Capstone Kit

2020-2021



SCHOOL OF MEDICINE

CASE WESTERN RESERVE UNIVERSITY

Master of Public Health Program

Capstone Project Overview

Objectives

The objectives of the *multi-semester* Capstone Project are to:

- Develop a broad understanding of content related to the chosen MPH concentration
- Develop the ability to communicate effectively with target groups and professionals
- Develop skills necessary for scholarship and scientific investigation
- Order priorities for major projects according to definable criteria
- Use information technology for applications relevant to public health
- Identify ethical, social and cultural issues relating to policies, risks, research and interventions in a public health context
- Identify decision-making processes within the field site organization
- Identify and coordinate the use of resources at the site

Requirements

The successful completion of the Capstone Project requires the completion of the following:

 Complete Capstone project proposal and accompanying forms (these <u>must</u> be completed, submitted, and approved by Capstone Committee and MPH Office prior to student receiving permission to register for Capstone credits

A completed Capstone project proposal includes:

- Cover sheet signed by all Capstone Committee members
- Proposal essay, detailing background literature, methodology, and public health significance of Capstone project
- o Capstone Foundational Competencies Form
- Concentration-Specific Competencies Form
- Capstone progress report(s)
- Foundational Competency Assessment Form (to be completed all members of the Capstone Committee)
- Concentration-Specific Competency Assessment Form (to be completed by all Capstone Committee members)
- Capstone essay of professional quality
- Capstone essay evaluation forms (to be completed by <u>all</u> Capstone Committee members)
- Oral presentation detailing the project and its findings given at the *Public Health Innovations*Conference
- Presentation evaluation forms (to be completed by <u>all</u> Capstone Committee members)

Capstone Proposal Guidelines & Checklist

It is exp	ect	ed that the Capstone Proposal will include:			
	Cover Sheet including name, title of the project, name of host organization, and Capstone Committee members (see next page for cover sheet)				
	Со	mpetency forms (see foundational and concentration-specific competency forms below)			
	Bri	ef Project Description			
	Background				
	1.	Literature Review			
	2.	Rationale			
		a. Concise statement of the research question(s) you are trying to address			
		b. How you will attempt to address the research questions			
	Pro	oject Design, which should include:			
	1.	A narrative of the project procedure in the sequence in which the project segments will be performed			
	2.	A depiction the population participating in the project			
	3.	A description of the project site			
	4.	An inventory of relevant institutional resources available to help complete your project			
	5.	A timeline			
	Ma	aterials and Methods			
	1.	An explanation of the instruments, materials, and methods you intend to utilize. We encourage research oriented capstone projects, but before data collection can occur the methodology should be approved by your Committee. Research projects will likely require IRB clearance. Please consult with your Committee and/or the MPH office for guidance on the IRB Process. Please attach a copy of any IRB application and/or IRB determination letter with your proposal.			
	2.	Draft informed consent form, if applicable			

3. Draft questionnaire/survey, if applicable

Plan for data analysis, evaluation, and/or interpretation
1. Intended analytic technique; or
2. Evaluation plan
Anticipated outcomes
1. What knowledge or product can be expected as a result of your project?
2. What is the potential significance of the results, including public health relevance?
If your capstone also encompasses your practicum:
 Identify the name and title of your preceptor List at least three goals of the practicum. (What will you learn? What will you do?) List any special considerations of your practicum. (Will you need a background check? Are there certain scheduling considerations you've worked out with your preceptor? Are there privacy or confidentiality considerations? Will you need to undergo specific training or credentialing?) List the competencies your project will address. You must meet at least 5 competencies, of which 3 much be Foundational. The other 2 may consist of concentration-specific or custom competencies relevant to your educational and/or career goals. List at least two concrete Portfolio Products (deliverables) that will result from your practicum Please reference the Culminating Experience Guide if you need example portfolio products. Your poster prepared for the <i>Innovations</i> conference does not count, nor does your capstone presentation or essay <i>unless you are submitting a manuscript for publication that you also plan to use as your capstone essay.</i>
List your Capstone Advisory Committee members. Briefly list or describe their professiona contributions to your project
References

Capstone Project Proposal Cover Sheet & Approval Form

Student Information: Student Name:		Student Email Address:				
Student Concentration(s): Registration Plans:	·	th Research Health Policy & Management Health Promotion & Disease Prevention ics				
Proposed Timeline:	Starting Semester/Year:	Ending Semester/Year:				
Capstone Information: Capstone Title:						
Does Capstone Ha If yes, ha Have yo (Please a	Yes No Yes (Completion Date:) No Not required Will submit proposal before beginning research Yes; IRB Protocol #					
Does this practicum experience involve travel outside the United States? If yes, please complete the following: Destination: Date of departure: Date of return: Has the student registered their travel with the Office of Education Abroad? (See MPH travel abroad policy in the Culminating Experience Guide)						
Capstone Site Information: Organization:						
Preceptor Name:	Preceptor Name: Preceptor Title:					
Preceptor Phone I	Number:	Preceptor Email:				
Preceptor Signatu Is Preceptor servi	re:ng as a Capstone Advisory Committee	Date: Date: Date: Permittee Chair? Yes				
Capstone Advisory Commit	tee (if the above Preceptor is serving a	as a Committee member, a duplicate entry below is not needed)				
Chair Name:		Chair Title:				
Chair Department	/Organization:					
Chair Phone Num	ber:	Chair Email:				
Chair Signature: _		Date:				
Advisor Name:		Advisor Title:				
Advisor Departme	ent/Organization:					
		Advisor Email:				
		Date:				
		Advisor Title:				
		Advisor Email:				
		Date:				
		l by MDH Drogram:				

Date approved: ______ Received by: ______

Capstone Foundational Competencies Form

Student Name	e: Date:
	: :
I am completir	ng this form as part of my:
	Capstone Proposal (To be submitted with Capstone Proposal to all members of Capstone Advisory Committee and MPH Director of Community Based Education)
	Capstone Progress Report (To be submitted with Progress Report to all members of Capstone Advisory Committee and MPH Director of Community Based Education)
	Final Capstone Requirements (To be submitted with Capstone Essay to MPH Director of Community Based Education)
Directions: All	Capstones Projects must demonstrate mastery of both foundational and concentration-specific
competencies.	. You may choose to include additional custom competencies if you choose. There is no
prescribed set	or minimum number of competencies to be met by the MPH Capstone. It is expected that
Capstone pro	jects will be substantial enough to demonstrate mastery of multiple foundational and
concentration-	-specific competencies. Please complete <u>both</u> the Capstone foundational competencies form
<u>and</u> the appro	priate concentration-specific competencies form and submit according to the guidelines above.
You can updat	e which competencies you are meeting with each submission, if applicable.
	Capstone Foundational Competencies
My Capstone I	Project will address the following foundational competencies:
Evidence-base	ed Approaches to Public Health
	Apply epidemiological methods to the breadth of settings and situations in public health
	practice
	Select quantitative and qualitative data collection methods appropriate for a given public health context
	Analyze quantitative and qualitative data using biostatistics, informatics, computer-based
	programming and software, as appropriate
	Interpret results of data analysis for public health research, policy or practice
Public Health	<u>& Health Care Systems</u>
	Compare the organization, structure and function of health care, public health and regulatory
	systems across national and international settings
	Discuss the means by which structural bias, social inequities and racism undermine health and
	create challenges to achieving health equity at organizational, community and societal levels

Planning & Ma	anagement to Promote Health				
	Assess population needs, assets and capacities that affect communities' health				
Apply awareness of cultural values and practices to the design or implementation					
	health policies or programs				
	Design a population-based policy, program, project or intervention				
	Explain basic principles and tools of budget and resource management				
	Select methods to evaluate public health programs				
Policy in Publi	<u>c Health</u>				
	Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence				
	Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes				
	Advocate for political, social or economic policies and programs that will improve health in diverse populations				
	Evaluate policies for their impact on public health and health equity				
<u>Leadership</u>					
	Apply principles of leadership, governance and management, which include creating a vision empowering others, fostering collaboration and guiding decision making				
	Apply negotiation and mediation skills to address organizational or community challenges				
Communication	<u>on</u>				
	Select communication strategies for different audiences and sectors				
	Communicate audience-appropriate public health content, both in writing and through ora				
	Describe the importance of cultural competence in communicating public health content				
Interprofessio	onal Practice				
	Perform effectively on interprofessional teams				
Systems Think	king				
	Apply systems thinking tools to a public health issue				
	To Be Completed by MPH Program:				
Date approved:	Received by:				

Concentration-Specific Competencies Form: GLOBAL HEALTH

Student Name:	Date:
Projects should	e this form if you are enrolled in the Global Health concentration. Global Health Capstone I address at least some of these competencies. Attach and submit with the Capstone ompetency Form.
l am completin৪	g this form as part of my:
MPH Dir	stone Proposal (To be submitted with proposal to all members of Capstone Advisory Committee and ector of Community Based Education)
	stone Progress Report (To be submitted with Progress Report to all members of Capstone Advisory tee and MPH Director of Community Based Education)
·	l Capstone Requirements (To be submitted with Capstone Essay to MPH Director of Community ducation)
My Capstone Pro	oject will address the following competencies:
	Evaluate the relationships and agencies focused on colonial health, tropical medicine, international health and global health in a historical context
	Prioritize of diseases of global health importance and their epidemiological context
	Apply methods for strengthening and focusing existing capacities and resources for health program sustainability and enhancement
_	Contrast application of policy or technology to impact priority diseases with addressing the underlying social and economic determinants of global health linked to health care delivery systems
	Apply the fundamental international principles and standards for the protection of human research subjects in diverse cultural settings
(Optiona	al) Use the space below (or attach a separate page) for any identified custom competencies.
Date approved:	To Be Completed by MPH Program: Received by:

Concentration-Specific Competencies Form: HEALTH INFORMATICS

Student Name	e:Date:
Capstone Proje	ete this form if you are enrolled in the Health Informatics concentration. Health Informatics ects should address at least some of these competencies. Attach and submit with the indational Competency Form.
I am completin	ng this form as part of my:
MPH Di ☐Cap Commit ☐Fina	ostone Proposal (To be submitted with proposal to all members of Capstone Advisory Committee and irector of Community Based Education) ostone Progress Report (To be submitted with Progress Report to all members of Capstone Advisory ttee and MPH Director of Community Based Education) al Capstone Requirements (To be submitted with Capstone Essay to MPH Director of Community Education)
My Capstone Pr	roject will address the following competencies:
	Understand the fundamentals of using biomedical ontologies for integration of biomedical and health data
	Differentiate between standard health data exchange formats and vocabularies
	Explain how clinical data originating from different systems are collected and coded and how they are normalized, aggregated, and analyzed
	Describe how biomedical terminological systems are used in natural language processing workflow for unstructured biomedical text
	Describe the ethical, regulatory, managerial, financial, and practical aspects of data security
(Option	nal) Use the space below (or attach a separate page) for any identified custom competencies.
Date approved:	To Be Completed by MPH Program:

Concentration-Specific Competencies Form: HEALTH POLICY & MANAGEMENT

Student Name	:Date:
Management (te this form if you are enrolled in the Health Policy & Management. Health Policy & Capstone Projects should address at least some of these competencies. Attach and submit
with the Capst	one Foundational Competency Form.
I am completin	g this form as part of my:
	stone Proposal (To be submitted with proposal to all members of Capstone Advisory Committee and rector of Community Based Education)
	stone Progress Report (To be submitted with Progress Report to all members of Capstone Advisory ttee and MPH Director of Community Based Education)
	al Capstone Requirements (To be submitted with Capstone Essay to MPH Director of Community Education)
My Capstone Pr	roject will address the following competencies:
	Apply the principles of program development, planning, budgeting, resource management, and policy evaluation in organizational or community initiatives
	Describe how policy impacts healthcare delivery and outcomes
	Apply a continuous quality and performance improvement framework to address organizational coordination and performance
	Identify methods for decision making using evidence-based, systems thinking, and data-driven approaches to health policy and management
	Identify how access, quality, and cost are influenced by organizational and financial structures
(Optior	nal) Use the space below (or attach a separate page) for any identified custom competencies.
Date approved:	To Be Completed by MPH Program: Received by:

Concentration-Specific Competencies Form: HEALTH PROMOTION & DISEASE PREVENTION

Student Nam	e:Date:
Health Promo	ete this form if you are enrolled in the Health Promotion & Disease Prevention concentration. otion & Disease Prevention Capstone Projects should address at least some of these s. Attach and submit with the Capstone Foundational Competency Form.
am completi	ng this form as part of my:
MPH C Ca Comm	pstone Proposal (To be submitted with proposal to all members of Capstone Advisory Committee and Director of Community Based Education) pstone Progress Report (To be submitted with Progress Report to all members of Capstone Advisory bittee and MPH Director of Community Based Education) and Capstone Requirements (To be submitted with Capstone Essay to MPH Director of Community Education)
My Capstone F	Project will address the following competencies:
	Assess needs for health interventions for the general public as well as at-risk populations
	Systematically evaluate health promotion strategies across typologies of evidence
	Apply system complexity concepts in the context of nested individuals, social networks, organizations, and communities (i.e., systems nested within systems) in the analysis of public health problems and solutions
	Develop health education/health promotion strategies that create an understanding of and respect for the importance of culture in practice and policy.
	Apply social and behavioral theory and planning models and evidence-based health promotion strategies for a variety of populations in the development of a health education/health promotion plan
(Optio	onal) Use the space below (or attach a separate page) for any identified custom competencies.
	To Be Completed by MPH Program:
Date approve	d: Received by:

Concentration-Specific Competencies Form: POPULATION HEALTH RESEARCH

Student Name	e:Date:
Health Resea	ete this form if you are enrolled in the Population Health Research concentration. Population rch Capstone Projects should address at least some of these competencies. Attach and submit
with the Caps	tone Foundational Competency Form.
I am completi	ng this form as part of my:
	pstone Proposal (To be submitted with proposal to all members of Capstone Advisory Committee and Director of Community Based Education)
	pstone Progress Report (To be submitted with Progress Report to all members of Capstone Advisory ittee and MPH Director of Community Based Education)
·	nal Capstone Requirements (To be submitted with Capstone Essay to MPH Director of Community Education)
My Capstone F	Project will address the following competencies:
	Construct a conceptual model and choose an appropriate existing data set, such as electronic health records, Medicare/Medicaid, Medical Expenditure Panel Survey, Health Care Utilization Project, and Health and Retirement Study, to address a population health research question
	Design and perform a study consisting of a retrospective analysis of an existing data set to address a population health research question of interest
	Design efficient computer programs for data management and manipulation, statistical analysis, as well as presentation using R (or another statistical programming language, such as SAS)
	Apply advanced statistical methods for analyzing count data, categorical data and time to event data: specifically, Poisson regression models, multinomial and ordinal logistic regression models, and Cox proportional hazard models
	Perform predictive modeling employing different strategies for model selection (best subsets and shrinkage approaches), imputation of missing values, and splitting data into training and test data sets
(Optio	onal) Use the space below (or attach a separate page) for any identified custom competencies.
Data con co	To Be Completed by MPH Program:
Date approve	d: Received by:

Foundational Competency Assessment Form

To be completed by <u>Capstone Advisory Committee Members</u> with Final Capstone Essay

Student Name:				. Date:		
Evaluator's Name:						
Evaluator's Role: Capstone Committee Chair Capstone Committee Member Other						
DIRECTIONS: Using your professional judgement, please evaluate the student on the following competencies. (<i>Note: not all competencies will necessarily be met by the Capstone, and there is no prescribed list or minimum. We do expect all Capstone Projects to be substantial enough that they meet multiple competencies, both foundational and concentration-specific.</i>) This form must be received before any grade can be issued. Feel free to contact the MPH Office if you need additional guidance. This form consists of three (3) pages. Please be sure to also complete the appropriate Concentration-Specific Competency Assessment Form provided to you by the student.						
Evidence-Based Approaches to Public Health	Approaching Sufficiency	Sufficient	Advanced	Not Applicable to this Capstone		
Apply epidemiological methods to the breadth of settings and situations in public health practice						
Select quantitative and qualitative data collection methods appropriate for a given public health context						
Analyze quantitative and qualitative data using biostatistics, informatics, computerbased programming and software, as appropriate						
Interpret results of data analysis for public health research, policy or practice						
Public Health & Health Care Systems						
Compare the organization, structure and function of health care, public health and regulatory systems across national and international settings						
Discuss the means by which structural bias, social inequities and racism undermine health and create challenges to achieving health equity at organizational, community and societal levels						

Planning & Management to Promote Health	Approaching Sufficiency	Sufficient	Advanced	Not Applicable to this Capstone
Assess population needs, assets and capacities that affect communities' health				
Apply awareness of cultural values and practices to the design or implementation of public health policies or programs				
Design a population-based policy, program, project or intervention				
Explain basic principles and tools of budget and resource management				
Select methods to evaluate public health programs				
Policy in Public Health				
Discuss multiple dimensions of the policy- making process, including the roles of ethics and evidence				
Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes				
Advocate for political, social or economic policies and programs that will improve health in diverse populations				
Evaluate policies for their impact on public health and health equity				
Leadership				
Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making				
Apply negotiation and mediation skills to address organizational or community challenges				

Communication	Approaching Sufficiency	Sufficient	Advanced	Not Applicable to this Capstone	
Select communication strategies for different audiences and sectors					
Communicate audience-appropriate public health content, both in writing and through oral presentation					
Describe the importance of cultural competence in communicating public health content					
Interprofessional Practice					
Perform effectively on interprofessional teams					
Systems Thinking					
Apply systems thinking tools to a public health issue					
Evaluator's Signature: Date:					
Evaluator's Signature:			Da	te:	
To Be Com	pleted by MPH Pi				

Concentration-Specific Competency Assessment Form: GLOBAL HEALTH

To be completed by **Capstone Advisory Committee Members** with Final Capstone Essay Student Name: _____ Date: _____ Evaluator's Name: ______ Evaluator's Role: Capstone Committee Chair Capstone Committee Member | |Other **DIRECTIONS:** Using your professional judgement, please evaluate the student on the following competencies. (Note: not all competencies will necessarily be met by the Capstone, and there is no prescribed list or minimum. We do expect all Capstone Projects to be substantial enough that they meet multiple competencies, both foundational and concentration-specific.) This form must be received before any grade can be issued. Feel free to contact the MPH Office if you need additional guidance. Please be sure to also complete the Foundational Competency Assessment Form, provided to you by the student. Competency **Approaching** Not Applicable Sufficient Advanced Sufficiency to this Capstone Evaluate the relationships and agencies focused on colonial health, tropical medicine, international health and global health in a historical context Prioritize of diseases of global health importance and their epidemiological context Apply methods for strengthening and focusing existing capacities and resources for health program sustainability and enhancement Contrast application of policy or technology to impact priority diseases with addressing the underlying social and economic determinants of global health linked to health care delivery systems Apply the fundamental international principles and standards for the protection of human research subjects in diverse cultural settings (Optional) Use the reverse side (or attach a separate page) for any identified custom competencies.

(Optional) Use the reverse side (or attach a separate page) for any identified custom competencies.

Evaluator's Signature: _______ Date: _______

To Be Completed by MPH Program:

Date approved: _______ Received by:

Concentration-Specific Competency Assessment Form: HEALTH INFORMATICS To be completed by <u>Capstone Advisory Committee Members</u> with Final Capstone Essay

Student Name: _____ Date: _____ Evaluator's Name: ______ Evaluator's Role: Capstone Committee Chair Capstone Committee Member Other **DIRECTIONS:** Using your professional judgement, please evaluate the student on the following competencies. (Note: not all competencies will necessarily be met by the Capstone, and there is no prescribed list or minimum. We do expect all Capstone Projects to be substantial enough that they meet multiple competencies, both foundational and concentration-specific.) This form must be received before any grade can be issued. Feel free to contact the MPH Office if you need additional guidance. Please be sure to also complete the Foundational Competency Assessment Form, provided to you by the student. **Approaching** Not Applicable Competency Sufficient Advanced Sufficiency to this Capstone Understand the fundamentals of using biomedical ontologies for integration of biomedical and health data Differentiate between standard health data exchange formats and vocabularies Explain how clinical data originating from different systems are collected and coded and how they are normalized, aggregated, and analyzed Describe how biomedical terminological systems are used in natural language processing workflow for unstructured biomedical text Describe the ethical, regulatory, managerial, financial, and practical aspects of data security (Optional) Use the reverse side (or attach a separate page) for any identified custom competencies. Evaluator's Signature: _____ Date: _____ Date: To Be Completed by MPH Program: Date approved: _____ Received by: _____

Concentration-Specific Competency Assessment Form: HEALTH POLICY & MANAGEMENT

To be completed by <u>Capstone Advisory Committee Members</u> with Final Capstone Essay

Student Name:			Date	:
Evaluator's Name:				
Evaluator's Role: Capstone Committee Chair Capstone Committee Member Other				
DIRECTIONS: Using your professional judgement, please evaluate the student on the following competencies. (Note: not all competencies will necessarily be met by the Capstone, and there is no prescribed list or minimum. We do expect all Capstone Projects to be substantial enough that they meet multiple competencies, both foundational and concentration-specific.) This form must be received before any grade can be issued. Feel free to contact the MPH Office if you need additional guidance. Please be sure to also complete the Foundational Competency Assessment Form, provided to you by the student.				
Competency	Approaching Sufficiency	Sufficient	Advanced	Not Applicable to this Capstone
Apply the principles of program development, planning, budgeting, resource management, and policy evaluation in organizational or community initiatives				
Describe how policy impacts healthcare delivery and outcomes				
Apply a continuous quality and performance improvement framework to address organizational coordination and performance				
Identify methods for decision making using evidence- based, systems thinking, and data-driven approaches to health policy and management				
Identify how access, quality, and cost are influences by organizational and financial structures				
(Optional) Use the reverse side (or attach a separate page) for any identified custom competencies.				
Evaluator's Signature: Date: Date:				
To Be Completed by MPH Program: Date approved: Received by:				

Concentration-Specific Competency Assessment Form: HEALTH PROMOTION & DISEASE PREVENTION

To be completed by <u>Capstone Advisory Committee Members</u> with Final Capstone Essay

Student Name:			Dat	e:
Evaluator's Name:				
Evaluator's Role: Capstone Committee Chair Capstone Committee Member Other				
DIRECTIONS: Using your professional judgement, please evaluate the student on the following competencies. (Note: not all competencies will necessarily be met by the Capstone, and there is no prescribed list or minimum. We do expect all Capstone Projects to be substantial enough that they meet multiple competencies, both foundational and concentration-specific.) This form must be received before any grade can be issued. Feel free to contact the MPH Office if you need additional guidance. Please be sure to also complete the Foundational Competency Assessment Form, provided to you by the student.				
Competency	Approaching Sufficiency	Sufficient	Advanced	Not Applicable to this Capstone
Assess needs for health interventions for the general public as well as at-risk populations				
Systematically evaluate health promotion strategies across typologies of evidence				
Apply system complexity concepts in the context of nested individuals, social networks, organizations, and communities (i.e., systems nested within systems) in the analysis of public health problems and solutions				
Develop health education/health promotion strategies that create an understanding of and respect for the importance of culture in practice and policy.				
Apply social and behavioral theory and planning models and evidence-based health promotion strategies for a variety of populations in the development of a health education/health promotion plan				
(Optional) Use the reverse side (or attach a separate page) for any identified custom competencies. Evaluator's Signature: Date:				
To Be Completed by MPH Program: Date approved: Received by:				

Concentration-Specific Competency Assessment Form: POPULATION HEALTH RESEARCH

To be completed by **Capstone Advisory Committee Members** with Final Capstone Essay

Student Name: Date:				
Evaluator's Name:				
Evaluator's Role: Capstone Committee Chair Capstone Committee Member Other				
DIRECTIONS: Using your professional judgement, please eva all competencies will necessarily be met by the Capstone, and the Projects to be substantial enough that they meet multiple compform must be received before any grade can be issued. Feel free Please be sure to also complete the Foundational Competen	ere is no prescrib petencies, both pee to contact the	oed list or min foundational MPH Office	nimum. We do and concentr if you need a	o expect all Capstone ation-specific.) This additional guidance.
Competency	Approaching Sufficiency	Sufficient	Advanced	Not Applicable to this Capstone
Construct a conceptual model and choose an appropriate existing data set, such as electronic health records, Medicare/Medicaid, Medical Expenditure Panel Survey, Health Care Utilization Project, and Health and Retirement Study, to address a population health research question				
Design and perform a study consisting of a retrospective analysis of an existing data set to address a population health research question of interest				
Design efficient computer programs for data management and manipulation, statistical analysis, and presentation using R (or another statistical programming language, such as SAS)				
Apply advanced statistical methods for analyzing count data, categorical data and time to event data: specifically, Poisson regression models, multinomial and ordinal logistic regression models, and Cox proportional hazard models				
Perform predictive modeling employing different strategies for model selection (best subsets and shrinkage approaches), imputation of missing values, and splitting data into training and test data sets				
(Optional) Use the reverse side (or attach a se	parate page) for	any identifie	d custom com	petencies.
Evaluator's Signature: Date:				
To Be Completed by MPH Program: Date approved: Received by:				

Capstone Committee Essay Evaluation Form

To be completed by Capstone Advisory Committee Members with competency assessment forms

Student Name: Date:				
Evaluator's Name:				
 Evaluation process: Student is responsible for distributing this evaluation sheet along with essay and competency assessment forms to Capstone Committee members two weeks prior to presentation date Committee members are responsible for collaborating with each other about the quality of the student's product, recommending revisions (if needed) to the student in a timely manner prior to the presentation date, and completing all evaluation forms in a timely manner Committee Chair is responsible for communicating a final grade to MPH Director of Community Based Education MPH Office is responsible for submitting final grade to University Registrar 				
Please evaluate the Capstone Essay on the following:	Inadequate	Adequate	Well Done	Outstanding
Summary Statement: A brief overview of the purpose of the project and what the project addresses				
Objectives: A list or discussion of the objectives and /or research questions addressed by the project				
Background: A detailed literature review describing previous work on the topic. Effort should be made to place the project in theoretical model. Related controversies should be addressed.				
Methods: Design, setting, participants, intervention (if appropriate), and main outcome measures				
Results: The product of the effort put forth in the Capstone project should be articulated in detail in this section				
Discussion: Detailed discussion of the results. Student should place the results in the context of the existing base of knowledge on the topic. Limitations and strengths of the project should be discussed.				
Conclusion: Conclusions <i>supported by evidence</i> should be communicated. Further study or effort implied by the conclusions should be expressed. Equal attention should be given to positive and negative conclusions.				
ESSAY IS OF PROFESSIONAL QUALITY:				
STUDENT HAS SUCCESSFULLY COMPLETED REQUIREMENTS: Yes No				
If "No" or "Inadequate" is selected above, please elaborate on the reverse side (or on additional pages, as needed)				
Evaluator's Signature: Date:				
To Be Completed by MPH Program: Date received: Received by:				

Capstone Presentation Evaluation Form

tudent Name: Date:				
Evaluator's Name:				
Evaluator's Role: Capstone Committee Chair Capstone Committee Member Faculty Student Staff Other				
 Student is responsible for distributing a copy of the Capst prior to presentation so that they may adequately asses Student is responsible for distributing evaluation sheets Committee members are responsible for collaborating presentation and completing presentation evaluation for Committee Chair is responsible for communicating stude MPH Office is responsible for submitting final grade to U 	s the presenta to Committee with each or ms in a timely ent's final grad	.tion. Members pr ther about t manner e to MPH Off	ior to presenta the quality of	ation
Please evaluate the Capstone Presentation on the following:	Inadequate	Adequate	Well Done	Outstanding
Introduction: Were goals, objectives, and methods of project stated clearly? Could audience grasp the scope of the project?				
Knowledge of Material: Is student fluent with material/topic?				
Visual Support: Did visual aids appropriately support the oral presentation (not duplicate it)?				
Results: Was the product of the effort put forth in the Capstone Project articulated, including a detailed discussion of the results in the context of the existing base of knowledge on the topic? Were strengths and limitations of the project discussed?				
Delivery: Was presenter audible and comprehensible?				
Responsiveness: Did presenter respond effectively to questions posed (if any), indicating a firm grasp of the material?				
STUDENT HAS SUCCESSFULLY COMPLETED REQUIREMENTS: Yes No				
If "No" or "Inadequate" is selected above, please elaborate on	the reverse si	de (or on ad	ditional pages	, as needed)
Evaluator's Signature: Date: Date:				
To Be Completed by MPH Program: Date received: Received by:				

Culminating Experience Funding Request Form

Student name:	7-Digit ID:
Project title:	
Amount requested:	
Please briefly describe the expenses you plan to inc	ur:
Please note: expenses are paid on a reimbursement basis. (Excepsee the Research Incentives Policy below for details on procurem receipts for all expenses and submit them to the MPH office for r	
Financial Support for Capstone Projects The MPH program recognizes that the Capstone Experience of materials, etc.). The MPH program provides financial support \$250 per student. Recognizing that international projects entinternational travel are allotted up to \$500. Full details about obtained from the MPH Office.	tail greater expense, Global Health capstones that include
MPH program does not keep gift cards on hand. If students a projects, i.e. capstone projects, students must submit a requessibmitted through a form to be approved by the MPH Director	
Process for Gift Card Procurement	
 Students submit a Gift Card request form indicating The Director of Community-Based Education will re The amount requested will be documented by the A Gift cards will be purchased by the Department Ass Gift cards are secured in the MPH office by the Dire Once the Gift cards are available, the Director of Co All incentives and monetary devices must be accounted for b 	equest the gift cards by notifying the Department Assistant. Administrative Director. istant. ctor of Community- Based Education. mmunity- Based Education will notify the student.
Student signature:	Date:

I have read and understand the policies and procedures described above.