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 22 (2026 - 2030)**

Total accumulated credits for the program: **132**

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

SEMESTER 1: 11 accumulated credits (compulsory: 8, elective: 3)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**8**			
HH70003	General Chemistry	2	30	30	0
XN70002	Introduction to Medical Laboratory Science	1	15	15	0
XN70049	Anatomy - Histology	3	60	30	30
XN70003	Biology and Genetics	2	30	30	0
CB70411	Swimming (*)	1	30	0	30
TH70001	Informatics 1 (*)	2	45	15	30
Foreign language elective courses (choose 1 of 2 courses)		**3**			
TA71331	English 1	3	45	45	0
TQ71321	Chinese 1	3	45	45	0
SEMESTER 2: 18 accumulated credits (compulsory: 7, elective: 11)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**

Compulsory courses		**7**			
CB70101	Marxist-Leninist Philosophy	3	45	45	0
XN70061	Fundamental Biochemistry	2	45	15	30
DD70008	Physiology	2	30	30	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
TH70002	Informatics 2 (*)	2	60	0	60
Major foundation elective courses (choose		**6**			
XN71039	Health Education and Promotion	2	30	30	0
DD71022	Health Care Organization and Management	2	30	30	0
DD70014	Nutrition and Health	2	30	30	0
DD70006	Pharmacology	2	30	30	0
DD70003	Epidemiology	2	30	30	0
XN71062	Environmental Health	2	30	30	0
Foreign language elective courses (choose		**3**			
TA71332	English 2	3	45	45	0
TQ71322	Chinese 2	3	45	45	0
Skills elective courses (choose 1 of 2		**2**			
CB70305	Communication and Relationship-Building Skills	2	30	30	0
CB70306	Negotiation Skills	2	30	30	0
Physical Education elective courses		**1**			
CB71412	Football	1	30	0	30

CB71403	Volleyball	1	30	0	30
CB71404	Badminton	1	30	0	30
CB71410	Pickleball	1	30	0	30
SEMESTER 3: 23 accumulated credits (compulsory: 18, elective: 5)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**18**			
CB70102	Marxist-Leninist Political Economy	2	30	30	0
CB70106	Introduction to Law	2	30	30	0
CB70205	Applied Statistics	3	45	45	0
CB71103	Psychology - Medical Ethics	2	30	30	0
CB70206	Scientific Research Methodology	2	30	30	0
DD70009	Pathophysiology - Immunology	2	30	30	0
XN70007	Medical - Surgical Pathology	2	30	30	0
XN70071	Basic Laboratory Techniques	3	60	30	30
Physical Education elective courses		**1**			
CB71413	Fitness	1	30	0	30
CB71407	Basketball	1	30	0	30
CB71414	Martial Arts	1	30	0	30
Foreign language elective courses (choose		**3**			
TA71333	English 3	3	45	45	0
TQ71323	Chinese 3	3	45	45	0
Major foundation elective courses (choose		**2**			
DD70040	Basic First Aid Practice	2	60	0	60
XN71063	Basic Nursing Techniques	2	60	0	60

SEMESTER 4: 13 accumulated credits (compulsory: 13, elective: 0)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**13**			
CB70103	Scientific Socialism	2	30	30	0
XN70050	Biochemistry 1	3	60	30	30
XN70064	Microbiology 1	3	60	30	30
XN70055	Cellular Hematology	3	60	30	30
XN70030	Parasitology 1	2	45	15	30
Foreign language elective courses (choose		**9**			
TA71334	English for International Certification	9	135	135	0
TQ71324	Chinese for International Certification	9	135	135	0
SEMESTER 5: 18 accumulated credits (compulsory: 18, elective: 0)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**18**			
CB70104	Ho Chi Minh Ideology	2	30	30	0
XN70051	Biochemistry 2	3	60	30	30
XN70053	Microbiology 2	3	60	30	30
XN70022	Cytology Testing 1	2	45	15	30
XN70056	Coagulation Hematology	3	60	30	30
XN70031	Parasitology 2	2	45	15	30
XN70065	Molecular Biomedicine	3	60	30	30
SEMESTER 6: 21 accumulated credits (compulsory: 21, elective: 0)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**21**			

CB70105	History of the Communist Party of Vietnam	2	30	30	0
XN70052	Biochemistry 3	3	60	30	30
XN70054	Microbiology 3	3	60	30	30
XN70023	Cytology Testing 2	2	45	15	30
XN70057	Transfusion Hematology	3	60	30	30
XN70032	Parasitology 3	2	45	15	30
XN70035	Internship in Basic Laboratory Techniques	6	300	0	0
SEMESTER 7: 18 accumulated credits (compulsory: 0, elective: 18)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Elective knowledge (choose 1 of the Orientation: Biochemistry - Hematology		**18**			
XN71066	Advanced Clinical Hematology	2	30	30	0
XN71067	Advanced Clinical Biochemistry	2	45	15	30
XN71068	Clinical Toxicology	2	45	15	30
XN71037	Biosafety in Medical Laboratories	2	30	30	0
XN70034	Laboratory Quality Assurance	2	30	30	0
XN71040	Laboratory Organization and Management	2	30	30	0
XN70036	Internship in Advanced Laboratory Techniques	6	300	0	0
Orientation: Microbiology - Parasitology -		**18**			
XN71069	Advanced Microbiology - Parasitology	2	30	30	0
XN71060	Advanced Molecular Biology	2	45	15	30
XN71070	Microbiology - Parasitology in Food	2	45	15	30
XN71037	Biosafety in Medical Laboratories	2	30	30	0

XN70034	Laboratory Quality Assurance	2	30	30	0
XN71040	Laboratory Organization and Management	2	30	30	0
XN70036	Internship in Advanced Laboratory Techniques	6	300	0	0
SEMESTER 8: 10 accumulated credits (compulsory: 4, elective: 6)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
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