

授業科目名 <英訳>	ILAS Seminar-E2 :Methods in Ecology and Natural History (生態学・自然史学の手法)			担当者所属 職名・氏名	理学研究科 准教授 BARNETT, Craig Antony		
群	少人数群	単位数	2単位	週コマ数	1コマ	授業形態	ゼミナール
開講年度・ 開講期	2018・前期	受講定員 (1回生定員)	10 (10) 人	配当学年	主として1回生	対象学生	全学向
曜時限	月5	教室	1共22		使用言語	英語	
キーワード	野外研究 / 鳥類 / 都市環境						
<b>【授業の概要・目的】</b>							
Field research is an essential component of ecology because without it we could not compile models and test hypotheses. In this course we will use field techniques such as point counts to obtain a data set from different parts of the urban environment in Kyoto make comparisons among them in order to understand what species live in these different areas and how the environment can be related to their natural history. Students will work in teams and collect data and then data will be pooled and analyzed in class. Students will work as teams for their presentations, but will submit their own written report.							
<b>【到達目標】</b>							
1) Learn to identify birds in Kyoto and surrounding areas 2) Learn how to conduct a scientific experiment 3) Learn some facets of avian natural history 4) Data analysis and presentation 5) How to write a scientific report in English using the data we collected							
<b>【授業計画と内容】</b>							
1) Course introduction, designing an experiment 2) How to design a field experiment. 3) Identifying birds 4) Identifying birds 5) Collecting data 6) Collecting data 7) Collecting data 8) Collecting data 9) Collation and data exploration 10) Data analysis 11) Writing an abstract and introduction 12) Methods and results 13) Discussion and conclusions 14) Peer review 15) Group presentations 16) Feedback							
ILAS Seminar-E2 :Methods in Ecology and Natural History (生態学・自然史学の手法) (2)へ続く							

**【履修要件】**

Understanding of high school biology is recommended.

**【成績評価の方法・観点及び達成度】**

Assessment will comprise of class attendance (10%), participation in data collection and in class activities (40%), and a final presentation and report (50%).

**【教科書】**

Reading materials distributed during classes.

**【参考書等】**

(参考書)

C. J. Bibby, N. D. Burgess, D. A. Hill, and S. H. Mustoe 『Bird Census Techniques 2nd Edition』 ( Academic Press )

W. J. Sutherland, I Newton, and R. E. Green 『Bird Ecology and Conservation: A Handbook of Techniques』 ( Oxford University Press )

M. Brazil 『Birds of East Asia』 ( Princeton University Press )

**【授業外学習(予習・復習)等】**

To achieve the course goals students should review the course materials plus optionally the recommended readings after each class. The time necessary for review should be in the range of 2-3 hours per class.

**【その他(オフィスアワー等)】**

Take out accident insurance. ( Partial Refund of Premium Paid for Personal Accident Insurance for Students Pursuing Education and Research (Gakkensai) )