

**Curriculum of the Bachelor Program at the Department of International Master Degree
Program for Molecular Medicine in Emerging Viral Infections, Chang Gung University
(For students admitted in Fall, 2025)**

Required(R) or Elective(E)	Course Title	Credit	Year	Fall	Spring	Note
R	Seminar	2	1	1	1	
R	Seminar	2	2	1	1	
R	Special topics in RNA viruses	2	1	2		
R	Molecular & cellular biology	2	1	2		
R	Technologies and Advances in Emerging Viral Infections	2	1		2	
E	Advanced Cell Biology	2	1		2	
E	Advances in Immunology	2	1		2	
E	Advanced Technologies in Systems Biology	3	1	3		
E	Advanced Immunology	3	1	3		
E	Scientific Integrity and Scientific Writing	2	1		2	
E	Advanced Bacteriology	2	1		2	
E	Biological and Biomedical English Paper Writing Style	2	1	2		
E	Vaccine Development	3	1	3		
E	Animal model for studying emerging infectious diseases	2	1	2		
E	Genomic data science	2	1	2		
E	Deep learning with Python	2	1	2		
E	Methodology of molecular virology	2	1		2	
E	Test reagent kit development	2	1		2	
E	Anti-virus drug development	2	1		2	
E	Advanced clinical virology	2	1		2	
E	Practice in emerging virus research and detection	2	1	2		
E	Zoonotic Viral Infections	2	1	2		

Note :

1. Candidates for the master' s degree must fulfill a minimum of 30 credits including 6 credits for the master thesis. Required courses are 10 credits and elective course are 14 credits.
2. The 6 credits for the "Master Thesis" are given only after passing of the degree examination and submitting thesis.
3. In addition to the courses listed above, other English-taught courses offered by relevant Graduate Institutes and Departments of the College of Medicine can be taken to fulfill the requirements for elective courses.
4. Students must meet at least one of the following English proficiency requirements to graduate:
 - (1) A passing score in the first stage of the GEPT high-intermediate level.
 - (2) A TOFEL score of 500 or higher.
 - (3) A TOFEL iBT score of 61 or higher.
 - (4) An Average FLPT-English score of 65 or higher.
 - (5) An IELTS score of 5 or higher.
 - (6) A TOEIC score of 600 or higher.

- (7) A Linguaskill score of 145 or higher.
- (8) A BEST Test of English Proficiency score of 230 in the listening and reading test (with no individual section below 100) and a score of 610 in the speaking and writing test (with no individual section below 280).
- (9) Other equivalent internationally recognized English proficiency tests (relevant exam documents must be provided by the applicant).
- (10) Participate in the internal English proficiency test organized by the school and meet the internal test standards.
- (11) Complete one semester of the remedial English course "English Workshop" and achieve a passing grade.