

Division of Applied Biosciences

No.	Title	Instructor	Credits	Semester	Notes
DA01	Advanced Genetics I	TBD	2	Oct-Mar	★ ◎
DA02	Advanced Genetics II	Kentaro YOSHIDA	2	Apr-Sep	☆ ◎
DA52	Crop Evolutionary Genomics	Ryohei TERAUCHI	2	Oct-Mar (intensive)	★
DA53	Genome Bioinformatics	Ryohei TERAUCHI	2	Oct-Mar (intensive)	☆
DA05	Plant Pathology (Advanced Course) I	Yoshitaka TAKANO	2	Oct-Mar	★
DA06	Plant Pathology (Advanced Course) II	Kazuyuki MISE, Akira MINE	2	Apr-Sep	☆
DA45	Sociobiology of Insects	Kenji MATSUURA, Mamoru TAKATA	2	Oct-Mar	☆
DA08	Evolutionary Ecology of Insects	Kenji MATSUURA, Mamoru TAKATA	2	Apr-Sep	☆
DA09	Advances in Insect Physiology	Takaaki DAIMON, Takahiro Ohde	2	Oct-Mar (intensive)	★
DA50	Fisheries and Environmental Oceanography I	Hiromichi MITAMURA, Kotaro ICHIKAWA, Shiho KOBAYASHI, Satoko S. KIMURA, Manabu KUME	2	Oct-Mar	☆
DA51	Fisheries and Environmental Oceanography II	Kotaro ICHIKAWA, Hiromichi MITAMURA, Shiho KOBAYASHI, Satoko S. KIMURA, Manabu KUME	2	Oct-Mar	★ ◎
DA12	Fisheries Biology for Marine Stock Enhancement	TBD	2	TBD	NA in AY2021
DA13	Biology of Marine Resources	Masatomo TAGAWA	2	Apr-Sep	★
DA14	Current Topics in Marine Microbiology	Takashi YOSHIDA	2	Apr-Sep	☆ ◎
DA15	Marine Microbial Physiology	Ryoma KAMIKAWA	2	Oct-Mar	★
DA55	Aquatic Environmental Microbiology	Shigeki SAWAYAMA	1	Oct-Mar (first half)	★
DA48	Marine Enviromental Microbiology	Satoshi NAKAGAWA	2	Apr-Sep	☆
DA18	Marine Bio-products Technology	TBD	2	TBD	NA in AY2021
DA19	Biochemistry of Aquatic Life	Tatsuya SUGAWARA	2	Apr-Sep	☆
DA20	Function of Marine Organisms	Kenji SATO	2	Apr-Sep	◎
DA21	Aquatic Cell Physiology	TBD	2	Oct-Mar	NA in AY2021
DA22	Ecology of Marine Living Resources	Reiji MASUDA, Yoshiaki KAI, Keita SUZUKI	2	Apr-Sep (intensive)	★
DA23	Advanced Animal Breeding and Genetics	Norihide YOKOI, Yukio TANIGUCHI	2	Apr-Sep	★
DA24	Animal Genomics	Norihide YOKOI, Yukio TANIGUCHI	2	Apr-Sep	☆
DA25	Reproductive Biology	Shuntaro IKEDA	2	Oct-Mar	★
DA26	Developmental and Genetic Engineering	TBD	2	Oct-Mar	★
DA43	Molecular Embryology in Mammals	Naojiro MINAMI	2	Apr-Sep	☆
DA27	Trace Nutrient Science in Animals	Tohru MATSUI	2	Apr-Sep	☆
DA28	Metabolism and its Regulation of Animals	Masayuki FUNABA	2	Apr-Sep	★
DA29	Animal Physiology and Anatomy	Takeshi Ohta, Miki SUGIMOTO	2	Oct-Mar	☆
DA56	Animal Pathophysiology	Takeshi Ohta	2	Oct-Mar	★
DA31	System Science for Animal Production	Hiroyuki HIROOKA	2	Oct-Mar	★
DA32	Animal Production in Tropics	Hajime KUMAGAI	2	Apr-Sep	☆
DA49	Advanced Course on Entomological Sciences	Takaaki DAIMON and other instructors	2		NA in AY2021
DA34	Special Lecture for Applied Biosciences I	Hideyuki MANNEN	1	Apr-Sep (intensive)	
DA35	Special Lecture for Applied Biosciences II	Takashi KURAMOTO	1	Oct-Mar (intensive)	
DA36	Special Lecture for Applied Biosciences III	Yosuke TANAKA	1	Apr-Sep (intensive)	
DA40	Special Lecture for Applied Biosciences IV	Toshihiro WADA	1	Apr-Sep (intensive)	
DA41	Special Lecture for Applied Biosciences V	Hiroki GOTOH	1	Apr-Sep (intensive)	
DA42	Special Lecture for Applied Biosciences VI	Hideki INNAN	1	Oct-Mar (intensive)	
DA46	Special Lecture for Applied Biosciences VII		1		NA in AY2021

No.	Title	Instructor	Credits	Semester	Notes
DB18	Seminar in Plant Genetics 1	Kentaro YOSHIDA	3	Year-long	◎
DB19	Seminar in Plant Genetics 2	Kentaro YOSHIDA	3	Year-long	◎
DB20	Seminar in Crop Evolution 1	Ryohei TERAUCHI, Yasuo YASUI, Toshiyuki SAKAI	3	Year-long	
DB21	Seminar in Crop Evolution 2	Ryohei TERAUCHI, Yasuo YASUI, Toshiyuki SAKAI	3	Year-long	
DB22	Seminar in Plant Pathology 1	Yoshitaka TAKANO, Kazuyuki MISE, Akira MINE	3	Year-long	◎
DB23	Seminar in Plant Pathology 2	Yoshitaka TAKANO, Kazuyuki MISE, Akira MINE	3	Year-long	◎
DB24	Seminar in Insect Ecology 1	Kenji MATSUURA, Mamoru TAKATA	3	Year-long	◎
DB25	Seminar in Insect Ecology 2	Kenji MATSUURA, Mamoru TAKATA	3	Year-long	◎
DB26	Seminar in Insect Physiology 1	Takaaki DAIMON, Takahiro OHDE	3	Year-long	
DB27	Seminar in Insect Physiology 2	Takaaki DAIMON, Takahiro OHDE	3	Year-long	
DB38	Seminar in Fisheries and Environmrntal Oceanography 1	Hiromichi MITAMURA, Kotaro ICHIKAWA, Shiho KOBAYASHI, Satoko S. KIMURA, Manabu KUME	3	Year-long	
DB39	Seminar in Fisheries and Environmental Oceanography 2	Hiromichi MITAMURA, Kotaro ICHIKAWA, Shiho KOBAYASHI, Satoko S. KIMURA, Manabu KUME	3	Year-long	
DB40	Seminar in Marine Biology 1	Masatomo TAGAWA, Kouji NAKAYAMA	3	Year-long	
DB41	Seminar in Marine Biology 2	Masatomo TAGAWA, Kouji NAKAYAMA	3	Year-long	
DB42	Seminar in Marine Molecular Microbiology 1	Takashi YOSHIDA, Ryoma KAMIKAWA	3	Year-long	
DB43	Seminar in Marine Molecular Microbiology 2	Takashi YOSHIDA, Ryoma KAMIKAWA	3	Year-long	
DB44	Seminar in Marine Environmental Microbiology 1	Shigeki SAWAYAMA, Satoshi NAKAGAWA, Daichi MORIMOTO	3	Year-long	
DB45	Seminar in Marine Environmental Microbiology 2	Shigeki SAWAYAMA, Satoshi NAKAGAWA, Daichi MORIMOTO	3	Year-long	
DB46	Seminar in Marine Bio-products Technology 1	Tatsuya SUGAWARA, Yuki MANABE, Shinsuke MOHRI	3	Year-long	
DB47	Seminar in Marine Bio-products Technology 2	Tatsuya SUGAWARA, Yuki MANABE, Shinsuke MOHRI	3	Year-long	
DB48	Seminar in Marine Biological Function 1	Kenji SATO, Masato KINOSHITA	3	Year-long	
DB49	Seminar in Marine Biological Function 2	Kenji SATO, Masato KINOSHITA	3	Year-long	
DB28	Seminar in Animal Breeding and Genetics 1	Norihide YOKOI, Yukio TANIGUCHI	3	Year-long	
DB29	Seminar in Animal Breeding and Genetics 2	Norihide YOKOI, Yukio TANIGUCHI	3	Year-long	
DB30	Seminar for Reproductive Biology 1	Naojiro MINAMI, Shuntaro IKEDA	3	Year-long	◎
DB31	Seminar for Reproductive Biology 2	Naojiro MINAMI, Shuntaro IKEDA	3	Year-long	◎
DB32	Seminar in Nutritional Science of Animals 1	Tohru MATSUI, Masayuki FUNABA, Shozo TOMONAGA	3	Year-long	
DB33	Seminar in Nutritional Science of Animals 2	Tohru MATSUI, Masayuki FUNABA, Shozo TOMONAGA	3	Year-long	
DB34	Seminar in Animal Physiology and Anatomy 1	Takeshi Ohta, Miki SUGIMOTO	3	Year-long	
DB35	Seminar in Animal Physiology and Anatomy 2	Takeshi Ohta, Miki SUGIMOTO	3	Year-long	
DB36	Seminar of Animal Husbandry Resources 1	Hiroyuki HIROOKA, Hajime KUMAGAI, Kazato OISHI	3	Year-long	
DB37	Seminar of Animal Husbandry Resources 2	Hiroyuki HIROOKA, Hajime KUMAGAI, Kazato OISHI	3	Year-long	
DB50	Seminar in Coastal Marine Ecology 1	Reiji MASUDA Yoshiaki KAI, Keita SUZUKI	3	Year-long	◎
DB51	Seminar in Coastal Marine Ecology 2	Reiji MASUDA Yoshiaki KAI, Keita SUZUKI	3	Year-long	◎
DC18	Research in Plant Genetics 1	Kentaro YOSHIDA	6	Year-long	◎
DC19	Research in Plant Genetics 2	Kentaro YOSHIDA	6	Year-long	◎
DC20	Research in Crop Evolution 1	Ryohei TERAUCHI, Yasuo YASUI, Toshiyuki SAKAI	6	Year-long	
DC21	Research in Crop Evolution 2	Ryohei TERAUCHI, Yasuo YASUI, Toshiyuki SAKAI	6	Year-long	
DC22	Research in Plant Pathology 1	Yoshitaka TAKANO, Kazuyuki MISE, Akira MINE	6	Year-long	◎
DC23	Research in Plant Pathology 2	Yoshitaka TAKANO, Kazuyuki MISE, Akira MINE	6	Year-long	◎
DC24	Research in Insect Ecology 1	Kenji MATSUURA, Mamoru TAKATA	6	Year-long	◎
DC25	Research in Insect Ecology 2	Kenji MATSUURA, Mamoru TAKATA	6	Year-long	◎
DC26	Research in Insect Physiology 1	Takaaki DAIMON, Takahiro OHDE	6	Year-long	
DC27	Research in Insect Physiology 2	Takaaki DAIMON, Takahiro OHDE	6	Year-long	
DC38	Research in Fisheries and Environmental Oceanography 1	Hiromichi MITAMURA, Kotaro ICHIKAWA, Shiho KOBAYASHI, Satoko S. KIMURA, Manabu KUME	6	Year-long	
DC39	Research in Fisheries and Environmental Oceanography 2	Hiromichi MITAMURA, Kotaro ICHIKAWA, Shiho KOBAYASHI, Satoko S. KIMURA, Manabu KUME	6	Year-long	
DC40	Laboratory Course in Marine Biology 1	Masatomo TAGAWA, Kouji NAKAYAMA	6	Year-long	
DC41	Laboratory Course in Marine Biology 2	Masatomo TAGAWA, Kouji NAKAYAMA	6	Year-long	
DC42	Laboratory Course in Marine Molecular Microbiology 1	Takashi YOSHIDA, Ryoma KAMIKAWA	6	Year-long	
DC43	Laboratory Course in Marine Molecular Microbiology 2	Takashi YOSHIDA, Ryoma KAMIKAWA	6	Year-long	
DC44	Laboratory Course in Marine Environmental Microbiology 1	Shigeki SAWAYAMA, Satoshi NAKAGAWA, Daichi MORIMOTO	6	Year-long	
DC45	Laboratory Course in Marine Environmental Microbiology 2	Shigeki SAWAYAMA, Satoshi NAKAGAWA, Daichi MORIMOTO	6	Year-long	

No.	Title	Instructor	Credits	Semester	Notes
DC46	Laboratory Course in Technology of Marine Bio-products 1	Tatsuya SUGAWARA, Yuki MANABE, Shinsuke MOHRI	6	Year-long	
DC47	Laboratory Course in Technology of Marine Bio-products 2	Tatsuya SUGAWARA, Yuki MANABE, Shinsuke MOHRI	6	Year-long	
DC48	Laboratory Course in Marine Biological Function 1	Kenji SATO, Masato KINOSHITA	6	Year-long	
DC49	Laboratory Course in Marine Biological Function 2	Kenji SATO, Masato KINOSHITA	6	Year-long	
DC28	Laboratory Course in Animal Breeding and Genetics 1	Norihide YOKOI, Yukio TANIGUCHI	6	Year-long	
DC29	Laboratory Course in Animal Breeding and Genetics 2	Norihide YOKOI, Yukio TANIGUCHI	6	Year-long	
DC30	Laboratory Course for Reproductive Biology 1	Naojiro MINAMI, Shuntaro IKEDA	6	Year-long	◎
DC31	Laboratory Course for Reproductive Biology 2	Naojiro MINAMI, Shuntaro IKEDA	6	Year-long	◎
DC32	Laboratory Course in Nutritional Science of Animals 1	Tohru MATSUI, Masayuki FUNABA, Shozo TOMONAGA	6	Year-long	
DC33	Laboratory Course in Nutritional Science of Animals 2	Tohru MATSUI, Masayuki FUNABA, Shozo TOMONAGA	6	Year-long	
DC34	Laboratory Course in Animal Physiology and Anatomy 1	Takeshi Ohta, Miki SUGIMOTO	6	Year-long	
DC35	Laboratory Course in Animal Physiology and Anatomy 2	Takeshi Ohta, Miki SUGIMOTO	6	Year-long	
DC36	Laboratory Course of Animal Husbandry Resources 1	Hiroyuki HIROOKA, Hajime KUMAGAI, Kazato OISHI	6	Year-long	
DC37	Laboratory Course of Animal Husbandry Resources 2	Hiroyuki HIROOKA, Hajime KUMAGAI, Kazato OISHI	6	Year-long	
DA44	History of Ichthyology	TBD	1	TBD	NA in AY2021
DC50	Laboratory Course in Coastal Marine Ecology 1	Reiji MASUDA Yoshiaki KAI, Keita SUZUKI	6	Year-long	◎
DC51	Laboratory Course in Coastal Marine Ecology 2	Reiji MASUDA Yoshiaki KAI, Keita SUZUKI	6	Year-long	◎
DZ00	Master's Thesis				

- Requirements by Division of Applied Biosciences
- 1) Earn more than 30 credits including 6 credits by seminar and 12 credits by laboratory course given by your laboratory.
- 2) In order to take other laboratories' seminars or special laboratory works, get permission from your supervisor and the instructor.
- 3) In order to take other divisions' courses (including other graduate schools' courses) and earn them as credits, notify your division's office at the time of registration, getting permission from your supervisor beforehand.
- 4) Although some intensive courses have different instructors every year, a course can be registered once only and not allowed to take same course two times.
- 5) Course title with "1" are for first year students and "2" are for second year students.
- 6) Subjects with "☆&★ marks" are held every 2 years alternately.

Subjects with "☆ marks" are held in this academic year and those with "★ marks" in next academic year.
- 7) Subjects with "◎ marks" may be given in English when any of international students wish to attend.