# ARIZONA STATE UNIVERSITY **CURRICULUM CHECKSHEET**

# **B.S. CLINICAL LABORATORY SCIENCES** 2003-2004

I.

UNIV	VERSITY	GENER	AL STUDIES R	REQUIREMENTS							
AGE	AGEC Certification		□ YES	□ NO							
cours two cours Studi	e may be us ore areas of es requiren	sed to sat requirer nents are	isfy a maximum on ments, even if it is noted in the Gen	ne core area and a maximum of two awareness area requirements. A single of two awareness area requirements. A single course cannot be used to satist approved for more than one core area. Courses approved for meeting General Catalog, the course descriptions, and in the Schedule of Classes earling for more information/explanation.	fy ral						
A.	First-Y	First-Year Composition (grade of "C" or higher is required):									
		ENG 1	<u>01</u> and <u>102;</u> or <u>E</u>	ENG 105; or ENG 107 and 108 for foreign students							
В.	Core A	<u>Core Areas</u> (35 hours)									
	1.	Literacy and Critical Inquiry (L) (6 hrs) (3 hours upper division required)									
		L: L:	<u>CLS 450</u> (2 hr	rs) and <u>CLS 460</u> (1 hr) (Upper Division courses in major)							
	2. Mathematical Studies (MA/CS) (6 hrs)										
		MA:		MAT 117 or higher (required for CLS majors)  ( ) (grade of "C" or higher is required)							
		CS:	Computer/Stat	tistics/Quantitative Applications ( )							
		Humanities and Fine Arts (HU) and Social and Behavioral Sciences (SB): Fifteen hours, combined requirement - six hours in one area and nine hours in the other. Three hours must be upper division.									
	3.	HU:	Humanities and	d Fine Arts (6-9 hrs)							
			( )								
	4.	SB:		navioral Sciences (6-9 hrs)							
			( )								
	5. Natural Sciences (SQ/SG) (8 hrs)										
		SQ: SG:	<u>CHM 115</u> <u>BIO 187</u>	Gen Chem with Qual Anal (5) Gen Biology (4)							

	C.	Aware	Awareness Areas:								
		1. Cultural Diversity in the United States									
			C:		(	)					
		2.	Global	Awareness							
			G:		(	)					
		3.	Historic	cal Awareness							
			Н:		(	)					
П.	Gradu with th be dou	ation Rec ne Univer ible coun	quirements sity Gener ted to fill a	(Humanities, ral Studies Req any other CLA	Socia uiren	al and Behavi nents (HU, SI	cannot cross-lis oral Sciences and 3, SQ and SG are irement or the HU	d Natu as). T	ral Sciences a he Bridge cou	and Mathema arse requirem	ntics areas) nent canno
	Genera	Second Language: Completion of second language course work at the intermediate level (202 or equivalent for most, see catalog for greater specification), or a foreign language course at the 300 level or higher taught in the foreign language and having 202 or its equivalent as a prerequisite, or completion of secondary education at a school in which the language of instruction is not English, or completion of SHS 202 American Sign Language IV or its equivalent. (grade of "C" or higher is required in each course specified above)									
		( ) ( )									
	B.	B. <u>Humanities</u> (two courses of at least 3 semester hours each at the 300 level or higher Course prefixes: AFH, CSH, ENG, HUM, PHI, HPS, REL, WSH, Department of L literature course at the 300 level or higher.									iteratures -
		1.		(	) (u <sub>j</sub>	pper division)	)				
		2.		(	) (u <sub>j</sub>	pper division)	)				
	C.	Social and Behavioral Sciences (two courses of at least 3 semester hours each at the 300 lev Course prefixes: AFS, ASB, CSS, ECN, GCU, HST, POS, PGS, SOC, WST									
		1. 2.		(		pper division) pper division)					
	D.	Bridge ASB 2 ASB 3 ASB 3 ASB 4	240 226 53	One course of ASM 248 BIO 311 ENG 312 GCU 344		GPH 314 HPS 322 HPS 330 HPS 331	HST 460 HUM 420 MIC 394 PLB 320		ed bridge cou REL 379 REL 382 REL 390 REL 480	urses. Examp	ples are:
	E.		Natural Sciences and Mathematics (two courses of at least 3 semester hours each)								
		These	These requirements are fulfilled in Major Required Related Courses.								
	F.	MAT	117 or hig	her (with a gra	ide of	f "C" or high	er)				

### III. MAJOR

IV.

A.	Requ majo	nirements: A grade of C or better must be achieved in all courses 300 level or higher to be counted for the r.
		CLS 100 Introduction to Clinical Laboratory Sciences (1)
		CLS 310 ** Principles of Clinical Chemistry (6)
		GLG 200 WW D' ' 1 CGI'' 134' 1' 1 (C)
		GT G 400 - Helt - D 1 - 1 - 1 - 0 - G11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
		CLS 440 ** Principles of Clinical Immunology / Immunohematology (4)
		CLS 411 ** Advanced Applications of Clinical Chemistry (4)
		CLS 421 ** Advanced Applications of Clinical Microbiology (4)
		CLS 431 ** Advanced Applications of Clinical Hematology (4)
		GT G 444 AM A 4 4 4 4 4 A G 6 4 A G 6 A G
		CLS 450 ** Principles of Clinical Laboratory Administration (2)
		CLS 460 ** Principles of Clinical Laboratory Education (1)
		Registration for all CLS courses, with the exception of CLS 100, is dependent upon acceptance of the student into the accredited Clinical Laboratory Sciences Professional Study Program. It is the student's responsibility to make application. <u>ASU does NOT guarantee acceptance to the Professional Study Program</u> . If not accepted, the student can normally complete a B.S. in Microbiology or Biology in the same period of time required for the professional study program.
В.	Requ	nired Related Courses
		MIC 205 * Microbiology (3)
		167G 206 - M 161 - 111 - 111 - 111 - (1)
		BIO 360 ** Animal Physiology (3)
		BCH 361 * Principles of Biochemistry (3)
	*	These courses must have been completed within the seven years prior to admission to the Professional Study Program. See advisor for options. Minimum grade of C required for entrance into the Professional Study
		Program.
	**	Minimum grade of C required for entrance into the Professional Study Program.
		LELECTIVES
Stud	ents <u>mı</u>	ust consult the Clinical Laboratory Sciences advisor to select these courses.

## V. ADDITIONAL UNIVERSITY DEGREE REQUIREMENTS

- A. Minimum of 120 semester hours required.
- B. Minimum of 45 semester hours in upper division courses are required.
- C. Minimum Cumulative GPA must be 2.00 for courses taken at A.S.U.
- D. Minimum of 30 semester hours earned in resident credit courses at A.S.U. Main.

Material in this checksheet is subject to change. Consult the Clinical Laboratory Sciences advisor for any changes.

#### ARIZONA STATE UNIVERSITY B.S. CLINICAL LABORATORY SCIENCES SUGGESTED SCHEDULE FRESHMAN YEAR FALL SEMESTER **SPRING SEMESTER** ENG 101 3 ENG 102 English English 3 CHM 113 General Chemistry 4 CHM 115 Gen Chem with Qual Anal 5 BIO 187 General Biology 4 BIO 188 General Biology 4 CLS 100 Intro to Clinical Lab Sciences College Algebra 1 MAT 117 3 Humanities (HU) 15 <u>3</u> SOPHOMORE YEAR FALL SEMESTER SPRING SEMESTER CHM 231 Elem Organic Chemistry 3 Foreign Language 4 **BIO 360** CHM 235 Elem Organic Chem Lab 1 Animal Physiology 3 MIC 205 Microbiology 3 Humanities 3 MIC 206 Microbiology Lab Social Science 3 1 Humanities (HU) 3 Social Science 3 Social Science (SB) 3 16 Social Science (SB) 3 JUNIOR YEAR FALL SEMESTER SPRING SEMESTER BCH 361 Principles of Biochemistry 3 310\*\* Prin of Clinical Chemistry 6 Humanities 3 CLS 320\*\* Prin of Clinical Microbiology 6 Humanities or Social Science (HU or SB) 3 12 Bridge Course 3 CS (Mathematical Studies Requirement) 3 COMMENT: Apply for Professional Study Program at beginning of Fall semester. SENIOR YEAR Summer Sessions, Fall Semester, Spring Semester. The remainder of the CLS courses are offered during this 12 month period. 330\*\* 411\*\* CLS Prin of Clinical Hematology I / Adv Applic of Clinical Chemistry CLS **Body Fluids** 3 CLS 421\*\* Adv Applic of Clinical Microbiology 4 CLS 430 \*\* Prin of Clinical Hematology II / 431\*\* Adv Applic of Clinical Hematology CLS 4 Hemostasis 3 CLS 441\*\* Adv Applic of Clinical Immunology / CLS 440\*\* Prin of Clinical Immunology / **Immunohematology** 3 460\*\* Prin of Clinical Laboratory Education Immunohematology 4 CLS 1 CLS 450\*\* Prin of Clinical Lab Administration 2 This is a 16 month Clinical Laboratory Science Professional Study Program. Summer session is included. Registration for

all CLS courses, with the exception of CLS 100, is dependent upon acceptance of student into the Clinical Laboratory

Sciences Professional Study Program. ASU does NOT guarantee acceptance to this program.