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| For Academic Affairs and Research Use Only | |
| CIP Code: |  |
| Degree Code: |  |

**Course Revision Proposal Form**

**[x] Undergraduate Curriculum Council**

**[ ] Graduate Council**

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

Email completed proposals to [curriculum@astate.edu](mailto:curriculum@astate.edu) for inclusion in curriculum committee agenda.

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| Stacy E. Walz 9/13/2019 **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| Stacy E. Walz 9/13/2019 **Department Chair:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (If applicable)** |
| Shanon Brantley 10/18/2019 **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| Susan Hanrahan 10/24/2019 **College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **General Education Committee Chair (If applicable)** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Vice Chancellor for Academic Affairs** |

1. Contact Person (Name, Email Address, Phone Number)

Stacy Walz, [swalz@astate.edu](mailto:swalz@astate.edu), 870-972-2514

2. Proposed Starting Term and Bulletin Year for Change to Take Effect

Spring 2020; 2019-20 Bulletin Year

3. Current Course Prefix and Number

CLS 2551

3.1 – **[NO]** Request for Course Prefix and Number change

If yes, include new course Prefix and Number below. *(Confirm that number chosen has not been used before. For variable credit courses, indicate variable range. Proposed number for experimental course is 9. )*

Enter text...

3.2 – **Yes / No** If yes, has it been confirmed that this course number is available for use?

*If no: Contact Registrar’s Office for assistance.*

4. Current Course Title

Hematology Disorders for the Clinical Laboratory Technician

4.1 – **[YES]** Request for Course Title Change

If yes, include new Course Title Below.

Case Studies and Review for the MLT

1. If title is more than 30 characters (including spaces), provide short title to be used on transcripts. *Title cannot have any symbols (e.g. slash, colon, semi-colon, apostrophe, dash, and parenthesis).*

Case Studies and Review MLT

1. Please indicate if this course will have variable titles (e.g. independent study, thesis, special topics).

Not applicable

5. – **[YES ]** Request for Course Description Change.

If yes, please include brief course description (40 words or fewer) as it should appear in the bulletin.

Cross-discipline case studies and formal review for the national certification examination.

6. – **[YES ]** Request for prerequisites and major restrictions change.

*(If yes, indicate all prerequisites. If this course is restricted to a specific major, which major. If a student does not have the prerequisites or does not have the appropriate major, the student will not be allowed to register).*

1. **NO** Are there any prerequisites?
   1. If yes, which ones?

CLS 2523 & CLS 2521 (Hematology I and its lab) used to be pre-requisites for the class because the class used to focus solely on Hematology. But we are requesting removal of those pre-requisites.

* 1. Why or why not?

With the proposed changes incorporating all disciplines of the laboratory, it will be enough to restrict it to CLS majors pursuing the AAS, in their final semester of didactic classes.

1. **YES** Is this course restricted to a specific major?
   1. If yes, which major? CLS – AAS majors (not CLS - BS students)

7. – **[NO ]** Request for Course Frequency Change(e.g. Fall, Spring, Summer). *Not applicable to Graduate courses.*

a. If yes, please indicate current and new frequency:

Enter text...

8. – **[NO** ] Request for Class Mode Change

*If yes, indicate if this course will be lecture only, lab only, lecture and lab, activity, dissertation, experiential learning, independent study, internship, performance, practicum, recitation, seminar, special problems, special topics, studio, student exchange, occupational learning credit, or course for fee purpose only (e.g. an exam)? Please* *indicate the current and choose one.*

Enter text...

9. – **[NO ]** Request for grade type change

*If yes, what is the current and the new grade type (i.e. standard letter, credit/no credit, pass/fail, no grade, developmental, or other [please elaborate])*

Enter text...

10. **[NO ]** Is this course dual listed (undergraduate/graduate)?

a. If yes, indicate course prefix, number and title of dual listed course.

Enter text...

11. **[NO]** Is this course cross listed?

*(If it is, all course entries must be identical including course descriptions. Submit appropriate documentation for requested changes. It is important to check the course description of an existing course when adding a new cross listed course.)*

**11.1** – If yes, please list the prefix and course number of cross listed course.

Enter text...

**11.2** – **Yes / No** Are these courses offered for equivalent credit?

Please explain. Enter text...

12. **[NO]** Is this course change in support of a new program?

a. If yes, what program?

Enter text...

13. **[NO]** Does this course replace a course being deleted?

a. If yes, what course?

Enter text...

14. **[NO]** Will this course be equivalent to a deleted course or the previous version of the course?

a. If yes, which course?

Enter text...

15. **[NO]** Does this course affect another program?

If yes, provide confirmation of acceptance/approval of changes from the Dean, Department Head, and/or Program Director whose area this affects.

Enter text...

16. **[YES ]** Does this course require course fees?

*If yes: Please attach the New Program Tuition and Fees form, which is available from the UCC website.*

Yes, but it always has, and nothing has changed.

**Revision Details**

17. Please outline the proposed revisions to the course.

*Include information as to any changes to course outline, special features, required resources, or in academic rationale and goals for the course.*

There are four primary disciplines in the clinical laboratory: hematology, clinical chemistry, immunohematology, and microbiology. All graduates must be fully trained in all four disciplines; our curriculum reflects this by requiring coursework in all four disciplines.

It is unclear why past leaders of this program added a 1-credit extra course in the AAS curriculum devoted to only one of these four disciplines: hematology (as evidenced by the previous course title of Hematology Disorders for the Clinical Lab Technician). We still plan to review hematology in the revised edition of this course, but we also plan to review the other three disciplines, and spend some time on case studies that cross disciplines to help students see the “big picture”.

Additionally, we’ve purchased software that allows students to take unlimited practice exams that emulate the national certification exam they take after graduation.

An assignment that will remain in the revised edition is a student oral presentation to demonstrate the essential communication skills graduates must have to be successful in this field.

The proposed list of topics appears here:

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| **Topic** |
| Introduction, expectations, overview of topics, and education principles, BDLS completion |
| Hematology |
| Coagulation |
| Immunology / Serology |
| Microbiology / Virology / Mycology |
| Urinalysis and Body Fluids |
| **CI Seminar** |
| Clinical Chemistry |
| Parasitology |
| **Spring Break** |
| Immunohematology |
| **ASCLS/CLMA State Meeting** |
| Research Presentation / Lab Operations Overview |
| Cross-discipline case studies |
| Practice Exams |
| Practice Exams |

18. Please provide justification to the proposed changes to the course.

The addition of a formal review for the national certification examination has stemmed from data we’ve been collecting over the past several years that affects our accreditation by the National Accrediting Agency for Clinical Laboratory Science (NAACLS). Although passing a national certification exam is not required to receive a degree, nor is it currently required for employment in the state of Arkansas (and 37 other states), our continued accreditation does require a 75% pass rate. Our program’s graduates do not consistently meet that benchmark. By broadening the material presented in this existing course (and changing its name to reflect this) to include an extensive review of all the primary disciplines in the laboratory and not just hematology, we hope to meet the benchmark more consistently. This particular course is required only for AAS students in CLS.

19. **YES** Do these revisions result in a change to the assessment plan?

*\*If yes: Please complete the Assessment section of the proposal on the next page.*

*\*If no: Skip to Bulletin Changes section of the proposal.*

***\*See question 19 before completing the Assessment portion of this proposal.***

**Assessment**

**Relationship with Current Program-Level Assessment Process**

20. What is/are the intended program-level learning outcome/s for students enrolled in this course? Where will this course fit into an already existing program assessment process?

**Clinical Laboratory Sciences Program-Level Goals**

1. For their respective levels of practice, produce AAS and BS clinical laboratory graduates who are proficient in the pre-analytical, analytical, and post-analytical components of the primary disciplines of the laboratory:

A. Hematology

B. Hemostasis

C. Chemistry

D. Microbiology (including Parasitology, Virology, and Mycology)

E. Urinalysis

F. Microscopy

G. Molecular Diagnostics

H. Immunology

I. Immunohematology

J. Quality Assurance

2. Instill principles of professionalism, ethics, team-building, and interdisciplinary communication in all CLS students.

3. Apply laboratory safety standards and adhere to governmental regulations as applied to the practice of clinical laboratory science.

4. Produce graduates who are successful in passing the ASCP-BOC certification examination at their respective level.

CLS 2551 in its previous iteration addressed items 1.A. and 2, primarily. Now it will address all subparts of goal #1 as we spend time reviewing all of those topics in the course, it will continue to address goal #2, and will address goal #4 now, too, with the practice exams and review components to prepare students for the certification examination.

21. Considering the indicated program-level learning outcome/s (from question #23), please fill out the following table to show how and where this course fits into the program’s continuous improvement assessment process.

*For further assistance, please see the ‘Expanded Instructions’ document available on the UCC - Forms website for guidance, or contact the Office of Assessment at 870-972-2989.*

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| **Program-Level Outcome 1 (from question #23)** | Produce graduates who are successful in passing the ASCP-BOC certification examination at their respective level. |
| Assessment Measure | Performance on ASCP-BOC certification exam |
| Assessment  Timetable | Certification exam scores are reviewed at least once a year for all graduates. |
| Who is responsible for assessing and reporting on the results? | The CLS faculty are responsible for assessing the results, and the CLS Dept. Chair is responsible for reporting the results. |

*(Repeat if this new course will support additional program-level outcomes)*

**Course-Level Outcomes**

22. What are the course-level outcomes for students enrolled in this course and the associated assessment measures?

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| **Outcome 1** | Students will research a clinical laboratory test, create a brief presentation about it, deliver the presentation to faculty and fellow students, and apply educational principles by writing learning objectives and quiz questions. |
| Which learning activities are responsible for this outcome? | An oral presentation given to classmates and CLS faculty after researching an approved topic related to the laboratory. |
| Assessment Measure | A rubric to score the oral presentation, incorporating quality of preparation, visuals, adherence to educational principles taught in class, etc. |

*(Repeat if needed for additional outcomes)*

**Bulletin Changes**

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| **Instructions** |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Follow the following guidelines for indicating necessary changes.**  **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.**  - Deleted courses/credit hours should be marked with a red strike-through (~~red strikethrough~~)  - New credit hours and text changes should be listed in blue using enlarged font (blue using enlarged font).  - Any new courses should be listed in blue bold italics using enlarged font (***blue bold italics using enlarged font***)  *You can easily apply any of these changes by selecting the example text in the instructions above, double-clicking the ‘format painter’ icon 🡪 , and selecting the text you would like to apply the change to.*  *Please visit* [*https://youtu.be/yjdL2n4lZm4*](https://youtu.be/yjdL2n4lZm4) *for more detailed instructions.* |

From page 315 of the 2019-20 Bulletin:

Major in Clinical Laboratory Sciences

Associate of Applied Science

University Requirements:

See University General Requirements for Associate degrees (p. 43)

General Education Requirements: Sem. Hrs.

See General Education Curriculum for Associate of Applied Science Degrees (p. 80)

Students with this major must take the following:

MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite

BIO 2103 AND 2101, Microbiology for Nursing and Allied Health and Laboratory

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Major Requirements: Sem. Hrs.

BIO 2223 AND 2221, Human Anatomy and Physiology II and Laboratory 4

CHEM 1013 AND 1011, General Chemistry I and Laboratory 4

CLS 1512 AND 1511, Basic Principles and Laboratory 3

CLS 1521 AND 1531, Body Fluids and Laboratory 2

CLS 2514, Clinical Practicum I 4

CLS 2523 AND 2521, Hematology I and Laboratory 4

CLS 2524, Clinical Practicum II 4

CLS 2533 AND 2531, Medical Microbiology I and Laboratory 4

CLS 2543 AND 2541, Clinical Chemistry I and Laboratory 4

CLS 2551, ~~Hematology Disorders~~ Case Studies and Review for the MLT ~~Clinical Lab Technician 1~~

CLS 2563 AND 2561, Basic Blood Banking and Laboratory 4

CLS 2573 AND 2571, Clinical Immunology and Laboratory 4

CLS 3512 AND 3511, Medical Parasitology and Laboratory 3

CLS 3514, Clinical Practicum III 4

CLS 3524, Clinical Practicum IV 4

Sub-total 53

Total Required Hours: 72

From page 448

CLS 2551. ~~Hematology Disorders~~ Case Studies and Review for the MLT ~~Clinical Lab Technician~~ Cross-discipline case studies and formal review for the national certification examination. ~~Discussion of the basic principles of hematologic disorders, causes, laboratory results, and treatment.~~ ~~Prerequisites, CLS 2523 and CLS 2521.~~ Spring.