

Jordan University of Science and Technology
Faculty of Veterinary Medicine
Department of Basic Veterinary Medical Sciences
2ed semester, 2013/2014

| Course Information | |
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| Course Title | Microbiology Techniques (one credit hour) |
| Course Number | VM 234 |
| Course Website | E. learning |
| Instructors | Dr. Yaser Tarazi & Dr. Mohammed Gariabeh |
| Office Location | G-3 |
| Office Phone | 22009 |
| Office Hours | Monday : 11-12 Wednesday: 11-12 |
| E-mail | tarazi@just.edu.jo |
| Lab. Assistant | |
| Course Description | |
| Demonstration and practicing of different methods of basic microbiology and methods of isolation, morphological, biochemical and serological identifications of important pathogens | |

Syllbus

| Lab. Session (3 hours) | Topics |
|---------------------------|---|
| 1. | Lab safety and Equipments; Microscope, laminar flow, incubator, autoclave, and instruments.... |
| 2. | Bacterial film, simple and differential stain (Gram's stain method) |
| 3. | Special stain (spore, capsule and Albert stain) |
| 4. | Media preparation and Sterilization techniques |
| 5. | Culture methods, Cultivation and bacterial count |
| 6. | Antimicrobial susceptibility test |
| 7. | Mid-term Exam |
| 8. | Biochemical reactions I (catalase, oxidase, coagulase, DNase, starch hydrolysis and gelatin liquefaction) |

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| 9. | Staphylococcc and Streptococci |
| 10. | Corynebacterium and Bacillus |
| 11. | Biochemical reactions II (CHO-fermentation, KIA, IMViC and O-F test) |
| 12. | <i>Escherichia coli</i> and Klebsiella |
| 13. | <i>Pseudomonas aeruginosa</i> and Proteus |
| 14. | Revision (open lab) |
| 15. | Final exam |
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| Text Book | |
|-----------|---|
| Title 3 | Diagnostic Microbiology |
| Author(s) | Baily & Scott |
| Publisher | Mosby, Elsevier |
| Year | 2007 |
| Edition | 12 th ed. |

| Assessment Policy | | |
|---|---|--------|
| Assessment Type | Expected Due Date | Weight |
| Mid-term Exam | 5-6 th weeks of the course, 2013 | 40% |
| Quizzes, reports, attendance and participations | Through the course time | 20% |
| Final Exam | January, 2014 | 40% |
| Total | | 100% |