CLS Curriculum Pattern

Bachelor of Science Clinical Laboratory Scientist/Medical Technology program (CLS/MT)

Note: This curriculum is intended for students **NOT** continuing on to medical, dental, veterinarian, or physician assistant programs. See a CLS advisor for alternate courses.

1st year / Freshman	**fall semester**
CHEM 1110 - Principles of Chemistry	5
CLS 1113 - Intro to Clinical Lab Practices	4
ENGL 1010 - Introduction to Writing	3
MATH 1030 - Contemporary Math **Or** MATH 1040 - Introduction to Statistics **Or** MATH 1050 - College Algebra * **Or** CLS 2003 - Applied Lab Math and Statistics (Recommended for CLS AAS) For information on ACCUPLACER - see bottom of 3rd yr. page	3
	15 credits
	spring semester
CHEM 1120 - Principles of Chemistry	5
CLS 1123 - Principles of Clinical Hematology and Hemostasis	5
HTHS 1110 - Biomedical Core	4
ENGL 2010 - Intermediate Writing	3
	17 credits
	summer semester
HTHS 1111 - Biomedical Core (can be taken online)	4
** MICR 1113 - Principles of Microbiology (can be taken online)	3
	7 credits

After completing the above courses, you will apply to the CLT program (Clinical Laboratory Technician, also known as MLT - Medical Laboratory Technician) by May 1.

* CLS 2003 math course does meet the math requirement for an AAS degree, but does not meet the requirement for a BS degree. It is suggested to take this course during 2nd year, fall semester.

** MICR 1113 is a pre-req for CLS 2212 and can be taken concurrently (but not recommended).

Additional information can be found at the departmental web site at http://weber.edu/cls.

2nd year / Sophomore	**fall semester**
CLS 2003 - Applied Lab Math and Statistics (Recommended for CLS AAS)	3
CLS 2211 - Principles of Clinical Chemistry I	5
CLS 2212 - Principles of Clinical Microbiology I	4
Gen ed. HU/CA/SS/DV	3
* CLS 1154 - Supervised Clinical Experience (Urinalysis and Hematology)	1
	16 credits

	spring semester
CLS 2213 - Principles of Clinical Chemistry II	5
CLS 2214 - Principles of Clinical Microbiology II	4
CLS 2215 - Principles of Clinical Immunohematology (Blood bank)	4
Gen ed. - HU/CA/SS/DV	3
** CLS 2256 - Supervised Clinical Experience (Clinical Chemistry)	1
** CLS 2257 - Supervised Clinical Experience (Clinical Micro and Blood bank)	1
	18 credits

* CLS 2003 math course does meet the math requirement for an AAS degree, but does not meet the requirement for a BS degree. It is suggested to take this course during 2nd year, fall semester.

** Clinical rotations (also called practicums) consist of two weeks in a hospital or clinic lab. Generally the practicums are done during the summer months at the end of the first year, second year, and third year in program. After completing the practicum, sign up the following semester to receive credit. Failure to complete the practicums will result in dismissal from the program.

After completing the above courses, 1) you will be eligible to receive your Associate of Applied Science degree and graduate from the CLT/MLT program, and 2) you will apply to the Bachelor of Science Clinical Laboratory Scientist/Medical Technology program (CLS/MT) by May 1.

3rd year / Junior	**fall semester**
CLS 3302 - Advanced Clinical Lab Practices I Pre-req TBE 1703 – Spreadsheets	4
CLS 3311 - Advanced Clinical Immunohematology (Adv. Blood Bank)	3
CLS 3313 - Advanced Clinical Hem. and Hemostasis	4
Gen ed.: Information Literacy *	
TBE 1701 - Word Processing	1
TBE 1702 - Windows, presentations, and E-mail	1
TBE 1703 - Spreadsheets	1
TBE 1704 – Internet and library sciences	1
	15 credits

	spring semester
CLS 3314 - Advanced Clinical Chemistry	3
CLS 3316 - Advanced Clinical Microbiology	3
Gen ed. - HU/CA/SS/AI (two courses)	6
** MICR 3254 - Immunology	4
Or HTHS 3328 Pathophysiology of Cells and Tissues ***	/2
	16/12 credits

* For more on Information Literacy requirements go to http://programs.weber.edu/cil/.

** CLS support courses can be taken either in the junior or senior year.

*** Pathophysiology is a two course series: HTHS 3328 and HTHS 3329 (Pathophysiology of Organs and Systems). Both courses are 2 credits each. It is recommended that you take them in two separate semesters.

Accuplacer is a placement test that consists of Math, Reading Comprehension, and Sentence Skills. WSU requires students whose ACT Math scores are below 22, or whose Math score has expired after two years, to take Accuplacer before registration. Students with no ACT English scores are also required to take the Reading Comprehension and and Sentence Skills before they will be able to register. For more information go to http://weber.edu/accuplacer .

4th year / Junior	**fall semester**
CLS 4401 and CLS 4442 - Working Lab Theory I (also called SIM Lab)	1 + 3
CLS 4414 - Laboratory Teaching Supervision I	2
CLS 4801 - Clinical Research	1
Gen ed. - HU/CA/SS/AI/TBE1701-04	3/4
HTHS 3329 (Pathophysiology of Organs and Systems) (Only if HTHS 3328 was taken)	2
* CLS 4453 - Supervised Clinical Experience (Management)	1
* CLS 4454 - Supervised Clinical Experience (Hem, Blood bank, Flow cytometry)	1
	14/15 credits
	spring semester
CLS 4405 and CLS 4446 - Working Lab Theory II (SIM Lab second semester)	1 + 3
CLS 4409 - Clinical Correlation	1
CLS 4417 - Laboratory Teaching Supervision II	1
CLS 4801 - Clinical Research	1 to 3
** MICR - 3603 Medical Microbiology **Or** HIM 3200 Epidemiology and Biostatistics	3 /2
*** HAS 3230 Health Communications **Or** HAS 4400 Legal and Ethical Aspects of Health Administration	3 /3
	13/15 credits

* The clinical rotations are done during the summer of the previous year. After completing the practicum, sign up the following semester to receive credit. Failure to complete the practicums will result in dismissal from the program.

** It is strongly suggested that the Medical Microbiology course be taken online. The on-campus course has an accompanying one credit lab which covers a very basic introduction to the identification of pathogens.

*** Can be taken if additional upper division credits are needed.

Updated 5/28/08