



---

# STANDARD COURSE OUTLINE

---

Annex 3



|                                                |                                                                                                                                                                      |                                     |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Hashemite University</b>                    |   | <b>Special Topics</b><br>1801042495 |
| <b>Faculty of Science</b>                      |                                                                                                                                                                      | <b>Pre-requisite:</b>               |
| <b>Department of Biology and Biotechnology</b> |                                                                                                                                                                      |                                     |

### Course Information

|                      |                                                    |
|----------------------|----------------------------------------------------|
| Lecture's Time       | 5:30-6:30 PM Sunday, Tuesday and Thursday          |
| Lecture Room         | Online                                             |
| Instructor           | Professor Rana Dajani                              |
| Office Location      | 219 Biology Building                               |
| Office Hours         | By appointment                                     |
| <b>Text Book</b>     |                                                    |
| <b>References(s)</b> | Articles provided by instructor on Course website. |

### Grading Policy:

#### Theory

1<sup>st</sup> Exam 30 %

2<sup>nd</sup> Exam 30 %

Final Exam

40%

| Course Objectives                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"><li>1. how to read, analyse and critique an article</li><li>2. how to do literature research on the net</li><li>3. to improve scientific language</li><li>4. how to present and defend a piece of research</li><li>5. learn communication and internet skills</li><li>6. to boost confidence</li><li>7. To be introduced to a wide range of topics in biology and biotechnology</li><li>8. To be up to date with the latest research in biology and biotechnology</li></ol> |
| Teaching and Learning Methods                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p>Power point presentations<br/>Internet<br/>Critique and defense of scientific articles<br/>Team Work</p>                                                                                                                                                                                                                                                                                                                                                                                                   |

---

## **Course Contents**

**Week Topic**

- |           |                                                 |
|-----------|-------------------------------------------------|
| <b>1</b>  | <b>introduction</b>                             |
| <b>2</b>  | <b>How to critique: Article 1 discussion</b>    |
| <b>3</b>  | <b>How to critique: Article 2 discussion</b>    |
| <b>4</b>  | <b>Epigenetics</b>                              |
| <b>5</b>  | <b>Human Biology</b>                            |
| <b>6</b>  | <b>First Exam</b>                               |
| <b>7</b>  | <b>Bioinformatics, Data sets and ethics</b>     |
| <b>8</b>  | <b>Nature special issue: Sleep</b>              |
| <b>9</b>  | <b>Nature special issue: Alzhiemer</b>          |
| <b>10</b> | <b>Second Exam</b>                              |
| <b>11</b> | <b>Nature special issue: skin</b>               |
| <b>12</b> | <b>Nature special issue: Spatial proteomics</b> |
| <b>13</b> | <b>Nature special issue: Biobanks</b>           |
| <b>14</b> | <b>Nature special issue: Microbes</b>           |
| <b>15</b> | <b>Revision</b>                                 |
| <b>16</b> | <b>Final Examination</b>                        |
-