

**PROFESSIONALIZING ACTIVITIES - FIRST YEAR****1<sup>st</sup> year - 2CFU**

<b>Skills</b>	<b>Content</b>	<b>CFU</b>	<b>Location</b>
<b>PRESENTATION: OBJECTIVES / METHODS / VERIFICATION</b>	Presentation of the first year skills - presentation of the organization of activities; - knowledge acquisition methodology; - method of verification of the objective.	<b>0.2</b>	<b>learn.univpm.it</b>
<b>APPLIED GENETICS</b>	1. Human cytogenetics: the normal human karyotype; study methodologies; anomalies in the number and structure of autosomes and sex chromosomes; genomic imprinting and uniparental disomy pathology. 2. Genetics of tumors. 3. Diagnosis and prevention of hereditary diseases, gene therapy..	<b>0.4</b>	<b>Classroom</b>
<b>BIOCHEMISTRY OF MACROMOLECULES AND APPLICATION</b>	1. Guidelines for proper nutrition; nutritional needs in different age groups 2. Diet, weight control, body mass indexes (body mass index, waist circumference, waist/hip ratio, bioimpedance and plicometry) 3. Food choices 4. Tools for assessing eating habits and lifestyles 5. Consultation of scientific and informative material 6. PCR, agarose gel electrophoresis and Real-Time PCR	<b>0.9</b>	<b>Classroom</b>
<b>LABORATORY EXERCISES (Histology)</b>	To describe and recognize histological preparations using the light microscope.	<b>0.5</b>	<b>Lab of microscopes</b>

**PROFESSIONALIZING ACTIVITIES - SECOND YEAR**
**2<sup>nd</sup> year - 3 CFU**

<b>Skills</b>	<b>Contents</b>	<b>CFU</b>	<b>Location</b>
<b>PRESENTATION: OBJECTIVES / METHODS / VERIFICATION</b>	Presentation of the second year skills: - Presentation of the organization of activities - Knowledge acquisition methodology - Objectives assessment methods	<b>0.2</b>	<b>learn.univpm.it</b>
<b>LABORATORY EXERCISES (Anatomy)</b>	Macroscopic and microscopic evaluation of musculoskeletal segments, splanchnic organs, and central and peripheral nervous system areas.	<b>0.6</b>	<b>Lab of microscopes</b>
<b>LABORATORY OF PHYSIOLOGY</b>	1. Pressure curve analysis (venous and arterial) 2. Application of mathematical models 3. Applied principles of hemodynamics 4. ECG wave 5. <del>Applied spirometry</del>	<b>0.6</b>	<b>Skill lab</b>
<b>FIRST AID</b>	1. Emergency/Urgency 2. Vital functions 3. Management of vital functions by unqualified personnel while awaiting for specialized personnel	<b>0.3</b>	<b>Skill lab</b>
<b>HEALTH ALARM</b>	Healthcare organization of the Marche Region with particular reference to emergency management (pre- hospital organization and intra-hospital organization)	<b>0.3</b>	<b>Classroom</b>