DONG NAI TECHNOLOGY UNIVERSITY

DNTU

CURRICULUM

Major: **Medical Laboratory Science**

Level of education: **Undergraduate**

Mode of study: **Full-time**

Duration: **4 years**

Degree awarded: **Bachelor**

Cohort: **Cohort 21 (2025 - 2029)**

Total accumulated credits for the program: **138**

Courses marked (*) are not included in the cumulative GPA.

SEMESTER 1: 4 accumulated credits (compulsory: 4, elective: 0)					
Course code	**Course title**	**Credits**	**Total**	**Theory**	**Practice**
Compulsory courses		**15**			
CB70303	Public Speaking Skills	1	15	15	0
CB70107	Understanding DNTU (*)	1	15	15	0
TA70301	Key English 1 (*)	3	45	45	0
TA70302	Key English 2 (*)	3	45	45	0
TA70303	Key English 3 (*)	3	45	45	0
TA70304	English Speaking Community (*)	2	30	30	0
TN70020	Introduction to AI (*)	1	15	15	0
DD70001	General Biology and Genetics	2	30	30	0
XN70002	Introduction to Medical Laboratory Science	1	15	15	0
SEMESTER 2: 21 accumulated credits (compulsory: 19, elective: 2)					
Course code	**Course title**	**Credits**	**Total**	**Theory**	**Practice**
Compulsory courses		**19**			
CB70101	Marxist-Leninist Philosophy	3	45	45	0
CB70304	Emotional Management Skills	1	15	15	0
CB70401	National Defense and Security Education 1 (*)	3	45	45	0

CB70402	National Defense and Security Education 2 (*)	2	30	30	0
CB70403	National Defense and Security Education 3 (*)	1	30	0	30
CB70404	National Defense and Security Education 4 (*)	2	60	0	60
CB70411	Swimming (*)	1	30	0	30
TA70305	Intensive English 1	4	60	60	0
TH70001	Informatics 1	2	45	15	30
DD70008	Physiology	2	30	30	0
DD70003	Epidemiology	2	30	30	0
XN70061	Fundamental Biochemistry	2	45	15	30
XN70049	Anatomy - Histology	3	60	30	30
Elective courses (choose 1 of 3 courses)		**2**			
DD70014	Nutrition and Health	2	30	30	0
DD70006	Pharmacology	2	30	30	0
Physical Education elective courses					
CB71412	Football	1	30	0	30
CB71403	Volleyball	1	30	0	30
CB71404	Badminton	1	30	0	30
CB71410	Pickleball	1	30	0	30
CB71413	Fitness	1	30	0	30
CB71406	Dancesport	1	30	0	30
CB71407	Basketball	1	30	0	30
CB71414	Martial Arts	1	30	0	30
SEMESTER 3: 23 accumulated credits (compulsory: 19, elective: 4)					
Course code	**Course title**	**Credits**	**Total**	**Theory**	**Practice**
Compulsory courses		**19**			
CB70102	Marxist-Leninist Political Economy	2	30	30	0
CB70106	Introduction to Law	2	30	30	0
CB70305	Communication and Relationship-Building Skills	2	30	30	0

CB70205	Applied Statistics	3	45	45	0
TA70306	Intensive English 2	4	60	60	0
TH70002	Informatics 2	2	60	0	60
DD70009	Pathophysiology - Immunology	2	30	30	0
XN70007	Medical - Surgical Pathology	2	30	30	0
Elective courses (choose 2 of 6 courses)		**4**			
CB71101	Environment and Sustainable Development	2	30	30	0
CB71102	Behavioral Psychology	2	30	30	0
CB71103	Psychology - Medical Ethics	2	30	30	0
XN71039	Health Education and Promotion	2	30	30	0
DD70040	Basic First Aid Practice	2	60	0	60
XN71063	Basic Nursing Techniques	2	60	0	60
SEMESTER 4: 22 accumulated credits (compulsory: 22, elective: 1)					
Course code	**Course title**	**Credits**	**Total**	**Theory**	**Practice**
Compulsory courses		**22**			
CB70103	Scientific Socialism	2	30	30	0
CB70306	Negotiation Skills	2	30	0	0
CB70206	Scientific Research Methodology	2	45	15	30
TA70307	Intensive English 3	4	60	60	0
XN70010	Basic Laboratory Techniques	2	45	15	30
XN70050	Biochemistry 1	3	60	30	30
XN70017	Microbiology 1	2	45	15	30
XN70055	Cellular Hematology	3	30	30	30
XN70030	Parasitology 1	2	45	15	30
SEMESTER 5: 23 accumulated credits (compulsory: 21, elective: 2)					
Course code	**Course title**	**Credits**	**Total**	**Theory**	**Practice**
Compulsory courses		**21**			
CB70104	Ho Chi Minh Ideology	2	30	30	0
CB70105	History of the Communist Party of Vietnam	2	30	30	0

TA70308	Intensive English 4	4	60	60	0
XN70022	Cytology Testing 1	2	45	15	30
XN70051	Biochemistry 2	3	60	30	30
XN70053	Microbiology 2	3	60	30	30
XN70056	Coagulation Hematology	3	60	30	30
XN70031	Parasitology 2	2	45	15	30
Elective courses (choose 1 of 2 courses)		**2**			
XN71040	Laboratory Organization and Management	2	30	30	0
DD71022	Health Care Organization and Management	2	30	30	0
SEMESTER 6: 23 accumulated credits (compulsory: 21, elective: 2)					
Course code	**Course title**	**Credits**	**Total**	**Theory**	**Practice**
Compulsory courses		**21**			
CB70309	Effective and Creative Thinking Skills	2	30	30	0
XN70052	Biochemistry 3	3	60	30	30
XN70054	Microbiology 3	3	60	30	30
XN70057	Transfusion Hematology	3	60	30	30
XN70032	Parasitology 3	2	45	15	30
XN70035	Internship in Basic Laboratory Techniques	6	300	0	300
XN70033	Molecular Biomedicine	2	30	30	0
Elective courses (choose 1 of 2 courses)		**2**			
XN71037	Biosafety in Medical Laboratories	2	30	30	0
XN71038	Hospital Infection Control	2	30	30	0
SEMESTER 7: 12 accumulated credits (compulsory: 6, elective: 6)					
Course code	**Course title**	**Credits**	**Total**	**Theory**	**Practice**
Compulsory courses		**6**			
XN70036	Internship in Advanced Laboratory Techniques	6	300	0	300
Elective courses (choose 3 of 6 courses)		**6**			
XN70023	Cytology Testing 2	2	45	15	30
XN71060	Advanced Molecular Biology	2	45	15	30
XN70034	Laboratory Quality Assurance	2	30	30	0

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TP70002	Food Microbiology Practice	2	60	0	60
XN71041	Clinical Toxicology	2	30	30	0
SEMESTER 8: 10 accumulated credits (compulsory: 4, elective: 6)					
Course code	**Course title**	**Credits**	**Total**	**Theory**	**Practice**
Professional internship, graduation		***4***			
XN70042	Graduation Internship	4	200	0	200
Graduation thesis		***6***			
XN71043	Graduation thesis	6	180	0	180
Courses in lieu of the graduation thesis		***6***			
XN71058	Graduation Special Topic	3	90	0	90
XN71059	Laboratory Quality Management System	3	60	30	30