

Requirements of the Certificate in Animal Behaviour*

revised June 2016, CAS

1. A minimum grade of a B- is required in four mandatory courses:

- NESC/PSYO 2160.03: Animal Behaviour
- PSYO 2501.03: Statistical Methods 1 or Stat 2080.03: Statistical Methods for Data Analysis Inference
- BIOL 3062.03: Behavioral Ecology or NESC/PSYO 3162.03: Advanced Animal Behaviour
- BIOL 3630.03: Field Methods in Animal Behaviour (summer) or NESC/PSYO 3161.03: Measuring Behaviour

2. A minimum grade of B- is required in four additional elective courses chosen from the following list. At least two courses must be at the 3000/4000 level.

2000 level

- ANSC 2003.03: Companion Animal Behaviour
- NESC/PSYO 2140.03: Learning
- NESC/PSYO 2160.03: Animal Behaviour
- NESC/PSYO 2470.03: Systems Neuroscience

3000 level

- BIOL 3062.03: Behavioral Ecology
- BIOL/MARI 3080.03: Ecology and Evolution of Fishes
- BIOL/MARI 3090.03: Marine Mammalogy
- BIOL 3327.03: Entomology (summer)
- BIOL 3622.03: Ornithology (summer)
- BIOL/MARI 3626.03: Field Studies of Marine Mammals (summer)
- BIOL/MAR 3628.03: Marine Ornithology (summer)
- BIOL 3630.03: Field Methods in Animal Behaviour (summer)
- BIOL 3640.06: Tropical Ecology and Biodiversity (must be approved Animal Behaviour project; summer)
- BIOL/MARI 3632.03: Applied Methods in Fish Ecology (summer)
- NESC/PSYO 3000.03: Independent Research in Psychology/Neuroscience (must be approved Animal Behaviour topic)
- NESC/PSYO 3001.03: Directed Research Project in Psychology/Neuroscience (must be approved Animal Behaviour topic)
- NESC/PSYO 3043.03: Neurobiology and Learning
- NESC/PSYO 3044.03: Laboratory Methods of Learning and Conditioning
- NESC/PSYO 3161.03: Measuring Behaviour
- NESC/PSYO 3162.03: Advanced Animal Behaviour
- NESC/PSYO 3165.03: Neuroethology
- NESC/PSYO 3170.03: Hormones and Behaviour
- NESC/PSYO 3180.03: Psychoneuroimmunology/Ecological Immunology
- NESC/PSYO 3670.03: Genes, Brain and Behaviour

4000 level

- BIOL/MARI 4090.03: Evolutionary Ecology of Marine Mammals
- NESC/PSYO 4160.03: Topics in Behavioural Biology
- NESC/PSYO 4500.06: Honours Thesis (must be approved Animal Behaviour topic)
- BIOL/MARI 4323.03: Biologging in Ecology

- BIOL/MARI 4806.03, 4807.03, or 4807.03: Special Topics (must be approved Animal Behaviour topic)
- BIOL/MARI 4900.06: Honours Research and Thesis or BIOL/MARI 4901.03/4902.03: Honours Research and Thesis I and II (must be approved Animal Behaviour topic)

3. **A grade of B- in an independent research course in Animal Behaviour. Please note: This course can be one of the four elective courses listed above.** The research topic must be pre-approved by the certificate coordinator prior to the start of your research course (i.e., NESC/PSYO 3000, NESC/PSYO 3001, NESC/PSYO 4500, BIOL/MARI 4806, BIOL/MARI 4807, BIOL/MARI 4808, BIOL/MARI 4900, or BIOL/MARI 4901/4902). If you are an honours student, you're encouraged to complete your thesis on an Animal Behaviour topic to fulfill this requirement.

You are encouraged to further develop study design and analysis skills by taking additional courses such as BIOL 4061 (Design of Biological Experiments) and BIOL 4062 (Analysis of Biological data).

4. The certificate coordinator will enroll students in the certificate program at that same time they seek approval of their research topics. Contact the coordinator providing your name, major, ID number, and an abstract of your proposed research topic.

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***Please note: Before graduating, you must email the certificate coordinator that you have fulfilled all requirements, which will be verified by the coordinator, in order to receive your certificate.**