



Curriculum for the Department of Biomedical Sciences (Bologna Process)

FIRST YEAR

| 1 st Semester | | | | | | | | | | |
|--------------------------|----------|-------------------|--------------|-------------|-------------|-----------------|-------------|--------------|-----------|------|
| No. | Code | Module Title | CL (hr/w) | L (hr/w) | P (hr/w) | Clin. (hr/w) | T (hr/w) | ECTS | Units | Type |
| 1 | CUE33001 | Human Biology | 2 | 3 | - | - | - | 5.00 | 3 | C |
| 2 | CUE32002 | Cell Biology | 2 | 3 | - | - | - | 5.00 | 3 | C |
| 3 | CUE54001 | General Chemistry | 2 | 3 | - | - | - | 5.00 | 3 | S |
| 4 | CUE61001 | General English | 2 | - | 6 | - | - | 5.00 | 5 | B |
| 5 | CUE31001 | Computer Skills | - | 4 | - | - | - | 5.00 | 2 | B |
| 6 | CUE66001 | Kurdistan Studies | 3 | - | - | - | - | 5.00 | 3 | B |
| | CUE66002 | Kurdish Language | | | | | | | | |
| TOTAL | | | 11 | 13 | 6 | 0 | 0 | 30.00 | 19 | |

| 2 nd Semester | | | | | | | | | | |
|--------------------------|----------|---------------------------|--------------|-------------|-------------|-----------------|-------------|--------------|-----------|------|
| No. | Code | Module Title | CL (hr/w) | L (hr/w) | P (hr/w) | Clin. (hr/w) | T (hr/w) | ECTS | Units | Type |
| 1 | CUE33011 | Biosafety and Biosecurity | 2 | 3 | - | - | - | 5.00 | 3 | C |
| 2 | CUE51012 | Human Anatomy | 2 | 3 | - | - | - | 4.00 | 3 | C |
| 3 | CUE32012 | Biophysics | 2 | 3 | - | - | - | 4.00 | 3 | S |
| 4 | CUE33012 | Biomedical Terminology | 2 | - | - | - | - | 2.00 | 2 | S |
| 5 | CUE61002 | Academic English | 2 | - | 6 | - | - | 5.00 | 5 | B |
| 6 | CUE31014 | Academic Computing | - | 4 | - | - | - | 5.00 | 2 | B |
| 7 | CUE82001 | Academic Debate | 3 | - | - | - | - | 5.00 | 3 | B |
| TOTAL | | | 13 | 13 | 6 | 0 | 0 | 30.00 | 21 | |



SECOND YEAR

3rd Semester

| No. | Code | Module Title | CL (hr/w) | L (hr/w) | P (hr/w) | Clin. (hr/w) | T (hr/w) | ECTS | Units | Type |
|--------------|----------|--|--------------|-------------|-------------|-----------------|-------------|--------------|-----------|------|
| 1 | CUE33021 | Microbiology | 3 | 3 | - | - | - | 5.00 | 4 | C |
| 2 | CUE33022 | Medical Helminthology and Entomology | 2 | 3 | - | - | - | 5.00 | 3 | C |
| 3 | CUE32022 | Basic Histology | 2 | 3 | - | - | - | 5.00 | 3 | C |
| 4 | CUE33023 | Biomedical Investigations and Laboratory Practices | 2 | 3 | - | - | - | 4.00 | 3 | C |
| 5 | CUE32026 | Biochemistry (Proteins and Nucleic Acids) | 2 | 3 | - | - | - | 4.00 | 3 | S |
| 6 | CUE54054 | Pharmacology | 2 | - | - | - | - | 4.00 | 2 | S |
| 7 | CUE33024 | First Aid | 1 | - | 3 | - | - | 3.00 | 2 | S |
| TOTAL | | | 14 | 15 | 3 | 0 | 0 | 30.00 | 20 | |

4th Semester

| No. | Code | Module Title | CL (hr/w) | L (hr/w) | P (hr/w) | Clin. (hr/w) | T (hr/w) | ECTS | Units | Type |
|--------------|----------|---|--------------|-------------|-------------|-----------------|-------------|--------------|-----------|------|
| 1 | CUE33031 | Medical Bacteriology | 2 | 3 | - | - | - | 5.00 | 3 | C |
| 2 | CUE33032 | Medical Protozoology | 2 | 3 | - | - | - | 5.00 | 3 | C |
| 3 | CUE32032 | Systemic Histology | 2 | 3 | - | - | - | 5.00 | 3 | C |
| 4 | CUE51033 | Human Physiology | 2 | 3 | - | - | - | 4.00 | 3 | C |
| 5 | CUE33033 | Human Embryology | 2 | 3 | - | - | - | 5.00 | 3 | S |
| 6 | CUE32036 | Biochemistry (Carbohydrates and Lipids) | 2 | 3 | - | - | - | 4.00 | 3 | S |
| 7 | CUE33034 | Communication Skills | 2 | - | - | - | - | 2.00 | 2 | S |
| TOTAL | | | 14 | 18 | 0 | 0 | 0 | 30.00 | 20 | |



THIRD YEAR

5th Semester

| No. | Code | Module Title | CL (hr/w) | L (hr/w) | P (hr/w) | Clin. (hr/w) | T (hr/w) | ECTS | Units | Type |
|--------------|----------|-------------------------------------|--------------|-------------|-------------|-----------------|-------------|--------------|-----------|------|
| 1 | CUE33041 | Human Genetics | 2 | 3 | - | - | - | 5.00 | 3 | C |
| 2 | CUE33042 | Medical Mycology | 2 | 3 | - | - | - | 5.00 | 3 | C |
| 3 | CUE32062 | Basic Immunology | 2 | 3 | - | - | - | 5.00 | 3 | C |
| 4 | CUE32043 | Food and Industrial Microbiology | 2 | 3 | - | - | - | 4.00 | 3 | C |
| 5 | CUE33043 | Public Health and Pollution | 2 | 3 | - | - | - | 4.00 | 3 | S |
| 6 | CUE32047 | Biostatistics | 3 | - | - | - | - | 4.00 | 3 | S |
| 7 | CUE33044 | Psychology | 2 | - | - | - | - | 3.00 | 2 | S |
| TOTAL | | | 15 | 15 | 0 | 0 | 0 | 30.00 | 20 | |

6th Semester

| No. | Code | Module Title | CL (hr/w) | L (hr/w) | P (hr/w) | Clin. (hr/w) | T (hr/w) | ECTS | Units | Type |
|--------------|----------|--|--------------|-------------|-------------|-----------------|-------------|--------------|-----------|------|
| 1 | CUE32055 | Endocrinology | 2 | 3 | - | - | - | 5.00 | 3 | C |
| 2 | CUE33051 | Medical Virology | 2 | 3 | - | - | - | 5.00 | 3 | C |
| 3 | CUE33052 | Medical Immunology | 2 | 3 | - | - | - | 5.00 | 3 | C |
| 4 | CUE33053 | Antimicrobial Agents and Resistance | 2 | 3 | - | - | - | 4.00 | 3 | C |
| 5 | CUE33054 | Nutrition, Metabolism and Diseases | 3 | - | - | - | - | 4.00 | 3 | S |
| 6 | CUE33055 | Research Methods and Ethics | 2 | - | - | - | 1 | 4.00 | 2 | S |
| 7 | CUE33056 | Medical Instruments | 1 | - | 3 | - | - | 3.00 | 2 | S |
| TOTAL | | | 14 | 12 | 3 | 0 | 1 | 30.00 | 19 | |



FOURTH YEAR

7th Semester

| No. | Code | Module Title | CL (hr/w) | L (hr/w) | P (hr/w) | Clin. (hr/w) | T (hr/w) | ECTS | Units | Type |
|--------------|----------|---|--------------|-------------|-------------|-----------------|-------------|--------------|-----------|------|
| 1 | CUE33061 | Molecular Microbiology | 2 | 3 | - | - | - | 5.00 | 3 | C |
| 2 | CUE33062 | Laboratory Diagnostic Techniques and Management | 2 | 3 | - | - | - | 5.00 | 3 | C |
| 3 | CUE33063 | Epidemiology and Infectious Diseases | 3 | - | - | - | - | 4.00 | 3 | C |
| 4 | CUE32064 | Molecular Biology | 3 | - | - | - | - | 4.00 | 3 | C |
| 5 | CUE33064 | Biotechnology and Bioinformatics | 3 | - | - | - | - | 5.00 | 3 | E |
| 6 | CUE33065 | Haematology | 1 | 3 | - | - | - | 4.00 | 2 | E |
| 7 | CUE33080 | Graduation Project | - | - | 2 | - | - | 3.00 | 1 | C |
| TOTAL | | | 14 | 9 | 2 | 0 | 0 | 30.00 | 18 | |

8th Semester

| No. | Code | Module Title | CL (hr/w) | L (hr/w) | P (hr/w) | Clin. (hr/w) | T (hr/w) | ECTS | Units | Type |
|--------------|----------|---|--------------|-------------|-------------|-----------------|-------------|--------------|-----------|------|
| 1 | CUE33071 | Occupational and Hospital Acquired Infections | 2 | 3 | - | - | - | 6.00 | 3 | C |
| 2 | CUE33072 | General Pathology | 2 | 3 | - | - | - | 5.00 | 3 | C |
| 3 | CUE54051 | Toxicology | 2 | 3 | - | - | - | 5.00 | 3 | C |
| 4 | CUE32073 | Tumor Biology | 3 | - | - | - | - | 5.00 | 3 | E |
| 5 | CUE33073 | Electronic Medical Records | 1 | 3 | - | - | - | 4.00 | 2 | E |
| 6 | CUE33080 | Graduation Project | - | - | 2 | - | - | 5.00 | 1 | C |
| TOTAL | | | 10 | 12 | 2 | 0 | 0 | 30.00 | 15 | |

إقليم كوردستان - العراق

جامعة جيهان - أربيل

كلية العلوم

قسم العلوم الحياتية الطبية



Kurdistan Region – Iraq

Cihan University - Erbil

College of Science

Department of Biomedical Sciences

هەرێمی کوردستان - عێراق

زانکۆی جيهان - ههولێر

کۆلیژی زانست

بەشی بايۆلۆجی پزشکی

| | | | |
|--------------------------------|-----------------|------------------------------|---------------------|
| Total CL (Class Lecture) = | 105 hrs. | Total ECTS of C (Core) = | 137 (57.08%) |
| Total L (Laboratory) = | 107 hrs. | Total ECTS of S (Support) = | 55 (22.92%) |
| Total P (Practical Training) = | 22 hrs. | Total ECTS of B (Basic) = | 30 (12.50%) |
| Total Clin. (Clinical) = | 0 hrs. | Total ECTS of E (Elective) = | 18 (7.50%) |
| Total T (Tutorial) = | 1 hr. | Total ECTS = | 240 |
| Total Hours = | 235 hrs. | Total Units = | 152 |