



## Syllabus for (11:370:409)

### INSECT CLASSIFICATION (4.0 Credits)

**Instructor:** Dr. Jessica Ware ([Jware42@andromeda.rutgers.edu](mailto:Jware42@andromeda.rutgers.edu))

**Semester & Period:** Fall; M Lec.(10:55am-1:55pm), TH Lec. & Lab(2:15- 5:15pm)

**Location:** (Old) Blake Hall 101

**Pre-requisites and other registration restrictions:** None

**Required Texts:** Grimaldi and Engel, Evolution of the Insects, 2005

Lecture	Lecture	Lab	Chapter
1	Insect collecting, preservation and labeling	Collecting lab	
2	Protura, Collembola, Diplura		3
3	Archaeognatha, Zygentoma	Collecting lab	5
4	Ephemeroptera		6
5	Odonata	Ephemeroptera & Odonata lab	6
6	Dictyoptera (mantids, roaches & termites)		7
7	Plecoptera, Embioptera, Zoraptera	Dictyoptera lab	7
8	Dermaptera, Grylloblattodea, Mantophasmatodea		7
9	Orthoptera, Phasmatodea	Polyneoptera lab	7
10	“Psocoptera”, Phthiraptera, Thysanoptera, Hemiptera (Sternorrhyncha)		8
11	Hemiptera (Auchenorrhyncha, Heteroptera)	Paraneoptera lab	8
<b>12</b>	<b>Midterm Exam</b>		3-8
13	Raphidioptera, Megaloptera, Neuroptera	Neuropterida lab	9
14	Insect Systematics, Biogeography and the Fossil Record		2&14
15	Coleoptera, Strepsiptera	Coleoptera lab	10
16	Coleoptera		10
17	Coleoptera	Coleoptera lab	10
18	Hymenoptera		11
19	Hymenoptera	Hymenoptera lab	11
20	Mecoptera, Siphonaptera		12
21	Diptera	Antliophora lab	12
22	Diptera		12
23	Trichoptera	Final Review	13
24	Lepidoptera		13
25	Lepidoptera	Amphiesmenoptera lab	13
<b>26</b>	<b>Final Exam</b>	<b>Hand in Collection December 19</b>	

### **Course Learning Goals:**

- Ability to identify insect families from each order of the class Insecta
- Ability to explain the evolution of arthropods, from basal hexapods through Antiliophora
- Understanding of the relationships of synapomorphies to the major insect radiations
- Ability to properly collect, preserve and label insect specimens

### **Student Learning Assessment:** [% of final grade]

- Lab Quizzes [30%]
- Midterm exam [10%]
- Final Exam [10%]
- Collection [50%]

### **Contact Information:**

**Dr. Jessica Ware**

Room 415, Boyden Hall, Rutgers Newark

973-353-5531

[Jware42@andromeda.rutgers.edu](mailto:Jware42@andromeda.rutgers.edu)

Office hours by arrangement