



# **Business Informatics BSc curriculum – 2021**

**Debrecen  
2024/2025.**

## BUSINESS INFORMATICS BSC CURRICULUM

### Qualification requirements

General requirements of the diploma are regulated by The Rules and Regulations of The University of Debrecen.

### Work and Fire Safety and Physical Education

The courses of „Work and Fire Safety” and „Physical Education” are worth 1 - 1 credit, which must be completed in excess of the number of credits required for the diploma as specified in the training and outcome requirements of the degree.

### Diploma credit requirements:

Natural Science:	39 credits
Human and Economic Knowledge:	36 credits
Compulsory topics:	66 credits
Differentiated knowledge topics:	42 credits
Professional Training:	12 credits
Thesis work:	15 credits
Free choice:	12 credits
<b>Total:</b>	<b>210 credits</b>
Work and Fire Safety:	1 credit
Physical Education (2 semesters):	2 credits

### Natural Science – needed 39 credits

Code	Subject name	Credit	Type and number			Asses- ment	Prerequisites	Period	Semester
			lec.	practice					
				sem.	lab				
INBGA0101-17 INBGA0101E INBGA0101G	Foundations of computer science	6	2	2		PM		1	1
INBGA0102-17 INBGA0102E INBGA0102G	Mathematics for business and economics 1	6	2	2		E S		1	1
INBGA0208-17 INBGA0208E INBGA0208G	Mathematics for business and economics 2	6	2	2		E S	INBGA0102-17	2	2
INBGA0313-17 INBGA0313E INBGA0313L	Statistics 1	6	2		2	PM	INBGA0208-17	1	3
INBGA0419-17 INBGA0419E INBGA0419L	Statistics 2	6	2		2	PM	INBGA0313-17	2	4
INBGA0420-17 INBGA0420E INBGA0420L	Numerical mathematics	6	2		2	PM	INBGA0208-17	2	4
INBGA0525-17 INBGA0525L	Operations research	3			2	PM	INBGA0208-17	1	5

### Human and Economic Knowledge – needed 36 credits

Code	Subject name	Credit	Type and number			Assessment	Prerequisites	Period	Semester
			lec.	practice					
				sem.	lab				
INBGA0103-17 INBGA0103E	Introduction to management	3	2			E		1	1
INBGA0104-17 INBGA0104E	Fundamentals of business law	3	2			E		1	1
INBGA0209-17 INBGA0209E INBGA0209G	Microeconomics	6	2	2		E S		2	2
INBGA0210-17 INBGA0210E INBGA0210G	International financial accounting	6	2	2		E S		2	2
INBGA0314-17 INBGA0314E INBGA0314G	Macroeconomics	6	2	2		E S	INBGA0209-17	1	3
INBGA0315-17 INBGA0315E INBGA0315G	Introduction to finance	6	2	2		E S		1	3
INBGA0416-21 INBGA0416G	Organizational behaviour	3		2		PM		2	4
INBGA0527-21 INBGA0527G	Controlling	3		2		PM	INBGA0210-17 INBGA0315-17	1	5

### Compulsory topics – needed 66 credits

Code	Subject name	Credit	Type and number			Assessment	Prerequisites	Period	Semester
			lec.	practice					
				sem.	lab				
INBGA0105-17 INBGA0105L	Introduction to programming	3			2	PM		1	1
INBGA0106-17 INBGA0106E INBGA0106L	Operating systems	6	2		2	PM		1	1
INBGA0107-17 INBGA0107E	Data management, copyright law	3	2			E		1	1
INBGA0211-17 INBGA0211E INBGA0211L	Data structures and algorithms	6	2		2	PM		2	2
INBGA0212-17 INBGA0212E INBGA0212L	Programming 1	6	2		2	PM	INBGA0105-17	2	2
INBGA0317-17 INBGA0317E INBGA0317L	Programming 2	6	2		2	PM	INBGA0212-17	1	3
INBGA0318-17 INBGA0318E INBGA0318L	Database systems	6	2		2	E S	INBGA0101-17	1	3
INBGA0422-21 INBGA0422E INBGA0422L	Information and knowledge management	6	2		2	E S		2	4

Code	Subject name	Credit	Type and number			Assessment	Prerequisites	Period	Semester
			lec.	practice					
				sem.	lab				
INBGA0423-17 INBGA0423E INBGA0423L	Data management	6	2		2	PM	INBGA0318-17	2	4
INBGA0424-17 INBGA0424L	Business intelligence in practice	3			2	PM		2	4
INBGA0528-17 INBGA0528L	Developing data handling programs	3			2	PM	INBGA0212-17 INBGA0318-17	1	5
INBGA0529-17 INBGA0529E INBGA0529L	Fundamentals of software development and software testing	6	2		2	PM	INBGA0212-17	1	5
INBGA0530-21 INBGA0530E INBGA0530L	Foundations of computer security	6	2		2	E S	INBGA0212-17	1	5

### Thesis work – needed 15 credits

Code	Subject name	Credit	Type and number			Assessment	Prerequisites	Period	Semester
			lec.	practice					
				sem.	lab				
INBGA0631-21 INBGA0631X	Thesis 1	6				PM		2	6
INBGA0731-21 INBGA0731X	Thesis 2	9				PM		1	7

### Differentiated knowledge topics – needed 42 credits

Code	Subject name	Credit	Type and number			Assessment	Prerequisites	Period	Semester
			lec.	practice					
				sem.	lab				
INBGA9926-21 INBGA9926E	World economy and economic integration	3	2			E		1	5
INBGA9937-17 INBGA9937L	Computer statistics	3			2	PM	INBGA0419-17 INBGA0424-17	1	5
INBGA9932-17 INBGA9932E INBGA9932L	Financial mathematics	6	2		2	E S	INBGA0315-17	1	5
INBGA9933-17 INBGA9933L	Introduction to SAP - End user level	3			2	PM		1	5
INBGA9934-17 INBGA9934L	Advanced spreadsheets	3			2	PM	INBGA0212-17	2	6
INBGA9921-21 INBGA9921E	Marketing	3	2			E		2	6
INBGA9935-17 INBGA9935E INBGA9935L	Big Data analysis	6	2		2	PM		2	6
INBGA9936-17 INBGA9936L	Data visualization	3			2	PM		2	6

Code	Subject name	Credit	Type and number			Asses- ment	Prerequisites	Period	Semester
			lec.	practice					
				sem.	lab				
INBGA9938-17 INBGA9938E INBGA9938G	Corporate finance	6	2	2		E S	INBGA0315-17	2	6
INBGA9939-17 INBGA9939E	Strategic management	3	2			E	INBGA0103-17	2	6
INBGA9940-17 INBGA9940L	Introduction to SAP - Developer level	3			2	PM		2	6
INBGA9941-17 INBGA9941E	International business	3	2			E		2	6
INBGA9942-17 INBGA9942L	Decision support systems	3			2	PM	INBGA0208-17	2	6
INBGA9947-17 INBGA9947E	Fundamentals of Information and Coding Theory	3	2			E	INBGA313-17	2	6
INBGA9949-17 INBGA9949L	Introduction to Cloud Technologies	3			2	PM	INBGA0212-17	2	6
INBGA9997-21 INBGA9997G	Professional Training	12				PM	INBGA0317-17 INBGA0210-17	1	6
INBGA9943-21 INBGA9943E	Advanced data security	3	2			E	INBGA0530-21	1	7
INBGA9944-17 INBGA9944L	Digital marketing	3			2	PM	INBGA9921-21	1	7
INBGA9945-21 INBGA9945E INBGA9945L	Foundations of artificial intelligence	6	2		2	PM	INBGA0101-17 INBGA0212-17	1	7
INBGA9946-17 INBGA9946E INBGA9946G	Management of value creating processes	6	2	2		E S	INBGA0103-17	1	7
INBGA9952-17 INBGA9952L	Ethical hacking I.	3			2	PM	INBGA0212-17	1	
INBGA9953-17 INBGA9953E	Blockchain technology	3	2			E		1	
INBGA9958-17 INBGA9958L	Introduction to the AWS Cloud	3			2	PM		1	
INBGA9959-21 INBGA9959L	Network and System Security	3			2	PM	INBGA0106-17	1	

**Free choice – needed 12 credits**

Code	Subject name	Credit	Type and number			Asses- ment	Prerequisites	Period	Semester
			lec.	practice					
				sem.	lab				

Exam types: E exam  
S signature  
PM practical mark