



Tufts Clinical and Translational Science Institute  
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Undergraduate One Health Goals and Recommendations

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# Background

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Founded in the Fall of 2013, Tufts One Health is an organization of undergraduate students working to promote the concept of One Health on a university-wide level. In conjunction with the Undergraduate Community Health Program and the Health Education Office of the Medford campus, the group has met with President Monaco and Provost Harris to discuss Tufts' role in pioneering the One Health concept. In February, 2014, the group hosted a One Health dinner with Massachusetts state Epidemiologist, Dr. Alfred DeMaria, to discuss administrative support and current University endeavors in One Health.

Tufts One Health is excited to hear the CTSI has adopted the concept of One Health as a central theme. To truly represent a One Health model, the CTSI committee should consider the needs of faculty, administration, and students at both the Undergraduate and Graduate level. In this regard, Tufts One Health strives to serve as a voice for the Undergraduate student body of the Medford campus.

Presented below is a list of goals and recommendations Undergraduate students wish to see included during the formation of CTSI One Health goals.

# Recommendations

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Tufts One Health recommends the following objectives be included in the formation of university-wide One Health goals:

- I. Formation of representative student groups at the Undergraduate and Graduate level to be fully included in CTSI One-Health planning and implementation activities. Student groups should consist of a representative cross section of the student body, ensuring fair and equal representation of all disciplines and values.
  
- II. Establish a user friendly website specific to One Health concepts and research currently happening at Tufts. This website should include a comprehensive definition of One Health, brief summaries of current One Health projects and research within the University, and contact information for those interested in becoming involved in said research.

The website and information should be openly accessible to all students in the University, including undergraduates on the Medford Campus. The recommended time frame for the establishment of this website is one year. Promotional materials should be developed to ensure students are aware of the newly established One Health resources and directives.

- III. Establish two courses dedicated to veterinary medicine for undergraduate pre-veterinary students. These should be centered in the department of Biology. The Cummings School of Veterinary Medicine should be included in the development and establishment of these courses, ensuring they accurately depict One Health and Zoonotic concepts.

# Proposed Student Goals

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Tufts One Health proposes the following goals for inclusion in the CTSI One Health program:

- I. Develop a One Health track in collaboration with the Pre-Health office and One Health student team of the Medford campus. The track should consist of a minimum of five courses that demonstrate One Health concepts. The recommended time frame for development is two years. The following classes should be included in the track:

Introduction to One Health (CH-0099), Environmental Biology (BIO-0007), Epidemiology (CEE-0054), Issues in Global Health (CH-0056), and an Introduction to Zoology<sup>1</sup>.

- II. Develop an Undergraduate One Health dual major that prepares students for health related fields. The major should consist of ten courses in One Health related fields and promote integrated problem solving. The proposed time frame for development and implementation is six years. Classes should be divided into core requirements and elects. The core requirements for the major will include the five courses approved for the One Health track.

The remaining five courses can be selected from the following list representing One Health concepts:

Statistics (EC-0013, CH-0031, BIO-0132, or MATH-0021); Intro to GIS (GIS-0101); Biology of Cells and Organisms (BIO-0013); Organisms and Populations Biology (BIO-0014); Science and Practice of Medicine (CH-0107); Health Equity and the Built Environment (CH-0188); Introduction to Economics (EC-0005); Public Policy Economics (EC-0091); Public Health Approach to Tropical Diseases (CH-0188); Water, Sanitation, and Hygiene in Global Health (CH-0196); and Public Health Engineering (CEE-0027).

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<sup>1</sup> Introduction to Zoology currently does not exist in the Undergraduate curriculum.