

# **BIOL 4011 FA-Fundamentals of Immunology**

## **Instructors:**

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## **Course Description:**

Focus on the basic concepts of immunology. The course will discuss the innate immune system and adaptive immune system as well as immunotherapies.

## **Time and place:**

11:30 am to 1 pm on Tuesday and Thursday, ATAC 2003

## **Learning outcomes:**

- Receptors and cells of the innate immune system
- Receptors and cells of the adaptive immune system
- Immunoglobulins
- Defence mechanisms against pathogens
- Immunotherapies

## **Course evaluation:**

The course evaluation is composed of 2 exams (midterm and final exam) as well as a student presentation and assignment on the topic of immune evasion.

Midterm Oct 6, 25%

Presentation Nov 7-11, 10% / participation mark 5%

Assignment Dec 2, 20%

Final exam, 35%

**Week by week schedule:**

<b>Week of</b>	<b>Topic</b>
<b>Sept 6</b>	Course introduction and overview of immunology
<b>Sept 12</b>	The innate immune system: First lines of defence
<b>Sept 19</b>	Induction of innate immunity
<b>Sept 26</b>	Immunoglobulins and the evolution of the immune system
<b>Oct 3</b>	<b>Midterm Oct 6</b>
<b>READING WEEK OCTOBER 10-14</b>	
<b>Oct 17</b>	Human leukocyte antigen (HLA)
<b>Oct 24</b>	T cell-mediated immunity & the humoral immune response
<b>Oct 31</b>	Integrated dynamics of innate and adaptive immunity & the mucosal immune system
<b>Nov 7</b>	Student presentation
<b>Nov 14</b>	Failure of host defence mechanisms & autoimmunity
<b>Nov 21</b>	Immunotherapy
<b>Nov 28</b>	Open topics

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