**MPM 202 — Medical Statistics I (4 units)**

**Course Description:** Introduction to descriptive statistics, probability, and basic inferential statistics. Emphasis on using worksheet/database software tools for organizing, analyzing, reporting, and interpreting data. Ten, three-hour sessions.

**Learning Activities:** Lecture 15 hour(s), Laboratory 10 hour(s).

**Grade Mode:** Letter.

**Prerequisite(s):** MPM 201; or consent of instructor.

**Enrollment Restrictions:** Limited to 35 students.

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**MPM 203 — Medical Statistics II (4 units)**

**Course Description:** Continuation of MPM 202. Analysis of variance in biomedical sciences. Nonparametric methods; multiple regression; unconditional logistic regression; biomedical applications of statistical methods. Microcomputer applications in population medicine to reinforce principles that are taught in lecture. Required for students in the Masters of Public Health Program (MPH), and the M.P.V.M. (Epidemiology) for epidemiologists and the M.P.V.M. (Preventive Veterinary Medicine) for veterinarians.

**Learning Activities:** Lecture 3 hour(s), Laboratory 2 hour(s).

**Grade Mode:** Letter.

**Prerequisite(s):** MPM 202; or consent of instructor or equivalent.

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**MPM 204 — Medical Statistics III (4 units)**

**Course Description:** Continuation of MPM 203. Selecting the best regression equation, conditional logistic regression, Poisson regression, survival analysis, analysis of time dependent variables and trends. Microcomputer applications in population medicine to reinforce principles that are taught in lecture.

**Learning Activities:** Lecture 3 hour(s), Laboratory 2 hour(s).

**Grade Mode:** Letter.

**Prerequisite(s):** MPM 203; or consent of instructor or equivalent.

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**MPM 205 — Principles of Epidemiology (4 units)**

**Course Description:** Basic epidemiologic concepts and approaches to epidemiologic research, including outbreak investigation, infectious disease study design and surveillance. Introduction to epidemiologic methods. Required for students in the Preventive Veterinary Medicine Graduate Group (PVM) and the Masters of Public Health Program (MPH).

**Learning Activities:** Lecture 4 hour(s).

**Grade Mode:** Letter.

**Cross Listing:** EPI 205.

**Prerequisite(s):** MPM 202; or consent of instructor, or equivalent.

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**MPM 206 — Epidemiologic Study Design (4 units)**

**Course Description:** Continuation of MPM 205. Analyzing survival equation, conditional logistic regression, Poisson regression, survival analysis, analysis of time dependent variables and trends. Microcomputer applications in population medicine to reinforce principles that are taught in lecture.

**Learning Activities:** Lecture 4 hour(s).

**Grade Mode:** Letter.

**Prerequisite(s):** MPM 205; or consent of instructor.

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**MPM 207 — Applied Epidemiologic Problem Solving (1 unit)**

**Course Description:** Integration of epidemiologic and statistical methodology in a problem solving approach to contemporary animal population health issues. Data validation and manipulation, survival analysis, analysis of time dependent variables and trends. Microcomputer applications in population medicine to reinforce principles that are taught in lecture.

**Learning Activities:** Discussion/Laboratory 2 hour(s).

**Grade Mode:** Letter.

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**MPM 208 — Introduction to Information Management for Veterinarians (1 unit)**

**Course Description:** Introduction to computer applications in the context of epidemiology, including outbreak investigation, infectious disease study design and surveillance. Introduction to epidemiologic methods. Microcomputer applications in population medicine to reinforce principles that are taught in lecture.

**Learning Activities:** Lecture 3 hour(s), Laboratory 2 hour(s).

**Grade Mode:** Letter.

**Prerequisite(s):** MPM 202; or consent of instructor, or equivalent.

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**MPM 209 — Medical Statistics IV (4 units)**

**Course Description:** Continuation of MPM 208. Analysis of time dependent variables and trends. Microcomputer applications in population medicine to reinforce principles that are taught in lecture.

**Learning Activities:** Lecture 3 hour(s), Laboratory 2 hour(s).

**Grade Mode:** Letter.

**Prerequisite(s):** MPM 208; or consent of instructor, or equivalent.

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**MPM 210 — Introduction to Information Management for Veterinarians II (1 unit)**

**Course Description:** Continuation of MPM 209. Analysis of time dependent variables and trends. Microcomputer applications in population medicine to reinforce principles that are taught in lecture.

**Learning Activities:** Lecture 3 hour(s), Laboratory 2 hour(s).

**Grade Mode:** Letter.

**Prerequisite(s):** MPM 209; or consent of instructor, or equivalent.

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**MPM 211 — Medical Statistics V (4 units)**

**Course Description:** Continuation of MPM 210. Analysis of time dependent variables and trends. Microcomputer applications in population medicine to reinforce principles that are taught in lecture.

**Learning Activities:** Lecture 3 hour(s), Laboratory 2 hour(s).

**Grade Mode:** Letter.

**Prerequisite(s):** MPM 210; or consent of instructor, or equivalent.

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**MPM 212 — Advanced Medical Statistics (4 units)**

**Course Description:** Continuation of MPM 211. Analysis of time dependent variables and trends. Microcomputer applications in population medicine to reinforce principles that are taught in lecture.

**Learning Activities:** Lecture 3 hour(s), Laboratory 2 hour(s).

**Grade Mode:** Letter.

**Prerequisite(s):** MPM 211; or consent of instructor, or equivalent.
MPM 208 — Research Planning & Reporting I (2 units)
Course Description: Identify and implement research questions through hypothesis construction, articulation of aims, acquiring permits, working as a team, and all other techniques needed to develop a successful research program.
Learning Activities: Lecture/Discussion 2 hour(s).
Enrollment Restriction(s): MPVM standing or consent of instructor.
Credit Limitation(s): Not open for credit to students who have previously taken MPM 408B.
Grade Mode: Letter.

MPM 209 — Research Planning & Reporting II (1 unit)
Course Description: Concepts and skills in effective scientific writing for publication in a peer-reviewed journal in animal health or biomedicine. Includes developing an argument, organizing and writing a manuscript, improving readability, and responding to peer review.
Prerequisite(s): MPM 208.
Learning Activities: Lecture/Discussion.
Grade Mode: Letter.

MPM 210 — Advanced Health Leadership (1.5 units)
Course Description: Develop skills for effective scientific leadership, including: project management and collaboration, conflict resolution, communication with the public, dynamic distribution of health information, and evidence-based policy influence.
Learning Activities: Lecture, Discussion.
Enrollment Restriction(s): Limited to 35 students.
Grade Mode: Letter.

MPM 212 — Concepts & Methods in Infectious Disease Surveillance & Control (3 units)
Course Description: Basic and advanced level of conceptual and methodological foundations in infectious disease epidemiology necessary for veterinarians to develop and evaluate programs for detection, prevention, and control of infectious diseases in animal populations.
Prerequisite(s): Consent of instructor.
Learning Activities: Lecture 2 hour(s), Discussion/Laboratory 1 hour(s).
Grade Mode: Letter.