

Summer 2021

Course Number	Title of Course	Credit Hours	Course Coordinator	Pre-Requisite(s)
VBMS 7010	Pathways to Successful Research	1	Wooldridge	
VBMS 7210	Radiation Biology	4	Almond	
VBMS 7300	Avian Diagnostic Pathology	1 to 3	Joiner	
VBMS 7320	Evaluation of Current and Emerging Literature in Veterinary Anesthesia	1	Clark-Price	
VBMS 7350	Advanced Large Animal Urogenital Surgery	5	Rush	
VBMS 7550	Pathology	1 to 3	Koehler	
VBMS 7570	Diagnostic Pathology	1 to 3	Newton	
VBMS 7580	Surgical Pathology	1 to 3	Koehler	
VBMS 7750	Graduate Colloquium in Veterinary Clinical Science	1	Gerken	
VBMS 7830	Advanced Small Animal Medicine III	3 to 5	Bergman	
VBMS 8950	Biomedical Sciences Seminar	1	Bird	
VBMS 8950	Biomedical Sciences Seminar	1	Panizzi	

Fall 2021

Course Number	Title of Course	Credit Hours	Course Coordinator	Pre-Requisite(s)
VBMS 6111	Veterinary Anatomy	4	Akingbemi	
VBMS 7020	Microscopic Anatomy I	3	Foradori	
VBMS 7070	Endocrinology	4	Huang	BCHE 7200, BCHE 7260, & BIOL 6600
VBMS 7140	Physiology I	5	Schwartz	
VBMS 7300	Avian Diagnostic Pathology	1 to 3	Joiner	
VBMS 7310	Advanced Veterinary Anesthesiology	1	Clark-Price	
VBMS 7320	Evaluation of Current and Emerging Literature in Veterinary Anesthesia	1	Clark-Price	
VBMS 7480	Methods in Immunology	5	Mishra/Suryawanshi	
VBMS 7530	Experimental Techniques in Molecular and Cellular Biology	3	Bird	
VBMS 7550	Pathology	1 to 3	Koehler	
VBMS 7570	Diagnostic Pathology	1 to 3	Newton	
VBMS 7580	Surgical Pathology	1 to 3	Koehler	
VBMS 7700	Combinatorial Biochemistry and Phage Display	4	Petrenko	
VBMS 7750	Graduate Colloquium in Veterinary Clinical Science	1	Gerken	
VBMS 7810	Advanced Small Animal Medicine I	3 to 5	Behrend	
VBMS 7830	Advanced Small Animal Medicine III	3 to 5	Bergman	
VBMS 8950	Biomedical Sciences Seminar	1	Bird	
VBMS 8950	Biomedical Sciences Seminar	1	Panizzi	

Spring 2022

Course Number	Title of Course	Credit Hours	Course Coordinator	Pre-Requisite(s)
VBMS 6121	Veterinary Anatomy II	3	Mansour	
VBMS 7030	Microscopic Anatomy II	3	Martin	
VBMS 7040	Advanced Physiology of Reproduction	3	Bartol	ANSC 3600 and BIOL 6240 or VBMS 7150
VBMS 7090	Clinical Pharmacology	3	Boothe	
VBMS 7110	Advanced Cardiovascular Physiology	5	Schwartz	
VBMS 7150	Physiology II	4	Kemppainen	VBMS 7140
VBMS 7180	Receptorology	4	Tao	VBMS 7070
VBMS 7300	Avian Diagnostic Pathology	1 to 3	Joiner	
VBMS 7310	Advanced Veterinary Anesthesiology	1	Clark-Price	
VBMS 7320	Evaluation of Current and Emerging Literature in Veterinary Anesthesia	1	Clark-Price	
VBMS 7360	Advanced Large Animal Soft Tissue Surgery	5	Caldwell	
VBMS 7400	Gynecology of Large Domestic Animals	3	Maxwell	
VBMS 7410	Andrology of Large Domestic Animals	3	Maxwell	
VBMS 7460	Bacterial Pathogenesis	3	Price	VBMS 7510 or BIOL 6260
VBMS 7500	Cellular and Molecular Immunology	3	Mishra/Suryawa	BIOL 6500
VBMS 7520	Eukaryotic Molecular Biology	3	Bird	
VBMS 7550	Pathology	1 to 3	Koehler	
VBMS 7570	Diagnostic Pathology	1 to 3	Newton	
VBMS 7580	Surgical Pathology	1 to 3	Koehler	
VBMS 7600	Advanced Clinical Pathology	3	Spangler	VMED 5230
VBMS 7750	Graduate Colloquium in Veterinary Clinical Sciences	1	Gerken	
VBMS 7830	Advanced Small Animal Medicine III	3 to 5	Bergman	
VBMS 8950	Biomedical Sciences Seminar	1	Bird	
VBMS 8950	Biomedical Sciences Seminar	1	Panizzi	

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Course Number	Title of Course	Credit Hours	Course Coordinator	Pre-Requisite(s)
VBMS 7010	Pathways to Successful Research	1	Wooldridge	
VBMS 7080	Molecular Endocrinology	2	Tao	
VBMS 7250	Normal Radiological Anatomy	3	Cole	
VBMS 7300	Avian Diagnostic Pathology	1 to 3	Joiner	
VBMS 7320	Evaluation of Current and Emerging Literature in Veterinary Anesthesia	1	Clark-Price	
VBMS 7400	Gynecology of Large Domestic Animals	3	Maxwell	
VBMS 7410	Andrology of Large Domestic Animals	3	Maxwell	
VBMS 7530	Experimental Techniques in Molecular and Cellular Biology	3	Bird	
VBMS 7550	Pathology	1 to 3	Koehler	
VBMS 7570	Diagnostic Pathology	1 to 3	Newton	
VBMS 7580	Surgical Pathology	1 to 3	Koehler	
VBMS 7640	Mechanisms of Disease	3	Joiner	
VBMS 7750	Graduate Colloquium in Veterinary Clinical Sciences	1	Gerken	
VBMS 7830	Advanced Small Animal Medicine III	3 to 5	Bergman	
VBMS 8950	Biomedical Sciences Seminar	1	Bird	
VBMS 8950	Biomedical Sciences Seminar	1	Panizzi	

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VBMS 6111	Veterinary Anatomy	4	Akingbemi	
VBMS 7020	Microscopic Anatomy I	3	Foradori	
VBMS 7140	Physiology I	5	Schwartz	
VBMS 7280	Physics of Diagnostic Imaging	3	Holland	
VBMS 7300	Avian Diagnostic Pathology	1 to 3	Joiner	
VBMS 7310	Advanced Veterinary Anesthesiology	1	Clark-Price	
VBMS 7320	Evaluation of Current and Emerging Literature in Veterinary Anesthesia	1	Clark-Price	
VBMS 7550	Pathology	1 to 3	Koehler	
VBMS 7570	Diagnostic Pathology	1 to 3	Newton	
VBMS 7580	Surgical Pathology	1 to 3	Koehler	
VBMS 7750	Graduate Colloquium in Veterinary Clinical Sciences	1	Gerken	
VBMS 7820	Advanced Small Animal Medicine II	3 to 5	McMichael	
VBMS 7830	Advanced Small Animal Medicine III	3 to 5	Bergman	
VBMS 7880	Advanced Veterinary Ophthalmology: Ophthalmic Medicine	3	Bellah	
VBMS 8360	Advanced Equine Medicine I: GI Disease	2	Schumacher	
VBMS 8950	Biomedical Sciences Seminar	1	Bird	
VBMS 8950	Biomedical Sciences Seminar	1	Panizzi	

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VBMS 6121	Veterinary Anatomy II	3	Mansour	
VBMS 7030	Microscopic Anatomy II	3	Martin	
VBMS 7150	Physiology II	5	Kemppainen	VBMS 7140
VBMS 7180	Receptorology	4	Tao	VBMS 7070
VBMS 7300	Avian Diagnostic Pathology	1 to 3	Joiner	
VBMS 7310	Advanced Veterinary Anesthesiology	1	Clark-Price	
VBMS 7320	Evaluation of Current and Emerging Literature in Veterinary Anesthesia	1	Clark-Price	
VBMS 7440	Advanced Equine Arthroscopic Surgery	5	Hanson	
VBMS 7500	Cellular and Molecular Immunology	3	Mishra/Suryawa	BIOL 6500
VBMS 7540	Current Topics in Molecular Virology	3	Van Santen	VBMS 7520, BIOL 6260
VBMS 7550	Pathology	1 to 3	Koehler	
VBMS 7570	Diagnostic Pathology	1 to 3	Newton	
VBMS 7580	Surgical Pathology	1 to 3	Koehler	
VBMS 7610	Advanced Clinical Pathology II	2	Spangler	VMED 5230
VBMS 7720	Developmental Molecular Biology	3	B. Smith	VBMS 7520
VBMS 7750	Graduate Colloquium in Veterinary Clinical Sciences	1	Gerken	
VBMS 7830	Advanced Small Animal Medicine III	3 to 5	Bergman	
VBMS 8950	Biomedical Sciences Seminar	1	Bird	
VBMS 8950	Biomedical Sciences Seminar	1	Panizzi	

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Course Number	Title of Course	Credit Hours	Course Coordinator	Pre-Requisite(s)
VBMS 7010	Pathways to Successful Research	1	Wooldridge	
VBMS 7130	Veterinary Medicine Diagnostic Ultrasonography	3	Holland	
VBMS 7210	Radiation Biology	4	Almond	
VBMS 7300	Avian Diagnostic Pathology	1 to 3	Joiner	
VBMS 7320	Evaluation of Current and Emerging Literature in Veterinary Anesthesia	1	Clark-Price	
VBMS 7550	Pathology	1 to 3	Koehler	
VBMS 7570	Diagnostic Pathology	1 to 3	Newton	
VBMS 7580	Surgical Pathology	1 to 3	Koehler	
VBMS 7750	Graduate Colloquium in Veterinary Clinical Sciences	1	Gerken	
VBMS 7830	Advanced Small Animal Medicine III	3 to 5	Bergman	
VBMS 8380	Advanced Equine Medicine III: Neuromuscular	2	Wooldridge	
VBMS 8950	Biomedical Sciences Seminar	1	Bird	
VBMS 8950	Biomedical Sciences Seminar	1	Panizzi	

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VBMS 6111	Veterinary Anatomy	4	Akingbemi	
VBMS 7020	Microscopic Anatomy I	3	Foradori	
VBMS 7070	Endocrinology	4	Huang	BCHE 7200, BCHE 7260, and BIOL 6600
VBMS 7140	Physiology I	5	Schwartz	VBMS 7140
VBMS 7300	Avian Diagnostic Pathology	1 to 3	Joiner	
VBMS 7310	Advanced Veterinary Anesthesiology	1	Clark-Price	
VBMS 7320	Evaluation of Current and Emerging Literature in Veterinary Anesthesia	1	Clark-Price	
VBMS 7380	Advanced Food Animal Medicine	3	Passler	
VBMS 7410	Andrology of Large Domestic Animals	3	Maxwell	
VBMS 7480	Methods in Immunology	5	Mishra/Suryawanshi	
VBMS 7530	Experimental Techniques in Molecular and Cellular Biology	3	Bird	
VBMS 7550	Pathology	1 to 3	Koehler	
VBMS 7570	Diagnostic Pathology	1 to 3	Newton	
VBMS 7580	Surgical Pathology	1 to 3	Koehler	
VBMS 7620	Diagnostic Oncology	3	Koehler	
VBMS 7750	Graduate Colloquium in Veterinary Clinical Science	1	Gerken	
VBMS 7820	Advanced Small Animal Medicine III	5	Bergman	
VBMS 8390	Advanced Equine Medicine IV: Cardiorespiratory	2	Wooldridge	
VBMS 8950	Biomedical Sciences Seminar	1	Bird	
VBMS 8950	Biomedical Sciences Seminar	1	Panizzi	

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VBMS 6121	Veterinary Anatomy II	3	Mansour	
VBMS 7030	Microscopic Anatomy II	3	Martin	
VBMS 7040	Advanced Physiology of Reproduction	3	Bartol	
VBMS 7090	Clinical Pharmacology	3	D. Boothe	
VBMS 7110	Advanced Cardiovascular Physiology	5	Schwartz	
VBMS 7150	Physiology 2	4	Kemppainen	VBMS 7140
VBMS 7180	Receptorology	4	Tao	VBMS 7070
VBMS 7220	Structure and Function of Animal Skin	3	Kennis	
VBMS 7300	Avian Diagnostic Pathology	1 to 3	Joiner	
VBMS 7310	Advanced Veterinary Anesthesiology	1	Clark-Price	
VBMS 7320	Evaluation of Current and Emerging Literature in Veterinary Anesthesia	1	Clark-Price	
VBMS 7370	Advanced Large Animal Orthopedic Surgery	5	Boone	
VBMS 7400	Gynecology of Large Domestic Animals	3	Maxwell	
VBMS 7410	Andrology of Large Domestic Animals	3	Maxwell	
VBMS 7460	Bacterial Pathogenesis	3	Price	VBMS 7510 or BIOL 6260
VBMS 7500	Cellular and Molecular Immunology	3	Mishra/Suryawa	BIOL 6500
VBMS 7520	Eukaryotic Molecular Biology	3	Bird	
VBMS 7550	Pathology	1 to 3	Koehler	
VBMS 7570	Diagnostic Pathology	1 to 3	Newton	
VBMS 7580	Surgical Pathology	1 to 3	Koehler	
VBMS 7600	Advanced Clinical Pathology I	3	Spangler	VMED 5230
VBMS 7750	Graduate Colloquium in Veterinary Clinical Science	1	Gerken	
VBMS 7780	Veterinary Wound Management and Reconstructive Surgery	4	Bellah	
VBMS 7830	Advanced Small Animal Medicine III	5	Bergman	
VBMS 7890	Advanced Veterinary Ophthalmology: Ophthalmic Basic Sciences	3	Bellah	
VBMS 8370	Advanced Equine Medicine II: Renal/Endocrine	2	Taintor	
VBMS 8950	Biomedical Sciences Seminar	1	Bird	
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VBMS 7010	Pathways to Successful Research	1	Wooldridge	
VBMS 7080	Molecular Endocrinology	2	Tao	
VBMS 7250	Normal Radiological Anatomy	3	Cole	
VBMS 7300	Avian Diagnostic Pathology	1 to 3	Joiner	
VBMS 7320	Evaluation of Current and Emerging Literature in Veterinary Anesthesia	1	Clark-Price	
VBMS 7350	Advanced Large Animal Urogenital Surgery	5	Rush	
VBMS 7400	Gynecology of Large Domestic Animals	3	Maxwell	
VBMS 7410	Andrology of Large Domestic Animals	3	Maxwell	
VBMS 7530	Experimental Techniques in Molecular and Cellular Biology	3	Bird	
VBMS 7550	Pathology	1 to 3	Koehler	
VBMS 7570	Diagnostic Pathology	1 to 3	Newton	
VBMS 7580	Surgical Pathology	1 to 3	Koehler	
VBMS 7640	Mechanisms of Disease	3	Joiner	
VBMS 7750	Graduate Colloquium in Veterinary Clinical Science	1	Gerken	
VBMS 7830	Advanced Small Animal Medicine III	5	Bergman	
VBMS 8950	Biomedical Sciences Seminar	1	Bird	
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VBMS 6111	Veterinary Anatomy	4	Akingbemi	
VBMS 7020	Microscopic Anatomy I	3	Foradori	
VBMS 7140	Physiology I	5	Schwartz	
VBMS 7300	Avian Diagnostic Pathology	1 to 3	Joiner	
VBMS 7310	Advanced Veterinary Anesthesiology	1	Clark-Price	
VBMS 7320	Evaluation of Current and Emerging Literature in Veterinary Anesthesia	1	Clark-Price	
VBMS 7550	Pathology	1 to 3	Koehler	
VBMS 7570	Diagnostic Pathology	1 to 3	Newton	
VBMS 7580	Surgical Pathology	1 to 3	Koehler	
VBMS 7700	Combinatorial Biochemistry and Phage Display	4	Petrenko	
VBMS 7710	Advanced Eukaryotic Molecular Biology	3	Van Santen	VBMS 7520
VBMS 7750	Graduate Colloquium in Veterinary Clinical Science	1	Gerken	
VBMS 7810	Advanced Small Animal Medicine I	5	Behrend	
VBMS 7830	Advanced Small Animal Medicine III	5	Bergman	
VBMS 8360	Advanced Equine Medicine I: GI Disease	2	Schumacher	
VBMS 8950	Biomedical Sciences Seminar	1	Bird	
VBMS 8950	Biomedical Sciences Seminar	1	Panizzi	

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VBMS 6121	Veterinary Anatomy II	3	Mansour	
VBMS 7030	Microscopic Anatomy II	3	Martin	
VBMS 7150	Physiology 2	4	Kemppainen	VBMS 7140
VBMS 7180	Receptorology	4	Tao	VBMS 7070
VBMS 7300	Avian Diagnostic Pathology	1 to 3	Joiner	
VBMS 7310	Advanced Veterinary Anesthesiology	1	Clark-Price	
VBMS 7320	Evaluation of Current and Emerging Literature in Veterinary Anesthesia	1	Clark-Price	
VBMS 7360	Advanced Large Animal Soft Tissue Surgery	5	Caldwell	
VBMS 7500	Cellular and Molecular Immunology	3	Mishra/Suryawa	BIOL 6500
VBMS 7540	Current Topics in Molecular Virology	3	van Santen	VBMS 7540
VBMS 7550	Pathology	1 to 3	Koehler	
VBMS 7570	Diagnostic Pathology	1 to 3	Newton	
VBMS 7580	Surgical Pathology	1 to 3	Koehler	
VBMS 7610	Advanced Clinical Pathology II	3	Spangler	VMED 5230
VBMS 7720	Development Molecular Biology	3	B. Smith	VBMS 7520
VBMS 7750	Graduate Colloquium in Veterinary Clinical Science	1	Gerken	
VBMS 7830	Advanced Small Animal Medicine III	5	Bergman	
VBMS 8950	Biomedical Sciences Seminar	1	Bird	
VBMS 8950	Biomedical Sciences Seminar	1	Panizzi	

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VBMS 7010	Pathways to Successful Research	1	Wooldridge	
VBMS 7210	Radiation Biology	4	Almond	
VBMS 7300	Avian Diagnostic Pathology	1 to 3	Joiner	
VBMS 7320	Evaluation of Current and Emerging Literature in Veterinary Anesthesia	1	Clark-Price	
VBMS 7550	Pathology	1 to 3	Koehler	
VBMS 7570	Diagnostic Pathology	1 to 3	Newton	
VBMS 7580	Surgical Pathology	1 to 3	Koehler	
VBMS 7750	Graduate Colloquium in Veterinary Clinical Science	1	Gerken	
VBMS 7830	Advanced Small Animal Medicine III	5	Bergman	
VBMS 8950	Biomedical Sciences Seminar	1	Bird	
VBMS 8950	Biomedical Sciences Seminar	1	Panizzi	