

SOUTH DAKOTA BOARD OF REGENTS

Committee on Academic and Student Affairs

AGENDA ITEM: II – A (3)

DATE: December 17-18, 2009

SUBJECT: Program Modifications – South Dakota State University

South Dakota State University has submitted a program modification to change the name from the Clinical and Laboratory Science Program to the Medical and Laboratory Science program and to revise program requirements. (Attachment I)

This proposal was reviewed by the System Vice President for Academic Affairs and the Executive Director recommends approval.

RECOMMENDED ACTION OF THE EXECUTIVE DIRECTOR

Approve SDSU's program modification to change the name from the Clinical and Laboratory Science Program to the Medical and Laboratory Science program and to revise program requirements.

8. PRIMARY ASPECTS OF THE MODIFICATION:

Existing Curriculum				Proposed Curriculum (Highlight Changes)			
Current Program Name: Clinical and Laboratory Science Program				Proposed Program Name: Medical and Laboratory Science			
Pre	Num	Title	Cr Hrs	Pre	Num	Title	Cr Hrs
		SGR Credits	30			SGR Credits	30
		IGR Credits	8			IGR Credits	8
		College of A & S additional Social Science Credits	3			College of A & S additional Social Science Credits	3
		College of A & S additional humanities credits	2			College of A & S additional humanities credits	2
		College of A & S additional Science Credits	3			College of A & S additional science credits	3
		See Attachment A for current curriculum. Removed some supportive current SDSU courses which contain inadequate material to meet accreditation standards.				See Attachment B for proposed curriculum. Specific courses have been added to the CLS curriculum required for accreditation of the program. Adjusted clinical practice curriculum to meet accreditation standards.	

Total number of hours required for major, minor, or specialization
Total number of hours required for degree

82
130

Total number of hours required for major, minor, or specialization
Total number of hours required for degree

80
128

9. EXPLANATION OF THE CHANGE:

Attachment A: Outlines current curriculum.
Attachment B: Outlines new curriculum
Attachment C: Describes name change and supporting reasoning for all requested changes.

Laurie D. Stenberg, Nicholas
 Institutional Authorization (President or Designee)

9/28/09
 Date Submitted

Attachment A

Current Curriculum: The current curriculum is a 2+2 model in which the professional component is integrated into the final two years of study at South Dakota State University. Requirements for Clinical and Laboratory Science – Clinical Specialization Bachelor of Science in Arts and Science.

Major Requirements: 96 credits, 81 when removing the following(**,* Satisfy SGR and IGR requirements)

BIO101/101L, Biology Survey I and Lab**	3
BIO103/103L, Biology Survey II and Lab*	3
BIO202/202L, Genetics and Organismal Biology and Lab	4
BIO204/204L, Genetics and Cellular Biology and Lab	4
CHEM 112/112L, General Chemistry I and Lab*	4
CHEM 114/114L, General Chemistry II and Lab*	4
CHEM 326/326L, Organic Chemistry I and Lab	4
CHEM 328/328L, Organic Chemistry II and Lab	4
MEDT 301/301L, Hematology I and Lab	3
MEDT 311/311L, Clinical Chemistry I and Lab	4
MEDT 321, Hemostasis	2
MEDT 401, Hematology II	2
MEDT 402L, Advanced Hematology and Hemostasis Lab	1
MEDT 411, Clinical Chemistry II	2
MEDT 412 Phlebotomy Lab	1
MEDT431, Principles of Immunohematology	3
MEDT 451, Urine and Body Fluid Analysis	1
MEDT 461, Intro. To Management and Education* (AW)	1
MEDT 481, Clinical Chemistry Practice	6
MEDT 482, Hematology Clinical Practice	6
MEDT 483, Clinical Immunology Clinical Practice	2
MEDT 484, Immunohematology Clinical Practice	4
MEDT 485, Diagnostic Microbiology Clinical Practice	5
MEDT 486, Coagulation Clinical Practice	2
MEDT 488, Urinalysis and Clinical Microscopy Practice	2
Micro 231/231L, General Microbiology and Lab	4
Micro 439, Medical and Veterinary Immunology	3
Micro 440L, Infectious Disease Laboratory	3
Micro 433, Medical Microbiology	3
Stat 281, Introduction to Statistics	3
Zool 467/467L, Parasitology and Laboratory	3

Attachment B:

Proposed Curriculum:

1. Courses deleted from curriculum are indicated by ~~strikethrough~~.
2. New courses to be offered are highlighted in yellow.
3. Changes in course credits are highlighted in grey.

Major Requirements: 94 credits, 79 when removing the following (**,* Satisfy SGR and IGR Requirements)

BIO101/101L, Biology Survey I and Lab**	3
BIO103/103L, Biology Survey II and Lab*	3
BIO202/202L, Genetics and Organismal Biology and Lab	4
BIO204/204L, Genetics and Cellular Biology and Lab	4
CHEM 112/112L, General Chemistry I and Lab*	4
CHEM 114/114L, General Chemistry II and Lab*	4
CHEM 326/326L, Organic Chemistry I and Lab	4
CHEM 328/328L, Organic Chemistry II and Lab	4
MEDT 301/301L, Hematology I and Lab	3
MEDT 311/311L, Clinical Chemistry I and Lab	4
MEDT 321, Hemostasis	1
MEDT341/341L, Diagnostic Microbiology I and Lab	3
MEDT402: Diagnostic Immunology	2
MEDT 401, Hematology II	2
MEDT 402L, Advanced Hematology and Hemostasis Lab	1
MEDT 411, Clinical Chemistry II	2
MEDT411L, Clinical Chemistry II Lab	1
MEDT 412 Laboratory Methods	1
MEDT431: Principles of Immunohematology	3
MEDT441/441L, Diagnostic Microbiology II and Lab	3
MEDT 451, Urine and Body Fluid Analysis	1
MEDT 461, Intro. To Management and Education* (AW)	1
MEDT471, Molecular Diagnostics	2
MEDT 481, Clinical Chemistry Practice	4
MEDT 482, Hematology Clinical Practice	4
MEDT 483, Clinical Immunology Clinical Practice	1
MEDT 484, Immunohematology Clinical Practice	4
MEDT 485, Diagnostic Microbiology Clinical Practice	6
MEDT 486, Coagulation Clinical Practice	1
MEDT 488, Urinalysis and Clinical Microscopy Practice	2
MEDT490, Molecular Diagnostics Clinical Practice	2
MEDT489, Clinical Phlebotomy Practice	1
Micro 231/231L, General Microbiology and Lab	4
Micro 439, Medical and Veterinary Immunology	3
Micro 440L, Infectious Disease Laboratory	3
Micro 433, Medical Microbiology	3
Stat 281, Introduction to Statistics	3
Zool 467/467L, Parasitology and Laboratory	3

Attachment C:

Explanation for proposed changes: CURRICULUM

During the review of competencies as listed in the American Society for Clinical Laboratory Science Body of Knowledge for baccalaureate laboratory science programs, several areas were identified within the current curriculum which will require extensive on-line instruction in diagnostic methods, principles, instrumentation, quality assurance and quality control within the areas of microbiology, mycology, molecular diagnostics, immunology and phlebotomy. Within the existing curriculum, this information is covered as supplemental on-line course material during the clinical rotations. In addition, the current parasitology course contains an excess of information above and beyond the required entry level curriculum for clinical laboratory science. Insufficient laboratory instruction was included for clinical chemistry II and for various laboratory methods in blood banking, urinalysis, and body fluids. Finally, there was no designated laboratory instruction for phlebotomy and molecular diagnostics.

As a result, a proposed curriculum change was discussed with the CLS advisory committee composed of representation from the clinical affiliate laboratories, educational representatives from SDSU administration, representation from outside accredited programs in clinical laboratory science and medical professionals. The advisory board unanimously voted to recommend the requested changes in order to full fill the required competencies for program accreditation through NAACLS – National Accrediting Association for Clinical Laboratory Science.

No additional faculty needed. The Clinical and Laboratory Science program includes one 12-month appointment – Program Director, and two 9- month faculty appointments.

PROGRAM NAME CHANGE: Medical and Laboratory Science

Program is currently named Clinical and Laboratory Science. On July 21, 2009 at the National American Society of Clinical Laboratory Science Meeting in Chicago Illinois, the two national certifying agencies, The American Society for Clinical Pathology Board of Registry (BOR) and the National Credentialing Agency for Laboratory Personnel (NCA) signed an agreement forming a single certification agency for medical laboratory professionals. This agreement is effective on Friday, October 23, 2009. At that time, the NCA will be dissolved as a corporation. NCA. There are many benefits to this merger and eliminates confusion for students and employers on having competing organizations and a consensus on entry level standards. The new Board will be named the Board of Certification and will retain the ASCP (American Society for Clinical Pathology) prefix. The credentialing for programs at the Baccalaureate level will change from Medical Technologist (MT) – ASCP, and Clinical Laboratory Scientist (CLS) – NCA to a unified national certification of Medical Laboratory Scientist or MLS (ASCP). Therefore, in keeping with the national professional certification and standards for the program, we would request that the current Clinical and Laboratory Science program name be replaced by Medical and Laboratory Science Program – Clinical Specialization/Industrial Specialization. In addition, the current MEDT course prefix represents the old ASCP Medical Technologist terminology and in order to avoid confusion, a new MLS course prefix will be requested to replace all the old MEDT course prefixes within the program following approval of program changes.