



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

**New Course Request**

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

**Section 1. Course Title and Description**

Prefix & No.	Course Title	Credits
MLS 421	Foundations of Medical Chemistry	4

Course Description
This course will provide foundational concepts related to metabolism, analysis, and pathologies associated with various biomolecules in the medical chemistry laboratory. This course will also include quality control practices, methods, and principles relevant to medical chemistry.

**Pre-requisites or Co-requisites**

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

**Registration Restrictions**

Medical Laboratory Science major – Accelerated program
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**Section 2. Review of Course**

**2.1. Will this be a unique or common course?**

**Unique Course**

Prefix & No.	Course Title	Credits
MLS 311	Clinical Chemistry I	4
MLS 312	MLT to MLS Transitional Experience	3

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

MLS 421 Foundations of Medical Chemistry will differ from MLS 311 Clinical Chemistry I and MLS 312 MLT to MLS Transitional Experience due to the inclusion of online laboratory components and alternative delivery based on situational factors including condensation of content, learner population, and a “Train in Place” approach.

**Section 3. Other Course Information**

**3.1. Are there instructional staffing impacts?**

No. Schedule Management, explain below: The asynchronous online section of MLS 311 Clinical Chemistry I will be discontinued. This section was previously intended for Accelerated Pathway students but will no longer be necessary under the revised curriculum.

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

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

MLS 421 Foundations of Medical Chemistry will include didactic and online laboratory components in a “Train in Place” approach. This will allow for improved efficiencies and allow for students to complete didactic and laboratory course content where they currently live. Student feedback in the accelerated MLS program was that the current courses (MLS 311/411) did not align with an accelerated approach. MLS 421 will enhance the accelerated MLS program curriculum by adding online laboratory components and correlation of lab results.

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).  
Tiffany Niemann, Instructor, MS

7. Note whether adequate facilities are available and list any special equipment needed for the course.  
The course will be taught online. All the facilities and equipment needed are available.

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