

Sex/Gender equality: social approach through biological sciences

Code number :NP03

Cycle: Undergraduate

Semester: 4th

Course type

X	Background/General knowledge
	Scientific area (interdisciplinary)

Credit Units (ECTS): 4

Lectures (hours/week): 2

Tutorial (hours/week):

Laboratory work (hours/week):

Course coordinator:

Maria Tsantarliotou, Professor

Tutor (s):

Georgios Ch. Papadopoulos, Professor of Anatomy, Histology and Embryology, School of Veterinary Medicine, AUTH

Lina Papadopoulou, Associate Professor of Constitutional Law, School of Law, AUTH

Kalliopi Hainoglou, Lecturer, Department of International and European Studies, University of Macedonia

Fotini Bellou, Assistant Professor, Department of International and European Studies, University of Macedonia

Dimitra Kogkidou, Professor, Department of Social & Cultural Studies, School of Primary Education, AUTH

Papavramidis Theodosis, Assistant Professor, Surgery, School of Medicine, AUTH

Myronidou-Tzouveleki, Emeritus Professor, School of Medicine, AUTH

Roza Lagoudaki, Biologist, PhD, Laboratory of Physiology, School of Medicine, AUTH

Dorothea Kapoukranidou, Associate Professor, Laboratory of Physiology, School of Medicine AUTH

Anastasia Tsingotjidou, Assistant Professor, Laboratory of Anatomy, Histology and Embryology, School of Veterinary Medicine, AUTH

Dimitra Chatzipavlou-Litina, Professor of Pharmaceutical Chemistry, School of Pharmacy, AUTH

Alta-Panera, Psychologist, Counseling and Guidance Centre, AUTH

Assisting personnel:

Aims of the course:

Skills:

By the end of this course, the students possess fundamental and specialized knowledge and understanding on sex/gender differences and similarities. They also know to approach sex/gender issues from a biological, social and legal basis.

All the above form a solid foundation for creating responsible citizens and future scientists with a high level of empathy.

Teaching methods: Lectures

Contents of the course:

Tutors:

1) Georgios Ch. Papadopoulos

Title: Brain and biological sex: mutual dependencies

Content: Description of the process of neurobiological formation and differentiation of the sexes, as well as of the mechanisms/factors determining sexual identity

2) Dimitra Chatzipavlou-Litina

Title: Gender and metabolism

Content: Metabolism is different in genders. This difference as well as its consequences in everyday life and also in pathological situations are described with examples. The analysis of the aforementioned is based on bibliographic data.

3) Dorothea Kapoukranidou

Title: Immune system and gender

Content: In this course the results of a study that investigates the impact of estrogens on the expression of specific genes are presented. Men and women have different needs, but also different profiles in terms of diseases and symptoms. Many researchers believe that women's estrogens are a "shield" for their immune system. Researchers argue that women's advantage is due to the fact that women are more effective at dealing with infections after estrogens prevent a gene that suppresses immune system reactions. A study published in the Proceedings of the National Academy of Sciences, based on experiments performed on genetically modified mice lacking the caspase-12 gene, found that estrogen - the major female hormone blocks enzyme 12, which is known that mitigates inflammatory reactions against infection.

4) Maria Myronidou-Tzouveleki

Title: Inequalities in health care: the role of biological sex and social gender

Content: In this course students are extensively introduced to the sensitivities of each gender (basic physiological differences / differences in organic systems) and discuss key differences in health indicators and various pathological conditions that indicate gender differences (e.g. life expectancy, differences in mortality, prevalence and effects of various diseases). The analysis is conducted critically based on bibliographic data and in relation to genre. Additionally, the causes of gender health inequalities will be examined not only concerning their biological and/or social differentiation, but also regarding their correlation.

5) Roza Lagoudaki

Title: Gender in experimental designs

Content: In this course the reasons for the preference of male animals in preclinical studies are examined, as well as the use of the data in clinical practice, where multiple times pharmacology has been deemed ineffective or with side effects in women. The methods of gender selection in the experimental designs will be described in detail, examining the factors that must be taken into consideration for the selection of the gender depending on the specificities of each experimental model. In addition, extensive reference will be made regarding the effect of the sex of laboratory staff that uses animals on experimental designs.

6) Theodosia Papavramidis

Title: The role of sex/gender in surgery specialization: from training to career integration

Content: This topic fulfills the following purposes: (i) to promote dialogue on gender issues and in particular on issues related to the relationship between society and (ii) to promote research on the influence of gender ideology on the production of knowledge, the construction of dominant scientific examples and the creation of mechanisms for their production and reproduction, (iii) to assist integrate gender dimension at the undergraduate, postgraduate and professional level in the field of surgical sciences, (iv) to address the scientific, professional, social education and training on gender equality and surgical sciences, (vi) to ensure equal co-operation (vii) to develop support mechanisms for working female surgeons as well as female students.

7) Anastasia Tsingotjidou

Title: Biological sex in basic research on pain: presentation of new data

Content: The definition of pain in animals and humans

- Introduction to pain research
- Comparative results of manifestation of pain in male and female
- Use of animals in pain research focusing in the gender of the animals used and the translation to humans.

8) Lina Papadopoulou

Title: Legal framework for gender equality. The legal standardization of gender equality.

Content: The subject of the course is the investigation of gender equality from a legal and especially constitutional point of view. Reference texts include the Greek Constitution, European Union legislation and the European Convention on Human Rights. The relationship of gender/sex with the general principle of equality, its manifestations, its different forms (proportional, expansive, positive measures) and its modern regulatory consequences are investigated.

9) Dimitra Kogkidou

Title: Gender-associated violence

- Content:**
1. Recording, investigating and understanding experiences of sexual violence
 2. The influence of social and cultural norms in determining what constitutes sexual violence. - The example of the concept of "culture of rape".
 3. Presentation of the European Foundation for Fundamental Rights (FRA) pan-European survey "Violence against women" (2014)
 4. Combating racial violence: Interventions at the level of perceptions about them-Gender roles.
 - 4.1. Need to promote a new concept of manhood.
 - 4.2. The contribution of anti-sexist education to the creation of a society without gender-based violence.
 5. Legislative framework for combating racial violence
 6. Policies to combat racial violence

10) Alta Panera

Title: Abusive relationships

Content: This practical course aims through interaction that the participants share their own experiences, views and questions regarding abusive relationships. Moreover, it aims to

familiarize participants with the stages of abuse, the warning signs of risk in a relationship, the features of abusive people and the problems that arise to the receivers of abuse. Also, the ways in which the participants can help themselves or someone in their environment who is in an abusive relationship will be investigated. This exercise is an opportunity to sensitize the participants regarding abuse to protect them and to be able to help others, in case they encounter similar incidents in the future.

11) Kalliopi Hainoglou

Title: International protection of women's rights; sex/gender policies implemented by international organisms

Content: A few international conventions adopted under the auspices of the United Nations and other international organizations guarantee the rights of women. This thematic unit aims to show how fundamental freedoms and human rights are intertwined, considering the gender dimension and recognizing the challenges and stereotypes that women face at global, European and national levels. In the context of the course, reference is made to international jurisprudence.

12) Fotini Bellou

Title: Sex/gender policies in peace missions of international organizations; protecting health and safety of men and women.

Content: This lesson will analyze the differences between women and men in conflict areas with an emphasis on the level of individual and biological safety. The cultural differences of gender analysis will be presented in different geographical areas focusing on the different biosafety issues faced by women as opposed to men in war-torn or post-conflict areas, or even as migrants or refugees.

Educational activities: Lectures, discussion with the students in every lecture.

Evaluation process and methods: The degree is based solely on quantitative assessment of attendance in lectures. Comprehension of lesson's principles and deliverables is aided by short tests/essays provided by the tutors on provisional basis. No written or oral examinations are undertaken.

Use of TIC / Electronic distribution of the lectures

Lectures, notes, statements etc are provided at e-learning platform.

Teaching: Teaching of this course is accomplished through lectures

Lecture	Title	Tutor
1	Brain and sex: mutual dependencies	Georgios Ch. Papadopoulos
2	Gender and metabolism	Dimitra Chatzipavlou-Litina
3	Immune system and gender	Dorothea Kapoukranidou

4-5	Gender inequalities: biological (sex) and social (genre). Gender diversity in diseases	Maria Myronidou-Tzouveleki
6	Gender in experimental designs	Roza Lagoudaki
7	The role of gender in surgical dimension: from explanation to professionalization integration	Theodosis Papavramidis
8	Stress/Pain and gender	Anastasia Tsingotjidou
9	Legal framework for gender equality. The legal standardization of gender equality	Lina Papadopoulou
10	Sexual violence	Dimitra Kogidou
11	Abusive relationships	Alta Panera
12	International protection of women's rights and gender policies by international organizations	Kalliopi Hainoglou
13	Gender analysis in war-torn areas and cultural biosafety diversification	Fotini Bellou

A) **Lectures.** Lectures (12 of 2 hours each and 1 of 3 hours) are given in the lecture room of building of the School of Medicine)

B) Laboratory work: Not exist