

THE LIST OF RELEVANT AND CLOSELY RELEVANT MAJOR (Master program)

No.	Major	Relevant major	Closely relevant major	Supplementary courses
1.	TEACHING ENGLISH TO SPEAKING OF OTHER LANGUAGES (TESOL) (8140111)	– English		
2.	SOCIOLOGY (8310301)	Group 1: – Sociology – Or other fields of studies that are not listed above but their curricula are only different less than 10% (in terms of credits, only specialized courses are taken into account) from the curriculum of the Bachelor program of Sociology at TDTU.	Group 2: – Socio-economic disciplines – Psychology – Social work – Anthropology – Politics – Economics – Philosophy (historical materialism – social philosophy) – Cultural studies – Foreign languages – Or other fields of studies that are not listed above but their curricula are only different only 10% to 40% (in terms of credits) of specialized courses from the Bachelor program of Sociology at TDTU.	The applicants need to take the following supplementary courses and get the score at least 5.0/10 in the final exam (the courses that the applicants have already taken in their Bachelor programs are waived): – Introduction to Sociology (2 credits) – Sociological Theory (2 credits) – Research Methods of Sociology (2 credits)

			<p>Group 3:</p> <ul style="list-style-type: none"> - Applicants who graduated Bachelor program, but do not belong to group (1) and (2) and are now working at agencies or departments in the field of Sociology with experience of at least 2 years (to the time of admission), are now considered to apply to Master program and must study the following supplementary courses. 	<ul style="list-style-type: none"> - Introduction to Sociology (2 credits) - Sociological Theory (2 credits) - Specialized Computer Science (2 credits) - Quantitative Research Methods (2 credits) - Qualitative Research Methods (2 credits) - Qualitative Data Analysis (2 credits)
<p>3.</p>	<p>BUSINESS ADMINISTRATION (8340101)</p>	<ul style="list-style-type: none"> - Business Administration - Commercial Business - Or other fields of studies that are not listed above but their curricula are only different less than 10% (in terms of credits, only specialized courses are taken into account) from the curriculum of the Bachelor program of Business Administration at TDTU. 	<ul style="list-style-type: none"> - Finance – Banking; - Insurance; - Accounting; - Management science; - Public policy; - HRM; - Information system management; - MOS; - Management of technology and science; - Occupational safety and health management.; - Industrial Management; - Energy Management; - Logistics and Supply Chain Management; Or other fields of studies that are not listed above but their curricula are only different 10% to 40% (in terms of credits) of specialized courses from the Bachelor program of Business Administration at TDTU. 	<ul style="list-style-type: none"> - Microeconomics (3 credits) - Macroeconomics (3 credits) - Principle of management (3 credits) - Principle of marketing (3 credits) - Principle of accounting (3 credits) - Monetary and financial market (3 credits) - Company laws (2 credits) - Statistics in business and economics (3 credits) <p>Based on the undergraduate transcript to determine subjects that need to be taken</p>

			<ul style="list-style-type: none"> - Life Science; - Applied Biology; - Natural Science; - Mathematics and Statistics; - Engineering; - Producing and Processing Industries - Architecture and Construction Industry; - Agriculture, Forestry and Fisheries; - Health Care Industries; - English Language; - French Language; - Chinese Language; - Germany Language; - Japanese Language; - Korean Language; <p>Requirement: at least 1-year experience in Business Administration (to the time of admission)</p>	<ul style="list-style-type: none"> - Mathematical economics (3 credits) - Probability and statistics (3 credits) - Microeconomics (3 credits) - Macroeconomics (3 credits) - Principle of management (3 credits) - Principle of marketing (3 credits) - Principle of accounting (3 credits) - Monetary and financial market (3 credits) - Company laws (2 credits) - Statistics in business and economics (3 credits)
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4.	APPLIED MATHEMATICS (8460112)	<ul style="list-style-type: none"> - Mathematics - Applied mathematics - Mechanical mathematics - Statistics - Information mathematics - Educational mathematics - Computational science - Educational mathematics - Computational science - Educational informatics mathematics - Or other fields of studies that are not listed above but their curricula are only different less than 10% (in terms of credits) of specialized courses from the Bachelor program of Applied Mathematics at TDTU. 	<ul style="list-style-type: none"> - Mechanics; - Educational physics; - Economic mathematics; - Computational science; - Economic statistics; - Informatics; - Physics; - Educational informatics; - Or other fields of studies that are not listed above but their curricula are only different 10% to 40% (in terms of credits) of specialized courses from the Bachelor program of Applied Mathematics at TDTU. 	<ul style="list-style-type: none"> - Linear Algebra (2 credits) - Multivariate functional analysis (2 credits) - Partial differential equations (2 credits) - Numerical analysis (2 credits) - Functional analysis (3 credits) Based on the undergraduate transcript to determine subjects that need to be taken
5.	COMPUTER SCIENCE (8480101)	<ul style="list-style-type: none"> - Computer Science; - Computer networks and data communications; - Software technology; - Information system; - Computer Engineering; - Or other fields of studies that are not listed above but their curricula are only different less than 10% (in terms of credits) of specialized courses from the Bachelor program of Computer Science at TDTU. 	<ul style="list-style-type: none"> - Information Technology; - Safety Information; - Information Technology Management; - Management Information Systems; - Informatics pedagogy - Mathematics – Informatics pedagogy - Mathematics – Informatics - Applied Mathematics - Communication Engineering - Automation and control Engineering - Or other fields of studies that are not listed above but their curricula are only different 10% to 40% (in terms of credits) of specialized courses from the Bachelor program of Computer Science at TDTU. 	<ul style="list-style-type: none"> - Database Systems (3 credits); - Discrete Structures (3 credits); - Data Structures and Algorithms (3 credits). Based on the undergraduate transcript to determine subjects that need to be taken

			<p>– Other majors</p>	<ul style="list-style-type: none"> – Database Systems (3 credits); – Discrete Structures (3 credits); – Data Structures and Algorithms (3 credits); – Programming Methodology (3 credits); – Introduction to Computer Network (3 Credits); <p>Based on the undergraduate transcript to determine subjects that need be taken</p>
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<p>6.</p>	<p>ENVIRONMENTAL ENGINEERING (8520320)</p>	<ul style="list-style-type: none"> - Environmental engineering; - Environmental technology; - Environmental Engineering and Technology (issued by TDTU); - Environmental Science (issued by TDTU); - Or other fields of studies that are not listed above but their curricula are only different less than 10% (in terms of credits) of specialized courses from the Bachelor program of Environment Engineering at TDTU. 	<p><u>Group 1:</u></p> <ul style="list-style-type: none"> - Labour protection department; - Chemical Engineering; - Petrochemical Engineering and Oil Refinery; - Material Engineering - Metallurgical and Environmental; - Or other fields of studies that are not listed above but their curricula are only 10% to 40% different (in terms of credits, only specialized courses are taken into account) from the curriculum of the Bachelor program of Environmental Engineering at TDTU. <ul style="list-style-type: none"> ➔ The applicants belong to this group are approved to apply for the supplement knowledge program after graduation of Bachelor program. Courses already included in the transcript of undergraduate program are not required to be enrolled. ➔ The applicants who have at least 2 years of experience in the field of Environmental engineering (to the time of admission) are allowed to apply directly the admission enrollment without passing the supplement knowledge program. <p>- <u>Group 2:</u></p>	<ul style="list-style-type: none"> - Wastewater Microbiology (3 credits) - Environmental Analysis (3 credits) - Environmental Engineering Processing (3 credits) <p>Based on the undergraduate transcript to determine subjects that need to be taken</p>
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			<ul style="list-style-type: none"> - Biotechnology; - Biology; - Agriculture; - Forestry sector; - Food and brewery processing technology; - Aquaculture Regional and Urban planning; - Civil Engineering; - Land Administration; - Labor Relation; <p>→ The applicants belong to this group must have at least 2 years of experience in the field of environmental engineering (to the time of admission), are allowed to apply for the supplement knowledge program.</p> <p><u>Group 3:</u> Applicants who graduated Bachelor program, but do not belong to group (1) and (2) and are now working at agencies or departments in the field of Environmental engineering with at least 2-year experience (to the time of admission), are now considered to apply the admission enrollment and the supplementary courses.</p>	
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7.	CIVIL ENGINEERING (8580201)	<ul style="list-style-type: none"> - Civil engineering - Waterway engineering - Maritime engineering - Transportation engineering - Municipal engineering - Or other fields of studies that are not listed above but their curricula are only different less than 10% (in terms of credits) of specialized courses from the Bachelor program of Civil Engineering at TDTU. 	<ul style="list-style-type: none"> - Urban Planning; - Construction Economy; - Construction Management; - Geotechnical Engineering; - Water Supply & Drainage Engineering; - Water Resources Engineering; - Construction Materials; - Or other fields of studies that are not listed above but their curricula are only different 10% to 40% (in terms of credits) of specialized courses from the Bachelor program of Civil Engineering at TDTU. 	<ul style="list-style-type: none"> - Strength of materials (3 credits) - Structural mechanics (3 credits) - Steel structure (3 credits) - Based on the undergraduate transcript to determine subjects that need to be taken
8.	TRANSPORTATION ENGINEERING (8580205)	<ul style="list-style-type: none"> - Transportation Engineering; - Transportation Engineering and Technology; - Transportation Operation; - Transportation Economics; - Or other fields of studies that are not listed above but their curricula are only different less than 10% (in terms of credits) of specialized courses from the Bachelor program of Transportation Engineering at TDTU. 	<ul style="list-style-type: none"> - Regional and Urban Planning; - Hydraulic Engineering; - Civil Engineering; - Construction Engineering; - Construction Economics; - Construction Management; - Or other fields of studies that are not listed above but their curricula are only different 10% to 40% (in terms of credits) of specialized courses from the Bachelor program of Transportation Engineering at TDTU. 	<ul style="list-style-type: none"> - Quantitative Methods (3 credits); - Urban Transport Planning (3 credits) - Transportation Engineering (3 credits); - Project Management (3 credits). - Based on the undergraduate transcript to determine subjects that need to be taken

<p>9.</p>	<p>ELECTRICAL ENGINEERING (8520201)</p>	<ul style="list-style-type: none"> - Electrical engineering - Power system engineering - Electrical-electronics engineering - Industrial electricity - Or other fields of studies that are not listed above but their curricula are only different less than 10% (in terms of credits) of specialized courses from the Bachelor program of Electrical Engineering at TDTU. 	<ul style="list-style-type: none"> - Energy Management - Industrial Management - Labour Safety - Industrial Economy - Telecommunications Engineering - Electronics Engineering - Mechatronics - Production Automation - Industrial Informatics (PFIEV) - Computer Engineering - Information Technology - Thermal Mechanics - Infrastructure Engineering - Or other fields of studies that are not listed above but their curricula are only different 10% to 40% (in terms of credits) of specialized courses from the Bachelor program of Electrical Engineering at TDTU. 	<ul style="list-style-type: none"> - Electrical supply (3 credits) - Power system plant and protection (3 credits). <p>Note: These are 2 compulsory courses in the Bachelor program of Electrical Engineering, so they must be completed. If not, applicants must take them as supplementary courses.</p>
<p>10.</p>	<p>COMMUNICATIONS ENGINEERING (8520208)</p>	<ul style="list-style-type: none"> - Communication Engineering - Electronics and Telecommunications Engineering; - Electronics and Communications Engineering; - Or other fields of studies that are not listed above but their curricula are only different less than 10% (in terms of credits) of specialized courses from the Bachelor program of Communications Engineering at TDTU. 	<ul style="list-style-type: none"> - Automation and control engineering - Electrical engineering - Electronic engineering - Electrical and electronics engineering - Mechatronics engineering - Computer engineering - Communications and computer network engineering - Information systems - Information technology - Power system engineering - Or other fields of studies that are not listed above but their curricula are only different 10% to 40% (in terms of credits) of specialized courses from the Bachelor program of Communications Engineering at TDTU. 	<ul style="list-style-type: none"> - Analog and digital communications (3 credits) - Digital signal processing (3 credits) - Data networking (3 credits) <p>Note: These are 3 compulsory courses in the Bachelor program of communications engineering, so they must be completed. If not, applicants must take them as supplementary courses.</p>

<p>11.</p>	<p>AUTOMATION AND CONTROL ENGINEERING (8520216)</p>	<ul style="list-style-type: none"> - Automation and control engineering; - Automatic control; - Automation control; - Automation; - Mechatronics; - Or other fields of studies that are not listed above but their curricula are only different less than 10% (in terms of credits) of specialized courses from the Bachelor program of Automation and Control Engineering at TDTU. 	<ul style="list-style-type: none"> - Electrical engineering - Electronics engineering - Electrical-electronics engineering - Power system engineering - Mechanical engineering - Electronics and telecommunications engineering - Electronics and communications engineering - Or other fields of studies that are not listed above but their curricula are only different 10% to 40% (in terms of credits) of specialized courses from the Bachelor program of Automation and Control Engineering at TDTU. 	<ul style="list-style-type: none"> - Control system 1 (3 credits) - Microcontroller engineering 1 (3 credits) <p>Note: These are 2 compulsory courses in the Bachelor program of automation and control engineering, so they must be completed. If not, applicants must take them as supplementary courses.</p>
<p>12.</p>	<p>SPORT MANAGEMENT (8810301)</p>	<ul style="list-style-type: none"> - Physical education; - Sports training/ sport coaching; - Sports management; - Sport biomedicine; - Sports media; - Recreational sports; - Physical Education pedagogy; - Business administration; - Journalism; Media; Marketing; - Public Relations - Or other fields of studies that are not listed above but their curricula are only different less than 10% (in terms of credits) of specialized courses from the Bachelor program of Sport Management at TDTU. 	<ul style="list-style-type: none"> - Tourism; - Tourism And Travel Management; - Hospitality Management; - Restaurant Management And Catering; - Finance, Accounting; - Sociology; - International Relation - Foreign Language (English) ➔ Or other fields of studies that are not listed above but their curricula are only different 10% to 40% (in terms of credits) of specialized courses from the Bachelor program of Sport Management at TDTU. Requirement: at least 1-year experience in Sport or Event area. 	

13.	APPLIED ART (8210410)	<ul style="list-style-type: none"> - Applied Arts - Theory and History of Applied Art - Industrial Design - Graphic Design - Fashion Design - Interior Design - Art Design, Theatre and Cinema - Or other fields of studies that are not listed above but their curricula are only different less than 10% (in terms of credits) of specialized courses from the Bachelor program of Applied Art at TDTU. 	<ul style="list-style-type: none"> - Theory and History of Art - Fine Arts - Painting - Graphic - Sculpture - Ceramic - Or other fields of studies that are not listed above but their curricula are only different 10% to 40% (in terms of credits) of specialized courses from the Bachelor program of Applied Art at TDTU. 	<ul style="list-style-type: none"> - Design thinking (2 credits) - Applied Design (2 credits)
14.	ACCOUNTING (8340301)	<ul style="list-style-type: none"> - Accounting; - Accounting – Auditing; - Or other fields of studies that are not listed above but their curricula are only different less than 10% (in terms of credits) of specialized courses from the Bachelor program of Accounting at TDTU. 	<ul style="list-style-type: none"> - Finance and Banking, Insurance, ... - Business Administration, Commercial Business, Management Science, Public Policy, Public Management, Human Resource Management, Information System Management, Management Science and Technology, Occupational Safety And Health Management... - Economics, International Economic Relations, - Or other fields of studies that are not listed above but their curricula are only different less than 10% (in terms of credits) of specialized courses from the Bachelor program of Accounting at TDTU. Requirement: at least 1-year experience in Accounting fields (one copy of employment contract is required) 	<ul style="list-style-type: none"> - Principles of accounting (2 credits) - Financial accounting (2 credits) Based on the undergraduate transcript to determine subjects that need to be taken
			<ul style="list-style-type: none"> - Natural Sciences; - Mathematics and Statistics; - Engineering; - Producing and Processing Industries 	<ul style="list-style-type: none"> - Principles of Accounting (2 credits) - Financial Accounting (2 credits) - Management Accounting (2 credits)

			<ul style="list-style-type: none"> - Architecture and Construction Industry; - Agriculture, Forestry and Fishery; - Health Care Industries; - Languages: English, French, Chinese, Germany, Japanese, Korean; Requirement: at least 2-year experience in Accounting fields. 	<ul style="list-style-type: none"> - Microeconomic (2 credits) - Macroeconomic (2 credits) Based on the undergraduate transcript to determine subjects that need to be taken
15.	FINANCE AND BANKING (8340201)	<ul style="list-style-type: none"> - Finance-Banking; - Banking; - Finance; - International Finance; - Corporate Finance; - Financial Analysis and Investment; - Investment; - International Investment; - Securities Investment; - Insurance; - Or other fields of studies that are not listed above but their curricula are only different less than 10% (in terms of credits) of specialized courses from the Bachelor program of Finance and Banking at TDTU. 	<ul style="list-style-type: none"> - Accounting / Auditing; - Commercial Business; - Business Administration; - Foreign Trade and Relation; - Business; - Or other fields of studies that are not listed above but their curricula are only different less than 10% (in terms of credits) of specialized courses from the Bachelor program of Finance and Banking at TDTU. Requirement: at least 1-year experience in finance and banking fields. 	<ul style="list-style-type: none"> - Money and financial market (2 credits) - Corporate finance (2 credits) Based on the undergraduate transcript to determine subjects that need to be taken
16.	ECONOMICS LAW (8380107)	<ul style="list-style-type: none"> - Law - Economics law; - International law; - Constitutional law and administrative law; - Civil law and civil procedure law; - Penal law and criminal procedure law; - Criminology and crime prevention; - State and law theory and history; 	<ul style="list-style-type: none"> - Education Science and Teacher-Training; - Art; - Humanities; - Social and behavioral science; - Journalism and reporting; - Business and administration; - Natural science (Environmental science); - Engineering; - Manufacturing and processing; - Architecture and construction; - Agriculture, forestry and fishery; 	<ul style="list-style-type: none"> - Legal methods and skills (2 credits); - General Issues in Civil Law (2 credits); - Assets, Ownership and Inheritance (2 credits); - Company Law (2 credits); - Commercial Law (2 credits) Based on the undergraduate transcript to determine subjects that need to be taken

			<ul style="list-style-type: none"> - Health (Health management); - Social services; - Tourism, hotel, sports and personal services; - Transport services; - Environment and environment protection; - Security and national defense - Requirement: at least 2-year working experience. 	
17.	OCCUPATIONAL SAFETY AND HEALTH (8900103)	<ul style="list-style-type: none"> - Labour Safety; - Occupational Health and Safety; - Occupational Safety and Sanitation; - Or other fields of studies that are not listed above but their curricula are only different less than 10% (in terms of credits) of specialized courses from the Bachelor program of Labour Safety at TDTU. 	<p><u>Group 1:</u></p> <ul style="list-style-type: none"> - Environmental Science; - Environmental Management; - Environmental Engineering Technology; - Environmental Engineering; - Water Supply and Sanitation; - Chemical Engineering; - Biotechnology; - Civil Engineering; Construction Engineering; Transportation Engineering; Road and Bridge Engineering; Traffic Engineering - Electrical and Electronics Engineering; Electronics and Telecommunications Engineering; Automation and Control Engineering; Mechatronics; Mechanical Refrigeration; - Mechanical Engineering; Mechanical Dynamics; - Labour Relations; - Petrochemical Technology; - Textile and Garment Technology; - Metallurgical Technology; - Materials Science and Engineering; - Nuclear engineering - Or other fields of studies that are not listed above but their curricula are only different 	<ul style="list-style-type: none"> - Occupational Safety Science (2 credits); - Occupational Health and Safety Law (2 credits); - System Safety Engineering (2 credits). - The courses that the applicants have already taken in their Bachelor programs are waived.

			<p>10% to 40% (in terms of credits) of specialized courses from the Bachelor program of Labour Safety at TDTU.</p> <ul style="list-style-type: none"> - Supplementary courses are studied immediately after engineer graduation. The courses that applicants have already taken in their Bachelor programs are waived. - Applicants who have the bachelor degree in Group 1, and have experience of at least 2 years (up to the date of application) in the field of Occupational Safety and Health; Occupational Safety and Sanitation; Labour Safety; or HSE certificate (issued by TDTU) will study Master program directly, without studying the supplementary courses. <p><u>Group 2:</u></p> <ul style="list-style-type: none"> - The applicants belong to this group must have experience of at least 2 years in the field of occupational safety and health (up to the date of application): <ul style="list-style-type: none"> • With HSE certificate (issued by TDTU), applicants are allowed to apply directly to the Master program without attending the supplementary courses. • Without HSE certificate (issued by TDTU), applicants are allowed to apply to the master programs and must take supplementary courses. 	
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18	CHEMICAL ENGINEERING (8520301)	<ul style="list-style-type: none">- Chemical Engineering- Chemical Technology- Bachelor of Chemistry- Or other fields of studies that are not listed above but their curricula are only different less than 10% (in terms of credits) of specialized courses from the Bachelor program of Chemical Engineering at TDTU.		
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