

**Spring Semester, 2006**

***PubH 6-120***

***Injury Prevention in the Workplace, Community and Home***

**Credits:** 2 credits

**Faculty:** Susan Goodwin Gerberich, Ph.D., M.S.P.H. and guest faculty

**Time:** Wednesdays 8:00 - 9:55 a.m.

**Location:** Mayo Memorial Building – D-199

**Contact Information:**

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Professor and Director

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## I. Course Description:

**Injury Epidemiology:** Analyses of major injury problems affecting the public in the workplace, community and home using the epidemiologic model and conceptual framework; emphasis on strategies/program development for prevention and control. For students involved in the field of Occupational Health and Safety, this course provides a foundation essential to the development of programs for Occupational Injury Prevention and Control.

### **Associated Courses:**

*PubH 6-121, Topics: Injury Prevention in the Workplace, Community, and Home* is offered in conjunction with/ subsequent to PubH 6-120 for the student who wishes to pursue selected projects relevant to injury problems (credits arranged)

*Research opportunities*, pertinent to various injury problems, may be available; negotiated subsequent completion of PubH 6-120 and relevant epidemiology and biostatistics courses (credits arranged).

## II. Objectives:

At the completion of this course (PubH 6-120), the student will be able to:

- A. identify major injury problems in the workplace, community, and home;
- B. analyze variables (exposures) related to injury problems using the epidemiologic model;
- C. develop strategies for prevention and control of selected injury problems, utilizing a comprehensive framework.

## III. Methods of Instruction:

Lectures; Participation by Students: Discussions/Completion of Paper/Website Project/Presentation

## IV. Grading Criteria - Course Requirements and Evaluation (University of Minnesota criteria):

- A. Course Requirements and Evaluation (University of Minnesota criteria):

**A/F**

4.00 = A Represents achievement that is outstanding relative to course requirements

3.67 = A-

3.33 = B+

3.00 = B Represents achievement that is significantly above course requirements

2.67 = B-

2.33 = C+

2.00 = C Represents achievement that meets course requirements in every respect

1.67 = C-

1.33 = D+

1.00 = D Represents achievement that fails to meet fully the course requirements but is worth of credit

0 = F\* Represents failure and signifies that the work was either completed but at a level of achievement not worthy of credit or was not completed and no agreement was made between the instructor and the student to award an Incomplete (I)

**S/N**

S = 2.00 or above

N\* = below 2.00

**Course Grade Components:**

Midterm examination 25%

Final examination 25%

Paper/Website Project 25% Guidelines for paper/website project are identified below

Participation 25% Students are expected to be on time for class, attend all classes for the entire time allocated, and participate in discussions/presentation of paper/website project. NOTE that 10% of this participation grade will be associated with seven quizzes that will be given random weeks within the first FIVE minutes of class time.

**Required Paper/Website Project:****Guidelines:**

1. Select an injury problem related to the workplace, community, or home;
2. Identify the magnitude of the problem to the degree that it is known;
3. Discuss: a) trends in related injuries and fatalities; b) the variables (exposures) potentially related to the injury problem/known risk factors; c) estimated costs of the injury problem; and d) factors that have limited progress in the reduction of injuries and fatalities pertinent to this problem.
4. Utilize an epidemiological approach in developing strategies for prevention and control of the injury problem: a) incorporate an injury-control options analysis using Haddon's matrix of pre-event, and post-event phases (refer to Robertson); identify specific data and research needs; b) specify Haddon's Ten Strategies and identify the most appropriate corresponding strategies for the injury problem you have selected--based on your knowledge of the most successful approaches and approaches that you feel are warranted. Justify your position.

The paper/project will be evaluated for content including completeness of the discussion and analysis related to numbers 2-4. In addition, organization, grammatical construction, rhetoric, and appropriate use of references and resources will be considered in the total evaluation. Length/Format of Paper/

Project: Approximately seven to ten pages (quality, not quantity, is important); typed; double-spaced; incorporated into website. Establish appropriate links for this project. For examples of PubH 6-120 (formerly PubH 5-120), 2004 and 2005 Website Projects, go to: <http://enhs.umn.edu/files/studentwebsites.html>

### **Methods/Process:**

This project will involve heterogeneous group efforts of two to four persons, negotiated by the instructor and teaching assistants, in concert with the relevant students; single-person projects may be negotiated if appropriate. Each group will be responsible for assigning/completing responsibilities in an equitable manner; this includes all aspects of development and completion of the project and identification of presenter(s) to provide a summary of the highlights/key findings of the project during informal presentations sessions at the end of the class. Each project will be allocated at least 10 minutes for presentation. (For persons working with one or more persons, group members will be responsible for evaluating the group process, using a one-page, check-off form.)

Be creative in the examination of a specific problem, including local/current problems - as appropriate; utilize: existing peer-reviewed literature, via Medline, PubMed (National Library of Medicine) etc.; internet information; community-based resources; etc.

### **Grading of Paper/Website Project:**

Content	75%
Organization, Grammatical Construction, and Rhetoric	10%
References/Resources	10%
Meet all deadlines for project	5% [Refer to course schedule]

At least ten (peer-reviewed) references should be cited (e.g., those accessed through Medline are peer-reviewed); utilize the PubMed Advanced Free Medline and various resources pertinent to injury on the internet, including linkages, as appropriate. If this is a problem, contact Dr. Gerberich or Teaching Assistants, Denise Feda and Starr Sage. In addition you may utilize personal resources as necessary and cite accordingly (e.g., contact legislators relevant to the specific injury problem to facilitate development of a comprehensive program).

***NOTE: All papers and take-home examinations must be typewritten.***

### **Additional Resources:**

Strunk, William, Jr. and White, E.B., *The Elements of Style*. New York: Allyn and Bacon, Inc., Fourth Edition, 2000, or other texts/literature pertinent to grammar/writing; *take advantage of grammar/speaking component of word processing program*. Apply American Journal of Public Health, American Journal of Epidemiology, or other journal format for reference citations. Citing references, using an alphabetical format, is typically the easiest; just be consistent.

***Kathryn Buxton, Senior Editor, Division of Environmental and Occupational Health (Telephone 612-626-1440; E-mail: kbuxton@umn.edu) will meet with students to discuss and facilitate incorporation of a project onto a website.***

B. Grading Option (if applicable) - Students may change grading options during the initial registration period or during the first two weeks of the term. The grading option may not be changed after the second week of the term.

C. Course Incomplete – An incomplete grade is permitted only in cases of exceptional circumstances, and following consultation with the instructor. In such cases, an “I” grade will require a specific written agreement between the instructor and the student specifying the time and manner in which the student will complete the course requirements. Extension of completion of the work will not exceed one year.

D. Scholastic Dishonesty – Scholastic dishonesty is a violation of the student conduct code and defined as “any act that violates the rights of another student in academic work or that involves misrepresentation of your own work. Scholastic dishonesty includes (but is not limited to): cheating on assignments or examinations; plagiarizing, which means misrepresenting as your own work all or part of work done by another; submitting the same paper, or substantially similar papers, to meet requirements of more than one course without the approval and consent of all instructors involved; depriving another student of necessary course materials; or interfering with another student’s work. Scholastic dishonesty in any portion of the academic work for a course shall be grounds for awarding a grade of “F” or “N” for the entire course. Please consult the student conduct code at: <http://www.umn.edu/regents/policies/academic/StudentConductCode.html>

**You are required to read this and identify anything in this conduct code that you do not understand; this includes plagiarism.**

**V. Course Withdrawl** – School of Public Health students may withdraw from a course **through the second week of the semester** without permission. No “W” will appear on the transcript. After the **second week**, students are required to do the following:

A. The student must contact and notify their advisor and course instructor informing them of the decision to withdraw from the course.

B. The student must send an e-mail to the SPH Student Services Center (SSC). The email must provide the student name, ID#, course number, section number, semester and year with instructions to withdraw the student from the course and acknowledgement that the instructor and advisor have been contacted.

C. The advisor and instructor must email the SSC acknowledging the student is cancelling the course. All parties must be notified of the student’s intent.

D. The SSC will complete the process by withdrawing the student from the course after receiving all e-mails (student, advisor, and instructor). A “W” will be placed and remain on the student transcript for the course.

E. After discussion with their advisor and notification to the instructor, students may withdraw

until the eighth week of the semester. There is no appeal process.

## VI. Course Outline/Weekly Schedule

**NOTE:** The following lectures *provide content that facilitate analysis of injury problems and development of strategies for prevention and control.* Using a *conceptual approach* that incorporates examples of injury problems, programs that consider the worker and others can be developed. Based on the model identified in *Injury in America*, a *multidisciplinary approach* that includes Epidemiology, Bioengineering, Acute Care, Rehabilitation and Health Promotion is included. Injury problems presented during this course serve as examples for *applying an epidemiologic approach and considering appropriate strategies* (e.g., engineering education, legislation) for prevention and control.

### SCHEDULE:

Day/Date	Topic	Faculty	Time (a.m.)
Wednesday, January 18	Course Introduction Overview: Historical Perspective; Basic Theory, Epidemiological Approach; Injuries: A National Perspective	S. Gerberich	8:00-9:55
Wednesday, January 25	Injuries: A National Perspective (continued): Variables of Injury Frequency, Severity, and Type; Sources and Quality of Data; Analysis/Strategies for Prevention - Considerations for Development of Occupational Injury Prevention/ Safety Programs	S. Gerberich	8:00-9:55
Wednesday, February 1	Injuries: A National Perspective (continued); Transportation Injuries  Types of Studies-Interpretation; Data Quality Issues	S. Gerberich	8:00-9:55

Wednesday, February 8	Identifying the Magnitude of the Problem and Associated Risk Factors – Agricultural Injuries	S. Gerberich	8:00-8:55
		Carr	9:00-9:55
	The Importance of Surveillance: Development of Injury Surveillance Systems		

**Due: Identification of Paper/  
Website Project**

Wednesday, February 15	Ergonomics	Jacobs	8:00-9:55
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Wednesday, February 22	Falls/Developing Strategies for Injury Prevention and Control	S. Gerberich	8:00-9:55
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**TAKE-HOME MIDTERM HANDED OUT (Content will cover 01/18 - 03/01 lectures, readings, discussions)**

**Due: Comprehensive Outline of Paper/Website Project**

Wednesday, March 1	Workers' Compensation: Implications for Injury Prevention and Control	Mc Grail	8:00-9:55
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Wednesday, March 8	Adolescent Occupational Injuries	Parker	8:00-9:55
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**TAKE-HOME MIDTERM DUE**

Wednesday, March 15	<b>SPRING BREAK</b>		
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Wednesday, March 22	Watercraft Injuries/Drowning: Strategies for Prevention	Carlson	8:00-9:55
Wednesday, March 29	The Politics and Reality of Grain Industry Government Health and Safety Regulations	Olmstead	8:00-9:00
	Material and Structural Failure: Potential for Injury	W. Gerberich	9:00-9:55
	<b>Due: Near-Final Draft of Paper/ Website Project</b>		
Wednesday, April 5	Fire /Heat-Related Injuries (Why America Burns)	S. Gerberich	8:00-9:55
Wednesday, April 12	Traumatic Injuries Incurred in the Farming Community: An Approach to Injury Prevention and Control	Harrington	8:00-9:55
Wednesday, April 19	Intentional Injuries	S. Gerberich	8:00-9:55
Wednesday, April 26	Sports/Recreational Injuries	S. Gerberich	8:00-9:55
	<b>Due: Final Paper/Website Project</b>		
May 3	Student Presentations/Discussions of Papers	S. Gerberich	8:00-9:55
		/Students	

**FINAL EXAMINATION**

## **FACULTY**

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**UNIVERSITY OF MINNESOTA  
SCHOOL OF PUBLIC HEALTH  
PubH 6-120, 2006**

## **VII. Course Text(s) and Readings**

### **REQUIRED TEXT:**

**\*TEXT:** Robertson, Leon S. Injury Epidemiology: Research and Control Strategies, Second Edition. New York: Oxford University Press, 1998. *This text contains major concepts and theories that are critical to the study of injury and relevant control of this major public health problem.* **Purchase in the Coffman Bookstore, Ground Floor.**

### **REQUIRED READINGS:**

**† SYLLABUS:** Required readings, in addition to the text identified above, are provided in the syllabus that is to be purchased in the Coffman Bookstore, Ground Floor. The full citations for required readings (\*, †) are also identified in the next section of supplementary texts/readings.

**Readings, in addition to required text chapters, are included on the following pages; associated due dates for completion are identified in the following: († = Refer to attached Readings for Reference list under categories identified for complete reference identification.)**

Reading	Due Date
* Robertson, <u>Chapter 1</u> , Injury and the Role of Epidemiology	
* Robertson, <u>Chapter 2</u> , The Search for Data and Its Uses	
† Wigglesworth, The Fault Doctrine and Injury Control  (Syllabus; <u>General</u> ), pages 789-794	
† Haddon-Advances in the epidemiology of injuries (Syllabus; <u>General</u> ), pages 411-421	
† Barry, Individual versus community orientation....  (Syllabus; <u>General</u> ), pages 47-56	
† Rivara, The scientific basis for injury control  <a href="http://epirev.oupjournals.org/cgi/content/full/25/1/20">http://epirev.oupjournals.org/cgi/content/full/25/1/20</a>	January 25
* Robertson, <u>Chapter 4</u> , Causal Analysis and Its Uses	
† Traumatic Occupational Injury Research Needs and Priorities  National Occupational Research Agenda  <a href="http://www.cdc.gov/niosh/nora/">http://www.cdc.gov/niosh/nora/</a> (Handout,Update,2003)	
<u>Worker Health Chartbook, 2004</u> (Handout - CD)	February 1

- \* Robertson, Chapter 3, Injury Surveillance and Its Uses – Skim chapter
- † Gerberich et al., Epidemiology: Rural Trauma (Syllabus; Occupational), pages 32-47
- † Horan and Mallonee, Injury surveillance  
<http://epirev.oupjournals.org/cgi/content/full/25/1/24>

February 8

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- \* Robertson, Chapter 5, Human Factors and Attempts to Change Them
- † Basic Ergonomics <http://www.cdc.gov/od/ohs/INDHYG/ergolead.htm>

(including the Primer)

February 15

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- \*Robertson, Chapter 6, Laws and Formal Rules Directed at Individual Behavior
- \*Robertson, Chapter 7, Controlling Agents, Vehicles, and Environment
- † Peek-Asa and Zwerling, Role of environmental interventions

<http://epirev.oupjournals.org/cgi/content/full/25/1/77>

February 22

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- \*Robertson, Chapter 8, Research on Treatment and Rehabilitation
- \*Robertson, Chapter 9, Injury Epidemiology and Economics

Workers' Compensation information for United States and by state

<http://www.workerscompensation.com/>

March 1

† Parker et al.- Nature and incidence of self-reported work injury (Syllabus - Occupational), pages 529-541.

† Preventing Deaths and Injuries of Adolescent Workers

<http://www.cdc.gov/niosh/childlab.html>

† Child Labor Research Needs: Special Hazard Review (Scan) March 8

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**SPRING BREAK** **March 15**

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† Injury Prevention: Meeting the Challenge - (Chapter 8-Drowning, pages 163-167)  
and relevant references (Syllabus)

† Smith et al., Drinking and recreational boating fatalities, pages 2974-2980

<http://jama.ama-assn.org/cgi/content/full/286/23/2974> March 22

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† Strehlow, Accidental Explosions (Syllabus -Fire/Heat/Explosions),  
pages 420-428

† Ross, Construction Disasters (Syllabus-Architectural; Material/Structural Safety)

pages 1-12 March 29

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† Runyan – Risk factors for fatal residential fires (Syllabus; Fire/Heat/Explosions), pages 859-863; 887-888

† Refer to websites regarding the Fire-Safe Cigarette, including:

<http://www.cbsnews.com/stories/2004/06/11/health/main622695.shtml>

April 5

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\* Robertson, Chapter 10, Injury Policy Analysis

† Doll et al., Evaluation of interventions designed to prevent and control injuries

<http://epirev.oupjournals.org/cgi/content/full/25/1/51>

April 12

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† Christoffel and Gallagher, Intentional Injury (Syllabus - Intentional Injury),  
pages 101-146

† NIOSH, Violence in the Workplace (Handout)

† Karlson and Hargarten, Reducing Firearm Injury and Death:

The Scope of the Problem (Syllabus - Supplementary Texts), pages 1-11

† Wintemute, The future of firearm violence prevention, pages 475-478

(Syllabus - Intentional Injury)

[Refer, also, to February 22 Reading: † Peek-Asa and Zwerling, Role of

environmental interventions <http://epirev.oupjournals.org/cgi/content/full/25/1/77>] April 19

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† Injury Prevention: Meeting the Challenge (Chapter 8-Recreational Injuries, pages 167-173) and relevant references (Syllabus - Refer to reading for

**March 22)**

† Shephard, Can we afford to exercise, given current injury rates?

<http://www.ncbi.nlm.nih.gov/PubMed> and type in Shephard, Injury Prevention 2003 (then go to full publication)

† Marshall and Guskiewicz, Sports and recreational injury: The hidden cost of a healthy lifestyle.

Go to <http://www.ncbi.nlm.nih.gov/PubMed> and type in Marshall, Injury Prevention 2003 (then go to full publication)

† Gerberich (HANDOUTS- Recreation/Sports)

April 26

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Review Readings, Course Presentations and Notes/Student Presentations

May 3

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### **SUPPLEMENTARY TEXTS/READINGS:**

**Note: The following include a variety of references for your information/resource. *Only those identified with † are required and are also noted on your reading schedule.***

Baker, Susan P., O'Neill, Brian, Ginsburg, Marvin J., and Li, Guohua, The Injury Fact Book, Second Edition, New York: Oxford University Press, 1992.

Bonnie, Richard J., Fulco, Carolyn E., and Liverman, Catharyn T., Editors, Institute of Medicine, Committee on Injury Prevention and Control, Reducing the Burden of Injury: Advancing Prevention and Treatment, Washington, D.C.: National Academy Press, 1999.

National Center for Health Statistics, Health, United States, 2003 (151 tables and 34 charts on trends health statistics), United States Department of Health and Human Services, Centers for Disease Control and Prevention, 2003. <http://www.cdc.gov/nchs/hus.htm>

† Christoffel, Tom and Gallagher, Susan Scavo, Intentional Injury, in Injury Prevention and Public Health: Practical Knowledge, Skills, and Strategies, Second Edition, Sudbury, Massachusetts: Jones and Bartlett Publishers, 2006, pages 101-146.

Committee on Trauma Research, Commission on Life Sciences, National Research Council, Institute of Medicine, Injury in America: A Continuing Public Health Problem, Washington, D.C.: National Academy Press, 1985.

† Gloss, David S. and Wardle, Miriam Gayle. Introduction to Safety Engineering. New York: John Wiley and Sons, 1984.

Holder, Y, Peden M, Krug E, Lund J, Gururaj G, Kobusingye O, Injury Surveillance Guidelines. Atlanta: World Health Organization and Centers for Disease Control and Prevention, 2001.

Injury Control and Emergency Health Services Section, American Public Health Association, How States are Collecting and Using Data, September 1998.

† Karlson, Trudy A. and Hargarten, Stephen W., Reducing Firearm Injury and Death: A Public Health Sourcebook on Guns, New Brunswick, New Jersey: Rutgers University Press, 1997. (Refer to Chapter 1, Syllabus.)

Liller, Karen DeSafey, Injury Prevention for Children and Adolescents: Research, Practice and Advocacy, Washington, DC: American Public Health Association, 2006.

McClure, Roderick, Stevenson, Mark, and McEvoy, Suzanne. The Scientific Basis of Injury Prevention and Control, Melbourne: IP Communications, 2004.

† National Institute for Occupational Safety and Health, Preventing Deaths and Injuries of Adolescent Workers (Handout) NIOSH ALERT, Current Intelligence Bulletin 57, Publication Number 95-125, DHHS, PHS, CDC, NIOSH, May 1995.

† National Institute for Occupational Safety and Health, National Occupational Research Agenda (Handout) Traumatic Occupational Injury Research Needs and Priorities, Current Intelligence Bulletin Publication Number 96-100, DHHS, PHS, CDC, NIOSH, Update 2003.

† National Institute for Occupational Safety and Health, Worker Health Chartbook, 2004, Washington, D.C.: USDHHS, PHS, 2000 (Handout - CD).

National Center for Injury Prevention and Control, Injury Fact Book 2001-2002. Atlanta, GA: Centers for Disease Control and Prevention, 2001.

National Safety Council, Injury Facts – 2005 Edition. Itasca, Illinois, 2005.

National Safety Council website: What are the odds of dying? <http://www.nsc.org/lrs/statinfo/odds.htm>

Injury Control and Emergency Health Services Section (ICEHS) - Data Committee, American Public Health Association (APHA), How States are Collecting and Using Cause of Injury Data - A Survey on State-Based Surveillance, External Cause of Injury Coding Practices, and Coding Guidelines in the 50 States, the District of Columbia, and Puerto Rico, Washington, D.C.: American Public Health Association, September 1998.

Rice, Dorothy P., MacKenzie, Ellen J., and Associates, Cost of Injury in the United States: A Report to Congress, San Francisco: Institute for Health and Aging, University of California and Injury Prevention Center, the Johns Hopkins University, 1989.

Robson, Lynda S., Shannon, Harry S., Goldenhar, Linda M., and Hale, Andrew R. Guide to Evaluating the Effectiveness of Strategies for Preventing Work Injuries. Cincinnati: National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No, 2001-119, 2001

Rosenberg, Mark L. and Baer, Editors, Injury and Violence, in Maxcy-Rosenau-Last, Public Health and Preventive Medicine, 14th Edition, Stamford, Connecticut: Appleton and Lange, 1998. REFER TO - Chapter 72: Kraus, J.F., Peek-Asa, C., and Vimalachandra, D., Injury Control: The Public Health Approach; Chapter 73: Rosenberg, M.L., Mercy, J.A., and Anest, J.L., The Problem of Violence in the United States and Globally.

† The National Committee for Injury Prevention and Control, Injury Prevention: Meeting the Challenge. New York: Oxford University Press, American Journal of Preventive Medicine, 1989 (Refer to chapters in syllabus).

United States Department of Health and Human Services. Centers for Disease Control and Prevention National Center for Health Statistics, Health United States 1996-1997 Injury Chartbook, DHHS Publication No. (PHS) 97-1232-1, July 1997

Waller, Julian, Injuries, Lexington, Massachusetts: Lexington Books, 1984.

Zara, Stephanie and Thompson, Robert, Reducing Injuries to Motor Vehicle Occupants, Am J Prev Med Supplement, November 2001.

### **ADDITIONAL TEXTS:**

Data and Research Committee (Gerberich, Member), Minnesota's Health Care Coalition on Violence Review of the Research on Gun Injuries: Promising Prevention Strategies for Health Care, St. Paul: 2000 Health Care Coalition on Violence, 2000.

Dobrin, Adam, Wiersema, Brian, Loftin, Colin, and McDowall, David, Statistical Handbook on Violence in America, Phoenix, Arizona: Oryx Press, 1996.

Graham, John D. Preventing Automobile Injury: New Findings from Evaluation Research, Dover, Massachusetts: Auburn House Publishing Company, 1988.

Graham, John D. Auto Safety: Assessing America's Performance. Dover, Massachusetts: Auburn

House Publishing Company, 1989.

Institute of Medicine, Safe Work in the 21<sup>st</sup> Century: Education and Training Needs for the Next Decade's Occupational Safety and Health Personnel. Washington, D.C.: National Academy Press, 2000.

Kroemer, K.H.E. and Grandjean, E. Fitting the Task to the Human: A Textbook of Occupational Ergonomics, Fifth Edition, London: Taylor and Francis, Ltd., 1997.

**Note: In the following, *articles from the classic* as well as the *more recent literature* in the injury prevention and control field are identified. Many of the readings identified under the General category also contain data relevant to the more specific categories listed below. Required readings are identified with a †.**

## ALCOHOL

Gerberich, Susan Goodwin, Gerberich, Bradley K., Fife, Daniel, Cicero, James, Lilja, Patrick, and Van Berkom, Lowell. Analyses of the relationship between blood alcohol and nasal breath alcohol concentrations: Implications for assessment of trauma cases, Journal of Trauma, 29(3):338-343, March 1989.

Irwin, S.T.; Patkerson, C.C.; and Rutherford, W.H. Association between alcohol consumption and adult pedestrians who sustain injuries in road traffic accidents, British Medical Journal. 286:582, 1983.

Jones, Nancy E., Pieper, Carl F., and Robertson, Leon S. The effect of drinking age on fatal injuries adolescents and young adults, American Journal of Public Health. 82 (1): 112-115, 1992.

Ross, H. Lawrence. The Scandinavian myth: The effectiveness of drinking-and-driving legislation in Sweden and Norway. Journal of Legal Studies. 4(2):285-310, 1975.

Ross, H. Lawrence. Deterring the Drinking Driver: Legal Policy and Social Control. Lexington, Massachusetts: Lexington Books, D.C. Heath and Company.

† Smith, Gordon, S., Keyl, Penelope M., Hadley, Jeffrey A., Bartley, Christopher, L., Tolbert, William and McKnight, James, Drinking and recreational boating fatalities: A population-based case-control study, JAMA 286(23): 2974-2980, 2001.

## ARCHITECTURAL CONSIDERATIONS

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