

Course syllabus
SCBE 203 General Genetics: August-December 2026

Lecture Tuesday: 9.30-12.30 Room SC1-161

Google classroom Code: 2gjpbe5x

Date	Topic	Instructor
Aug 4	Introduction: syllabus distribution and in-class activity	PJS
Aug 11	Premendelian & Mendelian inheritance; meiosis; probability	PJS
Aug 18	Extension of Mendelian genetics	PJS
Aug 25	Diseases and inheritance of genetic disorders	PP
Sep 1	DNA: structure, replication and variation	PP
Sep 8	Gene expression, regulation and development I	PH
Sep 15	Gene expression, regulation and development II	PH
Sep 22	Genetics of organisms and populations I	NO
	Midterm examination	
Oct 20	Genetics of organisms and populations II	NO
Oct 27	Special topics in modern genetics I	PK
Nov 3	Special topics in modern genetics II	PK
Nov 10	Activity and discussion (I)	PJS
Nov 17	Genetic controls of quantitative traits and their applications	PJS
Nov 24	Activity and discussion (II)	PJS
Nov 27	Term project Presentation	PJS
	Final examination	

Textbook:

Concepts of Genetics (11th Edition) 11th Edition by William S. Klug, Michael R. Cummings, Charlotte A. Spencer, Michael A. Palladino

Evaluation

Evaluation in this course will include midterm and final examinations, which may be administered either as take-home assignments or in-class exams, depending on the instructor's preference. Notification of examination dates will be provided at least two weeks in advance. The course will also include several homework assignments and in-class quizzes. The components of your grade will be weighted as follows:

- Class Participation and Discussion: 10%
- Quizzes: 10%
- Class Presentation: 20%
- Midterm Examination: 30%
- Final Examination: 30%

Grades will be based on the relative performance of the entire class, but an overall score of more than 80% is required to qualify for an 'A'. Regular attendance and active participation in class are crucial for a meaningful learning experience in this genetics course. Reading the assigned textbook chapters before class is strongly recommended to enhance your understanding of the lectures. Attendance in recitation sessions is essential to keep up with the course topics and to complete the homework assignments and short quizzes, which are due at the end of each recitation period.

Other Course Policies

Make-Up Tests: If you miss an exam or quiz due to an excused absence, you must contact the instructor immediately and provide written validation for the absence as defined by the University Bulletin. Make-up exams and quizzes will be scheduled within one week of the original date. Beyond this timeframe, the missed exam will be considered the dropped exam. If you miss the final exam due to an excused absence or fail to attend a scheduled make-up test, you will receive an "I" (Incomplete) grade for the course. Provide validation for your excused absence promptly, and arrangements will be made to complete the final exam or test, after which your grade will be updated accordingly. All make-up work policies are in accordance with the University Bulletin.

Cheating and Plagiarism: This course maintains a zero-tolerance policy for any forms of cheating and plagiarism. If you are uncertain whether your work may constitute plagiarism, consult the university bulletin, or contact the instructor before submitting your assignments.

Instructors:

1. Assoc. Prof. Dr. Patompong Johns Saengwilai (PJS) Email: patompong.sae@mahidol.edu
2. Asst. Prof. Dr. Phurt Harnvoravongchai (PH) Email: phurt.har@mahidol.ac.th
3. Dr. Pagkapol Pongsawakul (PP) Email: pagkapol.pon@mahidol.edu
4. Dr. Nuttaphon Onpan (NO) Email: nuttaphon.onp@mahidol.ac.th
5. Dr. Pahol Kosiyachinda (PK) Email: pkosiya@gmail.com

Course coordinators:

Assoc. Prof. Patompong Saengwilai: patompong.sae@mahidol.edu
Office: SC2-306 Salaya campus campus