



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 01.03.02 Applied Mathematics and Information  
Science,

38.03.04 Public Administration,  
37.03.01 Psychology,  
41.03.04 Political Science,  
39.03.01 Sociology

Educational Programme "Computational Social Sciences"  
Specializations: "Computational Analytics in State Governance",  
"Computational Analytics in State Governance with Advanced  
Curriculum in Applied Mathematics and Information Science",  
"Computational Political Science", "Computational Political Science  
with Advanced Curriculum in Applied Mathematics and Information  
Science", "Computational Psychology", "Computational Psychology  
with Advanced Curriculum in Applied Mathematics and Information  
Science", "Computational Sociology", "Computational Sociology with  
Advanced Curriculum in Applied Mathematics and Information  
Science"

Implementing unit: Faculty of Social Sciences, HSE - Moscow  
1 st, 2025/2026 academic year

APPROVED

07.05.2025

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2025/2026 - 2028/2029

Mode of Study: Full Time

Degree: Bachelor's degree

Block Code	Course	Subject type	Department	Period of execution	Credits	Total Academic Hours	Contact Hours	Allocation of Contact Hours				Additional Information
								1	2	3	4	
	<b>Degree Programme</b>				<b>60,00</b>	<b>2 280</b>	<b>926</b>	<b>181</b>	<b>207</b>	<b>288</b>	<b>250</b>	
	<b>Data Culture</b>						<b>2</b>			<b>2</b>		
1	Independent Digital Literacy Test	C	отдел развития цифровых компетенций				2			2A		Online Course
	<b>Major</b>				<b>57,00</b>	<b>2 166</b>	<b>878</b>	<b>146</b>	<b>198</b>	<b>286</b>	<b>248</b>	
	<b>Core Professional Block (Major)</b>				<b>37,00</b>	<b>1 406</b>	<b>584</b>	<b>84</b>	<b>138</b>	<b>184</b>	<b>178</b>	
1	Algorithms and Data Structures	C	Department of Psychology		9,00	342	144		64A		80A	
2	Discrete Mathematics	C	Department of Higher Mathematics		4,00	152	64	28	36A			
3	Linear Algebra and Geometry	C	Department of Higher Mathematics		7,00	266	120			60	60A	
4	Calculus	C	Department of Higher Mathematics		7,00	266	120		38A	44	38A	
5	Programming in Python	C	Department of Psychology		4,00	152	56	56A				
6	C++ Programming	C	Department of Psychology		6,00	228	80			80A		
	<b>Elective Professional Block (Major)</b>				<b>20,00</b>	<b>760</b>	<b>294</b>	<b>62</b>	<b>60</b>	<b>102</b>	<b>70</b>	
	<b>Computational Analytics in State Governance</b>				<b>19,00</b>	<b>722</b>	<b>214</b>	<b>54</b>	<b>52</b>	<b>74</b>	<b>34</b>	
	<b>Compulsory Disciplines of Computational Analytics in State Governance</b>				<b>19,00</b>	<b>722</b>	<b>214</b>	<b>54</b>	<b>52</b>	<b>74</b>	<b>34</b>	

1	Microeconomics	C	Department of Theoretical Economics		10,00	380	124	30	28A	32	34A	
2	General Management	C	School of Politics and Governance		5,00	190	42			42A		
3	Legal foundations of state and municipal government	C	School of Politics and Governance		4,00	152	48	24	24A			
	<b>Computational Analytics in State Governance with Advanced Curriculum in Applied Mathematics and Information Science</b>				<b>19,00</b>	<b>722</b>	<b>214</b>	<b>54</b>	<b>52</b>	<b>74</b>	<b>34</b>	
	<b>Compulsory Disciplines of Computational Analytics in State Governance with Advanced Curriculum in Applied Mathematics and Information Science</b>				<b>19,00</b>	<b>722</b>	<b>214</b>	<b>54</b>	<b>52</b>	<b>74</b>	<b>34</b>	
1	Microeconomics	C	Department of Theoretical Economics		10,00	380	124	30	28A	32	34A	
2	General Management	C	School of Politics and Governance		5,00	190	42			42A		
3	Legal foundations of state and municipal government	C	School of Politics and Governance		4,00	152	48	24	24A			
	<b>Computational Political Science</b>				<b>19,00</b>	<b>722</b>	<b>310</b>	<b>50</b>	<b>50</b>	<b>124</b>	<b>86</b>	
	<b>Compulsory Disciplines of Computational Political Science</b>				<b>19,00</b>	<b>722</b>	<b>310</b>	<b>50</b>	<b>50</b>	<b>124</b>	<b>86</b>	
1	The History of Political Thought	C	School of Politics and Governance		8,00	304	132	20	20A	46	46A	
2	Categories of Political Science	C	School of Politics and Governance		5,00	190	60	30	30A			
3	Research Seminar: Introduction to Speciality	C	School of Politics and Governance		3,00	114	40			40A		
4	Comparative History of the State and Institutions	C	School of Politics and Governance		3,00	114	78			38	40A	
	<b>Computational Political Science with Advanced Curriculum in Applied Mathematics and Information Science</b>				<b>19,00</b>	<b>722</b>	<b>310</b>	<b>50</b>	<b>50</b>	<b>124</b>	<b>86</b>	
	<b>Elective Disciplines of Computational Political Science with Advanced Curriculum in Applied Mathematics and Information Science</b>				<b>19,00</b>	<b>722</b>	<b>310</b>	<b>50</b>	<b>50</b>	<b>124</b>	<b>86</b>	
1	The History of Political Thought	C	School of Politics and Governance		8,00	304	132	20	20A	46	46A	
2	Categories of Political Science	C	School of Politics and Governance		5,00	190	60	30	30A			
3	Research Seminar: Introduction to Speciality	C	School of Politics and Governance		3,00	114	40			40A		
4	Comparative History of the State and Institutions	C	School of Politics and Governance		3,00	114	78			38	40A	
	<b>Computational Psychology</b>				<b>19,00</b>	<b>722</b>	<b>276</b>	<b>70</b>	<b>70</b>	<b>80</b>	<b>56</b>	
	<b>Compulsory Disciplines of Computational Psychology</b>				<b>19,00</b>	<b>722</b>	<b>276</b>	<b>70</b>	<b>70</b>	<b>80</b>	<b>56</b>	
1	Anatomy and Physiology of the Central Nervous System	C	Department of Psychology		7,00	266	120	24	24A	40	32A	Online Course
2	Introduction to Profession	C	Department of Psychology		4,00	152	64	32	32A			
3	Research Seminar: Legal and Ethical Foundations of Psychological Practice	C	Department of Psychology		4,00	152	42	14	14A	14A		
4	Psychology of Motivation and Emotions	C	Department of Psychology		4,00	152	50			26	24A	Online Course
	<b>Computational Psychology with Advanced Curriculum in Applied Mathematics and Information Science</b>				<b>19,00</b>	<b>722</b>	<b>276</b>	<b>70</b>	<b>70</b>	<b>80</b>	<b>56</b>	
	<b>Compulsory Disciplines of Computational Psychology with Advanced Curriculum in Applied Mathematics and Information Science</b>				<b>19,00</b>	<b>722</b>	<b>276</b>	<b>70</b>	<b>70</b>	<b>80</b>	<b>56</b>	

1	Anatomy and Physiology of the Central Nervous System	C	Department of Psychology		7,00	266	120	24	24A	40	32A	Online Course
2	Introduction to Profession	C	Department of Psychology		4,00	152	64	32	32A			
3	Research Seminar: Legal and Ethical Foundations of Psychological Practice	C	Department of Psychology		4,00	152	42	14	14A	14A		
4	Psychology of Motivation and Emotions	C	Department of Psychology		4,00	152	50			26	24A	Online Course
<b>Computational Sociology</b>					<b>19,00</b>	<b>722</b>	<b>280</b>	<b>62</b>	<b>60</b>	<b>88</b>	<b>70</b>	
<b>Compulsory Disciplines of Computational Sociology</b>					<b>19,00</b>	<b>722</b>	<b>280</b>	<b>62</b>	<b>60</b>	<b>88</b>	<b>70</b>	
1	Macroeconomics	C	Department of Theoretical Economics		7,00	266	80			40	40A	
2	Microeconomics	C	Department of Theoretical Economics		4,00	152	64	32	32A			
3	Sociological Theory	C	Department of Sociology		8,00	304	136	30	28A	48	30A	
<b>Computational Sociology with Advanced Curriculum in Applied Mathematics and Information Science</b>					<b>19,00</b>	<b>722</b>	<b>280</b>	<b>62</b>	<b>60</b>	<b>88</b>	<b>70</b>	
<b>Elective Disciplines of Computational Sociology with Advanced Curriculum in Applied Mathematics and Information Science</b>					<b>19,00</b>	<b>722</b>	<b>280</b>	<b>62</b>	<b>60</b>	<b>88</b>	<b>70</b>	
1	Macroeconomics	C	Department of Theoretical Economics		7,00	266	80			40	40A	
2	Microeconomics	C	Department of Theoretical Economics		4,00	152	64	32	32A			
3	Sociological Theory	C	Department of Sociology		8,00	304	136	30	28A	48	30A	
<b>Research seminar</b>					<b>1,00</b>	<b>38</b>	<b>14</b>			<b>14</b>		
1	Research Seminar "Introduction to Computational Social Sciences"	C	Department of Psychology		1,00	38	14			14A		
<b>General Courses</b>					<b>3,00</b>	<b>114</b>	<b>44</b>	<b>35</b>	<b>9</b>			
<b>Optional General Courses</b>					<b>2,00</b>	<b>76</b>	<b>26</b>	<b>26</b>				
1	Foundations of Russian Statehood	C	School of History		2,00	76	26	26A				Online Course
<b>Core General Courses</b>					<b>1,00</b>	<b>38</b>	<b>18</b>	<b>9</b>	<b>9</b>			
1	Safe Living Basics	C	Проектно-учебная лаборатория «Бизнес-инкубатор Высшей школы экономики»		1,00	38	18	9	9A			Online Course
<b>Language and Communication</b>							<b>2</b>				<b>2</b>	
<b>Optional Courses</b>												
1	English Language	O			8,00	304	128	20	28A	40	40A	Foreign language, Credits only to the cumulative rating
<b>Examinations</b>							<b>2</b>				<b>2</b>	
1	English Language Integrative Exam	C	School of Foreign Languages				2				2A	Foreign language

**Curriculum agreed:**

Academic Supervisor Sedashov E.A. 30.04.2025

Dean Stukal D.K. 30.04.2025

Head of Centre for Educational Model Design LEPESHKIN I.A. 06.05.2025

\* Subject type:  
Compulsory course  
Elective course  
Optional course

C  
E  
O