

CLS PROGRAM MINOR/CERTIFICATE- SUGGESTED COURSES OF STUDY

CERTIFICATE IN SPECIMEN COLLECTION & PROCESSING (15 credits)

	FALL			SPRING		
BIOL 189	Intro Life Sci	4		BIOL 196	Prin Modern Biology	4
MATH 124	College Algebra or higher	4		CLS 402	Spec Coll/Processing	2
				CLS 403	Spec Coll Clin Pract	1
Total		8		Total		7

MINOR and/or CERTIFICATE IN CLINICAL HEMATOLOGY (24 credits)

	FALL			SPRING		
CHEM 474	Biochemistry I	3		CLS 402	Spec Coll/Processing	2
CLS 352	Intro CLS Practice	1		CLS 424	Clin Hematology II	3
CLS 412	Clinical Immunology	3		CLS 425	Clin Hematology II Lab	2
CLS 422	Clin Hematology I	3		CLS 353	Lab Operations I	1
CLS 423	Clin Hematology I Lab	2		CLS 452	Lab Operations II	1
				CLS 481	Clin Pract in Hematology	3
Total		12		Total		12

MINOR and/or CERTIFICATE IN CLINICAL CHEMISTRY (23 credits)

	FALL			SPRING			FALL		
CHEM 474	Biochemistry	3		CLS 442	Clin Chemistry I	3	CLS 444	Clin Chem II	3
CLS 352	Intro CLS Practice	1		CLS 443	Clin Chemistry I Lab	1	CLS 445	Clin Chem II Lab	1
CLS 412	Clin Immunology	3		CLS 353	Lab Operations I	1	CLS 482	Clin Pract Chem	3
CLS 413	Clin Immuno Lab	1		CLS 452	Lab Operations II	1			
				CLS 402	Spec Coll/Processing	2			
Total		8		Total		8	Total		7

MINOR and/or CERTIFICATE IN CLINICAL IMMUNOHEMATOLOGY (25 credits)

	FALL			SPRING			FALL		
CHEM 474	Biochemistry	3		CLS 353	Lab Operations I	1	CLS 414	Clin ImmunoHEME	3
CLS 352	Intro CLS Pract	1		CLS 424	Clin Heme II	3	CLS 415	Clin ImmunoHEME Lab	1
CLS 412	Clin Immuno	3		CLS 452	Lab Operations II	1	CLS 483	Clin Pract in BB	3
CLS 413	Clin Immuno Lab	1		CLS 402	Spec Coll/Processing	2			
CLS 422	Clin Hematology I	3							
Total		11		Total		7	Total		7

MINOR and/or CERTIFICATE IN CLINICAL MICROBIOLOGY (25 credits)

	FALL			SPRING			FALL		
CHEM 474	Biochemistry	3		CLS 432	Clin Microbio I	3	CLS 434	Clin Micro II	3
CLS 352	Intro CLS Pract	1		CLS 433	Clin Microbio I Lab	2	CLS 435	Clin Micro II Lab	2
CLS 412	Clin Immunology	3		CLS 353	Lab Operations I	1	CLS 484	Clin Pract Micro	3
CLS 413	Clin Immuno Lab	1		CLS 452	Lab Operations II	1			
				CLS 402	Spec Coll/Processing	2			
Total		8		Total		9	Total		8

**CERTIFICATE IN CLINICAL LABORATORY SCIENCES
WHOLE CLS PROGRAM - GENERALIST
SUGGESTED COURSE OF STUDY**

	FALL JUNIOR			SPRING JUNIOR		
CHEM 474	Biochemistry I	3		CLS 402	Prin Spec Coll	2
CLS 352	Intro CLS Practice	1		CLS 424	Clin. Hematology II	3
CLS 412	Clin. Immunology	3		CLS 425	Clin. Hematology II Lab	2
CLS 413	Clin Immuno Lab	1		CLS 432	Clin Microbiology I	3
CLS 422	Clin. Hematology I	3		CLS 433	Clin Microbiology I Lab	2
CLS 423	Clin. Hematology I Lab	2		CLS 442	Clin Chemistry I	3
CLS 353	Lab Operations I	1		CLS 443	Clin Chemistry I Lab	1
CLS 452	Lab Operations II	1				
		15		Total		16
	FALL SENIOR			SPRING SENIOR		
CLS 414	Trans Med ImmunoHEME	3		CLS 453	Sem. in CLS	2
CLS 415	Trans Med ImmunoHEME Lab	1		CLS 481	Clin Pract in Hematology	3
CLS 432	Clin Microbiology II	3		CLS 482	Clin Pract in Chemistry	3
CLS 433	Clin Microbiology II Lab	2		CLS 483	Clin Pract in Immunohematology	3
CLS 444	Clin Chemistry II	3		CLS 484	Clin Pract in Microbiology	3
CLS 445	Clin Chemistry II Lab	1				
Total		13		Total		14