



Business Informatics BSc curriculum – 2021

**Debrecen
2023/2024.**

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
Total:	210 credits
Work and Fire Safety:	1 credit
Physical Education (2 semesters):	2 credits

Natural Science – needed 39 credits

Code	Subject name	Cre- dit	Type and number			Asses- ment	Prerequisites	Period	Semes- ter
			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	Cred- it	Type and number			Asses- ment	Prerequisites	Period	Semes- ter
			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	Cre- dit	Type and number			Asses- ment	Prerequisites	Period	Semes- ter
			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	Cre- dit	Type and number			Asses- ment	Prerequisites	Period	Semes- ter
			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	Cred- it	Type and number			Asses- ment	Prerequisites	Period	Semes- ter
			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	Cred- it	Type and number			Asses- ment	Prerequisites	Period	Semes- ter
			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	Cre- dit	Type and number			Asses- ment	Prerequisites	Period	Semes- ter
			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	INBGA9933-17	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
INBGA9953-17 INBGA9953E	Blockchain technology	3	2			E		1	
INBGA9958-17 INBGA9958L	Introduction to the AWS Cloud	3			2	PM		1	

Free choice – needed 12 credits

Code	Subject name	Credit	Type and number			Assessment	Prerequisites	Period	Semester
			lec.	practice					
				sem.	lab				

Exam types: E exam
S signature
PM practical mark