# Histology and Cytology (Special) Course Specifications (2012 - 2013)

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|---|---|
| **Program(s) on which the course is given:** | BVSc |
| **Department offering the program:** | Histology and Cytology |
| **Department offering the course:** | Histology and Cytology |
| **Major or Minor element of programs:** | Major |
| **Academic year /Level:** | 2nd Year 1st semester |
| **Date of specification approval:** | |

## A. BASIC INFORMATION

**Title**: Histology and Cytology (Special) **Code**: 2AHIS
**Hours** (hrs/week):
**Lectures** 2hr/week **Practical** 2hr/week **Total** 60hrs/semester

## B. PROFESSIONAL INFORMATION

**1. Overall aims of the course**:
To familiarize students with the basic information about the characteristics and functions of the male genital, female genital, endocrine systems, eye, ear and integument as well as fish and avian histology and compare between them and those of mammals'.

**2. Intended Learning Outcomes (ILOs) of the Course**:

**a. Knowledge and Understanding:**

- **a.1.** Understand the principle component of the male genital, female genital, endocrine systems, integument, eye, ear, fish and avian tissues and organs.
- **a.2.** Understand the difference in fish and avian tissues, organs and systems structures.
- **a.3.** Understand the structure of each organ of male and female genital systems, endocrine glands, integument, eye and ear and the functions of them.
- **a.1.** Understand the principle component of the male genital, female genital, endocrine systems, integument, eye, ear, fish and avian tissues and organs.
- **a.2.** Understand the difference in fish and avian tissues, organs and systems structures.
- **a.3.** Understand the structure of each organ of male and female genital systems, endocrine glands, integument, eye and ear and the functions of them.

**b. Intellectual Skills:**

- **b.1.** The ability to analyze the diversity of knowledge in the term of structure of the male genital, female genital, endocrine systems, integument, eye, ear, fish and avian tissues and organs.
- **b.2.** The ability to distinguish, with evidence, how each part of those tissues, organs and systems appear under the microscope.
- **b.3** Relate functions of those tissues and organ system to their structures

**c. Professional and Practical Skills:** The new veterinary graduate should be able to:

- **c.1.** Recognize the histological techniques suitable for studying the male genital, female genital, endocrine systems, integument, eye, ear, fish and avian tissues and organs.
- **c.2.** When given a section of mammalian, fish or avian tissue under a microscope or

a magnified picture of a tissue to identify the tissue, the cells that it contains and other visible structures of that tissue.

**c.3.** Distinguish between the normal an abnormal cellular and tissue structures.

**d. General and Transferable Skills:** The graduate must be able to:

**d.1.** The ability to use simple word and IT skills (i.e., data processing, software, internet, and multimedia) and the library to find information.

**d.2.** The ability to be self-motivated learners and responsive to feedback.

**d.3.** Working in team (i.e., sharing presentations and discussions and solving problem).

**d.4.** Enhancement of research capability through working in independent projects.

**3. Contents**:

**1st Semester**

| Topic | No. of hours | Lectures | Practical |
|---|---|---|---|
| Male genital system I | 4hrs | 2 | 2 |
| Male genital system II | 4hrs | 2 | 2 |
| Female genital system I | 4hrs | 2 | 2 |
| Female genital system II | 4hrs | 2 | 2 |
| Endocrine system I | 4hrs | 2 | 2 |
| Endocrine system II | 4hrs | 2 | 2 |
| Integument I | 4hrs | 2 | 2 |
| Integument II | 4hrs | 2 | 2 |
| Special senses I | 4hrs | 2 | 2 |
| Special senses II | 4hrs | 2 | 2 |
| Special senses III | 4hrs | 2 | 2 |
| Fish Histology I | 4hrs | 2 | 2 |
| Fish Histology II | 4hrs | 2 | 2 |
| Avian Histology I | 4hrs | 2 | 2 |
| Avian Histology II | 4hrs | 2 | 2 |

**4. Teaching and Learning Methods**:

**4.1. Lectures**

**4.2. Practical** (tutor presentation followed by students' small group sessions).

**4.3.Independent** (Laboratory and home assignments supervised by tutor):

**a)** Writing reports/assignments.

**b)** Preparation of colored posters and slide presentations.

**c)** Preparation of slides.

**c)** d) Group discussion.

**4.4 Computer Courseware:** For independent student can be accessed at the education centre: CLIVE standalone programs and any other recently developed web-based courseware.

**Methods for disabled students:**

No special arrangements are available now; however those students can consult our staff for help.

**5. Student Assessment Methods**:

| | Exam | |
|---|---|---|
| **5.1** | Mid and final term | Written examinations to assess knowledge and understanding. |
| **5.2** | Periodical examinations | to assess general and transferable skill sun |
| **5.3** | Practical Final-term | To assess professional and practical skills |
| **5.4** | Oral Final-term | To assess intellectual skills, understanding of topics and ways of thinking in resolving problems. |

**Assessment Schedule**

| | Exam | Week |
|---|---|---|
| **Assessment 1** | Written Mid-term | 6th |
| **Assessment 2** | Written Final-term | 15th |
| **Assessment 3** | Practical Final-term | 15th |
| **Assessment 4** | Oral Final-term | 15th |

**Weighing of assessments** (in each semester):

| | Exam | Per Semester (%) | Total (%) |
|---|---|---|---|
| **Assessment 1** | Written Mid-term | 10 | 10 |
| **Assessment 2** | Written Final-term | 25 | 25 |
| **Assessment 3** | Practical Final-term | 5 | 5 |
| **Assessment 4** | Oral Final-term | 10 | 10 |
| | **Total** | **50** | **50** |

**6. List of References**:

**6.1. Course Notes**:

- Lectures Notes
- Practical Notes

**6.2. Essential Books:**

- Dellmann and Eurell (1998) Fifth edition.
- Junqueira (1995) eighth edition.
- Ham's Histology (1987) ninth edition.

**6.3. Recommended Books:**

- Dellmann and Eurell (1998) Fifth edition.

**6.4. Periodicals, websites, ….etc**

- http://www.histology.to/links.html

**7. Facilities Required for Teaching and Learning**

- Computers (laptop.)
- Data show projector.
- Slide projectors.
- Overhead projectors.

**Course Coordinator:** Dr/Mohamed Aref Elnasharty

**Head of Department:** Dr/Mohamed Aref Elnasharty

**Date:**