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## SCIENZE BIOMEDICHE

8 CFU - 1° Semester

### Teaching Staff

**VENERA MAZZONE** - Module ANATOMIA UMANA - BIO/16 - 2 CFU

**Email:** venemaz@unict.it

**Office:** Comparto 10 Edificio A-3° Piano- Via S.Sofia 87-95123 Catania

**Phone:** 095-3782040

**Office Hours:** giovedì e venerdì dalle 11.30 alle 13.30

**ROBERTO AVOLA** - Module Biochemistry - BIO/10 - 2 CFU

**Email:** ravola@unict.it

**Office:** Torre Biologica, Torre Sud, 4° piano studio 35, Via Santa Sofia 97

**Phone:** 0954781150

**Office Hours:** previo appuntamento ravola@unict.it

**AGOSTINO PALMERI** - Module FISILOGIA - BIO/09 - 2 CFU

**Email:** apalmeri@unict.it

**Office:** Ed. 1 - I piano - Policlinico - Via s. Sofia

**Phone:** 095-3781333

**Office Hours:** venerdì ore 11-13

**ADRIANA GAROZZO** - Module General and applied microbiology - MED/07 - 2 CFU

**Email:** agar@unict.it

**Office:** Dipartimento di Scienze Biomediche e Biotecnologiche - Sezione di Microbiologia - Torre Biologica (Torre SUD 3° piano) Via Santa Sofia n. 97 - 95123 CATANIA

**Phone:** 0954781236

**Office Hours:** Vedi Scheda Docente Dipartimento di Scienze Biomediche e Biotecnologiche

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### DETAILED COURSE CONTENT

#### ▪ ANATOMIA UMANA

The course includes the fundamentals of the anatomical organization, systems that belong the human body and applications of Topographical, Radiological and Clinical Anatomy.

#### ▪ General and applied microbiology

1. Introduction to Microbiology: the pathogenic mechanisms of microorganisms, microorganism-host relationships.
2. The bacteria: the organization of the bacterial cell; mechanisms of bacterial pathogenesis: role of bacteria in disease.
3. Funghi: fungal cell structure; mechanisms of fungal pathogenesis.

4. Virus: Characteristics of virus and their replication; mechanisms of viral pathogenesis; types of viral infection: acute and persistent infection.
5. The antimicrobial chemotherapy: the main characteristics of antimicrobial drugs and their mechanisms of resistance.
6. Vaccines.
7. General principles of laboratory diagnostics of infectious diseases.
8. General principles of sterilization, disinfection, and antisepsis.
9. Infections of the skin, bones and joints.
10. Infections of the uro-genital tract.
11. Infections of the fetus and the newborn.
12. Infections of the Respiratory tract. Tuberculosis.
13. Infections of the gastrointestinal tract.
14. Infections of the nervous system.
15. Opportunistic and nosocomial infections.

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## TEXTBOOK INFORMATION

### ▪ **ANATOMIA UMANA**

1. Ambrosi G. et Al.: Anatomia dell'Uomo, Ed. Edi-Ermes
2. Hole's Anatomia e Fisiologia per le professioni sanitarie, Ed. McGraw-Hill
3. Martini, Timmons, Tallitsch - Anatomia Umana - Quinta edizione EdISES

### ▪ **Biochemistry**

1. Siliprandi-Tettamanti. Biochimica Medica. Piccin.
2. Nelson Cox. I principi di Biochimica di Lehninger. Zanichelli
3. Devlin. Biochimica con aspetti clinici. EdISES
4. Berg Jeremy M. - Tymoczko John L. - Stryer Lubert. Biochimica. Ed. Zanichelli

### ▪ **General and applied microbiology**

- Cevenini R., Sambri V., Microbiologia e microbiologia clinica, Per i Corsi di Laurea in professioni sanitarie - Ed. Piccin

All students can use didactic material downloadable from the [studium.unict.it](http://studium.unict.it) web site.

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