

**NEW COURSE PROPOSAL****Courses must be submitted by November 2, 2009, for priority catalog review.**DATE (*Change if modified and redate file with current date*)

12-11-2009; REV 1.25.10

PROGRAM AREA(S)

BIOLOGY

**1. Course Information.** *[Follow accepted catalog format.]***Prefix(es)** (Add additional prefixes if cross-listed) **and Course No.** CLS 501**Title:** CLINICAL TRAINING CERTIFICATE PROGRAM PART II **Units:** 8

x Prerequisites BS in Biology with an Emphasis in Clinical Laboratory Science or equivalent educational credential.

Corequisites

Consent of Instructor Required for Enrollment

**Catalog Description** (Do not use any symbols): **The second phase of clinical training in a clinical laboratory at a partner hospital.****Grading Scheme:**

A-F Grades

x Credit/No Credit

Optional (Student Choice)

**Repeatability:**

Repeatable for a maximum of units

Total Completions Allowed

Multiple Enrollment in Same Semester

**Course Level Information:**

Undergraduate

x Post-Baccalaureate/Credential

Graduate

**Mode of Instruction/Components** (*Hours per Unit are defaulted*).

	<b>Units</b>	<b>Hours per Unit</b>	<b>Benchmark Enrollment</b>	<b>Graded Component</b>	<b>CS &amp; HEGIS #</b> (Filled in by the Dean)
Lecture		1			
Seminar		1			
Laboratory		3			
Activity		2			
Field Studies	8	5	12	x	
Indep Study					
Other Blank					

Leave the following hours per week areas blank. The hours per week will be filled out for you.

hours lecture per week

40 hours field studies per week

**2. Course Attributes:**

**General Education Categories:** All courses with GE category notations (including deletions) must be submitted to the GE website: <http://summit.csuci.edu/geapproval>. Upon completion, the GE Committee will forward your documents to the Curriculum Committee for further processing.

**A (English Language, Communication, Critical Thinking)**

A-1 Oral Communication

A-2 English Writing

A-3 Critical Thinking

**B (Mathematics, Sciences & Technology)**

B-1 Physical Sciences

B-2 Life Sciences – Biology

B-3 Mathematics – Mathematics and Applications

B-4 Computers and Information Technology

**C (Fine Arts, Literature, Languages & Cultures)**

C-1 Art

C-2 Literature Courses

C-3a Language

C-3b Multicultural

**D (Social Perspectives)**

**E (Human Psychological and Physiological Perspectives)**  
**UDIGE/INTD Interdisciplinary**  
**Meets University Writing Requirement**  
**Meets University Language Requirement**

**American Institutions, Title V Section 40404:** ☐ Government ☐ US Constitution ☐ US History  
Refer to website, Exec Order 405, for more information: <http://senate.csuci.edu/comm/curriculum/resources.htm>

**Service Learning Course** (Approval from the Center for Community Engagement must be received before you can request this course attribute).

**3. Justification and Requirements for the Course.** (Make a brief statement to justify the need for the course)

A. Justification: This is a required component for the Clinical Training Certificate Program in Clinical Laboratory Scientists.

B. Degree Requirement: ☒ Requirement for the Major/Minor  
☐ Elective for the Major/Minor  
☐ Free Elective

**Note: Submit Program Modification if this course changes your program.**

**4. Learning Objectives.** (List in numerical order. You may wish to use the following resource in utilizing measurable verbs: <http://senate.csuci.edu/comm/curriculum/resources.htm>)

Upon completion of the course, the student will be able to:

1. Implement laboratory procedures at a clinical setting
2. Analyze the results of clinical tests
3. Report the laboratory results

**5. Course Content in Outline Form.** [Be as brief as possible, but use as much space as necessary]

Urinalysis (3 weeks)  
Hematology/Coagulation (8-week rotation)  
Microbiology (9-week rotation)  
Parasitology (3 weeks)  
Enhancement Sites (1 week)  
Central Processing and Phlebotomy (ongoing)  
Review (2-week rotation)

Does this course content overlap with a course offered in your academic program? **Yes** ☐ **No** ☒

If YES, what course(s) and provide a justification of the overlap. ☐

Does this course content overlap a course offered in another academic area? **Yes** ☐ **No** ☒

If YES, what course(s) and provide a justification of the overlap. ☐

Overlapping courses require Chairs' signatures.

**6. Cross-listed Courses** (Please note each prefix in item No. 1)

A. List Cross-listed Courses (Signature of Academic Chair(s) of the other academic area(s) is required).

List each cross-listed prefix for the course: ☐

B. Program responsible for staffing: Biology

**7. References.** [Provide 3 - 5 references]

Delmar's Clinical Lab Manual Series: Urinalysis (The Clinical Laboratory Manual Series), Jr., John Flynn and Sheryl Whitlock, Publisher: Delmar Cengage Learning; 1 edition (August 6, 1996), ISBN-10: 0827371969  
Urinalysis and Body Fluids, Susan King Strasinger **and** Marjorie Schaub Di Lorenzo, Publisher: F. A. Davis Company; 5 edition (February 15, 2008), ISBN-10: 080361697X

Delmar's Clinical Lab Manual Series: Immunohematology (Clinical Laboratory Manual Series.), Sheryl Whitlock, Publisher: Thomson Delmar Learning; 1 edition (October 9, 1996), ISBN-10: 0827368674

Delmar's Clinical Laboratory Manual Series: Hematology, Allan P. Russell, Publisher: Delmar Cengage Learning; 1 edition (August 16, 1996), ISBN-10: 0827363737

Clinical Hematology Atlas, Jacqueline H. Carr MS CLSpH(NCA) CLDir(NCA) (Author), Bernadette F. Rodak MS CLSpH(NCA) (Author) Publisher: Saunders; 3rd edition (January 9, 2008), ISBN-10: 1416050396

Textbook of Diagnostic Microbiology, Connie R. Mahon MS MT(ASCP) CLS (Author), George Manuselis Jr. MA MT(ASCP) (Author), Donald C. Lehman EdD MT(ASCP) (Author) Publisher: Saunders; 3 edition (September 20, 2006, ISBN-10: 1416025812

Analytical Parasitology (Springer Lab Manual), Michael T. Rogan (Editor) Publisher: Springer (March 1997), ISBN-10: 3540589198

Board of Registry Study Guide: Clinical Laboratory Certification Examinations, Ascp Board of Registry (Editor), Barbara M. Castleberry (Editor), Mary E. Lunz, (Editor), Bradford L. Sahl (Editor), Publisher: American Society Clinical Pathology; 4th edition (September 1, 1996) , ISBN-10: 0891894160

## 8. Tenure Track Faculty Qualified to Teach This Course.

Biology faculty

## 9. Requested Effective Date:

First semester offered: Fall 2010

## 10. New Resources Requested. Yes ☐ No ☒

If YES, list the resources needed.

A. Computer Needs (data processing, audio visual, broadcasting, other equipment, etc.)

☐

B. Library Needs (streaming media, video hosting, databases, exhibit space, etc.)

☐

C. Facility/Space/Transportation Needs

☐

D. Lab Fee Requested (please refer to Dean's Office for additional processing) Yes ☐ No ☐

E. Other

☐

## 11. Will this new course alter any degree, credential, certificate, or minor in your program? Yes ☐ No ☒

If, YES attach a program update or program modification form for all programs affected.

Priority deadline for New Minors and Programs: **October 5, 2009** of preceding year.

Priority deadline for Course Proposals and Modifications: **November 2, 2009**, of preceding year.

Last day to submit forms to be considered during the current academic year: **April 15<sup>th</sup>**.

Ching-Hua Wang

12-11-09

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Proposer of Course (Type in name. Signatures will be collected after Curriculum approval)

Date

# Approval Sheet

**Program/Course:**           

If your course has a General Education Component or involves Center affiliation, the Center will also sign off during the approval process.

Multiple Chair fields are available for cross-listed courses.

Program Chair		
	Signature	Date
Program Chair		
	Signature	Date
Program Chair		
	Signature	Date
General Education Chair		
	Signature	Date
Center for International Affairs Director		
	Signature	Date
Center for Integrative Studies Director		
	Signature	Date
Center for Multicultural Engagement Director		
	Signature	Date
Center for Civic Engagement Director		
	Signature	Date
Curriculum Chair		
	Signature	Date
Dean of Faculty		
	Signature	Date