

**HARRAN UNIVERSITY FACULTY OF ARTS & SCIENCE  
BIOLOGY DEPARTMENT**

Name of the course	Code of the course	Semestre	T + P	Credits	ECTS
Endocrinology	0804853	8	2+0	2	3

<b>Course prerequisite</b>	N/A
----------------------------	-----

<b>Language of the course</b>	Turkish
<b>Type of the course (Obligatory/Elective)</b>	Elective
<b>Name of the instructor who taught the course last semester</b>	Assist. Prof. Dr. Hatice (Gümüřhan) AKTAř
<b>Aim and goals of the course</b>	At the end of the course, it is aimed that students have knowledge about hormones, their effects and mechanisms.
<b>Learning Outcomes of the Course</b>	<b>At the end of this course the students;</b> <ol style="list-style-type: none"> <li>1. have information about communication mechanisms between cells.</li> <li>2. learn the structure of endocrine glands.</li> <li>3. comprehend the chemical structures of the hormones, their effects, and how hormones are released.</li> <li>4. learn the mechanisms of action of hormones on target cells.</li> <li>5. knowledge about endocrine structures, working patterns and releasing hormones as well as functions of these hormones.</li> </ol>
<b>Contents of the course</b>	Communication mechanisms between cells; Structure of endocrine glands; Chemical structures of hormones - effects; Release of hormones; Mechanisms of action of hormones on target cells; Endocrine structures and working patterns will be discussed.

Weeks	Semester Teaching Plan
1	Introduction – How do the cells communicate?
2	Structure of endocrine glands
3	Chemical structures of hormones
4	The effects of hormones
5	Release of hormones, Mechanisms of action of hormones on target cells
6	Endocrine structures and their working patterns: Hypothalamus
7	Pituitary gland: Structure – Hormones – Functions
8	Midterm
9	Thyroid gland: Structure – Hormones – Biosynthesis of hormones – Functions
10	Parathyroid gland – Parathyroid hormones
11	Endocrine part of Pancreas
12	Gastrointestinal hormones
13	Adrenal glands: Hormones - Functions
14	Reproductive Endocrinology

<b>General Competences</b>
----------------------------

Learning the structure of endocrine glands, Understanding chemical structures of hormones, Understanding the mechanisms of action of hormones on target cells.
--

<b>References</b>
-------------------

- |   |
|---|
| <ol style="list-style-type: none"><li>1. GASS, G.H., KAPLAN, H.M., 1982, Handbook of Endocrinology. CRC Press Inc., Florida.</li><li>2. GORBMAN, A., DICKHOFF, W.W., VIGNA, S.R., CLARK, N.B., RALPH, C.L., 1983, Comparative Endocrinology, Wiley, New York.</li></ol> |
|---|

<b>Evaluation</b>
-------------------

Midterm: 40% Final exam: 60%
---------------------------------