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 20 (2024 - 2028)**

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		**4**			
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
CB70303	Public Speaking Skills	1	15	15	0
XN70002	Introduction to Medical Laboratory Science	1	15	15	0
XN70003	Biology and Genetics	2	30	30	0
SEMESTER 2: 23 accumulated credits (compulsory: 23, elective: 0)					
Course code	**Course title**	**Credits**	**Total**	**Theory**	**Practice**
Compulsory courses		**23**			
TA70305	Intensive English 1	4	60	60	0
CB70301	Informatics 1	2	45	15	30
CB70304	Emotional Management Skills	1	15	15	0
CB70101	Marxist-Leninist Philosophy	3	45	45	0
CB70205	Applied Statistics	3	45	45	0

XN70001	Chemistry	2	45	15	30
XN70004	Anatomy	2	45	15	30
XN70005	Physiology	2	30	30	0
DD70009	Pathophysiology - Immunology	2	30	30	0
DD70040	Basic First Aid Practice	2	60	0	60
SEMESTER 3: 22 accumulated credits (compulsory: 14, elective: 8)					
Course code	**Course title**	**Credits**	**Total**	**Theory**	**Practice**
Compulsory courses		**14**			
TA70306	Intensive English 2	4	60	60	0
CB70302	Informatics 2	2	60	0	60
CB71401	Physical Education 1 - Swimming (*)	1	30	0	30
CB70305	Communication and Relationship-Building Skills	2	30	30	0
CB70106	Introduction to Law	2	30	30	0
CB70102	Marxist-Leninist Political Economy	2	30	30	0
XN70007	Medical - Surgical Pathology	2	30	30	0
Elective courses (choose 4 of 9 courses)		**8**			
CB71103	Psychology - Medical Ethics	2	30	30	0
CB71101	Environment and Sustainable Development	2	30	30	0
CB71102	Behavioral Psychology	2	30	30	0
DD70003	Epidemiology	2	30	30	0
DD70014	Nutrition and Health	2	30	30	0
MT70201	Occupational Health	2	30	30	0
DD71022	Health Care Organization and Management	2	30	30	0
XN71009	Fundamentals of Nursing Practice	2	60	0	60
XN71008	Laboratory Techniques Practice	2	60	0	60
SEMESTER 4: 21 accumulated credits (compulsory: 21, elective: 0)					
Course code	**Course title**	**Credits**	**Total**	**Theory**	**Practice**
Compulsory courses		**21**			
TA70307	Intensive English 3	4	4	60	0
CB70103	Scientific Socialism	2	30	30	0

DD70006	Pharmacology	2	30	30	0
XN70010	Basic Laboratory Techniques	2	45	15	30
XN70030	Parasitology 1	2	45	15	30
XN70011	Biochemistry 1	2	30	30	0
XN70012	Biochemistry Practice 1	1	30	0	30
XN70017	Microbiology 1	2	45	15	30
XN70024	Cellular Hematology	3	45	45	0
XN70025	Cellular Hematology Practice	1	30	0	30
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
Elective courses (choose 1 of 3 courses)		**1**			
CB71402	Football (*)	1	30	0	30
CB71403	Volleyball (*)	1	30	0	30
CB71404	Badminton (*)	1	30	0	30
SEMESTER 5: 21 accumulated credits (compulsory: 21, elective: 0)					
Course code	**Course title**	**Credits**	**Total**	**Theory**	**Practice**
Compulsory courses		**21**			
TA70308	Intensive English 4	4	4	60	0
CB70104	Ho Chi Minh Ideology	2	30	30	0
CB70105	History of the Communist Party of Vietnam	2	30	30	0
XN70006	Histology	2	30	30	0
XN70013	Biochemistry 2	2	30	30	0
XN70014	Biochemistry Practice 2	1	30	0	30
XN70018	Microbiology 2	2	30	30	0
XN70019	Microbiology Practice 2	1	30	0	30
XN70026	Coagulation Hematology	2	30	30	0

XN70027	Coagulation Hematology Practice	1	30	0	30
XN70031	Parasitology 2	2	45	15	30
Elective courses (choose 1 of 3 courses)		**1**			
CB71405	Martial Arts (*)	1	30	0	30
CB71406	Fitness (*)	1	30	0	30
CB71407	Dancesport (*)	1	30	0	30
CB71408	Basketball (*)	1	30	0	30
SEMESTER 6: 21 accumulated credits (compulsory: 19, elective: 2)					
Course code	**Course title**	**Credits**	**Total**	**Theory**	**Practice**
Compulsory courses		**19**			
XN70022	Cytology Testing 1	2	45	15	30
XN70015	Biochemistry 3	2	30	30	0
XN70016	Biochemistry Practice 3	1	30	0	30
XN70020	Microbiology 3	2	30	30	0
XN70021	Microbiology Practice 3	1	30	0	30
XN70028	Transfusion Hematology	2	30	30	0
XN70029	Transfusion Hematology Practice	1	30	0	30
XN70032	Parasitology 3	2	45	15	30
XN70035	Internship in Basic Laboratory Techniques	6	300	0	300
Elective courses (choose 1 of 3 courses)		**2**			
XN71037	Biosafety in Medical Laboratories	2	30	30	0
TP70002	Food Microbiology Practice	2	60	0	60
XN71038	Hospital Infection Control	2	30	30	0
SEMESTER 7: 16 accumulated credits (compulsory: 14, elective: 2)					
Course code	**Course title**	**Credits**	**Total**	**Theory**	**Practice**
Compulsory courses		**14**			
CB70206	Scientific Research Methodology	2	45	15	30
XN70023	Cytology Testing 2	2	45	15	30
XN70033	Molecular Biomedicine	2	30	30	0
XN70034	Laboratory Quality Assurance	2	30	30	0

XN70036	Internship in Advanced Laboratory Techniques	6	300	0	300
Elective courses (choose 1 of 3 courses)		**2**			
XN71040	Laboratory Organization and Management	2	30	30	30
XN71041	Clinical Toxicology	2	30	30	30
XN71039	Health Education and Promotion	2	30	30	30
SEMESTER 8: 10 accumulated credits (compulsory: 4, elective: 6)					
Course code	**Course title**	**Credits**	**Total**	**Theory**	**Practice**
Professional internship, graduation		***10***			
Compulsory courses		**4**			
XN70042	Graduation Internship	4	250	0	250
Graduation thesis		***6***			
XN71043	Graduation thesis	6	250	0	250
Courses in lieu of the graduation thesis		***6***			
XN71044	Advanced Biochemistry	3	60	30	30
XN71045	Advanced Molecular Biology	3	60	30	30
XN71046	Advanced Hematology Testing	3	60	30	30