

## MICROBIOLOGY AND IMMUNOLOGY – VMS I, 2010

### MASTER SCHEDULE (Version 9-15-2009)

#### WEEK 1:

Date	Day	Time	Professor	Subject
Mar 22	Mon	7:30-8:00	Faculty	Meet your professor breakfast
		8:00-9:00	Van Kaer	Course introduction and overview
		9:00-10:00	Van Kaer	Introductory Lecture: Of Microbes and People, 2010
		1:00-2:00	Van Kaer	Immunology Lecture 1: A roadmap of the Department of Defense
		2:00-3:00	Van Kaer	Immunology Lecture 2: Cells and organs of the immune system
Mar 23	Tue	8:00-9:00	Van Kaer	Bacteriology Lecture 1: Principles of bacterial pathogenesis I
		9:00-10:00	Van Kaer	Bacteriology Lecture 2: Principles of bacterial pathogenesis II
		10:00-11:00	Aiken	Introduction to the Microbiology and Immunology Laboratory
		11:00-12:00	Van Kaer	Immunology Lecture 3: Innate Immunity I
Mar 24	Wed	8:00-9:00	Van Kaer	Immunology Lecture 4: Innate Immunity II
		9:00-10:00	Preceptors	Microbial Topic 1A: Sugar-coated microbe
		10:00-11:00	Van Kaer	Bacteriology Lecture 3: Bacterial genetics and antimicrobial resistance
		11:00-12:00	Aiken	Lab 1A: Immunology
Mar 25	Thu	8:00-9:00	Hawiger	Bacteriology Lecture 4: <i>Streptococci</i>
		9:00-10:00	Preceptors	Microbial Topic 1B: Sugar-coated microbe
		10:00-11:00	Hawiger	Bacteriology Lecture 5: <i>Staphylococci</i>
		11:00-12:00	Aiken	Lab 1B: Immunology
Mar 26	Fri	8:00-9:00	Hawiger	Bacteriology Lecture 6: Gram-negative bacterial surfaces and endotoxic shock
		9:00-10:00	Allos	Bacteriology Lecture 7: <i>Listeria</i> , <i>Nocardia</i> , and <i>Actinomyces</i>
		10:00-11:00	Denison/Creech	Global Perspective 1: Chief of Staff: MRSA's rise to power
		11:00-12:00	Van Kaer	Problem 1: Where B the T cells?

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### WEEK 2:

Date	Day	Time	Professor	Subject
Mar 29	Mon	8:00-9:00	Allos	Bacteriology Lecture 8: Anaerobes and spore formers: <i>Bacillus</i> , <i>Clostridia et al.</i>
		9:00-10:00	Allos	Bacteriology Lecture 9: The genus <i>Neisseria</i> : Meningococcus and Gonococcus
		1:00-2:00	Aiken	Lab 2A: Basic bacteriologic techniques
		2:00-3:00	Aiken	Lab 2A: Basic bacteriologic techniques
Mar 30	Tue	8:00-9:00	Van Kaer	Immunology Lecture 5: Humoral Immunity I
		9:00-10:00	Van Kaer	Immunology Lecture 6: Humoral Immunity II
		10:00-11:00	Aiken	Lab 2B: Basic bacteriologic techniques
		11:00-12:00	Aiken	Lab 2B: Basic bacteriologic techniques
Mar 31	Wed	8:00-9:00	Van Kaer	Immunology Lecture 7: Cell-mediated Immunity I
		9:00-10:00	Preceptors	Microbial Topic 2A: Fulminant spots and clots
		10:00-11:00	Van Kaer	Immunology Lecture 8: Cell-mediated Immunity II
		11:00-12:00	Denison/Bernard	Global Perspective 2: Sepsis
Apr 1	Thu	8:00-9:00	Edwards	Bacteriology Lecture 10: Agents of whooping cough ( <i>Bordetella</i> ) and otitis media/meningitis ( <i>Haemophilus</i> )
		9:00-10:00	Preceptors	Microbial Topic 2B: Fulminant spots and clots
		10:00-11:00	Aiken	Lab 3A: Evaluation of cocci and Gram-positive bacilli
		11:00-12:00	Aiken	Lab 3A: Evaluation of cocci and Gram-positive bacilli
		6:00-8:00	MDAS members	Tutorials for Online Exam 1
Apr 2	Fri	8:00-9:00	Allos	Bacteriology Lecture 11: Bacteria that understand macrophages: <i>Yersinia</i> , <i>Pasteurella</i> , <i>Francisella</i> and <i>Legionella</i>
		9:00-10:00	Van Kaer	Problem 2: Immunology review
		10:00-11:00	Aiken	Lab 3B: Evaluation of cocci and Gram-positive bacilli
		11:00-12:00	Allos	Problem 3: Who wants to be a microbiologist?

**NOTES: 1) Quiz #1 will be available April 1-7** (this quiz covers the Introductory Lecture, Immunology Lectures 1-8 and Bacteriology Lectures 1-11);  
**2) Sunday, April 4 is Easter**

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**WEEK 3:**

<b>Date</b>	<b>Day</b>	<b>Time</b>	<b>Professor</b>	<b>Subject</b>
Apr 5	Mon	8:00-9:00	Allos	Bacteriology Lecture 12: Enteric bacteria I
		9:00-10:00	Allos	Bacteriology Lecture 13: Enteric bacteria II
		1:00-2:00	Van Kaer	Immunology Lecture 9: Generation of an adaptive immune response to infection
		2:00-3:00	Allos	Problem 4: Bacterial pathogens on holiday
Apr 6	Tue	8:00-9:00	Allos	Bacteriology Lecture 14: <i>Pseudomonas</i> , <i>Acinetobacter</i> and <i>Mycoplasma</i>
		9:00-10:00	Allos	Bacteriology Lecture 15: xxx
		10:00-11:00	Aiken	Lab 4A: Evaluation of enteric Gram-negative bacilli
		11:00-12:00	Aiken	Lab 4A: Evaluation of enteric Gram-negative bacilli
Apr 7	Wed	8:00-9:00	Drake	Bacteriology Lecture 16: The captain of all the men of death: <i>Mycobacterium tuberculosis</i>
		9:00-10:00	Preceptors	Microbial Topic 3A: White plague strikes back
		10:00-11:00	Allos	Problem 5: Home-grown TB
		11:00-12:00	Aiken	Lab 4B: Evaluation of enteric Gram-negative bacilli
Apr 8	Thu	8:00-9:00	Allos	Bacteriology Lecture 17: Spirochetes: <i>Treponema</i> and <i>Borrelia</i>
		9:00-10:00	Preceptors	Microbial Topic 3B: White plague strikes back
		10:00-11:00	Allos	Bacteriology Lecture 18: Intracellular microbes: <i>Chlamydia</i> , <i>Rickettsiae</i> , and <i>Ehrlichia</i>
		11:00-12:00	Denison	Global Perspective 3: If you go out in the woods today ...
Apr 9	Fri	8:00-9:00	Van Kaer	Immunology Lecture 10: Signaling in the immune system
		9:00-10:00	Van Kaer	Problem 6: Puffy eyes, fever and rash
		10:00-11:00	Wright	Bacteriology Lecture 18: Antibiotics
		11:00-12:00	Denison/Creech	Global Perspective 4: Bioweapons

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### WEEK 4:

Date	Day	Time	Professor	Subject
Apr 12	Mon	8:00-9:00	Dummer	Mycology/Parasitology Lecture 1: Fungi: Systemic mycoses and opportunistic fungal infections
		9:00-10:00	Denison/Dummer	Global Perspective 5: Fungi
		1:00-2:00	Haas	Mycology/Parasitology Lecture 2: Protozoa
		2:00-3:00	Aiken	Lab 5A: Clinical unknowns
Apr 13	Tue	8:00-9:00	Haas	Mycology/Parasitology Lecture 3: Parasites I
		9:00-10:00	Haas	Mycology/Parasitology Lecture 4: Parasites II
		10:00-11:00	Van Kaer	Problem 7: Signatures of immune recognition
		11:00-12:00	Aiken	Lab 5B: Clinical unknowns
Apr 14	Wed	8:00-9:00	Van Kaer	Immunology Lecture 11: Hypersensitivities I
		9:00-10:00	Preceptors	Microbial Topic 4: Jet set headache
		10:00-11:00	Denison/Peebles	Global Perspective 6: Anaphylaxis
		11:00-12:00	Aiken	Lab 5C: Clinical unknowns
Apr 15	Thu	8:00-9:00	Van Kaer	Immunology Lecture 12: Hypersensitivities II
		9:00-10:00	Preceptors	Microbial Topic 5: Where have all the hepatocytes gone? (Long time passing)
		10:00-11:00	Van Kaer	Problem 8: Sore throat and inflamed kidneys
		11:00-12:00	Van Kaer	Problem 9: Immune responses against pathogens
		6:00-8:00	MDAS members	Tutorials for Online Exam 2
Apr 16	Fri	8:00-9:00	Aiken/Hill	Lab 6: Parasites
		9:00-10:00	Aiken/Hill	Lab 6: Parasites
		10:00-11:00	Van Kaer	Problem 10: Immunological memory and vaccines
		11:00-12:00	Denison	Global Perspective 7: Parasites

**NOTE: Quiz #2 will be available online April 16-18** (this quiz covers Immunology Lectures 9-12, Bacteriology Lectures 12-19, and Mycology/Parasitology Lectures 1-4)

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**WEEK 5:**

**April 19-22 – INTERSESSION #3**

<b>Date</b>	<b>Day</b>	<b>Time</b>	<b>Professor</b>	<b>Subject</b>
Apr 23	Fri	8:00-9:00	Dermody	Virology Lecture 1: Structure and function of viruses: Principles of viral pathogenesis
		9:00-10:00	Dermody	Virology Lecture 2: Structure and replication of a model RNA virus: Poliovirus
		10:00-11:00	Denison/Moses	Global Perspective 8: Kuru
		11:00-12:00	Dermody	Problem 11: What are viruses and how do they cause disease?

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**WEEK 6:**

<b>Date</b>	<b>Day</b>	<b>Time</b>	<b>Professor</b>	<b>Subject</b>
Apr 26	Mon	8:00-9:00	Denison	Virology Lecture 3: Viruses with positive-sense RNA genomes: Togaviruses and flaviviruses
		9:00-10:00	Williams	Virology Lecture 4: Viruses with negative-sense RNA genomes: Paramyxoviruses and rhabdoviruses
		1:00-2:00	Williams	Virology Lecture 5: The flu: Orthomyxoviruses
		2:00-3:00	Denison	Global Perspective 9: Global eradication of infectious diseases
Apr 27	Tue	8:00-9:00	Williams	Virology Lecture 6: Acute viral gastroenteritis: Rotaviruses and noroviruses
		9:00-10:00	Thomas	Immunology Lecture 13: Immunoregulation and tolerance
		10:00-11:00	Thomas	Immunology Lecture 14: Autoimmunity
		11:00-12:00	Denison/Thomas	Global Perspective 10: Autoimmunity
Apr 28	Wed	8:00-9:00	Dermody	Virology Lecture 7: Structure and function of a model DNA virus: Adenovirus
		9:00-10:00	Preceptors	Microbial Topic 6: Of chickens and men: Influenza in the 21 <sup>st</sup> century
		10:00-11:00	Dermody	Virology Lecture 8: How do DNA viruses cause cancer? (papillomaviruses and polyomaviruses)
		11:00-12:00	Allos/Williams/ Denison	Problem 12: Viruses with RNA genomes: lessons learned from hepatitis A
Apr 29	Thu	8:00-9:00	Dermody	Virology Lecture 9: Viruses that cause acute infections, establish latency, and are capable of recrudescence: The herpesviruses I
		9:00-10:00	Preceptors	Microbial Topic 7A: A tale of three decades
		10:00-11:00	Dermody	Virology Lecture 10: Viruses that cause acute infections, establish latency, and are capable of recrudescence: The herpesviruses II
		11:00-12:00	Dermody	Problem 13: Why would viruses bother to transform cells?
Apr 30	Fri	8:00-9:00	Van Kaer	Immunology Lecture 15: Tumor immunology
		9:00-10:00	Van Kaer	Immunology Lecture 16: Transplantation
		10:00-11:00	Van Kaer	Problem 14: Transplantation
		11:00-12:00	Denison/Schaefer	Global Perspective 11: Transplantation

**NOTE: Saturday, May 1 will be the Shade Tree Trot**

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**WEEK 7:**

<b>Date</b>	<b>Day</b>	<b>Time</b>	<b>Professor</b>	<b>Subject</b>
May 3	Mon	8:00-9:00	Kalams	Virology Lecture 11: Introduction to retroviruses
		9:00-10:00	Kalams	Virology Lecture 12: A modern plague: HIV
		1:00-2:00	Van Kaer	Immunology Lecture 17: Immunodeficiencies
		2:00-3:00	Van Kaer	Problem 15: Recurrent infection
May 4	Tue	8:00-9:00	Denison	Virology Lecture 13: Viruses that share a common tropism: The hepatitis viruses
		9:00-10:00	Dermody	Virology Lecture 14: Antiviral agents
		10:00-11:00	Aiken/Tang	Lab 7A: Virology
		11:00-12:00	Aiken/Tang	Lab 7A: Virology
		6:00-8:00	MDAS members	Tutorials for Online Exam 3
May 5	Wed	8:00-9:00	Aiken/Tang	Lab 7B: Virology
		9:00-10:00	Preceptors	Microbial Topic 7B: A tale of three decades
		10:00-11:00	Denison	Global Perspective 12: Emerging infectious diseases
		11:00-12:00	Faculty	Problem 16: Wheel of viruses
May 6	Thu	8:00-12:00		Self-directed study
May 7	Fri	9:00-11:00		Quiz 3

**WEEK 8:**

<b>Date</b>	<b>Day</b>	<b>Time</b>	<b>Professor</b>	<b>Subject</b>
May 10	Mon	8:00-12:00		Final Exam