Undergraduate Training in Public Health Should Prepare Graduates for the Workforce

Randy Wykoff  
*East Tennessee State University*, wykoff@etsu.edu

Amal Khoury  
*East Tennessee State University*, khoury@etsu.edu

J. Michael Stoots  
*East Tennessee State University*, stootsj@etsu.edu

Robert P. Pack  
*East Tennessee State University*, packr@etsu.edu

Follow this and additional works at: https://dc.etsu.edu/etsu-works

Citation Information

https://doi.org/10.3389/fpubh.2014.00285 ISSN: 2296-2565

This Article is brought to you for free and open access by the Faculty Works at Digital Commons @ East Tennessee State University. It has been accepted for inclusion in ETSU Faculty Works by an authorized administrator of Digital Commons @ East Tennessee State University. For more information, please contact digilib@etsu.edu.
Undergraduate Training in Public Health Should Prepare Graduates for the Workforce

Copyright Statement
© 2015 Wykoff, Khoury, Stoots and Pack

Creative Commons License

This work is licensed under a Creative Commons Attribution 4.0 International License.

This article is available at Digital Commons @ East Tennessee State University: https://dc.etsu.edu/etsu-works/1332
Undergraduate Training in Public Health Should Prepare Graduates for the Workforce

Randy Wykoff  
*East Tennessee State University, wykoff@etsu.edu*

Amal Khoury  
*East Tennessee State University, khoury@etsu.edu*

J. Michael Stoots  
*East Tennessee State University, stootsj@etsu.edu*

Robert P. Pack  
*East Tennessee State University, packr@etsu.edu*

Follow this and additional works at: [https://dc.etsu.edu/etsu-works](https://dc.etsu.edu/etsu-works)

Part of the [Community Health and Preventive Medicine Commons](https://dc.etsu.edu/etsu-works)

Citation Information  

This Article is brought to you for free and open access by the Faculty Works at Digital Commons @ East Tennessee State University. It has been accepted for inclusion in ETSU Faculty Works by an authorized administrator of Digital Commons @ East Tennessee State University. For more information, please contact digilib@etsu.edu.
Undergraduate Training in Public Health Should Prepare Graduates for the Workforce

Copyright Statement
© 2015 Wykoff, Khoury, Stoots and Pack

Creative Commons License
This work is licensed under a Creative Commons Attribution 4.0 License.

This article is available at Digital Commons @ East Tennessee State University: https://dc.etsu.edu/etsu-works/1332
Undergraduate training in public health should prepare graduates for the workforce

Randy Wykoff 1*, Amal Khoury 1, J. Michael Stoots 2 and Robert Pack 2

1 Department of Health Services Management and Policy, College of Public Health, East Tennessee State University, Johnson City, TN, USA
2 Department of Community and Behavioral Health, College of Public Health, East Tennessee State University, Johnson City, TN, USA

*Correspondence: wykoff@etsu.edu

There has been a rapid growth in the number of programs awarding undergraduate degrees in public health and the number of students receiving such degrees (1). There has not, however, been a significant discussion of the purpose of such degree programs. What, if anything, are the recipients of these degrees being trained to do? What careers, if any, are they being prepared to enter? Is the degree designed primarily to prepare students to enter graduate training in public health or some other graduate or health professional programs? Alternatively, does the degree exist because "an understanding of public health is a critical component of good citizenship and a prerequisite for taking responsibility for building healthy societies"? (2).

While a reasonable case could be made for all of these purposes, we strongly believe that the undergraduate degree in public health should be seen primarily as a professional degree that is designed to prepare students to enter a well-defined and vital career track. Our perspective is informed by a 60-year history of providing undergraduate training in public health and by a long-standing relationship with alumni, preceptors, and employers who regularly provide quantitative survey data to us. While our specific experience reflects our long history and our geographic location in a relatively rural area of central Appalachia, we believe that our "lessons learned" are relevant to any program currently or potentially providing undergraduate education in public health.

Specifically, it is helpful for any program to seek to understand its market and its students; tailor its competencies and curriculum to match the needs of its employers; and continuously evaluate its performance by seeking input from students, alumni, employers, and other stakeholders. As seen below, those processes and self-assessment tools have been key to the success and longevity of our program.

East Tennessee State University (ETSU) has been offering undergraduate training in public health for well over 60 years. In 1933, the State Teacher's College, Johnson City (the predecessor of ETSU) began offering a concentration in Health within the degree that was then known as Physical Education and Health. A minor in Health was first offered in 1950, and the School of Health was created in 1955. It included the newly formed Department of Health Education 1 and offered, for the first time, a BS in Health Education. The Department of Environmental Health was created and first offered the Bachelor of Science in Environmental Health (BSEH) in 1965. The Bachelor of Science in Health Science (BSHS) was also first offered in 1965. In 1969, the BSEH became the first undergraduate program in the United States accredited by the National Accreditation Council for Undergraduate Curriculum in Environmental Health. In 1973, a concentration in Health Administration was offered by the Department of Health Education and, in 1978, the School of Public and Allied Health 2 was established. Masters degrees were added in Environmental Mental Health (MSEH in 1971) and Public Health (MPH in 1986). In 2000, ETSU was accredited by the Council on Education for Public Health (CEPH) as a graduate program in public health and, in 2009, was accredited as the first school of public health in Tennessee and the first to be located in central Appalachia. By definition, with full accreditation as a school of public health, all academic programs in the college, including the undergraduate degrees, were part of the CEPH-accredited unit. This chronology makes ETSU one of the few accredited schools of public health in the country that started with undergraduate training and added graduate programs at a later date.

Today, the ETSU College of Public Health, in addition to a full complement of graduate degrees and certificates, offers five undergraduate degrees – BS Public Health (BSPH) with concentrations in Community Health and Health Care Administration; BSHS with concentrations in Microbiology and Human Health; and the BSEH. In the 25 years between 1989 and 2014, ETSU awarded over 1,500 undergraduate degrees from what became the College of Public Health – 722 BSPH degrees, 530 BSEH degrees and 294 BSHS degrees.

This article addresses recent data generated by the alumni, preceptors, and employers of the BSPH graduates. According to the ASPHP interactive website, in the first 5 years reported (1992–1996), ETSU was the fifth most productive

1The name of this department was changed to Public Health in 1995.
2By 2007, Departments in the College of Public and Allied Health that were split off in the forming of the College of Public Health included Dental Hygiene, Radiography, Cardiopulmonary, Speech and Language Pathology, and Physical Therapy.
The current shortage of trained professionals in public health has heightened potential interest in undergraduate training for public health. Data from our program, and recently reported national data, document that graduates from undergraduate programs in public health are overwhelmingly entering the workforce upon graduation. In our experience, most students enter a health-related job in hospitals, medical practices, nursing homes, or other healthcare industries, though the job destinations may vary in other job markets. The students’ own reports, the evaluations from their internship preceptors, and the evaluations from their employers all suggest that these students are well-prepared and successful in meeting the needs of the workforce.

While recognizing that a minority of students do enter graduate school upon graduation (and presumably more do, sometime later) and while recognizing that training in public health is valuable preparation for many career tracks, the fact that the vast majority of undergraduate public health graduates enter the workforce leads, we believe, to three major conclusions:

1. Undergraduate degree programs in public health should be designed, delivered, modified, and evaluated primarily with the understanding that they are preparing students for the workforce. Specific attention should be given to ensuring that students are exposed to local level public health professionals and/or to agencies that engage in population health practice.

Table 1 | Reported placement data: BSPH alumni survey (2009/2010, 2010/2011, 2011/2012 alumni) (65 responders: response rate 69.5%).

<table>
<thead>
<tr>
<th>Placement</th>
<th>Number</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospital or healthcare delivery organization</td>
<td>21</td>
<td>34.4</td>
</tr>
<tr>
<td>Non-profit organization</td>
<td>6</td>
<td>9.8</td>
</tr>
<tr>
<td>Local, state, or federal government</td>
<td>4</td>
<td>6.6</td>
</tr>
<tr>
<td>Proprietary organization</td>
<td>3</td>
<td>4.9</td>
</tr>
<tr>
<td>University</td>
<td>2</td>
<td>3.3</td>
</tr>
<tr>
<td>School system</td>
<td>2</td>
<td>3.3</td>
</tr>
<tr>
<td>Other</td>
<td>10</td>
<td>16.4</td>
</tr>
<tr>
<td>Unemployed: looking for work</td>
<td>2</td>
<td>3.3</td>
</tr>
<tr>
<td>Unemployed: not looking for work</td>
<td>4</td>
<td>n/a</td>
</tr>
<tr>
<td>Student</td>
<td>11</td>
<td>18.0</td>
</tr>
</tbody>
</table>

*a Excludes those unemployed: not looking for work.*

While recognizing that a minority of students do enter graduate school upon graduation (and presumably more do, sometime later) and while recognizing that training in public health is valuable preparation for many career tracks, the fact that the vast majority of undergraduate public health graduates enter the workforce leads, we believe, to three major conclusions:

1. Undergraduate degree programs in public health should be designed, delivered, modified, and evaluated primarily with the understanding that they are preparing students for the workforce. Specific attention should be given to ensuring that students are exposed to local level public health professionals and/or to agencies that engage in population health practice.

While recognizing that a minority of students do enter graduate school upon graduation (and presumably more do, sometime later) and while recognizing that training in public health is valuable preparation for many career tracks, the fact that the vast majority of undergraduate public health graduates enter the workforce leads, we believe, to three major conclusions:

1. Undergraduate degree programs in public health should be designed, delivered, modified, and evaluated primarily with the understanding that they are preparing students for the workforce. Specific attention should be given to ensuring that students are exposed to local level public health professionals and/or to agencies that engage in population health practice.
and applied skills necessary for success in the workforce. To achieve these ends, we strongly believe that students should complete a substantial internship in the public health workforce prior to graduation.

(2) Undergraduate programs in public health should be carefully and regularly benchmarked against the needs of local employers. This necessitates regular collection and analysis of data from alumni, preceptors, and employers, as well as periodic re-evaluation of future trends and directions in the needs and expectations of employers. We require each of our programs to undergo such a review every 4 years. An additional source of useful data can be collected from students when they return from their internships. We routinely ask these students to identify areas where their preparation could have been improved.

(3) Institutions offering undergraduate degrees in public health also have an obligation to assure that there is a job market for their graduates. As in any other field, an “over supply” of graduates, or the production of graduates who lack the skills necessary for success in the job market, serves neither the best interests of the field nor the best interest of the graduates. New programs should grow slowly, assuring that the supply of graduates does not exceed the “carrying capacity” of the local job market. A close relationship between the schools and local employers is essential in this process.

We believe that to treat the degree as one that provides only a basic level of understanding of the field is to deny students the quality of training that is essential to protect the public’s health in the future. Undergraduate-trained engineers build bridges and buildings. Why would not undergraduate – trained public health professionals have a comparable level of expertise and skill?

For years academia has recognized the Master of Public Health degree as a “professional” degree designed and executed to prepare students to enter the workforce. The undergraduate degree should be seen in no different light.

REFERENCES


Conflict of Interest Statement: The authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.

Received: 27 October 2014; paper pending published: 10 November 2014; accepted: 07 December 2014; published online: 05 January 2015.


This article was submitted to Public Health Education and Promotion, a section of the journal Frontiers in Public Health.

Copyright © 2015 Wykoff, Khoury, Stoots and Pack. This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY). The use, distribution or reproduction in other forums is permitted, provided the original author(s) or licensor are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.