic Procedures 1 Lab (Program Admission)	1		
RADI	106	Radiographic Procedures 2 (RADI 104, 105, 121, 141 & 142)	2		
RADI	107	Radiographic Procedures 2 Lab (RADI 104, 105, 121, 141 & 142)	1		
RADI	108	Radiographic Imaging Procedures (RADI 106, 107, 122, 143 & 144)	2		
RADI	109	Radiographic Imaging Procedures Lab (RADI 106, 107, 122, 143 & 144)	1		
RADI	121	Radiographic Physics & Imaging Production (Program Admission)	3		
RADI	122	Radiographic Protection & Biology (RADI 104, 105, 121, 141 & 142)	3		
RADI	141	Principles of Radiographic Imaging 1 (Program Admission)	2		
RADI	142	Principles of Radiographic Imaging 1 Lab (Program Admission)	1		
RADI	143	Principles of Radiographic Imaging 2 (RADI 104, 105, 121, 141 and 142)	2		
RADI	144	Principles of Radiographic Imaging 2 Lab (RADI 104, 105, 121, 141 & 142)	1		
RADI	170	Radiographic QA and Processing (RADI 106, 107, 122, 143 & 144)	1		
RADI	171	Image Processing Lab (RADI 106, 107, 122, 143 and 144)	1		
RADI	172	Digital Imaging (RADI 106, 107, 121, 143 and 144)	1		
RADI	202	Radiographic Pathology (RADI 108, 109, 170, 171 and 172)	1		
RADI	203	Advanced Concepts in Radiography 1 (RADI 108, 109, 170, 171 and 172)	1		
RADI	204	Principles of Computed Tomography (RADI 202, 203, 211 & 291)	2		
RADI	211	Pharmacology for Radiographers (RADI 108, 109, 170, 171 & 172)	1		
RADI	212	Radiology Management (RADI 204, 213 and 292)	1		
RADI	213	Advanced Concepts in Radiography 2 (RADI 202, 203, 211 & 291)	1		
RADI	223	Advanced Concepts in Radiography 3 (RADI 204, 213 & 292)	1		
RADI	291	Clinical Practicum 1 (RADI 108, 109, 170, 171 & 172)	9		
RADI	292	Clinical Practicum 2 (RADI 202, 203, 211 & 291)	9		
RADI	293	Clinical Practicum 3 (RADI 204, 213 & 292)	6		
RADI	299	Radiography Review (RADI 204, 213 & 292)	1		
<b>COMMUNICATION COMPETENCE – 9 CREDITS REQUIRED</b>					
ENGL	150	English 1 (none)	3		
ENGL	250	English 2 (ENGL 150)	3		
COMM	105	Interpersonal Communication (none) OR	3		
	121	Fundamentals of Public Speaking OR			
	221	Small Group Decision Making (none)			
<b>SCIENTIFIC UNDERSTANDING – 4 CREDITS REQUIRED</b>					
BIOL	109	Human Anatomy and Physiology (none)	4		
<b>QUANTITATIVE SKILLS – PROFICIENCY or COURSE REQUIRED</b>					
		ACT – Math Subscore of 24 or higher, or MATH 115	4		

<b>SOCIAL AWARENESS – 3 CREDITS REQUIRED</b>					
		Social Awareness Elective (SOC 121 or PSYC 150 recommended)	3		
<b>CULTURAL ENRICHMENT – 3 CREDITS REQUIRED</b>					
		Cultural Enrichment Elective (HUMN 220 or 320 recommended)	3		
<b>CAHS CORE CURRICULUM REQUIREMENTS – 4 CREDITS REQUIRED</b>					
CCHS	101	Orientation to Health Care (none)	3		
CCHS	102	Safety Issues in Health Care (none)	1		
		Computer Competency – course or proficiency demonstrated			
		Medical Terminology Competency – MRIS 102 or equivalency or proficiency			
<b>RADIOGRAPHY PROGRAM REQUIREMENTS FOR PROGRESSION/GRADUATION</b>					
<ul style="list-style-type: none"> <li>• A GPA of 2.75 must be maintained for the Radiography Program.</li> <li>• ENGL 150, Medical Terminology, BIOL 109, and MATH 115 or an ACT score of 24 or higher is required for admission to the professional sequence of the program.</li> <li>• A grade of "C" or better is required for all RADI program requirements.</li> <li>• All general education requirements must be completed before internship.</li> <li>• <i>Students must maintain a "C" or higher in all RADI courses.</i></li> <li>• <i>Application into the Radiography Program will not be accepted if a student has two unsuccessful attempts in MATH 115 and BIOL 109.</i></li> </ul>					
<ul style="list-style-type: none"> <li>• 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.</li> </ul>					

**TOTAL PROGRAM CREDITS = 80**

Graduation Clearance Form Completed \_\_\_\_\_ (date) \_\_\_\_\_ (Advisor)

\_\_\_\_\_  
Advisor Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Date

Revised 5/10/06  
Revised 2/14/08  
Revised 3/1/10

## Ferris State University - Respiratory Care Curriculum Guide

<b>Respiratory Major – 48 Credits Required (Admission to Professional Sequence)</b>			CR
RESP	100	Introduction to Respiratory Care	1
RESP	119	Cardiopulmonary Anatomy and Physiology	3
RESP	125	Pharmacology for Respiratory Care	3
RESP	145	Respiratory Procedures	3
RESP	146	Respiratory Procedures Lab	2
RESP	162	Respiratory Pathophysiology (RESP 100, 119, 125, 145, 146)	2
RESP	171	Cardiorespiratory Diagnostics (RESP 100, 119, 125, 145, 146)	3
RESP	172	Cardiorespiratory Diagnostics Laboratory (RESP 100, 119, 125, 145, 146)	2
RESP	184	Principles of Mechanical Ventilation (RESP 100, 119, 125, 145, 146)	2
RESP	193	Clinical Practicum 1 (RESP 100, 119, 125, 145, 146)	3
RESP	220	Adult Critical Care (RESP 162, 171, 172, 184, 193)	2
RESP	221	Adult Critical Care Lab (RESP 162, 171, 172, 184, 193)	2
RESP	292	Clinical Practicum 2 (RESP 162, 172, 172, 184, 193)	8
RESP	230	Care of the Neonatal-Pediatric Patient (RESP 220, 221, 292)	3
RESP	231	Care of the Neonatal-Pediatric Patient Lab (RESP 220, 221, 292)	2
RESP	262	Respiratory Care Credentialing Examination Review (RESP 220, 221, 292)	2
RESP	294	Clinical Practicum 3 (RESP 220, 221, 292)	5
<b>Communication Competence – 9 cr. required</b>			
COMM	221	Small Group Decision Making (none) or	3
COMM	105	Interpersonal Communication (none)	
ENGL	150	English 1 (ENGL 074 or minimum score of 14 on ACT or 370 on SAT)	3
ENGL	250	English 2 (ENGL 150 with a grade of C- or better)	3
<b>Quantitative Competence – Proficiency Required</b>			
MATH	110	Fundamentals of Algebra or ACT subscore of 19 or MATH SAT of 460 (prerequisite to MATH 110 is MATH 010 with a grad of C- or better, or 15 on ACT or 350 on SAT)	(4)
<b>Scientific Understanding – 7 cr. Required</b>			
BIOL	109	Basic Human Anatomy and Physiology	4
CHEM	103	Preparatory Chemistry (MATH 110)	3
<b>Social Awareness – 3 cr. required</b>			
		Social Awareness Foundations Course	3
<b>Cultural Enrichment – 3 cr. Required</b>			
		Cultural Enrichment Course	3
<b>Core Curriculum Health Sciences – 5 cr. Required</b>			
CCHS	101	Orientation to Health Care (none)	3
CCHS	102	Safety Issues in Health Care (none) or proficiency	(1)
CCHS	103	Clinical Skills for Health Care Providers (none) or proficiency	(1)
MRIS	102	Medical Vocabulary (none) or proficiency	(1)

**75 credits required for graduation**

## Ferris State University - Respiratory Care Curriculum Guide

<b>Respiratory Major – 48 Credits Required (Admission to Professional Sequence)</b>			CR
RESP	100	Introduction to Respiratory Care	1
RESP	119	Cardiopulmonary Anatomy and Physiology	3
RESP	125	Pharmacology for Respiratory Care	3
RESP	145	Respiratory Procedures	3
RESP	146	Respiratory Procedures Lab	2
RESP	162	Respiratory Pathophysiology (RESP 100, 119, 125, 145, 146)	2
RESP	171	Cardiorespiratory Diagnostics (RESP 100, 119, 125, 145, 146)	3
RESP	172	Cardiorespiratory Diagnostics Laboratory (RESP 100, 119, 125, 145, 146)	2
RESP	184	Principles of Mechanical Ventilation (RESP 100, 119, 125, 145, 146)	2
RESP	193	Clinical Practicum 1 (RESP 100, 119, 125, 145, 146)	3
RESP	220	Adult Critical Care (RESP 162, 171, 172, 184, 193)	2
RESP	221	Adult Critical Care Lab (RESP 162, 171, 172, 184, 193)	2
RESP	292	Clinical Practicum 2 (RESP 162, 172, 172, 184, 193)	8
RESP	230	Care of the Neonatal-Pediatric Patient (RESP 220, 221, 292)	3
RESP	231	Care of the Neonatal-Pediatric Patient Lab (RESP 220, 221, 292)	2
RESP	262	Respiratory Care Credentialing Examination Review (RESP 220, 221, 292)	2
RESP	294	Clinical Practicum 3 (RESP 220, 221, 292)	5
<b>Communication Competence – 9 cr. required</b>			
COMM	221	Small Group Decision Making (none) or	3
COMM	105	Interpersonal Communication (none)	
ENGL	150	English 1 (ENGL 074 or minimum score of 14 on ACT or 370 on SAT)	3
ENGL	250	English 2 (ENGL 150 with a grade of C- or better)	3
<b>Quantitative Competence – Proficiency Required</b>			
MATH	110	Fundamentals of Algebra or ACT subscore of 19 or MATH SAT of 460 (prerequisite to MATH 110 is MATH 010 with a grad of C- or better, or 15 on ACT or 350 on SAT)	(4)
<b>Scientific Understanding – 7 cr. Required</b>			
BIOL	109	Basic Human Anatomy and Physiology	4
CHEM	103	Preparatory Chemistry (MATH 110)	3
<b>Social Awareness – 3 cr. required</b>			
		Social Awareness Foundations Course	3
<b>Cultural Enrichment – 3 cr. Required</b>			
		Cultural Enrichment Course	3
<b>Core Curriculum Health Sciences – 4 cr. Required</b>			
CCHS	101	Orientation to Health Care (none)	3
CCHS	102	Safety Issues in Health Care (none) or proficiency	(1)
MRIS	102	Medical Vocabulary (none) or proficiency	(1)

**74 credits required for graduation**

**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:

*Leonard Johnson* / *ps* 4/14/10

Academic Affairs Approval Signature/Date:

*[Signature]* 4/16/10

Office of the Registrar use ONLY

Date Rec'd: \_\_\_ Date Completed: \_\_\_ Entered: SCACRSE \_\_ SCADETL \_\_ SCARRES \_\_ SCAPREQ \_\_



## Delete CCHS 103

Leonard Johnson to: Ellen J Haneline

04/06/2010 12:05 PM

Sandra L Alspach, Leonard Johnson, Andrew L Purvis, Barbara A Ross, Joanne Gerst, Paula L Hadley-Kennedy, Donald Flickinger,  
Cc: Harold G Palmer, Terrence J Doyle, Ronald A Mehringer, Kristen L Motz, Fritz J Erickson, Tracey Boncher, Steve Karnes, Mitzi A Day,  
Anita Fagerman

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Hi Ellen

Just a couple of things on the Delete CCHS 103 proposal to which you'll need to attend, or need to be made aware:

- 1) As this course has already been "built" and is on the system for Fall 2010, it will not be able to go into effect until Spring 2011.
- 2) On page 6, (proposed checksheet for BSN for Registered Nursing) the total number of hours for the program core and BS degree requirements should now read 50 hours instead of 51.
- 3) On page 27 (proposed checksheet for Nuc Med Tech) the total number of hours should now read 119 instead of 120 (on two of the last three lines).

Thanks.

Leonard

Leonard R. Johnson, Ph.D  
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Strategic Planning and Resources Council  
University Curriculum Committee  
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