



Building Blocks to an IPE Curriculum: Creating an IPE Course using Active Learning and Technology

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Abstract #191

Today's Agenda



Learning Outcomes for Discussion

To investigate the process of creating an IPE course as a starting point for building an IPE curriculum

To examine the use of technology as it relates to IPE coursework

To explore both the potential roadblocks to success and the options for addressing those roadblocks





AN HONORS UNIVERSITY IN MARYLAN

University of Maryland, Baltimore County

B.A. History B.A. Political Science B.A. Psychology B.A. Social Work M.P.S Biotechnology M.P.S Cybersecurity M.P.S Geographic Information Systems (GIS) M.P.S Industrial-Organizational Psychology Graduate Certificates in Professional Studies available in: Biotechnology Management, Biochemical Regulatory Engineering, GIS and Cybersecurity Strategy & Policy

Towson University

B.S. Early Childhood Education B.S. Elementary Education/Special Education (dual certification) M.A.T. Special Education M.Ed. Early Childhood Education M.Ed. Special Education

University of Baltimore

B.S. Health Systems Management B.S. Simulation & Digital Entertainment M.A. Publications Design M.P.A. Public Administration M.S. Health Systems Management M.P.S. Justice Leadership & Management M.S. Forensic Science-High Technology Crime D.P.A. Doctor of Public Administration

University of Maryland, Baltimore

B.S. Nursing (Basic Option) B.S. Nursing (RN-BSN Option) M.S.W. Social Work Doctor of Pharmacy (PharmD)

University System of Maryland

Powerful Partnerships

The Universities at Shady Grove

University of Maryland, College Park

B.S. Accounting **B.S. Biological Sciences B.A.** Communication B.A. Criminal Justice and Criminology B.S. Management with Specialization in Entrepreneurship **B.S. International Business B.S. Marketing B.S. Public Health Science** M.B.A. Business Administration M.Ed. Creative Initiatives in Teacher Education (CITE) M.Ed. Human Development M.Ed. Math Education: Middle School Math M.Ed. Special Education/Severe Disabilities M.Ed. Teacher Leadership: STEM Education Master of Public Health in Public Health Practice & Policy Master of Information Management M.L.S. Library Science Master in Engineering MCERT in Elementary, Secondary & PK-12 Education Subjects Post-Baccalaureate Certificates in Global Health & Principles of Public Health Post-Baccalaureate Certificates in TESOL & World Language Education Graduate Certificates in AMASSP & ACDMR Graduate Certificate in Engineering

Institute for Bioscience and Biotechnology Research – Shady Grove UMCP, UMB, NIST

Center for Health & Homeland Security UMB School of Law Regional Community Colleges (e.g., Montgomery, Frederick, Prince Georges, Howard)

University of Maryland University College

B.S. Accounting **B.S. Business Administration B.A.** Communications Studies B.S. Digital Media & Web Technology B.S. Computer Networks & Cybersecurity *B.S. Human Resource Management B.S. Cybersecurity Management & Policy **B.S. Investigative Forensics** B.S. Public Safety Administrative **B.S. Software Development & Security B.S. Information Systems Management** *B.T.P.S. Biotechnology B.T.P.S. Laboratory Management M.S. Biotechnology *M.S. Health Care Administration M.S. Information Technology M.S. Management

*Certificate Program available

University of Maryland Eastern Shore

B.S. Construction Mgmt. Technology B.S. Hospitality & Tourism Management

Salisbury University

B.S. Exercise Science

Bowie State University

M.Ed. Education Ed.D. Education

USG is a USM Regional Higher Education Center Located in Montgomery County Maryland

USG student population mirrors county in diverse population & first generation college attendees

| Gender at USG | | |
|---------------|-----|--|
| Female | 55% | |
| Male | 45% | |



| Ethnicity at USG | | |
|-----------------------|--|--|
| White | 36% | |
| African American | 20% | |
| Asian | 14% | |
| Hispanic | 17% | |
| Other/Not reported | 9% | |
| Foreign | 4% | |
| SG II | way strop Patring Lat & Remain SG I ARTS II CARB CARB Common Como | |

| Ethnicity in Montgomery County | | |
|--------------------------------|-------|--|
| White | 39.6% | |
| African American | 26.6% | |
| Hispanic | 24.1% | |
| Other | 9.7% | |





Curriculum

Develop an IPE Curriculum for Students



Develop an IPE Curriculum: Explore and Address Potential Roadblocks

Working across institutions:

- Technology
- Administration
- Money
- Promotions/Recognition

Incentivizing faculty to teach

Incentivizing students to take the courses and work towards program completion

Creating cohesion: Developing a starting point, and providing a path towards completion

Develop an IPE Curriculum: What do we need to know?

- Who is involved?
 - What curriculum is open (courses/programs)?
- What are the Institutional Barriers?
 - How do we incorporate technology effectively?

• How do we tie IPE coursework and experience together?

Provide Incentives for faculty participation

Complete a Needs

Consider Outcomes for Students

How do we support faculty with ideas and course design?
How do we provide monetary/promotional awards?

Discussion on Curriculum

- 1. What are some *best practices* for curriculum development as well as some *lessons learned*?
- 2. How do we make technology and admin work across institutions?
- 3. How do we incentivize faculty to teach IPE courses?
- 4. How do we incentivize students to take the courses?
- 5. What are useful assessments for an IPE program?
- 6. How do we make the program sustainable?

GoogleDrive link: <u>http://tinyurl.com/ohs5gwf</u> - Worksheet #1 (Curriculum)

Course Design: IPE 101

To be offered in SU2016 at USG

Targeted for incoming transfer students

Uses F2F and online (hybrid)

"Connections"

Gets students to work in interdisciplinary teams both in person and online

Course Design: Process for Creating the Multidisciplinary Course



UMCP — University of Maryland, College Park

Figure 1 Collaborative course development.

From Clark, K. C, Gerstenbilth, S, Alonso, D., Wright, R., & Pandya, N. (2013) at http://www.tandfonline.com/doi/pdf/10.1080/10511253.2012.740056

Course Design: Incorporating Technology & Innovation Within the Course

Using Technology

- To organize class tools for reuse and sharing
- For simulations (in person and online)
- Incorporating Social Media (FB, twitter, etc.)
- Using Crowdsourcing (e.g. Mechanical Turk)
- Working in a Technology classroom: The USG Active Learning Classroom

Using Case Studies and Games

- Case Studies Consider problems from various different angles (professions) – e.g. medicine vs. industry – how would each solve? How does that change when they all come together?
- Games: The Mars/Moon problem or the Marshmallow Challenge

| Syllabus | |
|---|---|
| IPE Overview | Core Competencies Ethics – Understand professional code of ethics |
| Orienting Material | |
| Conflict Resolution | |
| Use of Games | The Moon/Mars Problem and The Marshmallow Challenge |
| Use of Technology and Innovation | Crowdsourcing, Mechanical Turk, Social Media TBL – IF-AT (not really high tech but useful) |
| Course Assessments | How students are doing/what they are learning and also how well the course meets its goals |
| Assessments of IPE, Teamwork, and Individual Roles within the Group | Individual reflection and Group reflection – in a course how did the individual feel that he/she worked within the group and how well did he/she feel that the group, as a whole, worked AND as a group how did the group feel that the group worked. |

Discussion on Course Design

- 1. What are some *best practices* for course development as well as some *lessons learned*?
- 2. What are some of the best ways to incorporate IPE into a class?
- 3. What are some ideas about creating and sharing reusable tools?
- 4. What are useful assessments for an IPE course?
- 5. How do we make the course sustainable?

GoogleDrive link: <u>http://tinyurl.com/ohs5gwf</u> - Worksheet #2 (Course Design)

This project was supported, in part, by: The Hrabowski Fund for Innovation & The UMB Center for Interprofessional Education (IPE) Faculty Award



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