COURSE DESCRIPTION

SPPH 566: Occupational Hygiene Practice, Fall 2014

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Classes: Monday and Thursday 1:00 – 2:30 LPC 325 (+ much more time and many other places).

Objectives: The purpose of this course is to provide an opportunity for students to apply hygiene concepts in a real work site. Students will work in teams. Upon completion of this course the student will be able to conduct a walk-through evaluation of a work site, determine which elements of a site require evaluation, develop a sampling strategy, prepare a sampling budget, perform evaluations including laboratory analyses, interpret the results, recommend and budget control measures, deliver written and oral reports to work-site representatives and comfortably interact with labour, management, and professionals in a variety of fields.

Course Format: The course will include meetings, field surveys, laboratory analyses, and consultations with management, labour, and health and safety professionals.

Evaluation: The mark for this class will be pass/fail. Evaluation will be based on each student’s contribution to the team, the team presentations to the work site health and safety committee and to UBC faculty, and the final written report by the team.

Work Site TBD

Site contact: TBD
### SPPH 566 – TENTATIVE SCHEDULE:

<table>
<thead>
<tr>
<th>Week #</th>
<th>Date</th>
<th>Location</th>
<th>Content</th>
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</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>Thursday, Sept 4</td>
<td>UBC</td>
<td>- Introduction to course; prep for initial site visit</td>
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<td></td>
<td>TBD</td>
<td>Field</td>
<td>- 2-4pm Walk-through site survey and meeting with work-site HSE personnel</td>
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<tr>
<td>Week 2</td>
<td>Tuesday, Sept 9</td>
<td>UBC</td>
<td>- Process description; review of potential hazards. Initial selection of hazards to assess; further information required</td>
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<td></td>
<td>Thursday, Sept 11</td>
<td>UBC</td>
<td>- Measurement method investigation; selection of hazards to assess &amp; definition of work teams</td>
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<td>Week 3</td>
<td>Tuesday, Sept 16</td>
<td>UBC</td>
<td>- Sampling strategy development; Data form design; Sampling (mock) budget preparation</td>
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<tr>
<td></td>
<td>Thursday, Sept 18</td>
<td>Field</td>
<td>- Follow-up site visit and discussion with site HSE personnel</td>
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<tr>
<td>Week 4</td>
<td>Tuesday, Sept 23</td>
<td>UBC</td>
<td>- Presentation of sampling strategy - UBC faculty</td>
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<td></td>
<td>Thursday, Sept 25</td>
<td>Field</td>
<td>- Presentation of sampling strategy - worksite HSE personnel</td>
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<td>Week 5</td>
<td>Tuesday, Sept 30</td>
<td>UBC Lab</td>
<td>- Choice of sampling equipment, learn set up and downloading</td>
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<td>Thursday, Oct 2</td>
<td>Field/Lab</td>
<td>- Sampling/Analysis (scheduling TBD)</td>
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<td>Week 6</td>
<td>Tuesday, Oct 7</td>
<td>Field /Lab</td>
<td>- Sampling/Analysis (scheduling TBD)</td>
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<td></td>
<td>Thursday, Oct 9</td>
<td>Field /Lab</td>
<td>- Sampling/Analysis (scheduling TBD)</td>
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<tr>
<td>Week 7</td>
<td>Tuesday, Oct 14</td>
<td>Field /Lab</td>
<td>- Sampling/Analysis (scheduling TBD)</td>
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<td></td>
<td>Thursday, Oct 16</td>
<td>Field /Lab</td>
<td>- Sampling/Analysis (scheduling TBD)</td>
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<tr>
<td>Week 8</td>
<td>Tuesday, Oct 21</td>
<td>Field /Lab</td>
<td>- Sampling/Analysis (scheduling TBD)</td>
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<td>Thursday, Oct 23</td>
<td>UBC</td>
<td>- Evaluation of results against exposure standards and health outcome data from the scientific literature; final report</td>
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<td>Week 9</td>
<td>Tuesday, Oct 28</td>
<td>UBC</td>
<td>- Evaluation of results; limitations of measurement data</td>
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<td>Thursday, Oct 30</td>
<td>UBC</td>
<td>- Controls brainstorming; final report</td>
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<td>Week 10</td>
<td>Tuesday, Nov 4</td>
<td>UBC</td>
<td>- Controls critique; final report</td>
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<tr>
<td></td>
<td>Thursday, Nov 6</td>
<td>UBC</td>
<td>- Controls critique; final report</td>
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<tr>
<td>Week 11</td>
<td>Tuesday, Nov 11</td>
<td>Field</td>
<td>- Stat Holiday</td>
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<td></td>
<td>Thursday, Nov 13</td>
<td>Field</td>
<td>- Controls critique, budget and feasibility evaluation at worksite</td>
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<td>Week 12</td>
<td>Tuesday, Nov 18</td>
<td>UBC</td>
<td>- Final report to UBC Faculty</td>
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<td>Thursday, Nov 20</td>
<td>UBC</td>
<td>- Revisions, discussion of report</td>
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<td>Week 13</td>
<td>Tuesday, Nov 25</td>
<td>Field</td>
<td>- Final report to work site HSE personnel</td>
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<td></td>
<td>Thursday, Nov 27</td>
<td>UBC</td>
<td>- Feedback</td>
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Some considerations, advice and responsibilities:

Chair
• start meeting on time
• record important discussion points on board
• ensure full participation of all class members in decision-making
• ensure decisions are made
• make sure entire agenda covered
• set agenda for next meeting

Secretary
• record information from blackboard
• record important decisions
• record duties/action items for next meeting, and indicate who is responsible (ACTION ITEMS)
• write above in minutes, copy for us (send by e-mail) and binder, by the end of day
• record agenda for following meeting, to be handed out at end of meeting (distribute by email)

Everyone
• importance of making decisions quickly – develop a "consulting firm" mentality
• do not repeat old ground in meetings (chair to enforce this)
• limit the number of hazards selected for evaluation
• difficult to change groups after beginning of course
• everyone must attend meetings and field visits
• ensure participation in class
• work as a team - important for future career
• work with Lab Manager to complete plan for equipment and supplies, laboratory
• scheduling requirements
• have tracking plan for equipment, supplies and samples
• stick to the schedule as closely as possible; take due dates seriously!
• begin working on final report as soon as sampling plan is set
Joint Industrial Hygiene Associations

Member Ethical Principles
The AIHA, ACGIH and AIH (IH Professional Associations) are nonprofit voluntary professional membership associations dedicated to the advancement of the field of industrial hygiene, and the protection of health and safety. Therefore, the IH Professional Associations support quality professional standards and practices, and expect members to meet such standards. In support of these important purposes, the IH Professional Associations promote ethical professional practices and strongly encourage members to understand ethical responsibilities. As a matter of professional competence and public confidence, members are expected to conduct themselves consistent with applicable ethics standards, including those of the American Board of Industrial Hygiene (ABIH).

Accordingly, the IH Professional Associations have adopted the following member ethical principles in order to guide the members, support the profession, and protect health and safety.

I. Responsibilities to the Professional Organizations, the Profession and the Public:
A. In order to satisfy organizational and legal policies and rules, members should:
   • Comply with laws, regulations, policies, and ethical standards governing professional practice of industrial hygiene and related activities, including those of professional associations and credentialing organizations.
   • Provide accurate and truthful information to professional associations and credentialing organizations.
   • Cooperate with professional associations and credentialing organizations concerning ethics matters and the collection of information related to an ethics matter.
   • Report apparent violations of applicable professional organizations’ ethical standards to appropriate organizations and agencies upon a reasonable and clear factual basis.
   • Refrain from any public behavior that is clearly in violation of accepted professional, ethical or legal standards.
   • Promote equal opportunity and diversity in professional activities.
   • Support and disseminate the association’s ethics principles to other professionals.

II. Responsibilities to Clients, Employers, Employees and the Public.
A. In order to provide ethical professional services, members should:
   • Deliver competent services in a timely manner, and with objective and independent professional judgment in decision-making.
   • Recognize the limitations of one’s professional ability, and provide services only when qualified.
   • The member is responsible for determining the limits of his/her own professional abilities based on education, knowledge, skills, practice experience and other relevant considerations.
   • Provide appropriate professional referrals when unable to provide competent professional assistance.
   • Maintain and respect the confidentiality of sensitive information obtained in the course of professional or related activities unless: the information pertains to an illegal activity; a court or governmental agency lawfully directs the release of specific information; the client/employer expressly authorizes the release of specific information; or, the failure to release such information would likely result in death or serious physical harm to employees and/or the public.
   • Properly use professional credentials and provide truthful and accurate representations concerning education, experience, competency and the performance of services.
   • Provide truthful and accurate representations to the public in advertising, public statement/representations, and in the preparation of estimates concerning costs, services, and expected results.
   • Recognize and respect the intellectual property rights of others, and act in an accurate, truthful, and complete
manner, including activities related to professional work and research.

- Affix or authorize the use of one’s seal, stamp or signature only when the document is prepared by the certificate/candidate or someone under his/her direction and control.
- Refrain from business activities and practices that unlawfully restrict competition.

**B. In order to satisfy organizational policies and legal requirements concerning possible conflicts of interest and similar issues, members should:**

- Disclose to clients or employers significant circumstances that could be construed as a conflict of interest, or an appearance of impropriety.
- Avoid conduct that could cause a conflict of interest with a client, employer, employee, or the public.
- Assure that a conflict of interest does not compromise legitimate interests of a client, employer, employee, or the public and does not influence/interfere with professional judgments.
- Refrain from offering, or accepting inappropriate payments, gifts, or other forms of compensation or benefits in order to secure work, or that are intended to influence professional judgment.

**C. In order to satisfy organizational policies and legal requirements concerning public health and safety, members should:**

- Follow appropriate health and safety procedures in the course of performing professional work to protect clients, employers, employees, and the public from conditions where injury and damage are reasonably foreseeable.
- Inform appropriate management representatives and/or governmental bodies of violations of legal and regulatory requirements when obligated or otherwise clearly appropriate.
- Make reasonable efforts to ensure that the results of industrial hygiene assessments are communicated to exposed populations.

Approved by the AIHA Board of Directors on May 21, 2007.