

## Bachelor's Track Program: Education and Psychology

### 1. Open Doors winner's skill set

Winning the Open Doors competition requires a firm grasp of:

- basic concepts of social studies, biology, and school mathematics; their relationships, including the human as an agent of social relations and conscious activity, the outcome of biological and sociocultural evolution;
- socialization of the individual; social institutions; globalization; scientific knowledge; spiritual sphere; economy; culture; law; politics; information society;
- fundamentals of botany, zoology, human anatomy and physiology;
- problem-solving algorithms; social, biological, and mathematical theories, hypotheses, laws, patterns; limits of their applicability to living systems; methods of scientific knowledge.

The winner is expected to demonstrate a solid command of the following skills:

- revealing the meanings of fundamental concepts in social science, biology, and mathematics; explaining their interconnections; identifying cause-and-effect relationships;
- applying methods of scientific inquiry in biology and the social sciences;
- employing mathematical approaches in educational research, project work, and social engagement;
- making informed decisions guided by moral principles and values;
- exhibiting civic consciousness and social responsibility.

### 2. List of degree programs covered by the subject area:

#### 2.1. List of bachelor's degree programs

37.03.01 Psychology  
 37.03.02 Conflict Studies  
 44.03.01 Pedagogical Education  
 44.03.02 Psychological and Pedagogical Education  
 44.03.03 Special Education  
 39.03.02 Social Work

#### 2.2. List of specialist's degree programs

37.05.01 Clinical Psychology  
 37.05.02 Occupational Psychology  
 44.05.01 Pedagogy and Psychology of Deviant Behavior

### 3. Content

#### Field of science 1: Social psychology

##### Social studies

1. System of society.
2. Social institutions.
3. Diverse paths of social development and global challenges of the 21st century.
4. The human as an agent of social relations and purposeful action.
5. Development of education: its functions as a social institution, social significance, and personal meaning for the individual.
6. Personality development at an educational institution; worldview and its types.
7. Knowledge of the world: its forms and types; truth.
8. Spiritual culture of society: its types and forms.
9. Deviant behavior and its types.
10. Social groups, youth subcultures, and youth policy.
11. Fundamentals of economic theory: economic systems, their types, and features.

**Biology**

1. Modern biology is a complex science. Biological sciences and the problems they study. Fundamental, applied and exploratory scientific research in biology.
2. The cell as a biological system. Cell theory of the structure of organisms. Chemical composition of the cell.
3. The organism as a biological system. Unicellular, colonial, multicellular organisms and multi-tissue organisms. Forms of reproduction of organisms.
4. Genetics as a science. Basic methods of genetics. Genotypic variability.
5. Biological diversity of organisms. The modern system of the organic world. Principles of classification of organisms. The main systematic groups of organisms.
6. The human body and its health. Protection of the body from diseases. The human immune system.
7. Human organs and organ systems. The circulatory system and its organs. Human respiration. The human digestive system.
8. Theory of evolution. Development of life on Earth. Elementary factors (driving forces) of evolution. Natural selection is the guiding factor of evolution. Forms of natural selection.
9. Ecosystems and their inherent patterns. Sections and tasks of ecology. The relationship of ecology with other sciences. Methods of ecology. Ecological factors and patterns of their action. Ecological crises and their causes. Human impact on the biosphere.

**Field of science 2: Special education****Biology**

1. Biology as a science; subject and tasks of biology; levels of organization and properties of living nature.
2. Cell as a biological system; cellular theory of the structure of organisms; cell structure and integrity; cellular, chromosomal, and mutation theories.
3. Chemical composition of living things; metabolism.
4. Basics of genetics; genetic mechanisms.
5. Virus as a non-cellular form of life; human viral diseases.
6. Reproduction and development of organisms; classification of reproduction methods.
7. Heredity and variability; basic genetic concepts.
8. Diversity of life on Earth; elements of botany and zoology.
9. The human body and its health; human anatomy and physiology: structure and function of the body's major systems, including the nervous, endocrine, and immune systems; human hygiene and healthy lifestyle; basic principles of health, disease prevention, and the influence of the environment on human health.
10. Evolution of living organisms.

**Social Studies**

1. Natural and social aspects of the human being.
2. Global challenges of the contemporary world and possible solutions.
3. Morality and law, social norms and social control, their functions and types; self-regulation.
4. Social conflict.
5. Trends in family development in the modern world; single-parent families; demography; ethnic communities.
6. Social inequality, politics as a sphere of social life.
7. Rational economic behavior.
8. Functions of the state and law, their interrelation; legal status of the individual.

### Field of science 3: Educational psychology

#### Biology

1. General biology; basic concepts and principles of biology; general biological patterns.
2. Organism as a biological system; diversity of the organic world.
3. The human being and health; the integrated nature of the human organism.
4. The principle of connection between structure and function; structure and functions of human organs and organ systems.
5. Genetics as the theoretical basis of selection; biotechnology; genetic engineering; cloning.
6. Superorganism systems.
7. Ecology and nature conservation.
8. Worldview and values in the context of environmental protection.
9. Methods of biological research; work with biological materials and devices; analysis and interpretation of biological information.

#### Social studies

1. Human beings as a result of biological and sociocultural evolution; human activity.
2. Socialization; social norms and values.
3. Personality as an integrated whole, a product of socio-historical development, and a conscious, self-aware entity.
4. Diversity, interconnection, and mutual influence of social institutions; value-based normative foundations guiding the activities of social institutions.
5. Social dynamics; models of social development.
6. Social norms and social control; social conflict.
7. Cognitive activity; Scientific knowledge: its distinct characteristics and structure; levels of scientific knowledge.
8. Fundamentals of the functioning of society's economic, political, and legal systems.
9. Basic laws and patterns of social development; characteristics of the social, economic, political, and spiritual spheres.
10. Politics; human rights and responsibilities.
11. Modern information society and its impact on the individual.

### Field of science 4: Applied psychology

#### Biology

1. General biological patterns.
2. Biological systems; properties of living things; the cell as a structural and functional unit of living organisms; cellular structure of organisms.
3. Genetic diseases and their impact on behavior and mental state.
4. Human beings and health; the integrity of the human body; endocrine glands and their hormones; nervous and humoral regulation.
5. Biotechnology; genetic engineering; cloning.
6. Fundamental principles of evolution
7. Methods of biological research; work with biological materials and devices; analysis and interpretation of biological information.
8. Biosphere and its protection.

#### Social studies

1. Society and nature; society and culture.
2. Globalization; its processes, main directions, and consequences.
3. Directions, forms, and types of social dynamics.
4. Cognitive activity; scientific knowledge.

5. Economic activity and its metrics; key macroeconomic indicators; economic growth and development.
6. The concept of norm; technical standards and social norms; functions and main types of social norms.
7. Family; its functions and typology.
8. Ethics of science.
9. Concept and principles of legal status.

### **Field of science 5: Psychology**

#### **Biology**

1. Scientific methods of inquiry.
2. Structure and functions of the main cell organelles.
3. Asexual and sexual reproduction; embryonic and postembryonic periods of ontogenesis; individual development of organisms.
4. Theory of evolution; main provisions of Charles Darwin's theory; driving forces of evolution: mutations, variability, and natural selection.
5. Main systematic groups of organisms; classification of living organisms; characteristics of the main kingdoms and types.
6. The internal environment of the body and homeostasis; mechanisms of maintaining homeostasis.
7. Nervous system and its functions; structure and functions of parts of the nervous system; reflex activity of the nervous system.
8. Higher nervous activity; conditioned and unconditioned reflexes; consciousness and thinking.
9. Sensory systems and organs of perception; structure and functions of sensory systems; the vital role of the organs of perception in sustaining bodily function.
10. Behavior of organisms; congenital and acquired forms of behavior; instincts and learning.
11. Fundamentals of ecology; ecosystems and their components; patterns of ecosystems.

#### **Mathematics**

1. Fundamentals of algebra; equations and inequalities and their solutions; systems of linear equations.
2. Functions and their properties; linear, quadratic, and exponential functions; graphs of functions and their analysis.
3. Statistics and probability; basic concepts of statistics: means, medians, and modes; elements of probability theory; probability distributions.
4. Mathematical logic; basic logical operations and their application; logical expressions and truth tables.
5. Elements of mathematical analysis; the concept of limit and continuity of a function; derivatives and their applications.
6. Discrete mathematics; combinatorics and basic principles of counting; graphs and their properties.
7. Mathematical modeling and its application; construction and analysis of mathematical models; examples of model applications.
8. Basic geometric figures and their properties; trigonometric functions and their applications.
9. Mathematical methods; use of statistical methods to analyze data; research models and methods.

## **4.Preparation materials**

### **4.1. Recommended reading**

**Field of science 1: Social psychology**

Reading list in English
Lynn Marecek, MaryAnne Anthony-Smith, Andrea Honeycutt Mathis. Algebra and Trigonometry 2e A. Proofs, Identities, and Toolkit Functions URL: //: <a href="https://openstax.org/books/algebra-and-trigonometry-2e/pages/1-1-real-numbers-algebra-essentials">https://openstax.org/books/algebra-and-trigonometry-2e/pages/1-1-real-numbers-algebra-essentials</a>
Manes Michelle. Mathematics for Elementary Teachers. Honolulu, HI. University of Hawai`i at Mānoa. 2018. URL: //: <a href="https://pressbooks-dev.oer.hawaii.edu/math111/">https://pressbooks-dev.oer.hawaii.edu/math111/</a>
Rodriguez Noreen Naseem, Swalwell Katy. Social Studies for a Better World: An Anti-oppressive Approach for Elementary Educators (Equity and Social Justice in Education). W W Norton & Co Inc., 2021. 233 p. URL: // <a href="https://www.cambridge.org/my/education/subject/social-studies">https://www.cambridge.org/my/education/subject/social-studies</a>
Rozhkovskaya N. Blue Book of Mathematics for Elementary School Teachers. Kansas State University, 2021, 167 p. URL: //: <a href="https://www.math.ksu.edu/~rozhkovs/math320_Bversion.pdf">https://www.math.ksu.edu/~rozhkovs/math320_Bversion.pdf</a>
Spiel Christiane, Schwartzman Simon, Busemeyer Marius R.. The contribution of education to social progress Rethinking Society for the 21st Century: Report of the International Panel for Social Progress Publisher: Cambridge University Press. January 2018. 53 p. URL: // <a href="https://www.researchgate.net/publication/330579447">https://www.researchgate.net/publication/330579447</a>

**Field of science 2. Special education**

Reading list in English
Bastawros Dr. Human Reproduction Publisher: Iowa State University Digital Press, 2023 URL: <a href="https://iastate.pressbooks.pub/humanreproduction/">https://iastate.pressbooks.pub/humanreproduction/</a>
Fowler Samantha, Roush Rebecca, Wise James. Concepts of Biology. Rice University. Houston, Texas. 2024. 615 p. URL: // <a href="https://openstax.org/details/books/concepts-biology">https://openstax.org/details/books/concepts-biology</a>
Heath Van Horn Mathew J.. Mastering Enterprise Networks. Publisher: Embry-Riddle Aeronautical University, 2024. URL: // <a href="https://eaglepubs.erau.edu/mastering-enterprise-networks-labs/front-matter/introduction/">https://eaglepubs.erau.edu/mastering-enterprise-networks-labs/front-matter/introduction/</a>
Hove Michael J. and Martinez Steven. Biological Psychology. Publisher: ROTEL, 2024 URL: // <a href="https://open.umn.edu/opentextbooks/textbooks/biological-psychology">https://open.umn.edu/opentextbooks/textbooks/biological-psychology</a>
Nichols Ryan, Charbonneau Mathieu, Chellappoo Azita and others. Cultural Evolution: A Review of Theoretical Challenges. Evolutionary Human Sciences, 2024. P. 1–25. URL: // <a href="https://www.researchgate.net/publication/378176969_Cultural_Evolution_A_Review_of_Theoretical_Challenges">https://www.researchgate.net/publication/378176969_Cultural_Evolution_A_Review_of_Theoretical_Challenges</a>
Sharon Besser. Making Language Visible in Social Studies: A Guide to Disciplinary Literacy in the Social Studies Classroom. Ruslana Westerlund 2024. 222 p. URL: // <a href="https://www.taylorfrancis.com/books/mono/10.4324/9781003302711/making-language-visible-social-studies-sharon-besser-ruslana-westerlund">https://www.taylorfrancis.com/books/mono/10.4324/9781003302711/making-language-visible-social-studies-sharon-besser-ruslana-westerlund</a>

<p>Simons Amanda. Chromosomes, Genes, and Traits: An Introduction to Genetics. Publisher: ROTEL, 2024  URL: // <a href="https://open.umn.edu/opentextbooks/subjects/biology">https://open.umn.edu/opentextbooks/subjects/biology</a></p>
<p>Tonja r. Conerly, Kathleen Holmes, Asha Lal Tamang, North Hennepin. Introduction to Sociology. Rice University. Houston, Texas. 2021. 653 p.  URL: // <a href="https://openstax.org/details/books/introduction-sociology-3e">https://openstax.org/details/books/introduction-sociology-3e</a></p>

### Field of science 3: Educational psychology

Reading list in English
<p>Bastawros Dr. Human Reproduction Publisher: Iowa State University Digital Press, 2023 URL: <a href="https://iastate.pressbooks.pub/humanreproduction/">https://iastate.pressbooks.pub/humanreproduction/</a></p>
<p>Fowler Samantha, Roush Rebecca, Wise James. Concepts of Biology. Rice University. Houston, Texas. 2024. 615 p. URL: // <a href="https://openstax.org/details/books/concepts-biology">https://openstax.org/details/books/concepts-biology</a></p>
<p>Heath Van Horn Mathew J.. Mastering Enterprise Networks. Publisher: Embry-Riddle Aeronautical University, 2024. URL: // <a href="https://eaglepubs.erau.edu/mastering-enterprise-networks-labs/front-matter/introduction/">https://eaglepubs.erau.edu/mastering-enterprise-networks-labs/front-matter/introduction/</a></p>
<p>Hove Michael J. and Martinez Steven. Biological Psychology. Publisher: ROTEL, 2024 URL: // <a href="https://open.umn.edu/opentextbooks/textbooks/biological-psychology">https://open.umn.edu/opentextbooks/textbooks/biological-psychology</a></p>
<p>Simons Amanda. Chromosomes, Genes, and Traits: An Introduction to Genetics. Publisher: ROTEL, 2024  URL: // <a href="https://open.umn.edu/opentextbooks/subjects/biology">https://open.umn.edu/opentextbooks/subjects/biology</a></p>
<p>Tonja r. Conerly, Kathleen Holmes, Asha Lal Tamang, North Hennepin. Introduction to Sociology. Rice University. Houston, Texas. 2021. 653 p.  URL: // <a href="https://openstax.org/details/books/introduction-sociology-3e">https://openstax.org/details/books/introduction-sociology-3e</a></p>

### Field of science 4: Applied psychology

Reading list in English
<p>Bastawros Dr. Human Reproduction Publisher: Iowa State University Digital Press, 2023  URL: // <a href="https://iastate.pressbooks.pub/humanreproduction/">https://iastate.pressbooks.pub/humanreproduction/</a></p>
<p>Fowler Samantha, Roush Rebecca, Wise James. Concepts of Biology. Rice University. Houston, Texas. 2024. 615 p. URL: // <a href="https://openstax.org/details/books/concepts-biology">https://openstax.org/details/books/concepts-biology</a></p>
<p>Hove Michael J. and Martinez Steven. Biological Psychology. Publisher: ROTEL, 2024 URL: // <a href="https://open.umn.edu/opentextbooks/textbooks/biological-psychology">https://open.umn.edu/opentextbooks/textbooks/biological-psychology</a></p>
<p>Nichols Ryan, Charbonneau Mathieu, Chellappoo Azita and others. Cultural Evolution: A Review of Theoretical Challenges. Evolutionary Human Sciences, 2024. P. 1–25.  URL: // <a href="https://www.cambridge.org/core/journals/evolutionary-human-sciences/article/cultural-evolution-a-review-of-theoretical-challenges/F1DAA0367EBB4F7866F9B624DB2D9BEA">https://www.cambridge.org/core/journals/evolutionary-human-sciences/article/cultural-evolution-a-review-of-theoretical-challenges/F1DAA0367EBB4F7866F9B624DB2D9BEA</a></p>

Simons Amanda. Chromosomes, Genes, and Traits: An Introduction to Genetics. Publisher: ROTEL, 2024 URL: // <a href="https://open.umn.edu/opentextbooks/subjects/biology">https://open.umn.edu/opentextbooks/subjects/biology</a>
Tonja r. Conerly, Kathleen Holmes, Asha Lal Tamang, North Hennepin. Introduction to Sociology. Rice University. Houston, Texas. 2021. 653 p. URL: // <a href="https://openstax.org/details/books/introduction-sociology-3e">https://openstax.org/details/books/introduction-sociology-3e</a>

## Field of science 5: Psychology

Reading list in English
Bastawros Dr. Human Reproduction Publisher: Iowa State University Digital Press, 2023 URL: <a href="https://iastate.pressbooks.pub/humanreproduction/">https://iastate.pressbooks.pub/humanreproduction/</a>
Fowler Samantha, Roush Rebecca, Wise James. Concepts of Biology. Rice University. Houston, Texas. 2024. 615 p. URL: // <a href="https://openstax.org/details/books/concepts-biology">https://openstax.org/details/books/concepts-biology</a>
Hove Michael J. and Martinez Steven. Biological Psychology. Publisher: ROTEL, 2024 URL: // <a href="https://open.umn.edu/opentextbooks/textbooks/biological-psychology">https://open.umn.edu/opentextbooks/textbooks/biological-psychology</a>
Lynn Marecek, MaryAnne Anthony-Smith, Andrea Honeycutt Mathis. Algebra and Trigonometry 2e A. Proofs, Identities, and Toolkit Functions URL: //: <a href="https://openstax.org/books/algebra-and-trigonometry-2e/pages/1-1-real-numbers-algebra-essentials">https://openstax.org/books/algebra-and-trigonometry-2e/pages/1-1-real-numbers-algebra-essentials</a>
Manes Michelle. Mathematics for Elementary Teachers. Honolulu, HI. University of Hawai`i at Mānoa. 2018. URL: //: <a href="https://pressbooks-dev.oer.hawaii.edu/math111/">https://pressbooks-dev.oer.hawaii.edu/math111/</a>
Rozhkovskaya N. Blue Book of Mathematics for Elementary School Teachers. Kansas State University, 2021, 167 p. URL: //: <a href="https://www.math.ksu.edu/~rozhkovs/math320_Bversion.pdf">https://www.math.ksu.edu/~rozhkovs/math320_Bversion.pdf</a>
Simons Amanda. Chromosomes, Genes, and Traits: An Introduction to Genetics. Publisher: ROTEL, 2024 URL: // <a href="https://open.umn.edu/opentextbooks/subjects/biology">https://open.umn.edu/opentextbooks/subjects/biology</a>
Thomas Hyun. Acing the New SAT Math. Greenhall Publishing Thousand OAKS, CA, 2016. 445 p. URL: //: <a href="#">Acing the SAT Subject Tests in Math Level 1 and Level 2 - Google Books</a>

## 4.2 Recommended online courses

### Field of science 1: Social psychology

Online courses in English	Link	Course description
Education for Sustainable Development Hamad Bin Khalifa University via edX Help	URL: <a href="https://www.classcentral.com/course/education-teacher-training-hamad-">https://www.classcentral.com/course/education-teacher-training-hamad-</a>	This course provides a values-based, ethical foundation essential for preparing the next generation of global changemakers equipped to address



	<a href="#">bin-khalifa-univ-296812</a>	complex challenges. It prepares all stakeholders within the educational ecosystem, cultivating a sense of ownership, leadership, and responsibility necessary for a sustainable and thriving future.
Environmental psychology and globalization processes	URL: <a href="https://stepik.org/course/74398">https://stepik.org/course/74398</a>	This course offers an in-depth overview of the factors influencing how different groups live, think, and feel; how they communicate internally and with outsiders; the values they prioritize; their behavior in typical and atypical situations; and their responses to environmental changes.
Howard College OER	URL: <a href="https://howardcollege.libguides.com/oer/socialsciences">https://howardcollege.libguides.com/oer/socialsciences</a>	This website offers a collection of open educational resources in the social sciences, including online courses and textbooks, and provides access to multiple platforms with free learning materials.
Introduction to University Mathematics: Lecture 1—Oxford Mathematics 1st Year Student Lecture	URL: <a href="https://www.youtube.com/watch?v=aS6R3epK3ms&amp;list=PL4d5ZtfQonW0A4VHeiY0gSkX1QEraaacE">https://www.youtube.com/watch?v=aS6R3epK3ms&amp;list=PL4d5ZtfQonW0A4VHeiY0gSkX1QEraaacE</a>	This course introduces mathematical concepts and modes of thinking. Lecture 1 focuses on algebra, covering natural numbers and mathematical induction.
Introduction to University Mathematics: Lecture 2—Oxford Mathematics 1st Year Student Lecture	URL: <a href="https://www.youtube.com/watch?v=UCev1nEiGqI&amp;list=PL4d5ZtfQonW0A4VHeiY0gSkX1QEraaacE&amp;index=2">https://www.youtube.com/watch?v=UCev1nEiGqI&amp;list=PL4d5ZtfQonW0A4VHeiY0gSkX1QEraaacE&amp;index=2</a>	This course introduces mathematical concepts and modes of thinking. Lecture 2 focuses on the binomial theorem and set theory.
Law You Can Use	URL: <a href="https://www.classcentral.com/course/coursera-law-you-can-use-pitt-law-295154">https://www.classcentral.com/course/coursera-law-you-can-use-pitt-law-295154</a>	This course provides legal and social content through a series of modules, each designed for independent completion. Covered content includes an overview of the legal system; human resources law with a focus on discrimination and workplace policies; corporate compliance, with an emphasis on ethics; and international business law.
Lesson One   The Connection Between the Constitution and the	URL: <a href="https://www.youtube.com/watch?v=vGGx7sTDn">https://www.youtube.com/watch?v=vGGx7sTDn</a>	This course presents the content of the Declaration of Independence and examines its universal principles,



Declaration	<a href="#">MY</a>	exploring their relationship to the Constitution.
OER Project: Free Online Social Studies and History	URL: <a href="https://www.oerproject.com/Courses">https://www.oerproject.com/Courses</a>	This course, adaptable and appropriate for middle and high school students, offers a variety of standards-aligned social studies courses that connect historical events to contemporary issues.
Open University—Free Online Mathematics Courses	URL: <a href="https://www.open.edu/openlearn/education-development/university-ready/free-online-mathematics-courses">https://www.open.edu/openlearn/education-development/university-ready/free-online-mathematics-courses</a>	These courses are designed to help students develop foundational mathematics skills to support further study.
University of Aberdeen—Online Access Course in Maths	URL: <a href="https://on.abdn.ac.uk/courses/access-maths-5/">https://on.abdn.ac.uk/courses/access-maths-5/</a>	This course, allowing participants to study at their own pace, covers a range of topics required for university admission, particularly in preparation for teacher training programs.

### Field of science 2: Special education

Online courses in English	Link	Course description
Biology in Focus Chapter 1: Introduction—Evolution and the Foundations of Biology	<a href="https://www.youtube.com/watch?v=uzHJluGAhc&amp;list=PLyNjAlVqsujEP9y-bx6gR4s82APqcRaC5&amp;index=1&amp;pp=iAQB">URL://https://www.youtube.com/watch?v=uzHJluGAhc&amp;list=PLyNjAlVqsujEP9y-bx6gR4s82APqcRaC5&amp;index=1&amp;pp=iAQB</a>	This course presents the following topics: basic concepts and principles of biology; general biological patterns; biological systems; the organism as a biological system; human anatomy and physiology; basic principles of health protection, disease prevention, and environmental impacts on human health; fundamentals of genetics; and ecology.
Environmental psychology and globalization processes	URL: <a href="https://stepik.org/course/74398">https://stepik.org/course/74398</a>	This course offers an in-depth overview of the factors influencing how different groups live, think, and feel; how they communicate internally and with outsiders; the values they prioritize; their behavior in typical and atypical situations; and their responses to environmental changes.
Introduction, Course Organization of MIT	URL: <a href="https://www.youtube.co">https://www.youtube.co</a>	This course covers fundamental principles of biochemistry, molecular

7.016 Introductory Biology, Fall 2018	<a href="https://www.youtube.com/watch?v=KLVHqq38KJU&amp;list=PLU14u3cNGP63LmSVIVzy584-ZbjbJ-Y63&amp;index=1">m/watch?v=KLVHqq38KJU&amp;list=PLU14u3cNGP63LmSVIVzy584-ZbjbJ-Y63&amp;index=1</a>	biology, and genetics. Key topics include chemical bonds and molecular interactions; lipids and membranes; the structure of amino acids, peptides, and proteins; enzymes and metabolism; carbohydrates and glycoproteins; and nucleic acids.
MIT 7.01SC Fundamentals of Biology	URL: <a href="https://www.youtube.com/watch?v=PzY0MWE EE6U&amp;list=PLF83B8D8C87426E44">https://www.youtube.com/watch?v=PzY0MWE EE6U&amp;list=PLF83B8D8C87426E44</a>	This course focuses on the basic principles of biochemistry, molecular biology, and genetics and recombinant DNA. These principles are essential for grasping fundamental life mechanisms and consolidating the biological knowledge necessary to comprehend many everyday issues, from human health and disease to loss of biodiversity and environmental quality.
Social institutions	URL: <a href="https://www.youtube.com/watch?v=9KR1bad76qg&amp;list=PLbKSbFnKYVY2_9HVzVoAbg4G7BILVAMYx&amp;index=2&amp;pp=iAQB">https://www.youtube.com/watch?v=9KR1bad76qg&amp;list=PLbKSbFnKYVY2_9HVzVoAbg4G7BILVAMYx&amp;index=2&amp;pp=iAQB</a>	This online course explores social institutions, focusing on their defining features—structure, functionality, and historicity. It examines the primary functions of social institutions, including regulating behavior, socializing, maintaining order, and meeting societal needs. Examples covered include family, education, economy, and politics.
Social institutions—education, family, and religion	URL: <a href="https://www.youtube.com/watch?v=vStLGBTKMBQ&amp;list=PLbKSbFnKYVY2_9HVzVoAbg4G7BILVAMYx&amp;index=3&amp;pp=iAQB">https://www.youtube.com/watch?v=vStLGBTKMBQ&amp;list=PLbKSbFnKYVY2_9HVzVoAbg4G7BILVAMYx&amp;index=3&amp;pp=iAQB</a>	This course focuses on the study of social institutions, education, and the factors influencing the formation of nuclear and extended families. It examines religion and belief, social dynamics, models of social development, the variability of social development paths, global challenges of the 21st century, and risks associated with societal development.
Social Structure	URL: <a href="https://www.youtube.com/watch?v=-BVeSykcQeE&amp;list=PLbKSbFnKYVY2_9HVzVoAbg4G7BILVAMYx">https://www.youtube.com/watch?v=-BVeSykcQeE&amp;list=PLbKSbFnKYVY2_9HVzVoAbg4G7BILVAMYx</a>	This course covers theories of social institutions, including their definition and core characteristics.

**Field of science 3: Educational psychology**

<b>Online courses in English</b>	<b>Link</b>	<b>Course description</b>
Biology in Focus Chapter 1: Introduction— Evolution and the Foundations of Biology	URL: <a href="https://www.youtube.com/watch?v=uzHJluGAh_c&amp;list=PLyNjAlVqsujEP9y-bx6gR4s82APqcRaC5&amp;index=2">https://www.youtube.com/watch?v=uzHJluGAh_c&amp;list=PLyNjAlVqsujEP9y-bx6gR4s82APqcRaC5&amp;index=2</a>	This course presents the following topics: basic concepts and principles of biology; general biological patterns; biological systems; the organism as a biological system; human anatomy and physiology; basic principles of health protection, disease prevention, and environmental impacts on human health; fundamentals of genetics; and ecology.
Environmental Value Systems	URL: <a href="https://youtu.be/LP8ox5XWqAA?si=1_IBZKxWPCiAQ1fX">https://youtu.be/LP8ox5XWqAA?si=1_IBZKxWPCiAQ1fX</a>	This course explores the topic of worldview and value systems in the context of environmental protection.
Human Body Systems Overview (Updated 2024)	URL: <a href="https://youtu.be/0JDCViWGn-0?si=d2eWmKvsqqs3mHeW">https://youtu.be/0JDCViWGn-0?si=d2eWmKvsqqs3mHeW</a>	This course focuses on the study of human body systems, detailing their functions and examining examples of their structure.
Research Methods and Techniques	URL: <a href="https://youtu.be/YOppeXzFkBs?si=wSNRFXQKPBEODsYo">https://youtu.be/YOppeXzFkBs?si=wSNRFXQKPBEODsYo</a>	This course focuses on the study of biological research methods.
Social institutions	URL: <a href="https://www.youtube.com/watch?v=9KR1bad76qg&amp;list=PLbKSbFnKYVY2_9HVzVoAbg4G7BILVAMYx">https://www.youtube.com/watch?v=9KR1bad76qg&amp;list=PLbKSbFnKYVY2_9HVzVoAbg4G7BILVAMYx</a>	This online course examines key topics including social institutions, patterns of social dynamics, and models of societal development.
Social institutions— education, family, and religion	URL: <a href="https://www.khanacademy.org/test-prep/mcat/society-and-culture/social-structures/v/institutions-education-family-religion?utm_source=YT&amp;utm_medium=Desc&amp;utm_campaign=mc">https://www.khanacademy.org/test-prep/mcat/society-and-culture/social-structures/v/institutions-education-family-religion?utm_source=YT&amp;utm_medium=Desc&amp;utm_campaign=mc</a>	This course explores the topic of social institutions, with a focus on education, family, and religion.

**Field of science 4: Applied psychology**

Online courses in English	Link	Course description
Biology in Focus Chapter 1: Introduction— Evolution and the Foundations of Biology	URL: <a href="https://www.youtube.com/watch?v=uzHJluGAh_c">https://www.youtube.com/watch?v=uzHJluGAh_c</a>	This course presents the following topics: basic concepts and principles of biology; general biological patterns; biological systems; the organism as a biological system; human anatomy and physiology; basic principles of health protection, disease prevention, and environmental impacts on human health; fundamentals of genetics; and ecology.
Environmental psychology and globalization processes	URL: <a href="https://stepik.org/course/74398">https://stepik.org/course/74398</a>	This course offers an in-depth overview of the factors influencing how different groups live, think, and feel; how they communicate internally and with outsiders; the values they prioritize; their behavior in typical and atypical situations; and their responses to environmental changes.
Genetics Basics— Introduction   Don't Memorise	URL: <a href="https://youtu.be/b93KDVQIvl8?si=JvuDdUGvpa6tNSX0">https://youtu.be/b93KDVQIvl8?si=JvuDdUGvpa6tNSX0</a>	This course focuses on the study of the basics of genetics and genetic mechanisms.
Social institutions	URL: <a href="https://www.youtube.com/watch?v=9KR1bad76qg">https://www.youtube.com/watch?v=9KR1bad76qg</a>	This online course examines key topics including social institutions, patterns of social dynamics, and models of societal development.
Social institutions— education, family, and religion	URL: <a href="https://www.youtube.com/watch?v=vStLGBTKMBQ">https://www.youtube.com/watch?v=vStLGBTKMBQ</a>	This online course examines key topics including social institutions, patterns of social dynamics, and models of societal development.
Social Structure	URL: <a href="https://www.youtube.com/watch?v=StMXdmt9etE">https://www.youtube.com/watch?v=StMXdmt9etE</a>	This course covers theories of social institutions, including their definition and core characteristics.

### Field of science 5: Psychology

Online courses in English	Link	Course description
5 Kingdoms   Animals,	URL:	This course explores the diversity of

plants, fungi, bacteria & protists	<a href="https://youtu.be/G3EShHv7W04?si=jVpQ9z05DuQo8Q2y">https://youtu.be/G3EShHv7W04?si=jVpQ9z05DuQo8Q2y</a>	living things on Earth.
Evolution	URL: <a href="https://youtu.be/fI7IV3x-dGI?si=6xnjh_hWkSJwTzpi">https://youtu.be/fI7IV3x-dGI?si=6xnjh_hWkSJwTzpi</a>	The course focuses on the study of the evolution of living organisms.
How the Environment Affects Our Health. Centers for Disease Control and Prevention (CDC)	URL: <a href="https://youtu.be/I7STZsY_-Ps?si=EsGvudjr1udxuAl">https://youtu.be/I7STZsY_-Ps?si=EsGvudjr1udxuAl</a>	This course outlines the fundamental principles of health promotion, disease prevention, and the impact of environmental factors on human health.
Introduction to University Mathematics: Lecture 2—Oxford Mathematics 1st Year Student Lecture	URL: <a href="https://www.youtube.com/watch?v=UCev1nEiGqI">https://www.youtube.com/watch?v=UCev1nEiGqI</a>	This course introduces mathematical concepts and modes of thinking. Lecture 2 focuses on the binomial theorem and set theory.
Oxford Mathematics Introduction to University Mathematics: Lecture 1—Oxford Mathematics 1st Year Student Lecture	URL: <a href="https://www.youtube.com/watch?v=aS6R3epK3ms&amp;t=159s">https://www.youtube.com/watch?v=aS6R3epK3ms&amp;t=159s</a>	This course introduces mathematical concepts and modes of thinking. Lecture 1 focuses on algebra, covering natural numbers and mathematical induction.
University of Aberdeen—Online Access Course in Maths	URL: <a href="https://on.abdn.ac.uk/courses/access-maths-5/">https://on.abdn.ac.uk/courses/access-maths-5/</a>	This course, allowing participants to study at their own pace, covers a range of topics required for university admission, particularly in preparation for teacher training programs.