

## APPLICATION FOR CHANGE IN EXISTING COURSE: MAJOR & MINOR

1. Submitted by College of: Health Sciences    Date: April 30, 2003  
Department/Division offering course: Clinical Sciences/Clinical Laboratory Sciences
2. Changes proposed:
  - (a) Present prefix & number: CLS 851                      Proposed prefix & number: same
  - (b) Present Title: Basic Clinical Microbiology  
New Title: same
  - (c) If course title is changed and exceeds 24 characters (Including spaces), include a sensible title (not to exceed 24 characters) for use on transcripts: Basic Clin Micro
  - (d) Present credits: 5    Proposed credits: 1
  - (e) Current lecture: laboratory ratio: 2:3                      Proposed: 1:0
  - (f) Effective Date of Change: (Semester & Year): Fall, 2004
3. To be Cross-listed as:                      NA  
Prefix and Number    Signature: Department Chair
4. Proposed change in Bulletin description:
  - (a) Present description (including prerequisite(s):  
The study of medically significant microbiology, including commensal flora, normal flora and pathogens. Lectures also cover microbial physiology, interactions between host and pathogenic microorganisms, and the clinical and epidemiological consequences of these interactions. The laboratory will cover microscopic, cultural and immunological techniques used for the recovery, isolation and identification of clinically significant microorganisms. Prerequisite(s): Admission to the Clinical Laboratory Sciences Program
  - (b) New description:  
The study of medically significant microbiology, including commensal flora, normal flora and pathogens. Lectures also cover microbial physiology, interactions between host and pathogenic microorganisms, and the clinical and epidemiological consequences of these interactions.
  - (c) Prerequisite(s) for course as changed: same
5. What has prompted this proposal?  
This course change is part of an overall program change (a) to improve clinical practice that is guided and reinforced by UK CLS faculty members and (b) to increase program flexibility with regard to students and faculty
6. If there are to be significant changes in the content or teaching objectives of this course, indicate changes:  
Psychomotor objectives will be completed in CSC 528 and clinical rotations
7. What other departments could be affected by the proposed change? None
8. Will changing this course change the degree requirements in one or more programs?\*    X-Yes  
No  
**If yes, please attach an explanation of the change.\***  
See Request for Change in Undergraduate Program
9. Is this course currently included in the University Studies Program?    Yes    X-No  
**If yes, please attach correspondence indicating concurrence of the University Studies Committee.**
10. If the course is a 100-200 level course, please submit evidence (e.g., correspondence) that the Community College System has been consulted.  
\*NOTE: Approval of this change will constitute approval of the program change unless other program modifications are proposed.

APPLICATION FOR CHANGE IN EXISTING COURSE: MAJOR AND MINOR PAGE 2 OF 2

11. Is this a minor change? Yes X-No

(NOTE: See the description on this form of what constitutes a minor change. Minor changes are sent directly from the Dean of the College to the Chair of the Senate Council. If the latter deems the change not to be minor, it will be sent to the appropriate Council for normal processing.)

12. Within the Department, who should be consulted for further information on the proposed course change?

Name: Jean Brickell Phone Extension: 7-9222 ext 263

**Signatures of Approval:**

Department Chair *Aris J. Bull* Date *5/27/2003*

Dean of the College *Sharon R. Stewart* Date *5-27-03*

Date of Notice to the Faculty

\*\*Undergraduate Council Date

\*\*Graduate Council Date

\*\*Academic Council for the Medical Center *Terry R. Malone* Date *7/8/03*

\*\*Senate Council Date of Notice to University Senate

\*\*If applicable, as provided by the Rules of the University Senate.

**ACTION OTHER THAN APPROVAL**

The Minor Change route for courses is provided as a mechanism to make changes in existing courses and is limited to one or more of the following:

- a. change in number within the same hundred series;
- b. editorial change in description which does not imply change in content or emphasis;
- c. editorial change in title which does not imply change in content or emphasis;
- d. change in prerequisite which does not imply change in content or emphasis;
- e. cross-listing of courses under conditions set forth in item 3.0;
- f. correction of typographical errors. [University Senate Rules, Section III - 3.1]

Rev 11/98

## OBJECTIVES FOR CLS 851: BASIC CLINICAL MICROBIOLOGY

Following completion of this course, the student will be able:

1. Identify the disease caused by each agent discussed.
2. Describe the epidemiology for each agent, listing the mode of transmission, reservoir, host range and port of entry.
3. List the virulence factors for each agent discussed and predict their mechanism of action on the host.
4. Discuss the major considerations in collection and handling of clinical specimens for processing and identification.
5. Develop a flow chart for the initial identification of various groups of microorganisms.
6. Describe means of identification for each agent; correlate microbiological assays with immunology assays and clinical findings.
7. List treatments and preventions of diseases of microbiological origin, and note if a vaccine is available for each agent discussed.
8. Compare and contrast the various methods for testing antimicrobial effectiveness.
9. Describe the classes of antimicrobial agents used to treat systemic infections. Correlate mode of action of each class of antimicrobial agent with organism susceptibility.
10. Interpret case studies to identify disease and causative agent.
11. Given a demonstration (actual or photograph) of a pure culture and knowledge of body site source, identify the microorganism, determine the significance of the organism and suggest tests for antimicrobial susceptibility when indicated.

Affective objective:

Demonstrate professionalism in clinical microbiology by communicating in positive, constructive and polite verbal and written form; participating in group endeavors; and adhering to the policies of the program