## ARIZONA STATE UNIVERSITY <br> CURRICULUM CHECKSHEET

## B.S. CLINICAL LABORATORY SCIENCES <br> 2005-2006

## I. UNIVERSITY GENERAL STUDIES REQUIREMENTS

AGEC Certification G YES G NO

A single course may be used to satisfy one core area and a maximum of two awareness area requirements. A single course may be used to satisfy a maximum of two awareness area requirements. A single course cannot be used to satisfy two core areas of requirements, even if it is approved for more than one core area. Courses approved for meeting General Studies requirements are noted in the General Catalog, the course descriptions, and in the Schedule of Classes each academic term. Refer to the General Catalog for more information/explanation.
A. First-Year Composition (grade of "C" or higher is required):

ENG 101 and 102; or ENG 105; or ENG 107 and $\underline{108}$ for foreign students
B. Core Areas (35 hours)

1. Literacy and Critical Inquiry (L) (6 hrs) (3 hours upper division required)

L: _ _ ( )
L: CLS 450 ( 2 hrs ) and CLS 460 ( 1 hr ) (Upper Division courses in major)
2. Mathematical Studies (MA/CS) (6 hrs)

MA: Mathematics MAT 142 or higher
$\qquad$ ( ) (grade of "C" or higher is required)

CS: Computer/Statistics/Quantitative Applications $\qquad$ ( )

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 Fine Arts (6-9 hrs)

4. SB: Social and Behavioral Sciences (6-9 hrs)
$\qquad$
5. Natural Sciences (SQ/SG) (8 hrs)

SQ: CHM 115 Gen Chem with Qual Anal (5)
SG: BIO 187 Gen Biology (4)
C. Awareness Areas:

1. Cultural Diversity in the United States

C: $\qquad$ ( )
2. Global Awareness
$\qquad$
3. Historical Awareness

H: $\qquad$
$\qquad$ ( )
II. COLLEGE GRADUATION REQUIREMENTS: You cannot cross-list (double count) courses from the College Graduation Requirements (Humanities, Social and Behavioral Sciences and Natural Sciences and Mathematics areas) with the University General Studies Requirements (HU, SB, SQ and SG areas). The Bridge course requirement cannot be double counted to fill any other CLAS graduation requirement or the $\mathrm{HU}, \mathrm{SB}, \mathrm{SQ}$ or SG portions of the University General Studies requirement.
A. 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)
$\qquad$
B. Humanities (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 Languages \& Literatures

- literature course at the 300 level or higher.

C. Social and Behavioral Sciences (two courses of at least 3 semester hours each at the 300 level or higher): Course prefixes: AFS, ASB, CSS, ECN, GCU, HST, POS, PGS, SOC, WST

D. Bridge Course: One course of at least three hours from currently approved bridge courses. Examples from ASU Main are:

| ASB 240 | ASM 248 | GPH 314 | HST 460 | REL 382 |
| :--- | :--- | :--- | :--- | :--- |
| ASB 326 | BIO 311 | HPS 322 | HUM 420 | REL 390 |
| ASB 353 | ENG 312 | HPS 330 | PLB 320 | REL 480 |
| ASB 462 | GCU 344 | HPS 331 | REL 379 | MIC 394 (Disease \& AIDS in America) |

E. Natural Sciences and Mathematics (two courses of at least 3 semester hours each)

These requirements are fulfilled in Major Required Related Courses.
F. MAT 142 or higher (with a grade of "C" or higher)

## III. MAJOR

A. Requirements: A grade of C or better must be achieved in all courses 300 level or higher to be counted for the major.

| CLS 100 |  | Introduction to Clinical Laboratory Sciences (1) |
| :---: | :---: | :---: |
| CLS 310 | ** | Principles of Clinical Chemistry (6) |
| CLS 320 | ** | Principles of Clinical Microbiology (6) |
| CLS 330 | ** | Principles of Clinical Hematology I/Body Fluids (3) |
| CLS 430 | ** | Principles of Clinical Hematology II/Hemostasis (3) |
| 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) |
| CLS 441 | ** | Advanced Applications of Clinical Immunology / Immunohematology (3) |
| 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. ASU does NOT guarantee acceptance to the Professional Study Program. 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.
B. Required Related Courses

| MIC 205 | Microbiology (3) |
| :---: | :---: |
| MIC 206 | Microbiology Laboratory (1) |
| CHM 231 \& 235 | Elementary Organic Chemistry (3) and Lab (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.


## IV. GENERAL ELECTIVES

Students must consult the Clinical Laboratory Sciences advisor to select these courses.
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## 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.



