

Course syllabus**1. Subject code and Title**

**710 891 Seminar in Veterinary I 1(1-0-2)

2. Numbers of credits

1 credit (Lecture 1 hour/week, Laboratory - hour/week, Self study 2 hour/week) 1(1-0-2)

3. Responsible organization

Faculty of Veterinary Medicine

4. Course description

Literature review and discussion in veterinary and related medical sciences and case report.

5. Prerequisite

None

6. Type of subject

A core course for the Graduate Veterinary Diploma Program in Livestock Diseases and Health Management, Faculty of Veterinary Medicine.

7. Effective date

From the first and the second semester of the academic year 2010 onwards.

8. Lecturers

Assoc. Prof. Sutthisak Nopwinyoowong and colleagues

Course outline****710 891 Seminar in Veterinary I 1(1-0-2)**

Topic	Hours
1. Literature review and discussion in veterinary and related medical sciences	6
2. Case report	9
Total	15

Course syllabus**1. Subject code and Title**

**710 892 Seminar in Veterinary II 1(1-0-2)

2. Numbers of credits

1 credit (Lecture 1 hour/week, Laboratory - hour/week, Self study 2 hour/week) 1(1-0-2)

3. Responsible organization

Faculty of Veterinary Medicine

4. Course description

Review and discussion of literature and case report related to current issues in modern veterinary technology.

5. Prerequisite

None

6. Type of subject

A core course for the Graduate Veterinary Diploma Program in Livestock Diseases and Health Management, Faculty of Veterinary Medicine.

7. Effective date

From the first and the second semester of the academic year 2010 onwards

8. Lecturers

Assoc. Prof. Sutthisak Nopwinyoowong and colleagues

Course outline

**710 892 Seminar in Veterinary II

1(1-0-2)

Topic	Hours
1. Review and discussion of literature, current issues in modern veterinary technology	5
2. Case report	10
Total	15

Course syllabus

1. Subject code and Title

*714 731 Practice in Swine Disease Diagnosis 2(0-4-2)

2. Numbers of credits

2 credit (Lecture - hour/week, Laboratory 4 hour/week, Self study 2 hour/week) 2(0-4-2)

3. Responsible organization

Department of Pathobiology, Faculty of Veterinary Medicine

4. Course description

Technique in sample collection for swine disease diagnosis, postmortem examination, laboratory examination for swine disease, histopathology, bacteriology, virology, serology and molecular biology, discussion of case diagnosis.

5. Prerequisite

None

6. Type of subject

A core course for the Graduate Veterinary Diploma Program in Livestock Diseases and Health Management, Faculty of Veterinary Medicine.

7. Effective date

From the first and the second semester of the academic year 2010 onwards

8. Lecturers

Nusara Suwannachot and colleagues

Course outline

*714 731 Practice in Swine Disease Diagnosis 2(0-4-2)

Topic (Laboratory)	Hours
1 Technique in sample collection for swine disease diagnosis	8
2 Postmortem examination	
2.1 Examination of integumentary, muscular and nervous system	5
2.2 Examination of respiratory system	5
2.3 Examination of gastrointestinal system	5
2.4 Examination of reproductive system	5
3 Laboratory examination for swine disease, bacteriology	
3.1 Histopathology, cell biology	7
3.2 Virology, serology	7
3.3 Molecular biology	8
4 Discussion of case diagnosis	
4.1 Discussion of principles of diagnosis	5
4.2 Discussion of principle of differential diagnosis	5
Total	60

Course syllabus

1. Subject code and Title

715 721 Business and Administration for Animal Farm 2 (2-0-4)

2. Numbers of credits

2 credit (Lecture 2 hour/week, Laboratory - hour/week, Self study 4 hour/week) 2 (2-0-4)

3. Responsible organization

Department of Surgery and Theriogenology, Faculty of Veterinary Medicine

4. Course description

Accounting and financing for livestock, strategic management, marketing management, production cost, supplies chains and operating management, innovation and business building, market and livestock market in Thailand, consumer behavior, change and farm improvement.

5. Prerequisite

None

6. Type of subject

A core course for the Graduate Veterinary Diploma Program in Livestock Diseases and Health Management, Faculty of Veterinary Medicine.

7. Effective date

From the first and the second semester of the academic year 2010 onwards.

8. Lecturers

Assist.Prof. Pongthorn Suwantada and colleagues

Course Outline

715 721 Business and Administration for Animal Farm

2 (2-0-4)

Topics (Lecture)	Hours
1. Accounting and financing for livestock	6
1.1 Meaning	
1.2 Financial Aim	
2. Strategy management	2
2.1 Analysis of business environment	
2.2 Analysis of business competitor	
2.3 Administration of strategic plan and control, follow and evaluation	
3. Marketing management	4
3.1 Concepts of modern marketing management	
3.2 Roles of marketing data	
3.3 Analysis for marketing components determination	
4. Production cost	2
5. Supplies chains and operating management	4
5.1 Analysis and planning for service process	
5.2 Standardization of methods	
5.3 Control of methods, quality control and stock control	
6. Innovation and business building	4
6.1 Innovation for owning a business	
6.2 Business opportunity seeking and business plan	
7. Market and livestock market in Thailand	2
8. Consumer behavior	4
9. Change and farm improvement	2
9.1 Organization development for change management	
9.2 Problems of organization change and resistance and solution	
Total	30

Course syllabus

1. Subject code and Title

*715 722 Clinical Practice in Artificial Insemination and Reproductive Technology 1(0-2-1)

2. Numbers of credits

1 credit (Lecture 0 hour/week, Laboratory 2 hour/week, Self study 1 hour/week) 1(0-2-1)

3. Responsible organization

Department of Surgery and Theriogenology, Faculty of Veterinary Medicine

4. Course description

Practice in swine artificial insemination, practice in cattle artificial insemination, practice in poultry artificial insemination, practice in handling of artificial insemination instruments.

5. Prerequisite

None

6. Type of subject

A core course for the Graduate Veterinary Diploma Program in Livestock Diseases and Health Management, Faculty of Veterinary Medicine.

7. Effective date

From the first semester of the academic year 2010 onwards.

8. Lecturers

Pongthorn Suwannathada and colleagues

Course outline

*715 722 Clinical Practice in Artificial Insemination and Reproductive Technology 1(0-2-1)

Topics	Hours
1 Practice in swine artificial insemination	9
2 Practice in cattle artificial insemination	9
3 Practice in poultry artificial insemination	6
3 Practice in handling of artificial insemination instruments	6
Total	30

Course Syllabus

1. Subject code and Title

*717 731 Health Problems and Management in Ruminant 3(3-0-6)

2. Numbers of credits 3(3-0-3)

3 Credits (Lecture 3 hours/week, Laboratory 0 hour/week, Self study 6 hours/week) 3(3-0-6)

3. Responsible organization

Department of Medicine, Faculty of Veterinary Medicine.

4. Course description

Factors affecting ruminant health; health problems in ruminant; diagnostic techniques for ruminant health problems in ruminant; practical guidelines for of health management in ruminant; control and prevention of health problems in ruminant.

5. Prerequisite

None

6. Type of subject

A core course for the Graduate Veterinary Diploma Program in Livestock Diseases and Health Management, Faculty of Veterinary Medicine.

7. Effective date

From the first and the second semester of the academic year 2010 onwards.

8. Lecturers

Dr. Aran Chanlun and colleagues

Course outline

717 731 Health Problems and Management in Ruminant 3(3-0-6)

Topics (Lectures)	Hours
1 Factors affecting ruminants health	8
2 Health problems in ruminant	
2.1 Respiratory system	5
2.2 Gastrointestinal system	5
2.3 Musculoskeletal system	5
3 Diagnostic techniques for ruminant health problems in ruminant	7
4 Practical guidelines for of health management in ruminant	7
5 Control and prevention of health problems in ruminant	8
Total	45

Course Syllabus

1. Subject code and Title

*717 732 Milk Quality and Production Management 2(2-0-4)

2. Numbers of credits

2 Credits (Lecture 2 hours/week, Laboratory - hour/week, Self study 4 hours/week) 2(2-0-4)

3. Responsible organization

Department of Medicine, Faculty of Veterinary Medicine

4. Course description

Current situation of milk production and quality, factors affecting the raw milk production and quality, investigation of milk quality and udder health problems individuals and herd levels, therapeutic guidelines for udder health problems, milk quality and mastitis control and milking management.

5. Prerequisite

None

6. Type of subject

A core course for the Graduate Veterinary Diploma Program in Livestock Diseases and Health Management, Faculty of Veterinary Medicine.

7. Effective date

From the first and the second semester of the academic year 2010 onwards.

8. Lecturers

Assist.Prof.Dr. Anantachai Chaiyotwittayakun and colleagues

Course outline

*717 732 Milk Quality and Production Management

2(2-0-4)

Topics (Lectures)	Hours
1 Current situation of milk production and quality	3
2 Factors affecting the raw milk production and quality	7
3 Investigation of milk quality and udder health problems individuals and herd levels	8
4 Therapeutic guidelines for udder health problems	6
5 Milk quality and mastitis control and milking management	6
Total	30

Course Syllabus

1. Subject code and Title

*717 733 Ruminant Clinical Practice 3(0-6-3)

2. Numbers of credits

3 Credits (Lecture - hours/week, Laboratory 6 hour/week, Self study 3 hours/week) 3(0-6-3)

3. Responsible organization

Department of Medicine, Faculty of Veterinary Medicine

4. Course description

Practice in processes of history taking, physical examination, sample collection for diagnosis, laboratory diagnosis, techniques of special diagnosis, treatment, prognosis, control and prevention of diseases in ruminant in aspects of medicine, theriogenology, obstetrics, surgery and pathology in the individuals; practice in herd health management in ruminants: collection, validation and analysis of data, planning and giving advices for herd management; Summary.

5. Prerequisite

None

6. Type of subject

A core course for the Graduate Veterinary Diploma Program in Livestock Diseases and Health Management, Faculty of Veterinary Medicine.

7. Effective date

From the first and the second semester of the academic year 2010 onwards.

8. Lecturers

Dr. Aran Chanlun and colleagues

Course outline

717 733 Ruminant Clinical Practice 3(0-6-3)

Topics (Laboratory)		Hours
1	Practice in processes of history taking, physical examination, sample collection for diagnosis, laboratory diagnosis, techniques of special diagnosis, treatment, prognosis, control and prevention of diseases in ruminant in aspects of medicine, theriogenology, obstetrics, surgery and pathology in the individuals	42
2	Practice in herd health management in ruminants	
	Collection, validation and analysis of data	30
	Planning and giving advices for herd management; Summary	18
Total		90

Course Syllabus

1. Subject code and Title

*717 734 Clinical Ruminant Nutrition 2(2-0-4)

2. Numbers of credits

2 Credits (Lecture 2 hours/week, Laboratory - hour/week, Self study 2 hours/week) 2(2-0-4)

3. Responsible organization

Department of Medicine, Faculty of Veterinary Medicine

4. Course description

Ruminant alimentary system, importance of nutritional condition on health and production, minimum nutritional requirement for cattle, metabolic disorders related to alimentary system, investigation of nutritional condition clinical nutrition individuals and herd levels, nutritional management enhancing productive performance and health.

5. Prerequisite

None

6. Type of subject

A core course for the Graduate Veterinary Diploma Program in Livestock Diseases and Health Management, Faculty of Veterinary Medicine.

7. Effective date

From the first and the second semester of the academic year 2010 onwards

8. Lecturers

Assist.Prof.Dr. Anantachai Chaiyotwittayakun and colleagues

Course outline

717 734 Clinical Ruminant Nutrition

2(2-0-4)

Topics (Lectures)	Hours
1 Ruminant alimentary system	3
2 Importance of nutritional condition on health and production	3
3 Minimum nutritional requirement for cattle	6
4 Metabolic disorders related to alimentary system	6
5 Investigation of nutritional condition clinical nutrition individuals and herd levels	6
6 Nutritional management enhancing productive performance and health	6
Total	30

Course syllabus

1. Subject code and Title

*717 735 Practice in Poultry Disease Diagnosis 2(0-4-2)

2. Numbers of credits

2 credit (Lecture - hour/week, Laboratory 4 hour/week, Self study 2 hour/week) 2(0-4-2)

3. Responsible organization

Department of Medicine, Faculty of Veterinary Medicine

4. Course description

Diagnosis of viral infectious disease using egg incubation or cell culture method, an assessment of Newcastle disease virus virulence, preparation of inoculation dose for research trial, primer designs for diagnosis important diseases, histopathology diagnosis.

5. Prerequisite

None

6. Type of subject

A core course for the Graduate Veterinary Diploma Program in Livestock Diseases and Health Management, Faculty of Veterinary Medicine.

7. Effective date

From the first and the second semester of the academic year 2010 onwards.

8. Lecturers

Assoc. Prof. Kanlaya Chuachan and colleagues

Course outline

*717 735 Practice in Poultry Disease Diagnosis 2(0-4-2)

Topics (Laboratory)	Hours
1. Diagnosis of viral infectious disease using egg inoculation or cell culture method	12
2. An assessment of Newcastle disease virus virulence	10
3. Preparation of inoculation dose for research trial	10
4. Primer designs for diagnosis important diseases	12
5. Histopathology diagnosis	16
Total	60

Course syllabus**1. Subject code and Title**

*717 736 Clinical Swine Nutrition 2(0-4-2)

2. Numbers of credits

2 credit (Lecture - hour/week, Laboratory 4 hour/week, Self study 2 hour/week) 2(0-4-2)

3. Responsible organization

Department of Medicine, Faculty of Veterinary Medicine

4. Course description

Feed formula and ingredients, effect of nutrition imbalance to fertility and disease immunity in swine, relationship among nutrition, health and fertility in the pig herd, control and diagnostic strategies for nutritional problem in the pig herd.

5. Prerequisite

None

6. Type of subject

A core course for the Graduate Veterinary Diploma Program in Livestock Diseases and Health Management, Faculty of Veterinary Medicine.

7. Effective date

From the first and the second semester of the academic year 2010 onwards.

8. Lecturers

Assist.Prof. Dr. Sartron Pontrakunpipat and colleagues

Course outline

*717 736 Clinical Swine Nutrition 2(0-4-2)

Topics (Laboratory)	Hours
1 Feed formula and ingredients	20
2 Effect of nutrition imbalance to fertility and disease immunity in swine	14
3 Relationship among nutrition, health and fertility in the pig herd	14
4 Control and diagnostic strategies for nutritional problem in the pig herd	12
Total	60

Course syllabus**1. Subject code and Title**

*717 737 Health and Production Management in Swine Herd 1(1-0-2)

2. Numbers of credits

1 credit (Lecture 1 hour/week, Laboratory - hour/week, Self study 2 hour/week) 1(1-0-2)

3. Responsible organization

Department of Medicine, Faculty of Veterinary Medicine

4. Course description

Importance of herd health management and production efficiency in swine herd, general management, disease control and prevention, production efficiency evaluation in breeding herd.

5. Prerequisite

None

6. Type of subject

A core course for the Graduate Veterinary Diploma Program in Livestock Diseases and Health Management, Faculty of Veterinary Medicine.

7. Effective date

From the first and the second semester of the academic year 2010 onwards.

8. Lecturers

Assist.Prof. Dr. Jatesada jiwakanon and colleagues

Course outline

*717 737 Health and Production Management in Swine Herd 1(1-0-2)

Topics (Lectures)	Hours
1 Importance of herd health management and production efficiency in swine herd	3
2 General management, disease control and prevention	6
3 Production efficiency evaluation in breeding herd	6
Total	15

Course syllabus**1. Subject code and Title**

*717 738 Practice in Health and Production Management in Swine Herd 2(0-4-2)

2. Numbers of credits

2 credit (Lecture - hour/week, Laboratory 4 hour/week, Self study 2 hour/week) 2(0-4-2)

3. Responsible organization

Department of Medicine, Faculty of Veterinary Medicine

4. Course description

General management, disease control and prevention program, analysis of production parameter in breeding herd, conclusion and advice for practical management.

5. Prerequisite

None

6. Type of subject

A core course for the Graduate Veterinary Diploma Program in Livestock Diseases and Health Management, Faculty of Veterinary Medicine.

7. Effective date

From the first and the second semester of the academic year 2010 onwards.

8. Lecturers

Assist.Prof. Dr. Jatesada jiwakanon and colleagues

Course outline

*717 738 Practice in Health and Production Management in Swine Herd 2(0-4-2)

Topics (Laboratory)	Hours
1. General management and disease control and prevention program	24
2. Analysis of production parameter in breeding herd	30
3. Conclusion and advice for practical management	6
Total	60