



INSTITUTE FOR
INTERNATIONAL
MEDICINE

INMED Professional Certificate Course in International Medicine & Public Health Syllabus

Course Faculty:

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Overview:

Promoting health in a low resource and/or cross-cultural setting presents special challenges, and requires particular skills. This comprehensive course enhances expertise in diseases of poverty, low-resource HIV medicine, maternal-newborn health, clinical skills for low-resource settings, international public health, cross-cultural skills, disaster management, low-resource health leadership, and healthcare education.

Competency Objectives:

At the completion of the INMED Professional Certificate Course in International Medicine & Public Health learners will be able to demonstrate using case-studies and simulation:

- Management & prevention of the leading diseases of poverty
- Management & prevention of HIV infection
- Care for the health of pregnant women and newborns
- Proficiency in clinical skills useful in low-resource settings
- Skill in community-wide health promotion and death/disability prevention
- Culturally appropriate healthcare
- Proficiency in disaster mitigation and response
- Design and implementation of team-lead healthcare interventions

- Transfer of healthcare skills to other personnel

Timeframes:

This Professional Certificate Course includes 8 weeks of structured learning and assignments due each Sunday night. Each week includes a *required* virtual class with the faculty for discussions, simulations, case studies and final exams. This weekly *required* virtual class may last up to 120 minutes.

Academic Credit:

Completion of this course requirements earns ten credit hours of academic credit.

Admissions Requirements:

- Currently enrolled in Medical; Pharmacy; Dental; Physician Assistant program (or)
- Active MD/DO; PharmD; DDS; or PA clinical license that is in good standing

Computing Requirements:

The following are the minimum computing requirements for participating this course. Students must have ready access to and be functionally proficient with:

- A personal computer with an up-to-date operating system and ample memory for downloads. A rectangular monitor (desktop or tablet) is highly preferable for course navigation.
- A web browser, preferably the most up-to-date version of Chrome, Internet Explorer, Firefox, or Safari
- Applications capable of opening and editing Microsoft Word documents and of viewing PDFs
- An Internet connection, preferably high speed
- Capability of viewing YouTube and Vimeo videos

Education Methods:

Learners will achieve the course competency objectives through the following educational components:

- Interactive online presentations by expert professionals
- Case studies providing analysis
- Group discussions

- Projects for exploring personal application
- Skill stations to develop technical facility

Reference Texts:

INMED International Medicine & Public Health

Author: Nicholas Comninellis, MD, MPH

Publisher: Institute for International Medicine, 2012

400 pages

Note: This book will be mailed free of charge to course participants. Due to barriers against international shipping, this book can only be provided to mailing addresses within the United States.

Handbook of Medicine in Developing Countries, 5th Edition

Author: Dennis Palmer, DO, and Catherine E. Wolf, MD

Publisher: Christian Medical & Dental Associations

507 pages, spiral bound

Note: This book is available for purchase from [Christian Medical & Dental Associations](#).

Weekly Assignments:

Required weekly virtual class with course faculty for up to 120 minutes to discuss assigned lessons, chapters, articles, forum discussions and questions.

Clinical Health Week One: Diseases of Poverty, Part One

Learning Content:

Lesson One: Introduction to Diseases of Poverty

Lesson Two: Malnutrition

Lesson Three: Enteric Infections

Lesson Four: Viral Diseases

Lesson Five: Malaria

Lesson Six: Syndrome Management

Virtual Classroom Content:

Fighting the Diseases of Poverty Discussion

F-100 Formulation Exercise. Gather the following supplies in advance:

- Brown or whiter sugar 100 ml (75 gm)
- Full-cream (whole) cow's milk 850 ml
- Vegetable oil 20 ml (20 g)
- Mixing bowl one liter

- Measuring cup
- Spoon for mixing
- Drinking cup
- Towel for cleaning spills

Assignments to be completed by 11:55 pm, on Sunday:

- Participate in the INMED Diseases of Poverty content, Lessons 1-6
- Read Assigned Articles
- Complete the Discussion Board Assignments
- Complete Syndrome Management Protocol Development Exercise #1

Clinical Health Week Two: Diseases of Poverty, Part Two

Learning Content:

Lesson Seven: Tuberculosis

Lesson Eight: Bacterial Infections

Lesson Nine: Protozoal Diseases

Lesson Ten: Intestinal Helminth Infections

Lesson Eleven: Tissue Helminth Infections

Lesson Twelve: Chronic Non-Infectious Diseases

Virtual Classroom Content:

Tropical Medicine Case Studies Surgical

Assignments to be completed by 11:55 pm, on Sunday:

- Participate in the INMED Diseases of Poverty content, Lessons 7-12, and complete the Post-Test for this subject
- Read Assigned Articles
- Complete the Discussion Board Assignments
- Complete Syndrome Management Protocol Development Exercise #2

Clinical Health Week Three: Low-Resource HIV Medicine

Learning Content:

Lesson One: Introduction to the HIV/AIDS Epidemic

Lesson Two: Prevention of HIV Infection

Lesson Three: Mother to Child Transmission (MTCT) Prevention

Lesson Four: Treatment of HIV Infection

Lesson Five: HIV-Related Opportunistic Diseases

Lesson Six: Children & HIV Infection

Virtual Classroom Content:

Tropical Medicine Case Studies Non-Surgical

Assignments to be completed by 11:55 pm, on Sunday:

- Participate in the INMED International HIV Medicine content, and complete the Post-Test for this subject
- Read Assigned Articles
- Complete the Discussion Board Assignments
- Complete your responses to the International HIV Exercise

Clinical Health Week Four: Maternal-Newborn Health

Learning Content:

Lesson One: Surviving Motherhood

Lesson Two: Pre & Post Natal Care

Lesson Three: Pregnancy Complications

Lesson Four: Pressing Women's Disability Issues

Lesson Five: Newborn Care Overview

Lesson Six: Healthy Newborn

Lesson Seven: Newborn Problems and Management

Lesson Eight: Maternal Newborn Future Vision

Virtual Classroom Content:

High-Risk Low-Resource Maternal Care Presentation

Helping Babies Breathe Discussion & Skills Demonstration

International Medicine Exam Review

Assignments to be completed by 11:55 pm, on Sunday:

- Participate in the INMED Maternal-Newborn content
- Read Assigned Articles
- Complete the Discussion Board Assignments
- Complete the post-partum Maternal Postpartum Care or Newborn Care Exercise

Public Health Week One: International Public Health

Learning Content:

Lesson One: Introduction to International Public Health

Lesson Two: Health and Social Context

Lesson Three: Strategy for Health

Lesson Four: Effective Health Promotion

Lesson Five: Effective Disease and Injury Intervention

Virtual Classroom Content:

From Rescue to Resilience Discussion

Oral Rehydration Formulation Exercise. Gather the following supplies in advance:

- 1 liter of drinking water:
- Sugar - 6 level teaspoons (30 ml)
- Salt - 1/2 level teaspoon (2.5 ml)
- Mixing bowl one liter
- Measuring cup
- Spoon for mixing
- Drinking cup
- Towel for cleaning spills

International Clinical Health Final Exam

Assignments to be completed by 11:55 pm, on Sunday:

- Participate in the INMED International Public Health content and complete the Post-Test for this subject
- Read Assigned Articles
- Complete the Discussion Board Assignments
- Complete the Personal Health Risk Assessment Exercise

Public Health Week Two: Cross-Cultural Skills, AND Disaster Management

Learning Content:

Lesson One: Relevance of Cultures

Lesson Two: Basic Cross-Cultural Skills

Lesson Three: Healthcare Cross-Cultural Skills

Lesson Four: International Cross-Cultural Skills

and

Lesson One: Introduction to Disaster Management

Lesson Two: Disaster Mitigation

Lesson Three: Disaster Preparedness

Lesson Four: Disaster Response

Lesson Five: Disaster Recovery

Virtual Classroom Content:

Cross-Cultural Skills Session

Disaster Management Skills Stations

Assignments to be completed by 11:55 pm, Sunday:

- Participate in the INMED Cross-Cultural Skills and Disaster Management content and complete the Post-Test for these subjects
- Read Assigned Articles
- Complete the Discussion Board Assignments

- Complete the selected Cross-Cultural Health Cases Exercise
- Complete the Complete the Personal Disaster Preparedness Exercise

Public Health Week Three: Health Leadership

Learning Content:

Lesson One: Introduction to International Health Leadership

Lesson Two: Strategy for Health

Lesson Three: Major International Health Initiatives

Lesson Four: How to Lead A Health System

Virtual Classroom Content:

Community Health Survey Exercise

Assignments to be completed by 11:55 pm, Sunday:

- Participate in the INMED Health Leadership content and complete the Post-Tests for this subject
- Read Assigned Articles
- Complete the Discussion Board Assignments
- Complete the selected International Health Leadership Cases Exercises

Public Health Week Four: Health Professions Education

Learning Content:

Lesson One: Skill Transfer and Empowerment

Lesson Two: Effective Learning

Lesson Three: Effective Teaching

Lesson Four: Feedback and Evaluation

Lesson Five: Instructional Design

Virtual Classroom Content:

International Public Health Exam Review

Launching Your International Healthcare Career Discussion

Assignments to be completed by 11:55 pm, Sunday:

- Participate in the INMED Healthcare Education content and complete the Post-Test for this subject
- Read Assigned Articles
- Complete the Discussion Board Assignments
- Complete the Competency Objectives Composition Exercise

Final Exam:

All learners will login together for the International Public Health Final Exam on the assigned date and time, for up to 120 minutes. The office Class Photo will proceed the Final Exam.

Explanation of Assignments:

Due Dates: All assignments are due on Sunday at 11:55 pm of the week they are assigned.

Participation: Learners are required to fully participate in the course content, including readings, discussions, and essay.

Punctuality: This is a professional level course. All assignments are expected to be submitted on time. Any learner who becomes more than two weeks behind in submitting any assignment is subject to dismissal from the course. If dismissal occurs, the learner will be granted one opportunity to re-enroll in an upcoming course at no additional tuition payment.

Professionalism Requirement: This is a learning experience for professionals. Assignments are expected to be completed with excellence.

Assigned Articles: Each week, journal articles are assigned for learners to critically review, including one posted question on the subject of each article.

Discussion Board Participation: Learners are required to post one response to each of these questions, and respond to at least one fellow classmate's responses, stating with what they agree or disagree with about the response and why. A post that simply agrees with something someone else said without further explanation is not satisfactory and will be counted as if there were no post.

Exercises: Each week learners will complete an assigned exercise that requires application of the information studied. The completed exercise will then be submitted to the instructor.

Grading:

Letter grades of A, B, C, D, and F are used. Temporary grade of IN (Incomplete) is treated as an F until removed.

Grade points are assigned as follows:

A = 4.0

B = 3.0
C = 2.0
D = 1.0
F = 0.0

A	90-100%	4.00
B	80-89%	3.00
C	70-79%	2.00
D	60-69%	1.00
F	0-59%	0.00

Grade Definitions

Following are definitions used for the assignment of grades.

A

Mastery of course objectives is at the highest level of expected achievement.

B

Adequate performance in attaining the course objectives has been achievement.

C

An inadequate level of course objective attainment has been achievement.

D

Only marginal inadequate performance towards the course objectives have been achieved.

F

Grossly inadequate performance has been demonstrated.

IN

Incomplete status. This is a temporary grade indicating that the learner has been given and the opportunity to submit outstanding requirements. IN automatically converts to F at the end of eight weeks following the close of a term.

W

Withdrawal from a course without credit.

Requirements for Successful Completion & Course Grade Determination:

<i>Element</i>	<i>Weight</i>
Virtual Classroom participation	15%
8 post-tests achieving	10%
8 satisfactory article discussion board posts	15%
9 satisfactory exercise submissions	20%
International Clinical Health Final Exam $\geq 80\%$	20%
International Public Health Final Exam $\geq 80\%$	20%

In addition, course completion also requires:

- Participation in *all* weekly virtual classes
- Achievement of $\geq 80\%$ on the International Clinical Health and International Public Health Final Exams
- Cumulative course score $\geq 80\%$
- Complete course evaluation and credit claims forms at the course conclusion.

Final Exams: Two final exams will be conducted: International Clinical Health and International Public Health. Each exam is composed of 60 multiple-choice questions. An excellent review for these exams is thorough mastery of the Certificate Course content.

Learners whose evaluation is acceptable will receive the *INMED Professional Certificate in International Medicine & Public Health*. Those learners whose evaluation is not acceptable will receive a certificate of participation and the opportunity to remediate.

Remediation:

If a learner does not complete this course and achieve the required competencies, the faculty may require the learner to 1) remediate the component(s) that the learner did not satisfactorily complete, or 2) repeat the entire course within one year of the start date of the original course. The learner will be offered only one opportunity to repeat the course without requiring repeat payment of tuition.

Academic Integrity:

This is a professional-level learning experience. All learners are expected to be self-motivated, to perform with excellence, and to be thoroughly honest throughout their process of learning. If any INMED faculty determines that a learner has committed academic dishonesty by plagiarism, cheating or in any other manner, the faculty member has the right to 1) fail the learner for the particular assignment, project and/or exam, 2) fail the learner for the

entire course, 3) discharge the learner from any future INMED learning experience, including degree, diploma, or certificate completion.

Withdrawal and Refund Policy:

Seventy-five percent refunds for course registration are available before the first day of the course. Fifty percent refunds are available through the first week of the course. No refunds are available after the first week. If a course participant desires to cancel his/her enrollment, he/she has the choice to request a refund or to apply his/her payment to a future INMED Professional Certificate Course. All payments made to INMED must be in US dollars.

INMED reserves the right to cancel individual sessions or the entire course. In the event of a course cancellation, a full tuition refund will be made.

Course Faculty:

Nicholas Comninellis, MD, MPH, DIMPH
Dean, Institute for International Medicine

Nicholas Comninellis is Dean of INMED, the Institute for International Medicine. He is also faculty in the Department of Medical Humanities at the University of Missouri-Kansas City (UMKC) School of Medicine and faculty at Research Medical Center Family Medicine Residency. Over two years Dr. Comninellis served inner city citizens at Shanghai Charity Hospital. Over another two years he led a healthcare ministry in the war-besieged nation of Angola in southern Africa. Dr. Comninellis next served for six years in the Kansas City public hospital before launching INMED in 2003. He graduated from UMKC School of Medicine and Saint Louis University School of Public Health, and was a family medicine resident at John Peter Smith Hospital. Dr. Comninellis also earned a professional diploma in tropical medicine from the Walter Reed Army Institute of Research, and became board certified in both public health and family medicine. Among his authored books are *Shanghai Doctor*, *Where Do I Go From Here*, and *INMED International Medicine & Public Health*. Dr. Comninellis is a classical guitarist and faculty advisor for UMKC Cru. He was recognized as the 2009 United Nations Association of the United States World Citizen and the 2015 University of Missouri-Kansas City Alumni of the Year.

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Paul Larson is faculty at the UPMC St. Margaret Family Medicine Residency, Pittsburgh, Pennsylvania, where he serves as Director of Global Health Education and Medical Director of Duquesne University Health Services. In addition, Paul serves UPMC as lead consultant for WorkPartners Primary Care Initiative and UPMC International development of a residency program and clinical academic department of Family Medicine at Nazarbayev University, Kazakhstan.

Paul graduated from the University of Massachusetts Medical School and completed Family Medicine Residency at The Washington Hospital in Washington, Pennsylvania. He completed a post-graduate diploma in Tropical Medicine at the University of Liverpool, U.K and practiced full-spectrum Family Medicine in Kenya as a clinical educator and acting medical director of a district hospital. Paul returned to the USA to complete an MS in medical education at the University of Pittsburgh and a fellowship in faculty development at the University of Pittsburgh Department of Family Medicine, UPMC St. Margaret where he has been faculty for the past 10 years. Paul completed an executive MBA in Healthcare at the University of Pittsburgh Joseph M. Katz Graduate School of Business, Beta Gamma Sigma and is a Certified Physician Executive. Paul is married to Alysia and they have five active teen/preteen children. Paul volunteers as a Medical Officer for the PA Wing, Civil Air Patrol, U.S. Air Force Auxiliary.

Olivia Li, RN, MSN, EdD
INMED Assistant Professor
Nursing Faculty, Langara University, BC, Canada

Dr. Olivia Li has over 23 years of international registered nursing, education, and executive leadership experience in China, the United Kingdom, Canada, and the United States. Dr. Li gained her professional experience through a wide variety of settings including intensive care unit, acute surgical-medical, orthopedic/trauma, occupational and community health in both public and private sectors. She obtained her Master's degree in Nursing from University of Wales in the United Kingdom and focused on education, and a Doctorate in Global Executive Education Leadership at the University of Southern California, USA. She holds numerous qualifications and licenses including active licenses as a registered nurse in the US, Canada, and the UK; adult education certificate, and Certified Occupational Health Nurse. She serves as a committee member for the provincial nursing registration regulatory body and has established and maintained key connections and influence in multiple international nursing networks, nursing education institutions, healthcare facilities, and non-profit organizations.

Disclosures:

No commercial support received. No relevant financial relationships with ACCME – defined commercial interests for anyone who was in control of the content of this activity.

There is no conflict of interest for anyone (planners, faculty, authors) with the ability to control the content of this activity.