MEMORANDUM

TO: President Ray M. Bowen

SUBJECT: Approval of Addition to Core Curriculum

At its regular meeting on March 10, 1999, the Faculty Senate approved the addition of VTPB 221, Great Diseases of the World, to the Texas A&M University social and behavioral sciences core curriculum and submits it for your approval. Enclosed is a copy of the material sent to senators on this item.

Thank you for your consideration of this item. I would appreciate your informing me of your action on this recommendation.

Thomas E. Wehrly
Speaker, 1999-2000

Enclosures

cc: Dr. Ronald G. Douglas, Executive Vice President & Provost
    Ms. Linda F. Lacey, Director of Academic Support Services
    Dr. Cesar Malave, Chair, Academic Affairs Committee

Approved:

Ray M. Bowen, President

Date 6/1/99
TEXAS A&M UNIVERSITY CORE CURRICULUM
Request for Course Addition, Change or Withdrawal
Submitted to the Chair, Core Curriculum Oversight Subcommittee (CCOS)
Office of the Faculty Senate

1. This request is submitted by Dr. Ian Tizard, Professor VTPB
   and concerns (enter prefix, number, and complete title of course):
   VTPB 221 Great diseases of the world

2. Type of request (fill in the appropriate Core Curriculum distributive area):
   a. To be added as an approved course in Science and Behavioral Studies
   b. To be withdrawn as a requirement in Social Studies (history)
   c. To be moved from a requirement in
   to a requirement in

3. Attach sixteen (16) copies of a complete course description and course description and course syllabus
   sufficiently detailed to indicate topics covered and amount of time allotted to each. It is the
   responsibility of the submitter to provide copies of this request and attachment to the appropriate
   department head, college dean (heads, deans if crosslisted), and to the Provost. Signature of the
   submitter below certifies that copies were hand delivered to appropriate administrators on the signature
   date.

4. Reason(s) for request: This course is designed as an introductory course in
   Microbiology to Sophomore BIMS students. It has large and significant components
   on the history of infectious diseases, on the impact of infectious diseases on
   society, on the geographical distribution of infectious diseases and on
   infectious diseases and literature.

Signature: /Ian Tizard/ 01-12-99
   Course Instructor/Coordinator
   (Date)

Received:
   Chair, CCOS
   (Date)

Unless a response is received by the Chair of CCOS (at the Office of the Faculty Senate) from the Provost and
the appropriate college dean and department head within thirty days of the first date above, it will be assumed
there is no objection to this request.

Approvals:
   Provost
   (Date)
   College Dean
   (Date)
   Department Head
   (Date)
Course VTPB 221

"Great Diseases of the World"

Spring Semester 1999
Course Syllabus

OBJECTIVE. This is an introductory course designed to teach you about the major infectious and parasitic diseases afflicting humans and other mammals. It will examine their history, their causes, their consequences, both social and medical, and their treatment and prevention.

The course will be directed toward undergraduate students at the sophomore level.

INSTRUCTOR.

This course will be taught by Dr. Ian Tizard, Professor of Immunology, Department of Veterinary Pathobiology. Dr. Tizard's office is located in the College of Veterinary Medicine, VMA building, Room 211. Dr. Tizard does not have formal office hours and students are welcome to visit at any time.

WHERE TO GET HELP.

Dr. Tizard is available at any time for routine enquiries and clarification of subject matter.

Dr. Tizard's office number is 845-4276.
FAX: 862-2320.
Email: itizard@cvm.tamu.edu

LECTURE SCHEDULE

Classes will be held MWF from 1:50 to 2:40 pm in room 306 VMA.

Wed Jan 20  A history of microbiology and the development of the germ theory of disease.

Fri Jan 22  An introduction to bacteria.
The discovery of bacteria. The basic structure of a typical bacterium. Different types of bacteria. Gram-positive and gram negative bacteria. Acid fast bacteria. Bacterial metabolism. The classification of bacteria,
Mon Feb 15  **Tuberculosis:** The disease
    The pathogenesis, epidemiology, vaccination and treatment of tuberculosis in humans and domestic animals. Recent trends in tuberculosis. Tuberculosis as a global disease. Tuberculosis and HIV.

Wed Feb 17  **Sexually transmitted bacterial diseases.**
    Gonorrhea and syphilis. Their origins, history and role in society. Venereal disease and literature. Social attitudes to STDs. Their pathogenesis and treatment.

Fri Feb 19  **Vector borne diseases.**
    Lyme disease, its epidemiology, pathogenesis and social consequences. A disease of suburban yuppies. Other tick-borne bacterial diseases in the United States.

Mon Feb 22  **Food borne diseases.**
    Diarrhea. The most important cause of human mortality. Colibacillosis and salmonellosis and their importance in the modern world. Travelers diarrhea.

Wed Feb 24  **Cholera**
    Its historic and modern significance. The pathogenesis of cholera. Its relationship to cystic fibrosis.

Fri Feb 26  **Test 1.** Covering all subject matter up to and including Feb 24.

Mon Mar 1  **AIDS.**
    The epidemiology and transmission of HIV across the world. Human immunodeficiency and related viruses. The pathogenesis of AIDS.

Wed Mar 3  **AIDS.**
    The control and treatment of this disease. Prospects for an AIDS vaccine.

Fri Mar 5  **Smallpox**
    The history of smallpox and vaccination against it. The role of smallpox in the European Invasion of the Americas. The eradication of smallpox.

Mon Mar 8  **Influenza.**
    The structure, and transmission of influenza viruses. Antigenic changes in the influenza viruses and their role in the development of epidemics and pandemics. The Spanish flu.

Wed Mar 10  **Rabies.**
    Its history, and pathogenesis. The history of rabies vaccination.

Fri Mar 12  **Epstein-Barr virus.**
River blindness (Onchocerciasis) a modern success story. Other important helminth diseases of humans.

**Mon Apr 19  Schistosomiasis.**
Trematode infections of humans. Their epidemiology, pathogenesis, significance and control.

**Wed Apr 21  The spongiform encephalopathies and Mad cows.**
Scrapie, Kreuzfelt-Jacob disease, Kuru and BSE. Their pathogenesis and public health significance.

**Fri Apr 23  The toll of infectious diseases in the modern world.**
The cost of controlling infectious disease in humans. The spread of infectious disease in populations and across borders. Disease surveillance systems.

**Mon Apr 26  The toll of animal disease.**
Epidemic infectious diseases of animals. The regulation of domestic and wild animal populations by infectious and parasitic diseases. Disease and the food supply.

**Wed Apr 28  The threat of germ warfare.**
The use of microorganisms to deliberately kill humans and animals. From the Romans to the conquest of America and the Persian Gulf.

**Fri Apr 30  The control of infectious diseases by vaccination.**
Advantages and disadvantages, distribution systems. Prospects for future disease control. Triumphs and disasters.

**Mon May 3  Antibiotics and resistance.**

**TEXTBOOK:**
The recommended textbook is “*A Field Guide to Germs*” by Wayne Biddle. Published by Anchor Press, 1996. This is a small paperback that should provide very useful background information.

**REQUIRED READING**

Yellow fever, black goddess. The coevolution of people and plagues, C. Wills. Addison-Wesley, 1996.
There is a course web page that can be found if you go progressively from the University's web page through College, Department and Course.

STUDENTS WITH DISABILITIES

The Americans with Disabilities Act (ADA) is a federal antidiscrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities in Room 126 of the Koldus Building, or call 845-1637.