Business Informatics BSc curriculum

Qualification requirements

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

Diploma credit requirements:

Natural Science:	39 credits
Human and Economic Knowledge:	40 credits
Compulsory topics:	66 credits
Differentiated knowledge topics:	40 credits
Thesis work:	15 credits
Free choice:	10 credits
Total	**210 credits**

Natural Science – needed 39 credits

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

Human and Economic Knowledge – needed 40 credits

Code	Subject name	Credit	Type and number			Assessment	Prerequisites	Period	Semester
			lec.	practice					
				sem.	lab				
INBGA0103E	Introduction to management	3	2			E		1	1
INBGA0104E	Fundamentals of business law	3	2			E		1	1
INBGA0209E INBGA0209G	Microeconomics	6	2	2		E S		2	2
INBGA0210E INBGA0210G	International financial accounting	6	2	2		E S		2	2
INBGA0314E INBGA0314G	Macroeconomics	6	2	2		E S	INBGA0209	1	3

Code	Subject name	Credit	Type and number			Assessment	Prerequisites	Period	Semester
			lec.	practice					
				sem.	lab				
INBGA0315E INBGA0315G	Introduction to finance	6	2	2		E S		1	3
INBGA0316G	Organizational behaviour	2		2		PM		1	3
INBGA0421E	Marketing	3	2			E		2	4
INBGA0526E	World economy and economic integration	3	2			E		1	5
INBGA0527G	Controlling	2		2		PM	INBGA0210 INBGA0315	1	5

Compulsory topics – needed 66 credits

Code	Subject name	Credit	Type and number			Assessment	Prerequisites	Period	Semester
			lec.	practice					
				sem.	lab				
INBGA0105L	Introduction to programming	3			2	PM		1	1
INBGA0106E INBGA0106L	Operating systems	6	2		2	PM		1	1
INBGA0107E	Data management, copyright law	3	2			E		1	1
INBGA0211E INBGA0211L	Data structures and algorithms	6	2		2	PM		2	2
INBGA0212E INBGA0212L	Programming 1	6	2		2	PM	INBGA0105	2	2
INBGA0317E INBGA0317L	Programming 2	6	2		2	PM	INBGA0212	1	3
INBGA0318E INBGA0318L	Database systems	6	2		2	E S	INBGA0101	1	3
INBGA0422E INBGA0422L	Information and knowledge management	6	2		2	PM		2	4
INBGA0423E INBGA0423L	Data management	6	2		2	PM	INBGA0318	2	4
INBGA0424L	Business intelligence in practice	3			2	PM		2	4
INBGA0528L	Developing data handling programs	3			2	PM	INBGA0212 INBGA0318	1	5
INBGA0529E INBGA0529L	Fundamentals of software development and software testing	6	2		2	PM	INBGA0212	1	5
INBGA0530E INBGA0530L	Foundations of computer security	6	2		2	PM		1	5

Thesis work – needed 15 credits

Code	Subject name	Credit	Type and number			Assessment	Prerequisites	Period	Semester
			lec.	practice					
				sem.	lab				
INBGA0731X	Thesis	15				PM		1	7

Differentiated knowledge topics – needed 40 credits

Code	Subject name	Credit	Type and number			Assessment	Prerequisites	Period	Semester
			lec.	practice					
				sem.	lab				
INBGA9932E INBGA9932L	Financial mathematics	6	2		2	E S	INBGA0315	1	5
INBGA9933L	Introduction to SAP - End user level	3			2	PM		1	5
INBGA9934L	Advanced spreadsheets	3			2	PM	INBGA0212	2	6
INBGA9935E INBGA9935L	Big Data analysis	6	2		2	PM		2	6
INBGA9936L	Data visualization	3			2	PM		2	6
INBGA9937L	Computer statistics	3			2	PM	INBGA0419 INBGA0424	2	6
INBGA9938E INBGA9938G	Corporate finance	6	2	2		E S	INBGA0315	2	6
INBGA9939E	Strategic management	3	2			E	INBGA0103	2	6
INBGA9940L	Introduction to SAP - Developer level	3			2	PM	INBGA9933	2	6
INBGA9941E	International business	3	2			E		2	6
INBGA9942L	Decision support systems	3			2	PM	INBGA0208	2	6
INBGA9943L	Advanced data security	3	2			E	INBGA0530	1	7
INBGA9944L	Digital marketing	3			2	PM	INBGA0421	1	7
INBGA9945E INBGA9945L	Foundations of artificial intelligence	6	2		2	PM	INBGA0101 INBGA0212	1	7
INBGA9946E INBGA9946G	Management of value creating processes	6	2	2		E S	INBGA0103	1	7

Free choice – needed 10 credits

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