**CLS 499 Advanced Clinical Studies in Clinical Laboratory Science**

**Capstone**

**2022-2023**

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**Course Description:**

Under supervision of mentor, design and conduct a research project in specialty area of clinical laboratory science; prepare major research paper and presentation. This is a capstone course.

**Prerequisites:**

Admission to professional program.

**Learning Outcomes:**

**Completion of the course requirements will:**

1. Increase awareness of the vital role of Clinical Laboratory Scientists in diagnosing and monitoring disease processes and in maintenance of health.
2. Encourage membership in professional organizations.
3. Facilitate the development of “professionalism”
4. Provide greater visibility of the major to faculty and students on campus.
5. Promote a greater understanding of the profession to underclassmen.
6. Promote future presentations at professional meetings.
7. Demonstrate a comprehensive understanding of the project or research study.
8. Present themselves as professionals.

**Course Objectives:**

**In successfully completing these projects, students will:**

1. Demonstrate their clinical laboratory knowledge to the design and development of an in-depth research project or case study.
2. Analyze material into a cohesive oral presentation.
3. Assess the material to reach legitimate conclusions.
4. Compose a title and an abstract appropriate for the project.
5. Create a poster presentation of their project.
6. Orally present the project to an audience of hospital and university faculty, students, family, and/or friends.
7. Display their poster and present their project at the ASCLS-WI convention.
8. Submit a formal paper to the Department of Clinical Laboratory Science.

**These requirements are meant to:**

1. Promote future presentations at professional meetings.
2. Encourage membership in professional organizations.
3. Facilitate in the development of "professionalism."
4. Provide greater visibility of the major to faculty and students on campus.
5. Promote a greater understanding of the profession to underclassmen.
6. Increase awareness of vital role of Clinical Laboratory Scientists in diagnosing and monitoring disease processes and in maintenance of health.

**Format:**

Hybrid

You will register for this course during the Spring (Semester 2). But, because a lot of components must be completed prior to the Spring semester, you will be given access to this course in the fall (Semester 1).

Mandatory attendance at UWSP for the Capstone Presentation Day (9 and 6 mo. clinical students)

Mandatory attendance at UWSP for Review day (6 mo. clinical students only)

Mandatory attendance at the ASCLS-WI State Laboratory Convention (6 mo. clinical students – 2 days; 9 mo. clinical students follow your organizations requirements)

Please review the appropriate course schedule (6 mo. or 9 mo.) to ensure due dates and submission requirements.

**Instructor Recommendations:**

Students are expected to determine their own topic and type of paper (case study, research (faculty-based research only), or literature review). Students are encouraged to identify an interesting topic/case they have observed as a student or a previous interesting case that came through their organization. As a reminder, access to patient records may be limited due to privacy. **No duplicate topics allowed.** Topics will be approved based on who submitted the topic first.

Review documents in Canvas to ensure meeting the requirements for the paper, poster and presentation.

**Grading System:**

A 93-100% C 73-76%

A- 90-92% C- 70-72%

B+ 87-89% D+ 67-69%

B 83-86% D 60-66%

B- 80-82% F <60%

C+ 77-79%

**Derivation of Course Grade:**

Title and Abstract 10%

Poster Session (UWSP) 20%

Presentation (UWSP) 25%

Formal Paper 25%

ASCLS-WI Poster/Attendance 20%

**Tentative Schedule**

***Any updates/changes to this schedule will be communicated with you via your UWSP email account and announcement placed in Canvas.***

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| **DATE** | **Topic** | **Submission** | **Additional Information** |
| **2022** |  |  |  |
| Sept. | **Poster Information** |  | Sent via email and available in Canvas |
|  |  |  |  |
| Oct. 28 | **Capstone Project: Description and Title Due** | Submit to Assignment Module in Canvas |  |
| **2023** |  |  |  |
| January 13 | **Capstone abstract due** | Submit to CLS 499 Assignment Module in Canvas |  |
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| February 6 | **Capstone Poster due** | Submit to Assignment Module in Canvas |  |
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| February 27 | **Capstone PowerPoint due** | Submit to Assignment Module in Canvas |  |
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| March 4 | **Capstone Electronic Paper Due** | Submit to Assignment Module in Canvas |  |
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| TBD March | **MANDATORY ATTENDANCE AT UWSP** for Poster Session, Presentations, and lunch | A laptop will be provided. Please make sure you can access your presentation (flash-drive, google docs, etc.) | You will be notified of time/place of event via email |
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| TBD March | **6-month Students only: Mandatory Attendance AT UWSP for**  **Review Day** | Student Bowl Practice/Information |  |
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| March 31 | **Reflection Paper Due** | Submit to CLS 399 Assignment Module in Canvas |  |

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| **DATE** | **Topic** | **Submission** | **Additional Information** |
| April  **TBD** | **ASCLS-WI Convention Poster Submission form due** | Submit to CLS 499 Assignment Module in Canvas | Form will be sent via email and posted in Canvas when available |
| April  **TBD** | **Mandatory Attendance**  **ASCLS-WI State Laboratory Convention** Student Bowl  Convention | **TBD** | Student is responsible for registration and lodging. Attendance is mandatory for the student bowl and both days of the convention. |
| March 31 | **Final day to submit all work.** | Review Canvas to ensure submission for all components | Any work not submitted will earn a zero. |