

Course syllabus

SCBE 204 General Genetics Lab: August-December 2026

Lecture Tuesday: 13:30-16:30 Room SC2-342

Google classroom: t5vt7gzs

Date	Lecture	Instructor
Aug 4	Class orientation	PJS
Aug 11	Introduction to DNA extraction and detection	KB*
Aug 18	DNA extraction, quantification and amplification	KB*
Aug 25	DNA detection	KB*
Sep 1	DNA lab result and discussion	KB*
Sep 8	Basic bioinformatic study (I)	PP
Sep 15	Basic bioinformatic study (II)	PP
Sep 22	Population and evolutionary genetics (I)	NO
	Midterm Examination	
Oct 20	Population and evolutionary genetics (II)	NO
Oct 27	DNA forensics	PK
Nov 3	Genetically modified food	PK
Nov 10	Quantitative genetic analysis	PJS
Nov 17	Term project draft and discussion (I)	PJS
Nov 24	Term project draft and discussion (II)	PJS
Nov 27	Term project presentation	PJS
	Final Examination	

*Teaching assistants (JS and KJ)

Text book:

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

Evaluation

Depending on the instructor, midterm and final examinations may be assigned as take-home assignments or in-class exams. You will be notified at least two weeks before the examination date. 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:	30%
Quizzes:	10%
Class Presentation:	20%
Midterm Examination:	20%
Final Examination:	20%

Grades will be based on the relative performance of the entire class; however, you must achieve more than 80% to qualify for an 'A'. Regular attendance and active participation in class are essential for a meaningful learning experience in this genetics course. Reading the assigned textbook chapters before class will enhance your understanding of the lectures. Attendance in recitation sessions is necessary to keep up with the course topics, complete homework assignments, and take short quizzes, all of 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, contact the instructor immediately and provide written validation for your absence as described in 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. Once completed, 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:

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| 1. Assoc. Prof. Dr. Patompong Johns Saengwilai (PJS) | Email: patompong.sae@mahidol.edu |
| 2. Assist. Prof. Dr. Kulaporn Boonyaves (KB) | Email: Kulaporn.boon@mahidol.ac.th |
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| 5. Dr. Pahol Kosiyachinda (PK) | Email: pkosiya@gmail.com |
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Teaching Assistants for SCBE 204

1. Julaluck Sanghirun (JS)
2. Kanticha Jutharee (KJ)

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