

Master's, Doctoral, and Post-doctoral Track Program: Education and Psychology

1. Open Doors winner's skill set

Winning the Open Doors competition requires a firm grasp of education and psychology concepts:

- theoretical foundations of social work and psychology; stages of personality development; relevant legislation; and pedagogical ethics;
- applied aspects of educational psychology; theoretical knowledge of psychodidactics and psychodiagnostics in digital learning environments;
- fundamentals of special education; inclusive teaching practices; and legal frameworks related to working with people with disabilities;
- current research trends in psychology; the benefits and risks of using artificial intelligence in the field; and the basics of psychometrics, psychological testing, and profiling. The winner is expected to demonstrate a solid command of the following skills:
- creating innovative educational programs that take into account the achievements of neuropsychology and anthropology;
- effectively interacting with students and colleagues in a digital learning environment, motivating them to attain excellent outcomes;
- applying methods of special (inclusive) education;
- using interactive digital methods for teaching, as well as for diagnosing, monitoring, and assessing students' academic performance;
- providing psychological assistance, engaging in psychoprophylaxis and social rehabilitation.

2. List of degree programs covered by the subject area

2.1. List of doctoral degree programs

5.3.4 Educational Psychology, Psychodiagnostics of Digital Learning Environment

5.3.1 General Psychology, Personal Psychology, History of Psychology

5.3.6 Medical Psychology

5.8.3 Special Education

5.3.5 Social Psychology, Political, Economic Psychology

2.2. List of master's degree programs

44.04.02 Psychological and Pedagogical Education

37.04.01 Psychology

39.04.02 Social Work

37.04.02 Conflict Studies

3. Content

Field of science 1: Social psychology

- Theoretical foundations of social psychology.
- Sociocultural, sociopsychological, psychological, and educational foundations of interpersonal interaction.
- Group psychology and group dynamics.
- Social influence and mass phenomena.
- Applied aspects of social psychology and methods of sociopsychological research.

Field of science 2: Educational psychology

- History of educational psychology and its key figures; problems of pedagogical psychology.
- Patterns and dynamics of a child's mental development; specific challenges in the periodization of age-related development; age-related crises as natural stages of psychological growth; characteristics of age-related developmental changes and their consideration within the education system.
- School readiness; psychology of early and preschool childhood; psychology of primary schoolchildren; psychology of adolescents and high school students.
- Structure of education as bidirectional activity and agent-agent relations between teacher and learner.
- Teacher's personality in the educational process; pedagogical communication, cooperation, and conflict.
- Psychology of academic failure, motivation, and learning.
- Applied aspects of educational psychology; psychodiagnostics in digital learning environments and the fundamentals of psychodidactics in the educational process.

Field of science 3: Special education

- Key tasks of special education; development of theoretical and methodological foundations of special education; devising principles, methods, and content for the training and education of children with developmental disabilities.
- Branches of special education, including education for the blind; education for the deaf; education for individuals with intellectual disabilities; and speech and language therapy.
- Inclusive education; legal framework for education; health limitations; adapted educational programs; individual curricula; accessible environments and resource classrooms; models of inclusive education.

Field of science 4: Psychology

- Main branches of psychology: behaviorism, psychoanalysis, Gestalt psychology, humanistic psychology, cultural-historical psychology, cognitive psychology, and cognitive neuroscience.
- Modern research methods in psychology: quantitative, qualitative, and mixed methods.
- Personality psychology; personality theories (Sigmund Freud, Carl Jung, Alfred Adler, Karen Horney, Abraham Maslow, Ernst Kretschmer, William Sheldon); individual differences in psychology; abilities; motivation; self-assessment.
- Psychology of intellectual activity; concepts of intelligence (Jean Piaget, Raymond Cattell, Joy Paul Guilford, Howard Gardner, Charles Spearman, Robert Sternberg, and others); problem of intelligence development in ontogeny.
- Psychology of the emotional sphere; classification of emotions and their functions in human activity; characteristics of human emotional intelligence; theories of emotional regulation; relationship between emotions and cognitive activity.
- Interdisciplinary studies of human development: relevance, practical significance, and implementation features; research questions and methods in cognitive neuroscience; ethical aspects of contemporary psychological research; psychology and artificial intelligence: promising research areas and human development in the context of artificial intelligence.

Field of science 5: Applied psychology

- Health psychology; mental health; classification and diagnosis of mental disorders; prevention and psychological well-being (Norman Bradburn, Ed Diener, Carol Ryff, Richard M. Ryan, Edward L. Deci, Martin Seligman, and others); diagnostic methods in health psychology (observation, experimentation, interviews, personality questionnaires, abnormal psychology)

techniques, etc.); psychology of deviant behavior: types and structure; psychological approaches to deviant behavior.

- Psychodiagnostics and types of psychological testing; structure of psychological reports; psychological profiles of individuals.
- Psychological prevention, psychological interventions, correctional psychology, and rehabilitation; methods for developing an individual's psychological culture.
- Psychotherapy; approaches and methods of psychotherapy; psychological counseling, including individual, family, group, professional, and organizational formats.

4. Preparation materials

4.1 Recommended reading

Field of science 1. Social psychology

Reading list in English
Larsen K. S., Ommundsen R., van der Veer, K. (2015) Being Human: Relationships and You: A Social Psychological Analysis. BoD – Books on Demand.
Martin J. (2016) Ernest Becker and Stanley Milgram: Twentieth-century students of evil. <i>History of Psychology</i> , 19(1), 3-21.
Dolgova V. (2017). About actual problems of psychodiagnostics in education. GISAP: Psychological Sciences. https://www.researchgate.net/publication/317607361_ABOUT_ACTUAL_PROBLEMS_OF_PSYCHODIAGNOSTICS_IN_EDUCATION (limited access).
Morgan D. L. Practical strategies for combining qualitative and quantitative methods: Applications to health research // <i>Qualitative health research</i> . – 1998. – T. 8. – №. 3. – C. 362-376.
Knoll L. J., Magis-Weinberg L., Speekenbrink M., Blakemore S. J. (2015) Social influence on risk perception during adolescence. <i>Psychological Science</i> , 26(5), 583-592.
Griggs R. A. (2017) Milgram's obedience study: a contentious classic reinterpreted. <i>Teaching of Psychology</i> , 44(1), 32-37. https://www.researchgate.net/publication/12743282_Practical_Strategies_for_Combining_Qualitative_and_Quantitative_Methods_Applications_to_Health_Research

Field of science 2: Educational psychology

Reading list in English
Guy R. L. Psychology of learning. https://books.google.ru/books/about/Theories_of_Human_Learning.html?id=bIK8jwEACAAJ&redir_esc=y
Guy R. L. Theories of Human Learning: Mrs Gribbin's Cat. https://www.cambridge.org/ru/universitypress/subjects/psychology/educational-psychology/theories-human-learning-mrs-gribbins-cat-7th-edition?format=PB&isbn=9781108735995 (limited access)
Guy R. L. Psychology for Teaching 9th Edition. http://maktaba.pu.ac.ke/cgi-bin/koha/opac-ISBDdetail.pl?biblionumber=1266 (limited access)
Shaffer D. R., Kipp K. (2013) Developmental psychology: childhood and adolescence. https://www.researchgate.net/publication/260296797_Development_Psychology_Childhood_and_Adolescence (limited access)
Developmental psychology: childhood and adolescence. Wadsworth/Thomson Learning, 2002. https://handoutset.com/wpcontent/uploads/2022/05/Developmental-PsychologyChildhood-and-Adolescence-Seventh-Edition-David-R.-Shaffer-Katherine-Kipp.pdf (limited access)

Sigelman C. K., Rider E. A. (2008). Life-span human development. https://www.wheelers.co.nz/books/9781111343132-life-span-human-development/?series=Cengage+Advantage+Books&status=all&page=16 (limited access)
Siegler R. S. (2002). How children develop. https://psycnet.apa.org/doiLanding?doi=10.1037%2F0003-066X.60.8.769 (limited access)
Elmurzaeva N. Pedagogical psychology and psychological activity in educational institutions // SAI. 2023. № B5. https://cyberleninka.ru/article/n/pedagogical-psychology-and-psychological-activity-in-educational-institutions
Jozek M. (2014). Teachers' Personality in the Process of Education. Acta Technologica Dubnicae. 4. https://www.researchgate.net/publication/277613685_Teachers'_Personality_in_the_Process_of_Education
Göncz L. (2017) Teacher personality: a review of psychological research and guidelines for a more comprehensive theory in educational psychology, Open Review of Educational Research, 4:1, 75-95 https://doi.org/10.1080/23265507.2017.1339572
Urhahne D., Wijnia L. Theories of Motivation in Education: An Integrative Framework. Educ Psychol Rev 35, 45 (2023). https://doi.org/10.1007/s10648-023-09767-9
Dolgova V. (2017). About actual problems of psychodiagnostics in education. GISAP: Psychological Sciences. https://www.researchgate.net/publication/317607361_ABOUT_ACTUAL_PROBLEMS_OF_PSYCHODIAGNOSTICS_IN_EDUCATION (limited access).

Field of science 3. Special education

Reading list in English
Mitchell D. What really works in special and inclusive education. Using evidence-based teaching strategies. London-New York: Routledge. 2008. 240 p. (Chapter 3. Strategy I: Inclusive education 'Adapt the mainstream to suit all learners'). https://www.academia.edu/37967852/David_Mitchell_2008_What_really_Works_in_Using_Evidence_based_Teaching_Strategy (limited access)
Zakrepina A. V., Butusova T. Yu., Kinash E. A., Kamelkova A. I. Analysis of Learning Activities Dynamics among First-Graders with Intellectual Disabilities. Integration of Education. 2022; 26(2):266–296. https://doi.org/10.15507/1991-9468.107.026.202202.266-296
Raximova F. M. (2022). Difficulties in organizing the education and upbringing of visually impaired children of preschool age // INTERNATIONAL JOURNAL OF SOCIAL SCIENCE & INTERDISCIPLINARY RESEARCH ISSN: 2277-3630 Impact Factor: 8.036, 11(12), 90–93. https://gejournal.net/index.php/IJSSIR/article/view/1196
MacBeath J., Galton M., Steward S. The Costs of Inclusion. Cambridge: Victoria Press, 2005. 78 p. https://www.educ.cam.ac.uk/people/staff/galton/Costs_of_Inclusion_Final.pdf (limited access)

Field of science 4. Psychology

Reading list in English
Kwon H. R., Silva E. A. (2020). Mapping the Landscape of Behavioral Theories: Systematic Literature Review. Journal of Planning Literature, 35(2), 161-179. https://journals.sagepub.com/doi/10.1177/0885412219881135
Stetsenko A. Cultural-Historical Activity Theory and its Contemporary Import: Ideas Emerging in Context and Time. Kul'turno-istoricheskaya psikhologiya = Cultural-Historical Psychology, 2023. Vol. 19, no. 1, pp. 20—29. https://psyjournals.ru/en/journals/chp/archive/2023_n1/Stetsenko

Dafermos M. Critical Reflection on the Reception of Vygotsky's Theory in the International Academic Communities. Kul'turnoistoricheskaya psikhologiya = Cultural-historical psychology, 2016. Vol. 12, no. 3, pp. 27 — 46. https://psyjournals.ru/en/journals/chp/archive/2016_n3/chp_2016_n3_dafermos_en.pdf
Vasileva O., Balyasnikova N. (Re) Introducing Vygotsky's thought: from historical overview to contemporary psychology // Frontiers in psychology. – 2019. – T. 10. – C. 1515. https://www.frontiersin.org/journals/psychology/articles/10.3389/fpsyg.2019.01515/full
Vitello M., Salvi C. Gestalt's Perspective on Insight: A Recap Based on Recent Behavioral and Neuroscientific Evidence. J. Intell. 2023, 11, 224. https://www.mdpi.com/2079-3200/11/12/224
Trends in Cognitive Science. https://www.cell.com/trends/cognitive-sciences/current
Appelbaum M., Cooper H., Kline R. B., Mayo-Wilson E., Nezu A. M., Rao S. M. (2018). Journal article reporting standards for quantitative research in psychology: The APA Publications and Communications Board task force report. American Psychologist, 73(1), 3–25. https://psycnet.apa.org/fulltext/2018-00750-002.html
Levitt H. M., Bamberg M., Creswell J. W., Frost D. M., Josselson R., Suárez-Orozco C. (2018). Journal article reporting standards for qualitative primary, qualitative meta-analytic, and mixed methods research in psychology: The APA Publications and Communications Board task force report. American Psychologist, 73(1), 26–46. https://psycnet.apa.org/fulltext/2018-00750-003.html
Morgan D. L. Practical strategies for combining qualitative and quantitative methods: Applications to health research //Qualitative health research. – 1998. – T. 8. – №. 3. – C. 362-376. https://www.researchgate.net/publication/12743282_Practical_Strategies_for_Combining_Qualitative_and_Quantitative_Methods_Applications_to_Health_Research
Guest G., Fleming P. J. (2014) “Mixed Methods Research”. Public Health Research Methods. Thousand Oaks, CA: Sage. https://www.researchgate.net/publication/281625054_Mixed_Methods_Research
Zhang L. F (2021) Are Personality-Based Intellectual Styles Culture Specific or Universal? Front. Psychol. 12:717670. https://www.frontiersin.org/journals/psychology/articles/10.3389/fpsyg.2021.717670/full
Amirhosseini M. H., Kazemian H. (2020). Machine Learning Approach to Personality Type Prediction Based on the Myers–Briggs Type Indicator®. Multimodal Technologies and Interaction, 4(1), 9. https://www.mdpi.com/2414-4088/4/1/9
Coco L. K., Heidler P, Fischer H. A., Albanese V., Marzo R. R., Kozon V. When the Going Gets Challenging—Motivational Theories as a Driver for Workplace Health Promotion, Employees Well-Being and Quality of Life. Behavioral Sciences. 2023; 13(11):898. https://www.mdpi.com/2076-328X/13/11/898
Gardner H. A Resurgence of Interest in Existential Intelligence: Why Now? https://www.howardgardner.com/howards-blog/a-resurgence-of-interest-in-existential-intelligence-why-now
Kuther T.L. Cognitive Change: Cognitive Developmental and Sociocultural Approaches https://us.sagepub.com/sites/default/files/kuther_lifespan_ch_06.pdf
Brown R.E. Hebb and Cattell: The Genesis of the Theory of Fluid and Crystallized Intelligence (2016). Front. Hum. Neurosci. 10:606. https://www.frontiersin.org/journals/human-neuroscience/articles/10.3389/fnhum.2016.00606/full
Sternberg R. J. Intelligence. Dialogues Clin Neurosci. 2012, 14(1):19-27. URL : https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3341646/#

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Izard C. E. Emotion theory and research: Highlights, unanswered questions, and emerging issues // <i>Annual review of psychology</i> . – 2009. – T. 60. – №. 1. – C. 1-25. https://www.annualreviews.org/content/journals/10.1146/annurev.psych.60.110707.163539
Box-Steffensmeier J. M., Burgess J., Corbetta M. The future of human behaviour research. <i>Nat Hum Behav</i> 6, 15–24 (2022). https://www.nature.com/articles/s41562-021-01275-6
Proctor R. W., Vu K.-P. L. (2019). How psychologists help solve real-world problems in multidisciplinary research teams: Introduction to the special issue. <i>American Psychologist</i> , 74 (3), 271–277. https://psycnet.apa.org/fulltext/2019-17327-001.html
Ahmad S.F., Han H., Alam M. M. Impact of artificial intelligence on human loss in decision making, laziness and safety in education. <i>Humanit Soc Sci Commun</i> 10, 311 (2023). https://www.nature.com/articles/s41599-023-01787-8
Abrams Z. AI is changing every aspect of psychology. Here's what to watch for. Psychologists and their skills are irreplaceable, but thoughtful and strategic implementation of AI is crucial. https://www.apa.org/monitor/2023/07/psychology-embracing-ai
Leisman G. Neuroscience in Education: A Bridge Too Far or One That Has Yet to Be Built: Introduction to the “Brain Goes to School”. <i>Brain Sci.</i> 2023, 13, 40. https://www.mdpi.com/2076-3425/13/1/40
Kirchner F. AI-perspectives: the Turing option. <i>AI Perspect</i> 2, 2 (2020). https://link.springer.com/article/10.1186/s42467-020-00006-3
Yen C., Lin C.-L., Chiang M.-C. Exploring the Frontiers of Neuroimaging: A Review of Recent Advances in Understanding Brain Functioning and Disorders. <i>Life</i> 2023, 13, 1472. https://www.mdpi.com/2075-1729/13/7/1472
Is the brain a good model for machine intelligence? <i>Nature</i> 482, 462–463 (2012). https://www.nature.com/articles/482462a
Oates J., Carpenter D., Fisher M., Goodson S., Hannah B., Kwiatowski R., Wainwright T. (2021, April). BPS Code of Human Research Ethics. British Psychological Society. https://explore.bps.org.uk/content/report-guideline/bpsrep.2021.inf180

Field of science 5. Applied psychology

Reading list in English
Mash E. J., Wolf D. A. <i>Abnormal child psychology</i> – Wadsworth, Tomson Learning. https://dokumen.pub/abnormal-child-psychology-7nbsped-1337624268-9781337624268.html (limited access)
Research methods in clinical psychology: an introduction for students and practitioners / Chris Barker and Nancy Pistrang and Robert Elliott. – 2nd ed. https://www.al-edu.com/wp-content/uploads/2014/05/Barker-et-al-Research-Methods-in-Clinical-Psychology.pdf
Davey G., Whittington A., Lake N. <i>Clinical psychology</i> . — Second edition. https://dl.uswr.ac.ir/bitstream/Hannan/140735/1/9781848722224.pdf
Wenar C., Kerig P. <i>Developmental psychopathology</i> – McGraw-Hill. https://www.researchgate.net/publication/234154654_Developmental_psychopathology_From_infancy_through_adolescence (limited access)

4.2. Recommended online courses

Field of science 1. Social psychology

Online courses in English	Link	Course description
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Social Work MasterTrack® Certificate Coursera	https://www.coursera.org/mastertrack/social-work-umich?campaignid=415061741&adgroupid=1209463256217810&device=c&keyword=https%3A%2F%2Fwww.coursera.org%2Fmastertrack&matchtype=b&network=o&devicemode=l=&adposition=&creativeid=&hide_mobile_promo&msclkid=4b2e463c4c341d4ecdc9278e403cc801	This course accelerates students' progress toward effective and informed social work practice.
Working in Social Care – Online Course – FutureLearn	https://www.futurelearn.com/courses/introduction-to-social-care-working-in-social-care	The course covers the basic knowledge and skills necessary for effectively supporting individuals in social care settings.

Field of science 2. Educational psychology

Online courses in English	Link	Course description
Motivating Gen Z Learners: What Parents and Teachers Need to Know Motivating Gen Z Learners: What Parents and Teachers Need to Know.	https://www.classcentral.com/course/motivating-gen-z-learners-what-parents-and-teachers-need-to-know-117526	This four-week course offers an in-depth understanding of Generation Z and the factors that motivate their learning. Designed for parents, educators, and professionals working closely with Gen Z, the course provides a range of strategies to enhance motivation among these learners. Participants will gain knowledge of motivational theories and develop the skills to apply them effectively in real-life contexts.
Genius. Talent. Golden Mediocrity	https://mooc.tsu.ru/en/?courses=genius	This applied course focuses on the psychology of enhancing creative life, supporting individuals through crises, realizing human potential, and providing care. Its objective is to offer a phenomenological exploration of genius, talent, and mediocrity as distinct dimensions of human experience, while addressing misconceptions and errors rooted in common sense.
Cross-Cultural Features of Personality and Social Behaviour	https://stepik.org/course/74495	The main purpose of this course is to examine the impact of culture on personality traits, socialization, personality development, and pathology, while exploring interpersonal relationships. It is designed to equip students with the ability to apply this knowledge toward fostering interpersonal

		and cross-cultural understanding and communication.
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Field of science 3. Special education

Online courses in English	Link	Course description
Guidelines for Inclusion and Diversity in Schools	https://www.britishcouncil.es/sites/default/files/british-council-guidelines-for-inclusion-and-diversity-in-schools.pdf	These guidelines aim to provide policy makers and head teachers with a practical framework and examples of best practice to assist them in meeting the challenges of inclusion and diversity in education. Specifically, the guidelines offer suggestions on how schools can raise the achievement of all learners, respect and celebrate diversity, promote learner voice, and incorporate best practices into their improvement and self-evaluation processes to ensure these practices remain sustainable over the long term.
Disability Inclusion in Education: Building Systems of Support	https://www.clascentral.com/course/disability-inclusion-education-12590	Worldwide, millions of children are unable to fully participate in schooling, with this issue particularly affecting children with disabilities. This course examines the support required by teachers to address the needs of children with severe to profound hearing, visual, and intellectual disabilities. It explores inclusive education through discussions with a range of experts—from teachers to activists—and shares experiences related to educational practices.
Managing ADHD, Autism, Learning Disabilities, and Concussion in School	https://www.clascentral.com/course/managing-adhd-autism-learning-disabiliti-12821	This course covers the most common developmental and behavioral disorders affecting children, including ADHD, autism spectrum disorder, learning disorders, and concussions. It focuses on how schools can support children by recognizing common symptoms and understanding the diagnostic process. The course also presents scenarios that offer firsthand clinical experience working with children with ADHD.
Cross-Cultural Features of Personality and Social Behaviour	https://stepik.org/course/74495	This course focuses on studying and identifying the impact of culture on personality traits, socialization, personality development, pathology, and interpersonal relationships, aiming to apply this knowledge to the development of interpersonal and cross-cultural relations and communication.

Field of science 4. Psychology

Online courses in English	Link	Course description
Cognitive Science and Decision Making	https://stepik.org/course/128535/promo?search=4737746351	The course offers a comprehensive overview of cognitive psychology and neuroscience approaches to decision-making. Students learn the principles of rational thinking and gain awareness of the fundamental factors that limit human rationality, including brain functions, personality, emotions, stress, risk, and uncertainty.
Psychodiagnostics and Psychological Assessment	https://stepik.org/course/114411/promo?search=4737746358	The course focuses on developing a comprehensive understanding of the diversity of contemporary psychodiagnostics and assessment methods, mastering current global ethical standards in psychological diagnostics, learning technologies for determining test reliability across various psychodiagnostic methods, and studying both classical and contemporary approaches to assessing intelligence, personality traits, talent and achievement potential.
Genius. Talent. Golden Mediocrity	https://mooc.tsu.ru/en/?courses=genius	This applied course focuses on the psychology of enhancing creative life, supporting individuals through crises, realizing human potential, and providing care. Its objective is to offer a phenomenological exploration of genius, talent, and mediocrity as distinct dimensions of human experience, while addressing misconceptions and errors rooted in common sense.

Field of science 5. Applied psychology

Online courses in English	Link	Course description
The practice of obtaining primary practical skills, including primary skills and skills of research activities: Patient care	https://edu.kpfu.ru/course/view.php?id=3666	This course places particular emphasis on developing practical professional skills and acquiring initial hands-on experience in the specialty, covering basic concepts, definitions, and procedures for performing simple medical services, while focusing on the principles of carrying out procedures, all supported by illustrative materials.
Psychodiagnostics and Psychological Assessment	https://stepik.org/course/114411	The course focuses on developing a comprehensive understanding of the diversity of contemporary psychodiagnostics and assessment methods, mastering current global

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		ethical standards in psychological diagnostics, learning technologies for determining test reliability across various psychodiagnostics methods, and studying both classical and contemporary approaches to assessing intelligence, personality traits, talent and achievement potential.
Environmental psychology and globalization processes	https://stepik.org/course/74398/promo?search=4737746359	This course provides an in-depth overview of the various factors that influence how different groups of people live, think, and feel; how they communicate with one another and with outsiders; what values they consider important; how they behave in typical and atypical situations; and how they respond to specific changes in their environment.