

**Course Syllabus and Lesson Plan**  
**SCBM 332**  
**Medical Mycology and Parasitology**  
**Academic Year 2018: 19 September 2018 – 17 October 2018**

**Course Title:** Medical Mycology and Parasitology  
**Course Code:** SCBM 332  
**Total Credit:** 2(1-2-3)  
**Pre-Requisite:** SCBM 231 Fundamental Immunology  
SCBM 232 Fundamental Microbiology  
**Duration:** First semester  
**Course Homepage:** <http://www.sc.mahidol.ac.th/scmi/>

**Course Description:**

This class describes the biology of pathogenic fungi and parasites including classification, life cycle, interaction with hosts, pathogenesis and diseases. The host immune responses, treatment, transmission and control as well as laboratory diagnosis of fungal and parasitic infections are also discussed.

**Course Objectives:**

- After completing this course, students should be able to
1. describe the classification, life cycle, interaction with hosts as well as epidemiology of important pathogenic fungi and parasites
  2. describe the pathogenesis and host immune evasion by fungi and parasites
  3. describe the treatment of fungal and parasitic infection
  4. describe the transmission and control of fungal and parasitic diseases
  5. Perform basic laboratory diagnosis of fungal and parasitic infections

**Course Outlines:**

See course schedule on page 3

**Teaching Method:**

This course is taught by a mixture of lectures, laboratory and group discussion.

**Teaching Media**

Teaching aids include an overhead projector, a visual presentation device and LCD, a hard copy of power point presentation, and recommended reading materials.

**Evaluation of Student Achievement**

Student performance is evaluated as follows:

- |   |     |
|---|-----|
| Multiple choice examination                               | 80% |
| Laboratory practice and participation in class discussion | 20% |
- Assessment grade: A, B+, B, C+, C, D+, D, F

**Course Evaluation**

Questionnaire about contents, teaching processes, examinations and an instructor performance.

**Recommended Texts and Reading Materials**

1. Burton JB, Clint EC, Thomas NO. Human parasitology, 4<sup>th</sup> Edition; Elsevier, 2013
2. Sherris Medical Microbiology, 6<sup>th</sup> Edition; <http://accessmedicine.com/textbooks.aspx>
3. Jawetz, Melnick, & Adelberg's Medical Microbiology, 25e,;  
<http://accessmedicine.com/textbooks.aspx>
4. Reiss E, Shadomy HJ, Lyon GM. Fundamental Medical Mycology, 1st Edition; Wiley-Blackwell, 2011.

**Instructors**

Academic staffs from Department of Microbiology, Faculty of Science, Mahidol University

**Course Coordinators**

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## SCBM 332 Medical Mycology and Parasitology

### Course Schedule Academic Year 2018: 19 September 2018 –17 October 2018 (50 min/lecture)

Date	Time		Topics	Instructor
Wed 19 Sep	8:30-9:20	L1	Introduction to helminth and Cestodes of Medical Importance I	Sureemas
	9.30-10:20	L2	Cestodes of Medical Importance II and Trematodes of Medical Importance I	Sureemas
	10.30-11.20	L3	Trematodes of Medical Importance II	Sureemas
	11.30-12.20	L4	Nematodes of Medical Importance I	Sureemas
Fri 21 Sep	8:30-9:20	L5	Nematodes of Medical Importance II	Sureemas
	9.30-10.20	L6	Nematodes of Medical Importance III	Sureemas
	10.30-12.20	Lab1	Flat Worms of Medical Importance	Sureemas, Jinrapa, TA
Wed 26 Sep	8.30-9:20	L7	Arthropods of Medical Importance	Sureemas,
	9.30-11.20	Lab2	Nematodes of Medical Importance	Sureemas, Jinrapa, TA
	11.30-12.20	Lab3	Arthropods of Medical Importance	Sureemas, Jinrapa, TA
Fri 28 Sep	8:30-9:20	L8	Introduction to Protozoa	Tana
	9:30-10.20	L9	Protozoa of Medical Importance I	Tana
	10.30-11.20	L10	Protozoa of Medical Importance II	Tana
	11.30-12.20	L11	Protozoa of Medical Importance III	Tana
Mon 1 Oct	8.30-10.20	Lab 4	Protozoa of Medical Importance	Tana, Jinrapa, TA
	10:30-12:20		Group Discussion 3:	Tana
Wed 3 Oct	8:30-10.20		Group Discussion 4:	Tana
	10.30-11.20		Pathogenic Fungi and Mycoses	Suthep
	11.30-12.20		Superficial, Cutaneous and Sub-cutaneous Mycoses	Suthep
Fri 5 Oct	8:30-9:20	L14	Dimorphic and Systemic Mycoses	Suthep
	9.30:-10:20	L15	Laboratory Diagnosis, Antifungal Agents and Therapy	Suthep

	10:30-12:20	Lab 5	Examination of Common Environmental Fungi	Suthep, Duangnate, TA
Mon 8 Oct	8:30-12:20	Lab 6	Examination of Opportunistic and True Pathogenic Fungi	Suthep, Duangnate, TA
Wed 10 Oct	8:30-10:20		Group Discussion 5:	Suthep
	10:30-12:20		Q&A Fungi	Suthep
Fri 12 Oct	8:30-12:20		Tutorials	Sureemas, Tana, Suthep
Wed 17 Oct	9:00-12:00		SCBM 332 Exam	Sureemas, Tana, Suthep