Course Directors

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Course Description

This course is the final, integrative learning experience required for completion of the Master of Public Health in Environmental Health Science and Policy (EHS&P). Upon completing the culminating experience, you will be able to integrate and apply the skills and knowledge, theories, and principles learned in the MPH program to actual public health problems handled in professional environments. For your culminating experience, you will work under faculty supervision to conduct a defined project (the EHS&P Final Project) with measurable outcomes in one of the many areas of environmental or occupational health, making original contributions to that area. Site Preceptors for this course are recruited from among researchers and practitioners at various government and private institutions in the greater Washington area, but may also be in other areas.

The Culminating Experience may build on work you conducted for the EHS&P Practicum (PubH 6014.12), if you wish and an appropriate opportunity is available. (Note that, even if your Final Project is related to your Practicum, your Site Preceptor is not necessarily the same for both activities.)

All EOH Final Projects must involve:

• A topic in the area of environmental and occupational health,
• Demonstration of your quantitative capability, and
• Relevance to at least one of the three other core areas of public health (epidemiology, social and behavioral sciences, or health policy and management).

Please see Attachment A for a list of recently completed projects.

The culminating experience involves a minimum of 120 hours of work, and typically takes about 11 months from project conceptualization to completion. Thus, most students spread the project out over most of their final year. Occasionally, projects can be completed more intensely with excellent planning, consistent effort, and ready access to data.

Most students wait to register for PubH 6015 until the semester they plan to complete their project. Once you have registered once for PubH 6015 you do not need to register again, though you may need to register for continuous enrollment or continuous research. Remember that you must stay in registered status with the University in every fall and spring semester until you complete your degree (and also during the summer session only if you are completing your project in the summer). Please see your advisor if you have questions about how to stay in registered status.

Course Prerequisite(s)

To be eligible to register for this course, you must have successfully completed:

• All MPH core courses
• At least 9 credits of EOH program-specific courses
• CITI training for human subjects protection in research (also required as a pre-requisite for Practicum)
Program and Course Competencies

Upon completion of the MPH program in EHS&P, the student will be able to:

1. Assess environmental and occupational exposures.
2. Prevent and control environmental and occupational hazards.
3. Identify the adverse effects of chemical, biological, and physical exposures on human health.
4. Interpret epidemiologic and other research findings related to environmental risks, and assist in designing and conducting research.
5. Engage in public health communication and risk communication activities.
6. Identify ethical issues in environmental health policy and practice.
7. Synthesize relevant information in order to analyze EOH policy implications and participate in policy development.
8. Synthesize relevant information in order to assess and manage environmental and occupational risks.

Competencies 1-6 are linked to course work throughout the EOH MPH program and are applicable to the EOH Practicum.

Competencies 7 and 8 are linked to PubH 6122 and 6124, other relevant coursework, and the EOH Culminating Experience. Your activities for this course must clearly demonstrate your abilities to conduct work relevant to Program Competencies #7 and/or 8, above.

Methods of Evaluation

There are three important academic requirements for completion of your Final Project: the Project Proposal, the Final Report, and the Oral Presentation. Evaluation domains to be considered in assessing the quality of your work on these three deliverables include:

- **Public Health Context** – your understanding of the final project topic and the target population for the project.
- **Research and Program Skills** – your performance in conceptualizing the questions, planning the project, selecting and applying appropriate methods or instruments to achieve project objectives, and analyzing information and interpreting results.
- **Communication Skills** – your skills at general oral communication, basic computer literacy (email, word processing, etc.), writing, visual presentation of data and information, and oral presentation.
- **Professional Characteristics** – your reliability, professional maturity/judgment, initiative, ability to seek advice appropriately, response to feedback/ability to accept criticism, ability to work independently, organizational skills; and, ability to meet deadlines.

Your grade will be based on the evaluations by your Faculty Advisor and Site Preceptor (if applicable), with input from the EOH faculty who attend the Oral Presentation.

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<th>Percent of Grade</th>
<th>When There is No Site Preceptor</th>
<th>When There is a Site Preceptor</th>
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<tr>
<td>Final Paper/Report</td>
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<td>40%</td>
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<tr>
<td>Final Oral Presentation</td>
<td>25%</td>
<td>25%</td>
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<tr>
<td>Site Preceptor’s Evaluation</td>
<td>NA</td>
<td>10%</td>
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Student Responsibilities, and Keeping on Track with Your Final Project

Professional behavior is expected at all times during the course of the EOH Culminating Experience.

You are expected to plan and manage your work time, and to take the initiative for arranging consultations with your Faculty Advisor and Site Preceptor, as needed and appropriate to conduct the project.
You will define your own deadlines for work products in your Project Proposal, which is approved by both the Faculty Advisor and the Site Preceptor for the Culminating Experience. You are expected to meet these deadlines, unless otherwise modified with the permission of both the Faculty Advisor and Site Preceptor.

It is common for students to encounter intellectual, logistical, motivational, and time constraint challenges while engaged in the Final Project. Your Final Project Advisor and Preceptor will be helpful when you encounter such challenges; please don’t hesitate to consult them. However, it can also be helpful to have a support group when you get “stuck.” Three times per semester, the course directors will hold a meeting with all departmental MPH students in the Final Project stage. We believe these meetings will be very helpful and motivational to you in keeping on track with your Final Project. You are required to attend at least one of these meetings each semester until you complete your project.

The EOH department sets presentation dates for students completing their culminating projects in the Fall, Spring, and Summer semesters. These dates are set well in advance so that you can plan to have your work completed in time to be cleared for presentation.

Commencement guidance for students planning to complete Final Projects in July/August: GW's annual Commencement Ceremonies take place in May. The University’s walk-through policy states that master’s students who have a reasonable expectation that they will complete their degree requirements during the following summer semester (and who need no more than 9 credit hours to complete their degree) may participate in the spring Commencement Ceremony. February 1st is the deadline for applying to participate in Commencement. To REALISTICALLY expect that you will complete your Final Project by the end of August/summer semester, your project proposal should be very close to final by February 1st at the latest (earlier is better). If you are behind this timeline, you should plan on being a fall graduate rather than a summer graduate, and you should plan to participate in the following year’s Commencement Ceremony.

Academic Integrity

You must comply with the University’s Code of Academic Integrity while completing your project. Please review the University’s policy on academic integrity, located at www.gwu.edu/~ntegrity/code.html All graded work must be completed in accordance with The George Washington University Code of Academic Integrity. Academic dishonesty is defined as cheating of any kind, including misrepresenting one’s own work, taking credit for the work of others without crediting them and without appropriate authorization, and the fabrication of information. Common examples of academically dishonest behavior include, but are not limited to, the following: Cheating; Fabrication; Plagiarism; Falsification and forgery of University academic documents; Facilitating academic dishonesty.

Students with Disabilities

If you feel you may need an accommodation based on the impact of a disability, please contact your Faculty Advisor or Course Instructor privately to discuss specific needs. Please contact the Disability Support Services Office at 202-994-8250, Rome Hall, Suite 102, http://gwired.gwu.edu/dss, to establish eligibility and to coordinate reasonable accommodations.

GUIDELINES FOR THE EHS&P MPH STUDENT

This section describes the program and procedures that you must follow to plan, conduct, and complete your EHS&P culminating experience, also known as your Final Project.

PERSONNEL

Course Faculty. You will interact primarily with 2-3 individuals in the course of conducting your EOH Final Project. They are the Course Director, your Faculty Advisor for your project, and your Site Preceptor (if applicable). (Note that your Faculty Advisor for your project is not necessarily your faculty academic advisor.)
Dr. Perry and Dr. Zota are the Course Directors. They will be your **first contact** in beginning the process. They will provide you with initial guidance about the process and possible topics when you need to start thinking about your culminating experience. They will assist you in identifying an appropriate Site Preceptor, and match you with an appropriate Faculty Advisor from the EOH department’s full time or part time faculty. Drs. Perry and Zota also handle course-related administrative aspects of EOH students’ projects, and maintains a file of all related Proposals and all completed Project Reports.

You will work with your Faculty Advisor to define and carry out your project. Occasionally, students will work on projects done directly under the supervision of the Advisor, without the involvement of an outside Site Preceptor.

In many cases, the Course Director or your Faculty Advisor will assist you in making contact with a Site Preceptor. Site Preceptors may be from a government agency, or a private institution such as an association, a consulting firm or a union, or may be GWU faculty or staff outside of EOH. These preceptors must hold a terminal public health or closely related graduate degree. In the case of "outside" projects, the Site Preceptor is the person with whom you will work most closely as you pursue your project.

Once you have a project concept, you will work with the Site Preceptor and your Faculty Advisor to further develop it into your Final Project. The Site Preceptor and the Faculty Advisor both provide ongoing project context and supervision, and guide you to stay on track in the context of course and project goals and requirements.

**PROCESS AND REQUIREMENTS**

1. **Developing a Topic**

About 12 months before your anticipated graduation date, meet with Dr. Perry or Dr. Zota for orientation to the Final Project. At least once per semester, they will hold a group orientation meeting with students entering the Final Project stage. At this meeting, we will discuss the Final Project process and requirements, as well as your interests, needs and ideas as they pertain to the project. Students typically find themselves in one of these three situations. No matter which of these scenarios describes you, you **must** consult Dr. Perry or Dr. Zota before you proceed with any topic.

- You have already identified a topic, a possible research question, and a potential preceptor (if relevant). You need to further hone these, make sure they meet program requirements, and be matched to a Faculty Advisor.

- You have already identified an organization/preceptor you would like to work with. You need to explore, evaluate, and/or develop potential research topics/questions and be matched to a Faculty Advisor.

- You don’t have specific ideas for a project or preceptor, and you need help identifying a project topic, research question, and preceptor. To start, Dr. Perry and Dr. Zota will ask you to identify no more than 3 areas of EOH that interest you most, consider the skills you would like to reinforce through your project, and think about the type of setting you would most like to focus on. Often, if another EOH faculty member has expertise or contacts in your area of interest, Drs. Perry/Zota will match you at the concept stage to this individual as your Faculty Advisor for help in defining a project that best suits your interests and needs.

The next steps will vary depending upon how developed your ideas are at the time of your orientation meeting with Dr. Perry/Dr. Zota. However, these are the general steps:

- If you will be conducting an offsite project, contact your **Site Preceptor** to introduce yourself and to clarify the topic and scope of the project. Be sure that you understand the preceptor’s vision of the project, specific work to be completed and expected time frame for the final product(s). Sometimes, Dr. Perry, Dr. Zota, or your Faculty Advisor will sit in on this meeting or phone conference to help provide guidance.
• After agreeing on the goal and focus of your project, develop and submit a brief concept proposal (2-3 paragraphs) identifying your data sources and your research question and approach. On the basis of this concept proposal, Dr. Perry/Dr. Zota will match you with an EOH Faculty Advisor (if you don’t already have one).

• Make sure you are willing to devote a minimum of 120 hours to your project. Discuss your time frame with your Site Preceptor and Faculty Advisor to make sure it is reasonable.

• Once you have worked with your Site Preceptor and Faculty Advisor to develop consensus on your project focus, activities, and timeline, you are ready to write your proposal.

2. Writing your Proposal

With input from your Faculty Advisor and Site Preceptor, develop a plan and write a clear, concise proposal for your project. The Project Proposal is the 6-10 page (double-spaced) protocol that you write to describe your plans for what your Project will be, how you will accomplish your plans, and why your project is important. Follow this outline in writing your Project Proposal:

• Fill out the Proposal coversheet (Attachment B), and attach the sheet to your proposal.

• Background (approximately 2-4 pages): Briefly summarize background information relevant to your project. What has other work in this area shown? What makes your project important? The EOH faculty expect you to be familiar with existing information before you attempt to develop new information through your project. Your background section should concisely reflect this familiarity and should be referenced (see below).

• Goal/Specific Aims (about 1/3 page): Describe the broad goal of your project, then list specific aims that you will complete to accomplish your overall goal. A typical proposal will have 3-5 aims; these should be SMART: Specific (one outcome only per aim), Measurable, Achievable, Rational, and Tangible. Anyone reading your final report should be able to tell quickly whether you met each and every one of your aims.

• Methods (approximately 3-4 pages): Describe the methods you will use to conduct your project. These should (as relevant) describe your study population, methods for obtaining data, methods for defining variables, methods for analyzing data, methods for developing and evaluating programs, and other relevant procedures such as human subjects protections. The contents of the methods section will vary depending on the type of project being described.

• Strengths and Limitations (approximately ½ to 1 page): Briefly identify the strengths and limitations of the methods you plan to use.

• Timetable: Create a timetable for your project. Describe 2-3 important interim objectives/deliverables of your project, and when you intend to accomplish them. Also, list the dates when you intend to submit your first draft report (at least 6 weeks before your oral presentation), your final report (2 weeks before your presentation) and the month you intend to make your oral presentation.

• References: List all references used in your background section or other parts of your proposal. To demonstrate familiarity with the literature on your topic, we expect you to provide a minimum of 12-15 references. Use a standard reference style (e.g., American Journal of Public Health or the American Journal of Industrial Medicine). See Himmelfarb’s “Grammar and style” page in the “Internet Resources” page. Go to http://www.gwumc.edu/library/eresources/inetres.cfm and click on “Grammar & Style Guides.”

• Attachments: Attachments that may apply to your project include: an IRB letter of approval from a non-GWU IRB (e.g., if you are using an existing database), draft questionnaire or other data collection instrument submitted to the GWU IRB.
Once you have drafted your Proposal, submit it to your Faculty Advisor and your Site Preceptor for comments, revision, and their final approval. Your Faculty Advisor will review your Proposal to make certain that: (a) your project is acceptable and meets the guidelines for an EHS&P Project; (b) you have a clear idea about what you will be doing for your Project; and (c) your timetable is reasonable. Be aware that typically 2-4 drafts are needed.

When your Faculty Advisor and Site Preceptor have approved your proposal and signed and dated your cover sheet, provide a final copy to each of them and the signed and dated original to Dr. Perry or Dr. Zota before you begin conducting your project.

3. The Institutional Review Board (IRB)

When you are developing your project with your Advisor, be sure you understand the IRB’s policies. See the Office of Human Research (OHR) website: http://www.gwumc.edu/research/human.

If you have questions about whether your project requires IRB review, click on “Decision Charts” under “IRB Submission” and then the Human Subjects Determination Worksheet to assess whether your study is human subject research and needs IRB review. Any further questions or concerns should be directed to the OHR staff at ohrirb@gwu.edu or (202) 994-2715.

To complete your IRB package, you must also determine whether your project involves any Protected Human Information (PHI) or Limited Data. (From the OHR website, click on HIPAA Forms, and then on the HIPAA Worksheet) Also, note that the IRB may ask you to state whether any Covered Entity (CE) is involved in your Project. Select the other forms appropriate to your project, fill out forms as directed, and ask your Advisor to review your IRB package.

If your project must be reviewed by the IRB, your Faculty Advisor has to sign your package as the Principal Investigator. Once you have your Advisor’s signature, you then submit the IRB package to Dr. Melissa Zota, EOH departmental chair, for her review and signature before you submit your package to the IRB staff (2030 M Street NW, Suite 301).

Many students get at least one question from IRB staff about their submission, so be sure you regularly check your GW e-mail and phone in the first few weeks after your submission. Your package is not considered complete until all IRB staff questions have been addressed. Reviews may take one or many weeks depending on the issues encountered; however, contact the IRB office if you have not received a response two weeks after you submit your materials.

4. Conducting the Project

AFTER you have received signoff on your proposal, as well as IRB approval (when applicable), you may begin work on your project.

Stay in active communication with your Advisor and Preceptor and continue to meet the deadlines that you have set with them. At least once a month (if not more often), let them know of your progress and make sure that they are in agreement with what you are doing. If you experience unexpected delays or problems, promptly seek advice from your Preceptor and/or Advisor about how to resolve them.

5. Preparing the Final Report

The Final Report is your written report that summarizes the activities you completed and the results of your project. Reports vary widely in length, but most are 20-30 double-spaced pages, not including tables, figures and appendices. Your report length should be adequate to describe the topic and your work but should not be excessive in length. Generally, the outline should be that of a published research paper. Students who plan to publish their project may write their final report following the format of the peer-reviewed journal to which they plan to submit their manuscript.
Toward the end of the work on your project, draft an outline for your final report and share it with your Advisor and Preceptor for their review and comments. When you have agreed on the approach to take, begin writing the report. Your report should include these elements:

- **Title Page:** See Attachment C for the template
- **Abstract:** No more than 250 words. It is helpful to use these sub-headings: Background; Methods; Results; Discussion. (Or use the headings specified by the journal you wish to submit to.)
- **Background:** Include a literature review (expanded from the Proposal), and the project goal and objectives. If applicable, include a sentence that states that the University’s IRB approved the project, state the project number, and confirm that no research was begun until after you received the IRB’s approval.
- **Methods:** Describe the approaches you used to gather, analyze and evaluate the evidence.
- **Results:** Describe your results. Use tables and graphics as appropriate.
- **Discussion:** Discuss how your results compare to other work on the subject, and highlight what you believe to be important about the work you have done. Also, discuss the strengths and weaknesses of your study. Finally, state your conclusions and/or recommendations.
- **References:** Expand your literature review, based on relevant findings from your project.
- **Tables (if any – you may incorporate these into the text, or place them after the text)**
- **Figures (if any – you may incorporate these into the text, or place them after the text)**
- **Appendices (if any):** These may include detailed project documentation such as the IRB’s approval letter, and as applicable your questionnaire, abstracting form, coding manual, detailed formulas, etc.

Provide your first complete draft to your Preceptor and Advisor at least **6 weeks before you plan to give your oral presentation.** You will need at least a month to interact with your advisors, get their reviews and comments, make edits, generate the final text and graphics, etc. Your draft is not considered final until your Faculty Advisor and Preceptor have approved it and directed you to prepare the final copies. Students typically write 3-5 drafts before a final version is approved.

A professional-looking final product with high quality or color graphics is expected. Please double space your text and print double-sided if possible. Your finished report should be submitted in a clear plastic cover. Use the title page format shown in Attachment C (include the IRB approval number) and a table of contents. In many cases it is also appropriate to have a page of acknowledgements to recognize the support you received from your Advisor, Preceptor, the Preceptor’s coworkers, or others who gave you substantive support. Once the document has been approved, make **2-3 copies** – one each for your Site Preceptor (if you have one), your Faculty Advisor for the project, and the EOH Course Director for our department’s official files (please also submit an electronic version of this document to the EOH Course Director). **You must submit your final copies on or before the day of your oral presentation.**

6. **The Oral Presentation**

When your Advisor is confident that you have completed your work satisfactorily and will be ready, s/he will clear you for presentation. You should be cleared to present 10 days prior to your scheduled presentation date. GWU faculty and students are invited to attend your presentation, but presentations are open to others as well. Be sure to invite your Site Preceptor, other people who assisted you, and others who may be affected by your work.

Two weeks before your presentation, begin putting together your talking points and visual aids. Be prepared 1) to describe your project to an audience that may include people who are unfamiliar with your work, and 2) to answer questions about your project. Your 20-minute presentation should outline the background and significance of your project (<5 minutes), your methods, including IRB approval number (about 5 minutes), results (5-6 minutes), discussion and conclusions (about 5 minutes).

When preparing your presentation, think carefully about the most important aspects of your project. How will you get these points across to an audience in 20 minutes? You won’t have time to describe *everything* you did and found, so focus on the key points. Develop a PowerPoint presentation and/or other key visuals; this may be supplemented by handout(s) at your discretion. Get feedback on your draft presentation from your Faculty Advisor (and your Site Preceptor as appropriate.) Plan and practice your talk to be **20 minutes** in length.
On the day of your presentation, bring your presentation on a thumb drive. (It’s a good idea to also email a copy to your faculty advisor, as a backup.) Arrive 15-30 minutes early to make sure your presentation loads correctly and to get comfortable in the EOH conference room. Your Faculty Advisor will introduce you to the audience. Please stand for your presentation. During your presentation, introduce your Site Preceptor (if present) and acknowledge his/her support. Your 20-minute presentation will be followed by a 10 minute question and answer period.

7. Closing Out a Project

Lastly, if your project required IRB review, you MUST comply with the closeout and data storage requirements of the IRB governing your project. Be sure you understand and meet these requirements BEFORE you leave campus.

ANNUAL AWARD

Each spring, the EOH faculty has the opportunity to make an award to the student who completed the best EHS&P Project within the prior 12 months. This student who is honored with this award will be listed in the SPHHS graduation program. The following criteria guide the EOH faculty in determining who will be chosen to receive the award.

The Excellence in EHS&P Culminating Experience Award will be given on the basis of the student’s abilities to:
- Solve problems effectively as they arise
- State clearly the project focus, purpose and objectives
- Integrate and apply relevant knowledge from diverse sources
- Analyze information and data at the depth and complexity appropriate to the data collected
- Interpret the results appropriately (e.g., relevance to stated purpose and objectives)
- Prepare conclusions firmly based on the results and related to the stated purpose
- Identify effective public health actions and/or policy implications (including legal, political, and economic considerations) based on the findings
- Prepare and present clear and effective final products (final report, oral presentation)
- Prepare effective, clear, and imaginative data displays
- Perform consistently in a professional manner (e.g., self-motivation, initiative, independent thinking skills, communication skills, time management skills)

Additional merit will be awarded for projects that:
- Make a significant or new contribution to a current environmental or occupational health problem or issue
- Require advanced study design solutions
- Involve difficult technical and/or practical issues
- Require advanced data analysis

As you can see, the EOH faculty is looking for the student who not only conducts a high-quality project, but who also conducts her/himself in an outstanding, professional manner. Students often encounter unexpected challenges and issues as they conduct their projects, so the faculty hopes these criteria will also help inspire and motivate you even when “the going gets tough.”

We look forward to working with you and assisting you in the final stage of completing your MPH!

If you have any questions about the culminating experience, please contact Dr. Perry at Perry@gwu.edu or Dr. Zota at azota@gwu.edu.
## STUDENT’S CHECKLIST

### FOR THE EOH FINAL PROJECT

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<th>Date</th>
<th>Completed</th>
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**Early in your program (e.g., first semester)**

- **Complete the human subject research training requirements (see the training section).**

**11 to 12 months before your anticipated graduation date:**

- **Complete the human subject research training requirements (see the training section).**
- **Meet with Dr. Perry/Dr. Zota to begin the process.**
- **(If already assigned) Meet with your Faculty Advisor to further develop your topic and expectations.**
- **(If applicable) Meet with your Site Preceptor to plan your project.**
- **Submit 2-3 paragraph Concept Paper**

**7 to 10 months before your anticipated graduation date:**

- **Draft your Project Proposal**
- **Get your Advisor's and Preceptor's comments on the draft. (Repeat as necessary!)**
- **Get your Preceptor's approval and signature on the Proposal coversheet.**
- **Get your Advisor’s approval and signature on the Proposal coversheet.**
- **Submit the final, signed proposal to Dr. Perry/Dr. Zota.**
- **Provide copies of the signed Proposal to your Advisor and Preceptor.**
- **If applicable, prepare the materials required for IRB review.**
- **Obtain IRB approval BEFORE you begin your project.**

**6 months before your anticipated graduation date:**

- **Begin working on your project!**
- **Report progress to both your Preceptor and your Advisor on a regular basis (e.g., once a month)**
- **Provide your Final Report outline to your Advisor and Preceptor and get their input.**

**6 to 8 weeks before you plan to make your oral presentation:**

- **Submit the first draft of your Final Report to your Advisor and Preceptor.**
- **Complete revisions needed. (Repeat as necessary!)**
- **Obtain approval from your Preceptor on your final draft**
- **Obtain approval from your Advisor on your final draft**
- **Prepare 2-3 copies (as appropriate) of your Final Report with the required cover and title page.**

At least 2 weeks before your presentation:

- **Begin preparing your oral presentation.**
- **Obtain the date, time and place of your presentation from your Advisor.**
- **Invite your Preceptor and others to your presentation.**
- **Get feedback on your draft presentation from your Advisor.**
- **Practice your presentation and make sure you can complete it in 20 minutes.**

**End of your program:**

- **Submit your Final Report to your Preceptor, Advisor, and Dr. Perry/Dr. Zota.**
- **Make your oral presentation.**
- **If applicable, store all records as required by the IRB. Close out your project with the IRB.**

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**CONGRATULATIONS!** Enjoy the satisfaction of reaching your goal!
ATTACHMENT A

Titles of Recently Completed EHS&P Final Projects

2013
Advice to the Government: An Exploratory Analysis on the Function & Efficiency of Federal Advisory Committees
Smoky Coal and Smokiness in Kitchens Increase Lung Cancer Risk
Policy Analysis for Mandated Waster Diversion at Outdoor Events in Washington, DC
A Descriptive Analysis of Environmental Management Systems Using Data Supplied by the IRS
Implementing Waste Diversion Infrastructure at Public Events in Washington, DC.: A Pilot Study
Spatial Analysis of Fine Particulate Matter and Ozone in Washington, D.C. and Associated Excess Burden of Cardiovascular Disease
Analyzing Trends to Water Supply and Sanitation in Large Sub-Saharan African Cities: An Exploratory Study of What Drives Progress
Integration of WASH Interventions into HIV/AIDS Programs in Sub-Saharan Africa - Who is Successfully Integrating WASH Interventions into HIV/AIDS Programs?
Ending Open Defecation in Rural Tanzania: Which Factors Facilitate Latrine Adoption?
Concordance of Non-Carcinogenic Endpoints Across Species
Environmental Exposures to Non-Persistent Pesticides and Sex Chromosome Disomy in Human Sperm
Childhood Lead Levels in Fairfax County, VA
Self-Reported Psychological Stress and Prevalence of Methicillin-resistant Staphylococcus Aureus (MRSA) among Beef Meatpacking Workers in Nebraska

2012
Dog Park Visits as a Risk Factor for Transmitting E. Coli
Water collection in rural Sub-Saharan Africa: Do increases in access to protected sources lead to a decrease in water collection times? A study of 19 Sub-Saharan African countries
An Electromagnetic Field Survey of Amtrak's Ivy City Facility Shop
Do Socio-Demographic Factors Modify the Relationship between Work Type and Leisure-Time Physical Activity?
Environmental Factors Associated with Atrazine in Shenandoah River Tributaries
Exploring Changes in Open Defecation Rates in Sub-Saharan Africa based on National Level Indices
A Descriptive Analysis of Metal/Nonmetal Miners with Reported Hearing Loss, 1999 to 2010
Heat Exposure Assessment of Utility Plant Workers at the National Institutes of Health
Anacostia River: Advisory Effectiveness and Subsistence Fishing - A Study to Analyze and Assess Subsistence Fishing of the Anacostia River
Childhood Exposure to PAH Contaminated Soil on a Formerly Used Defense Site: Cancer and Non-Cancer Risk Assessment
Roughed Up on the Road: Perceptions of Violence among New York City Taxi Drivers
Federal Worker Commuter Choices and Implications for Public Health: a Case Study of Greenhouse Gas Emissions from Federal Employee Commutes
Indoor Air Quality and Asthma: Understanding the Environmental Factors Affecting Children's Health through the Perspective of School Nurses

A Comparison of the Burden of Foodborne and Waterborne Diseases in Four World Regions Using Informal Reporting Methods, 2009-2010

Solar Power Capacity on GWU Foggy Bottom Campus Rooftops

Predicting Health Impacts of Electricity Production: A Comparison of Models

2011

Children and Pesticides in Washington DC: Regulation, Education and Communication

Breewood Neighborhood Storm Water Runoff Characterization and Sensitivity Analysis

Assessing Patterns of Disability among Sheet Metal Workers

Ozone Concentrations and EMS Calls in the City of Alexandria, VA

Assessing Noise Exposure in Locomotive Engineers

A Comparison of the Benchmark Dose between Acute and Chronic Toxicological Studies

Fatal Crashes Among Commercial Motor Vehicle Drivers Licensed in Self-Certification & Medical Certification States

Bedbug, Mice, and Rat Complaints and Pesticide Use among Washington DC Residents by Ward

Work-Related Injuries: A Look at Performance of Duty Illnesses/Injuries for Firefighters and EMS Workers

State Health Agency Workforce Shortages and Implications for Public Health: A case study of restaurant Inspections in Louisiana
ATTACHMENT B
PROJECT PROPOSAL COVER SHEET

Student Name ____________________________________________

E-mail address: _________________________________________ Telephone: ____________________________

Title of Project __________________________________________

_____________________________________________________

Faculty Advisor’s Signature and Date ________________________

If there is a Site Preceptor:

Preceptor’s Signature and Date _____________________________

Preceptor’s Name and Degrees ______________________________

Preceptor’s Job Title ______________________________________

Preceptor’s Organization & Address __________________________

_____________________________________________________

Preceptor’s Phone Number ___________________________ E-mail _____________________________

Timetable -- Estimated Dates for:

◆ Determining IRB requirements _____________________________

◆ Starting Project _______________________________________

◆ Meeting Interim Objectives (list) __________________________

_____________________________________________________

◆ Completing First Draft _________________________________

◆ Making Oral Presentation _______________________________
ATTACHMENT C
Format for the Final Paper Title Page

TITLE

DATE

[If applicable]
Protocol Approved by
The George Washington University Institutional Review Board
IRB # XXXX

Submitted by

YOUR NAME

In Partial Fulfillment of the Requirements
For the Master of Public Health Degree
from
The George Washington University
School of Public Health and Health Services
Department of Environmental and Occupational Health