

## Capital Scholars Honors Program Advising Guide for Clinical Laboratory Science

Clinical laboratory science, or medical technology, provides exciting opportunities for individuals with an interest in science and math who wish to pursue a career in a health/medical profession or other laboratory-related field. Clinical laboratory scientists/ medical technologists analyze human blood and other body fluids using a variety of methods and precision instruments. The results of these analyses are used to determine the presence or absence of disease, help determine appropriate treatment, monitor therapy, and assess health. In addition to performance and interpretation of laboratory procedures, clinical laboratory scientists may be involved in selection of lab methods or analyzers, as well as training, supervision, and consultation with other health care professionals.

Knowledge, accuracy, and problem-solving skills are required and depend on a firm foundation in math, chemistry, and biological sciences followed by education in the clinical areas of hematology, chemistry, immunohematology (blood banking), microbiology, and immunology. In addition, familiarity with the use of computers and good organizational skills are required.

Education as a CLS also prepares one for employment opportunities outside the hospital setting. Diverse job opportunities include employment in public health, research, forensic, industrial, and veterinary laboratories; pharmaceutical companies, fertility centers; laboratory computer specialization; education; and laboratory consulting. Education as a CLS is also a good background for graduate school and medical school.

**Students can graduate with Honors in Clinical Laboratory Science.** CLS majors with a GPA equal to or greater than 3.25 and one semester in residency at UIS may elect to participate in the CLS honors option. In addition to the CLS program requirements and UIS honors requirements, honors students must: maintain a minimum GPA of 3.25, earn a minimum of a B grade each course in the CLS program, successfully complete three credits of CLS 400, Applied Research, or CLS 499, Tutorial, and present their findings in a formal paper and public presentation. Students must apply for participation in the honors program to the program director and obtain approval of their faculty research advisor before beginning the program.

### First Year:

Fall Semester	Hours	Spring Semester	Hours
CAP 111: Honors Composition	3	CAP 115: Interdisciplinary Writing	3
CAP 122: Who Am I?	3	CAP 121: How Do You Know?	3
CHE 141: Principles of Chemistry I	4	CHE 241: Principles of Chemistry II	4
BIO 141: Unity of Living Organisms	4	BIO 241: Biology of Organisms in the Environment	4
MAT 115: Calculus I	4	MAT 121: Applied Statistics	4
<i>TOTAL</i>	<i>18</i>	<i>TOTAL</i>	<i>18</i>

**Second Year:**

<b>Fall Semester</b>	<b>Hours</b>	<b>Spring Semester</b>	<b>Hours</b>
CAP 225: What is Good?	3	CAP 226: What is Power?	3
CHE 367: Fundamental Organic Reactions	3	CAP 250: Global Issues	3
Foreign Language	4	Foreign Language	4
Bio 345: General Microbiology	4	Visual/Performing Arts Humanities Requirement*	3
BIO 346: Microbiology Lab	1	COM 112: Oral Comm	3
<i>TOTAL</i>	<i>15 -19</i>	<i>TOTAL</i>	<i>16</i>

The CLS Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). The CLS Program provides students with academic and laboratory experiences both on-campus and in actual clinical settings. The program offers excellent laboratory facilities, a low student/teacher ratio, experienced faculty, and a job placement rate for graduates of 100%. Students complete clinical experiences at Memorial Medical Center in Springfield, Methodist Medical Center in Peoria, Decatur Memorial Hospital in Decatur, and St. John's Hospital in Springfield (CLT-CLS articulation students). Applicants need to consider transportation to and housing at clinical sites outside Springfield.

\* See General Education Course List for approved courses.

For further information regarding clinical laboratory science, contact:

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