PURDUE UNIVERSITY

MEDICAL LABORATORY SCIENCES HLSC-BS
College of Health and Human Sciences MLAB
3 years plus 1 year clinical (application required for clinical) 120 credits
A cumulative GPA of at least 3.00 and a minimum science (CHM, BIOL, PHYS, MA)
GPA of at least 2.75 is required for admission into the clinical year.

Student: _____ PUID: _____ Catalog Term: _____

Additional Majors: _____ Minors: _____

Medical Laboratory Sciences Core (University Foundational Learning Outcomes) (26-27 credits)

____ (4-3) ENGL 10600 First-Year Composition or ENGL 10800 Accelerated First-Year Composition **[Written Communication] and [Information Literacy]**
____ (3) COM 11400 Fundamental of Speech Communication or COM 21700 Science Writing & Presentations **[Oral Communication]**
____ (4) BIOL 11000 Fundamentals of Biology I **[Fulfills 1 Science Core Course]**
____ (4) BIOL 11100 Fundamentals of Biology II **[Fulfills 1 Science Core Course]**
____ (3) _____**[Humanities]** – *select from University list*
____ (3) _____**[Behavior/Social Science]** – *select from University list*
____ (3) MA 16010 Applied Calculus I **[Quantitative Reasoning]**
____ (3) HSCI 20100 Principles of Public Health Science **[Science, Technology & Society]**

Required Courses for Medical Laboratory Sciences (58 credits)

____ (3) AGRY 32000 Genetics
____ (4) BIOL 20300 Human Anatomy & Physiology
____ (4) BIOL 20400 Human Anatomy & Physiology
____ (4) BIOL 22100 Introduction to Microbiology
____ (4) CHM 11500 General Chemistry
____ (4) CHM 11600 General Chemistry
____ (4) CHM 25700 Organic Chemistry
____ (1) CHM 25701 Organic Chemistry Lab
____ (3) CHM 33300 Principles of Biochemistry
____ (3) _____*English Selective – select from list*
____ (2) HSCI 10100 Intro to Health Sciences Professions
____ (1) HSCI 13000 Introduction to Medical Laboratory Science
____ (2) HSCI 13100 Medical Terminology
____ (3) HSCI 20200 Essentials of Environmental, Occupational, and Radiological Health Sciences
____ (2) HSCI 33300 Intro to Immunology
____ (3) MA 16020 Applied Calculus II
____ (4) PHYS 23300 Physics for Life Sciences I
____ (4) PHYS 23400 Physics for Life Sciences II
____ (3) STAT 30100 Elementary Statistical Methods

HSCI Humanities, Behavioral/Social Sciences Selectives – select from list (3 credits)

____ (3) _____*select course from HSCI Humanities, Behavior/Social Sciences list*

Clinical Year (32 credits)

A cumulative GPA of at least 3.00 and a minimum science (CHM, BIOL, PHYS, MA) GPA of at least 2.75 is required to apply for admission into the clinical year.
Student must have at least 88 credits completed prior to the start of the clinical year.
(Course title and number of credits per course listed below vary by clinical location.)

Clinical Chemistry
Clinical Hematology
Clinical Immunohematology
Clinical Microbiology
Clinical Serology
Clinical Urinalysis
Intro to Laboratory Education & Management
Special Topics

Electives (0-1 credits)

____ ( )_____ ____ ( ) _____ ____ ( ) _____ ____ ( ) _____

All students must complete 32 credits of 300 level or higher courses at Purdue for graduation.
120 credits required for Bachelor of Science degree
Note: Medical Laboratory Sciences students graduate in August
An Ethics course (such as PHIL 11100 Ethics or PHIL 27000 Biomedical Ethics) is highly recommended Revised 5/2014

Name_____ **School of Health Sciences (HSCI)** **Minor(s)** _____

PUID_____ **HEALTH SCIENCES MEDICAL LABORATORY SCIENCES (MLAB)**

120 credit hours required

Effective: Fall 2014 Beginners

A cumulative GPA of at least 3.00 and a minimum science (CHM, BIOL, PHYS, MATH) GPA of at least 2.75 is required to apply for admission into the clinical year.

Freshman Year	**First Semester**	Sem/Yr	Grade
BIOL 11000 (4)	Fundamentals of Biology I		
(S)*			
CHM 11500 (4)	General Chemistry I		
(S)*	(MA 154, 158, or 159 or calculus placement)		
ENGL 10600 (4) or	First-Year English Composition or		
ENGL 108 (3)(WC,IL)*	Accelerated First-Year Composition		
HSCI 10100 (2)	Intro to Health Science Professions		
	Fall only		
MA 16010 (3)	Applied Calculus I		
(QR)*	ALEKS = 75 OR MA 154 or 158 = C-)		
Total Credits = 16-17			

	Second Semester	Sem/Yr	Grade
BIOL 11100 (4)	Fundamentals of Biology II		
(S)*	(BIOL 11000)		
CHM 11600 (4)	General Chemistry II		
(S)*	(CHM 11200 or CHM 11500)		
COM 11400 (3) or	Fundamentals of Speech Communication		
COM 21700 (3)	or Science Writing and Presentation		
(OC)*			
HSCI 13000 (1)	Intro to Medical Laboratory Science		
	Spring only		
MA 16020 (3)	Applied Calculus II		
(QR)*	(MA 16010)		
Total Credits = 15			

Sophomore Year	**Third Semester**	Sem/Yr	Grade
BIOL 20300 (4)	Human Anatomy & Physiology I		
(S)*	Fall only		
CHM 25700 (4)	Organic Chemistry		
	(CHM 11200 or CHM 11600)		
CHM 25701(1)	Organic Chemistry Laboratory		
	(CHM 25700 co-req)		
HSCI 20200 (3)	Essentials of EH, OH and RH		
(S)*	Fall only (3 credits in BIOL and CHM)		
Humanities Sel. (3)			
(H)*	(Select from University list)		
Total Credits = 15			

	Fourth Semester	Sem/Yr	Grade
BIOL 20400 (4)	Human Anatomy & Physiology II		
(S)*	Spring only (BIOL 20300)		
BIOL 22100 (4)	Introduction to Microbiology		
	(One semester of BIOL & CHM 11600)		
HSCI 20100 (3)	Principles of Public Health Sciences		
(STS)*	Spring only (Classification of at least 03)		
Humanities Sel. (3)			
(BSS)*	(Select from University list)		
Elective (0-1)			
Total Credits = 14-15			

Junior Year	**Fifth Semester**	Sem/Yr	Grade
AGRY 32000 (3)	Genetics		
	(BIOL 11100)		
STAT 30100 (3)	Elementary Statistical Methods		
(IL)*			
Humanities Sel. (3)			
	(Select from HSCI list)		
PHYS 23300 (4)	Physics for Life Sciences I		
(S)*	(CHM 11500 & BIOL 11100 & MA 16020)		
Total Credits = 13			

	Sixth Semester	Sem/Yr	Grade
CHM 33300 (3) or	Principles of Biochemistry		
BCHM 561 (3)	(CHM 25600 or CHM 25700)		
HSCI 13100 (2)	Medical Terminology		
HSCI 33300 (2)	Introduction to Immunology		
	Spring only (Pre-req BIOL 20400 or 30200 & Co-req BIOL 22100 or BIOL 43800)		
English Selective (3)			
PHYS 23400 (4)	Physics for Life Sciences II		
(S)*	(PHYS 23300)		
Total Credits = 14			

****Senior Year**	**Seventh Semester**	Sem/Yr	Grade
HSCI 45200 (4)	Clinical Chemistry		
HSCI 45300 (2)	Clinical Hematology		
HSCI 45800 (2)	Clinical Serology		
HSCI 45400 (2)	Clinical Immunohematology		
HSCI 5500 (4)	Clinical Microbiology		
HSCI 46000 (1)	Clinical Urinalysis		
HSCI 49000 (1)	Special Topics for Medical Technology		
Total Credits = 16			

	Eighth Semester	Sem/Yr	Grade
HSCI 45200 (4)	Clinical Chemistry		
HSCI 45300 (2)	Clinical Hematology		
HSCI 45400 (2)	Clinical Immunohematology		
HSCI 45500 (4)	Clinical Microbiology		
HSCI 45800 (1)	Clinical Serology		
HSCI 46000 (1)	Clinical Urinalysis		
HSCI 46500 (1)	Intro to Lab Education & Management		
HSCI 49000 (1)	Special Topics for Medical Technology		
Total Credits = 16			

University Foundations Learning Outcome List
http://www.purdue.edu/provost/initiatives/curriculum/course.html
*(BSS) Behavioral/Social Science - 1 course
*(H) Humanities - 1 course
*(OC) Oral Communication - 1 course
*(QR) Quantitative Reasoning - 1 course
*(S) Science - 2 courses
*(IL) Information Literacy - 1 course
*(STS) Science, Technology, & Society) – 1 course
*(WC) Written Communication - 1 course

Purdue students must complete 32 credit hours of 300 level or above courses for graduation with a Bachelor of Science degree.

Student is responsible for completing and fulfilling all graduation requirements.

****These courses are simply representations of the types of courses for which students selected for clinical placement will register. The numeric designations, course titles and credits may vary depending on the affiliate site but will adhere to the overall total of 32 credits and 40000 level courses.**