



**SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS**

New Course Request

SDSU	College of Pharmacy and Allied Health Professions / Department of Allied and Population Health
Institution	Division/Department
Dennis D. Hedge	12/17/2024
Institutional Approval Signature	Date

Section 1. Course Title and Description

Prefix & No.	Course Title	Credits
MLS 432	Foundations of Molecular Methods	1

Course Description

This course will provide an overview of foundational molecular biology and clinical applications in the medical laboratory.

Pre-requisites or Co-requisites

Prefix & No.	Course Title	Pre-Req/Co-Req?
None		

Registration Restrictions

Medical Laboratory Science major – Accelerated program

Section 2. Review of Course

2.1. Will this be a unique or common course?

Unique Course

Prefix & No.	Course Title	Credits
MLS 471	Advanced Medical Diagnostics	2
MICR 448	Molecular and Microbial Genetics	4

Provide explanation of differences between proposed course and existing system catalog courses below:

While MLS 471 and MICR 448 are similar courses, they have important differences compared to the proposed MLS 432. MLS 471 is a full semester course intended for on-campus students that provides how to write a case study report, molecular methods, as well as advanced applications in the medical lab. MLS 424 will be a modular course that includes specific molecular diagnostic content. MLS 424 will provide the foundations of molecular diagnostic testing in the medical laboratory. MICR 439 is intended for Microbiology majors and is a more detailed approach to both genetics and molecular aspects of the microbe. The content for MICR 439 is different than the proposed MLS 420, as these students need additional details of the microbial genetics at the molecular level that will not pertain to medical laboratory science.

Section 3. Other Course Information

3.1. Are there instructional staffing impacts?

No. Schedule Management, explain below: The asynchronous online section of MLS 471 Advanced Medical Diagnostics will be discontinued. These sections were intended for the MLS Accelerated students and will no longer be needed under the revised curriculum for the accelerated MLS program.

3.2. Existing program(s) in which course will be offered: Medical Laboratory Science (B.S.) –

Accelerated Program

3.3. Proposed instructional method by university (as defined by AAC Guideline 5.4): R - Lecture

3.4. Proposed delivery method by university (as defined by AAC Guideline 5.5): 015 – Online Asynchronous

3.5. Term change will be effective: fall 2025

3.6. Can students repeat the course for additional credit? Yes, total credit limit: No

3.7. Will grade for this course be limited to S/U (pass/fail)? Yes No

3.8. Will section enrollment be capped? Yes, max per section: 24 No

3.9. Will this course equate (i.e., be considered the same course for degree completion) with any other unique or common courses in the common course system database in Colleague and the Course Inventory Report? Yes No

3.10. Is this prefix approved for your university? Yes No

Section 4. Department and Course Codes (Completed by University Academic Affairs)

4.1. University Department: Allied and Population Health

4.2. Banner Department Code: SAPH

4.3. Proposed CIP Code: 51.1005

Is this a new CIP code for the university? Yes No

**NEW COURSE REQUEST
Supporting Justification for On-Campus Review**

<u>Brad Laible</u>	<u>Brad Laible</u>	<u>10/31/2024</u>
Request Originator	Signature	Date
<u>James Amell</u>	<u>James Amell</u>	<u>10/31/2024</u>
Department Chair	Signature	Date
<u>Dan Hansen</u>	<u>Dan Hansen</u>	<u>10/31/2024</u>
School/College Dean	Signature	Date

1. Provide specific reasons for the proposal of this course and explain how the changes enhance the curriculum.

This course will enhance the MLS accelerated program curriculum as it will be one of the final courses offered to these students. MLS 424 will provide students with the foundations of molecular biology diagnostics and future directions of the medical lab. These concepts will be key in growing as a professional.

2. Note whether this course is: Required Elective

3. In addition to the major/program in which this course is offered, what other majors/programs will be affected by this course?
None.

4. If this will be a dual listed course, indicate how the distinction between the two levels will be made.
N/A

5. Desired section size 24

6. Provide qualifications of faculty who will teach this course. List name(s), rank(s), and degree(s).
April Nelsen, Clinical Assistant Professor, PhD

7. Note whether adequate facilities are available and list any special equipment needed for the course.
The course will be taught online with some hands-on experience in the laboratory setting. All needed facilities and equipment will be provided by the clinical affiliate site.

8. Note whether adequate library and media support are available for the course.
Existing library and media support resources are sufficient for this course.

9. Will the new course duplicate courses currently being offered on this campus? Yes No

10. If this course may be offered for variable credit, explain how the amount of credit at each offering is to be determined. N/A