

## Subject card

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                          |                                                                                                                                                                                                                                        |                                     |                                                                                        |            |     |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------|------------|-----|
| Subject name and code                       | Biology of criminal behavior, PG_00154446                                                                                                                                                                                                                                                                                                                                                                            |                                                          |                                                                                                                                                                                                                                        |                                     |                                                                                        |            |     |
| Field of study                              | Biology                                                                                                                                                                                                                                                                                                                                                                                                              |                                                          |                                                                                                                                                                                                                                        |                                     |                                                                                        |            |     |
| Date of commencement of studies             | October 2024                                                                                                                                                                                                                                                                                                                                                                                                         |                                                          | Academic year of realisation of subject                                                                                                                                                                                                |                                     | 2026/2027                                                                              |            |     |
| Education level                             | undergraduate studies                                                                                                                                                                                                                                                                                                                                                                                                |                                                          | Subject group                                                                                                                                                                                                                          |                                     | Optional subject group                                                                 |            |     |
| Mode of study                               | full-time studies                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          | Mode of delivery                                                                                                                                                                                                                       |                                     | at the university                                                                      |            |     |
| Year of study                               | 3                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          | Language of instruction                                                                                                                                                                                                                |                                     | Polish                                                                                 |            |     |
| Semester of study                           | 5                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          | ECTS credits                                                                                                                                                                                                                           |                                     | 2.0                                                                                    |            |     |
| Learning profile                            | academic                                                                                                                                                                                                                                                                                                                                                                                                             |                                                          | Assessment form                                                                                                                                                                                                                        |                                     |                                                                                        |            |     |
| Conducting unit                             | Pracownia Neurobiologii -> Katedra Fizjologii Zwierząt i Człowieka -> Faculty of Biology                                                                                                                                                                                                                                                                                                                             |                                                          |                                                                                                                                                                                                                                        |                                     |                                                                                        |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                                                                                                                                                                                                                                                   |                                                          | dr Wojciech Glac                                                                                                                                                                                                                       |                                     |                                                                                        |            |     |
|                                             | Teachers                                                                                                                                                                                                                                                                                                                                                                                                             |                                                          |                                                                                                                                                                                                                                        |                                     |                                                                                        |            |     |
| Lesson types                                | Lesson type                                                                                                                                                                                                                                                                                                                                                                                                          | Lecture                                                  | Tutorial                                                                                                                                                                                                                               | Laboratory                          | Project                                                                                | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                                                                                                                                                                                                                                                                                | 0.0                                                      | 30.0                                                                                                                                                                                                                                   | 0.0                                 | 0.0                                                                                    | 0.0        | 30  |
|                                             | E-learning hours included: 0.0                                                                                                                                                                                                                                                                                                                                                                                       |                                                          |                                                                                                                                                                                                                                        |                                     |                                                                                        |            |     |
| Learning activity and number of study hours | Learning activity                                                                                                                                                                                                                                                                                                                                                                                                    | Participation in didactic classes included in study plan |                                                                                                                                                                                                                                        | Participation in consultation hours |                                                                                        | Self-study | SUM |
|                                             | Number of study hours                                                                                                                                                                                                                                                                                                                                                                                                | 30                                                       |                                                                                                                                                                                                                                        | 5.0                                 |                                                                                        | 15.0       | 50  |
| Subject objectives                          | <ul style="list-style-type: none"><li>understanding the biological and social factors that predispose to crime</li><li>understanding the neurobiological mechanisms responsible for the increase in susceptibility and occurrence of antisocial behavior</li><li>understanding the basis of the interaction between biological and environmental factors determining the occurrence of antisocial behavior</li></ul> |                                                          |                                                                                                                                                                                                                                        |                                     |                                                                                        |            |     |
| Learning outcomes                           | Course outcome                                                                                                                                                                                                                                                                                                                                                                                                       |                                                          | Subject outcome                                                                                                                                                                                                                        |                                     | Method of verification                                                                 |            |     |
|                                             | [BIOLL3_U05] The graduate will be able to synthesise data from a variety of sources and draw appropriate conclusions                                                                                                                                                                                                                                                                                                 |                                                          | synthesizes data from various sources and draws appropriate conclusions regarding the intensity of an individual's tendency to antisocial behavior or the likelihood of committing a described antisocial or criminal behavior (B_U05) |                                     | [SU2] presentation/project/paper/report<br>[SU5] implementation of a problem task      |            |     |
|                                             | [BIOLL3_W04] The graduate is conversant with the course of physiological processes and their relationship to the adaptation of the organism to changing environmental conditions                                                                                                                                                                                                                                     |                                                          | knows and understands neurobiological mechanisms leading to increased tendency to antisocial and criminal behavior (B_W04)                                                                                                             |                                     | [SW4] test/exam - oral or written<br>[SW5] implementation of a problem task            |            |     |
|                                             | [BIOLL3_U09] The graduate will be able to prepare well-documented written work on selected biological problems                                                                                                                                                                                                                                                                                                       |                                                          | prepares well-documented studies of selected problems in the field of biology of antisocial and criminal behavior (B_U09)                                                                                                              |                                     | [SU5] implementation of a problem task                                                 |            |     |
|                                             | [BIOLL3_K03] The graduate will be able to organise the work of a small team and work effectively as part of a team                                                                                                                                                                                                                                                                                                   |                                                          | is able to organize the work of a small team and demonstrates the ability to effectively work in a team to solve a problem related to the biology of criminal behavior (B_K03)                                                         |                                     | [SK8] observation of student's independent or team work                                |            |     |
|                                             | [BIOLL3_K07] The graduate is prepared to apply the principles of bioethics consciously                                                                                                                                                                                                                                                                                                                               |                                                          | is aware of ethical dilemmas related to the use of knowledge on the biological basis of antisocial and criminal behavior (B_K07)                                                                                                       |                                     | [SK1] oral statement/conversation/discussion<br>[SK5] implementation of a problem task |            |     |

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|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Subject contents                                               | <ul style="list-style-type: none"><li>• review of criminological theories regarding the biological and social determinants of crime,</li><li>• the role of genes and environment in crime development,</li><li>• neurobiological basis of predisposition to antisocial and criminal behavior,</li><li>• antisocial behavior induced by central nervous system dysfunctions (e.g. psychopathy, antisocial personality disorder),</li><li>• genetic determinants of crime (neurogenetics),</li><li>• learning criminal behavior,</li><li>• the neurobiological basis of the decision-making process of crime behavior (committed as an affect or with the so-called premeditation),</li><li>• biological differences between the sexes influencing the differential susceptibility to criminal behavior in women and men</li></ul> |                                                                                                                                                                                                                                                                                                                                                     |                               |
| Prerequisites and co-requisites                                | basic knowledge about the structure and functioning of the central nervous system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                     |                               |
| Assessment methods and criteria                                | Subject passing criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Passing threshold                                                                                                                                                                                                                                                                                                                                   | Percentage of the final grade |
|                                                                | case studies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 51.0%                                                                                                                                                                                                                                                                                                                                               | 20.0%                         |
|                                                                | team problem tasks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 51.0%                                                                                                                                                                                                                                                                                                                                               | 20.0%                         |
|                                                                | case study (final report)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 51.0%                                                                                                                                                                                                                                                                                                                                               | 30.0%                         |
|                                                                | discussion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 51.0%                                                                                                                                                                                                                                                                                                                                               | 10.0%                         |
|                                                                | quizzes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 51.0%                                                                                                                                                                                                                                                                                                                                               | 20.0%                         |
| Recommended reading                                            | Basic literature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"><li>• Ostrowska K., Wójcik D., 1986. Teorie kryminologiczne. Akademia Teologii Katolickiej.</li><li>• Sadowski B., 2005. Biologiczne mechanizmy zachowania się ludzi i zwierząt. PWN.</li><li>• Bieżąca literatura naukowa - artykuły w czasopismach specjalistycznych (dostarczone przez prowadzącego)</li></ul> |                               |
|                                                                | Supplementary literature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"><li>• Górská T., Grabowska A., Zagrodzka J. (red.), 1997. Mózg a zachowanie. Wydawnictwo Naukowe PWN, Warszawa.</li><li>• Bieżąca literatura naukowa - artykuły w czasopismach specjalistycznych (dostarczone przez prowadzącego)</li></ul>                                                                       |                               |
|                                                                | eResources addresses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Adresy na platformie eNauczanie:                                                                                                                                                                                                                                                                                                                    |                               |
| Example issues/<br>example questions/<br>tasks being completed | <ul style="list-style-type: none"><li>• test - what brain structure is responsible for triggering aggression? (indicate correct answer)</li><li>• case study - a description of the crime for which possible reasons relating to the perpetrator should be indicated</li><li>• problem task - how damage to a specific structure will change the tendency to commit a crime</li><li>• discussion - should biological features be evidence in the trial?</li><li>• case study (final report) - description of the event with the characteristics of several suspects, to which the most likely perpetrator should be indicated with a justification</li></ul>                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |                               |
| Work placement                                                 | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                     |                               |

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