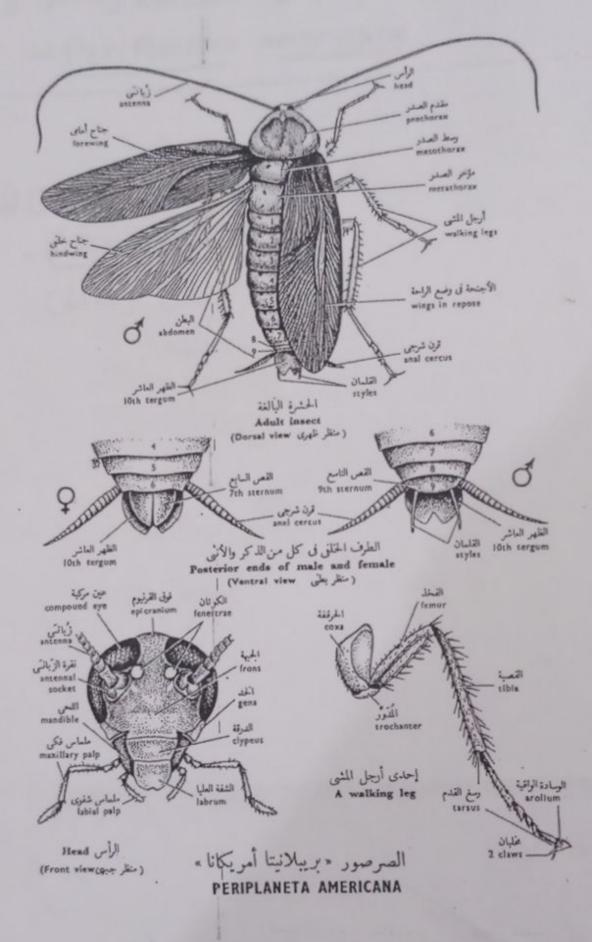
# Insect Morphology and Anatomy

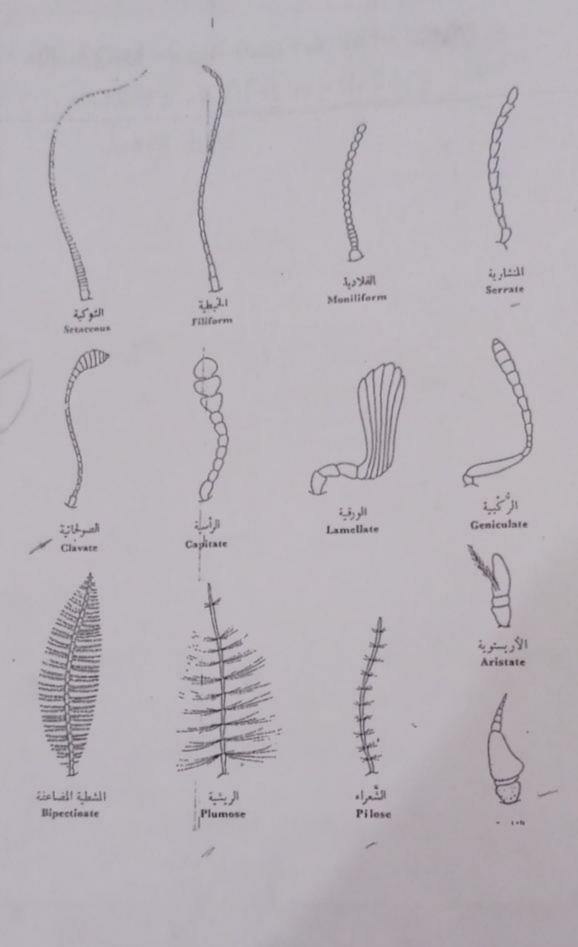
### About this module 2022-2023

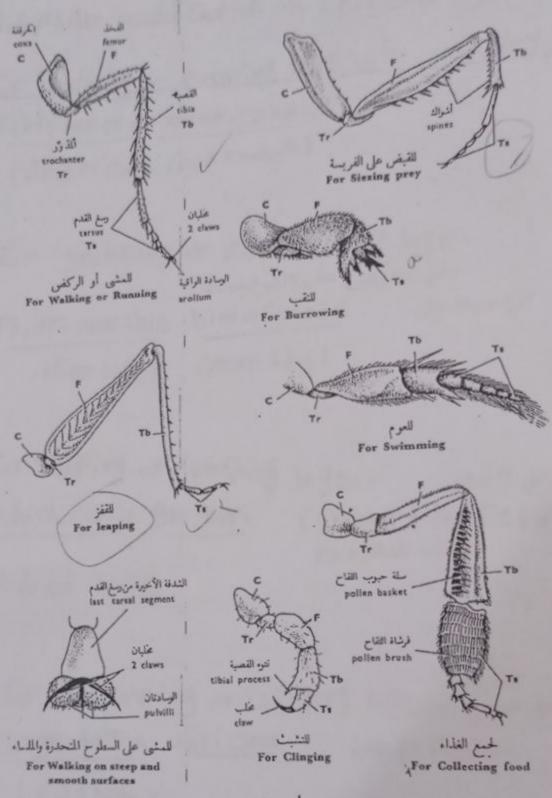
- Module Code: 305.
- Module Name: Insect Morphology and Anatomy.
- Specialty: Entomology and Chemistry.
- Year Group: 3rd
- Number of Teaching Units: 3h per week of lecturing and 3h per week of practical.

#### **Evaluation**

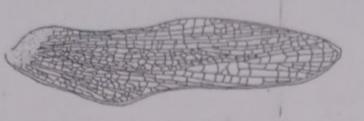
- **Discussions**: There will be scheduled discussion sessions where we will consider historical and current primary literature.
- Students will lead and stimulate each discussion.
- Evaluation and Grading will be emphasized on preparation, engagement, and quality of participation (not on quantity)
- Quizzes: Biweekly 15 minutes (TBA)







التحورات التكيفية لأرجل الحشرات ADAPTIVE MODIFICATIONS OF INSECT LEGS



الغشائي membranous



Elytra



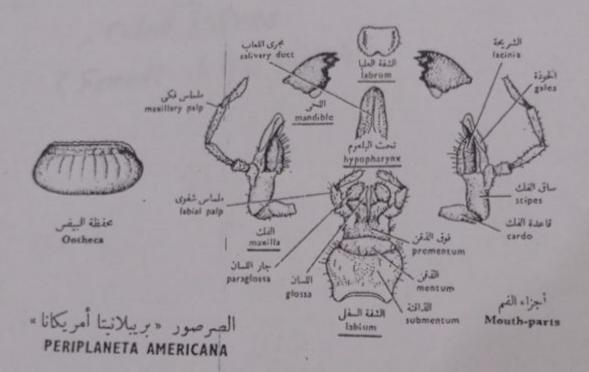
نصف الغمدى Hemi-elytra

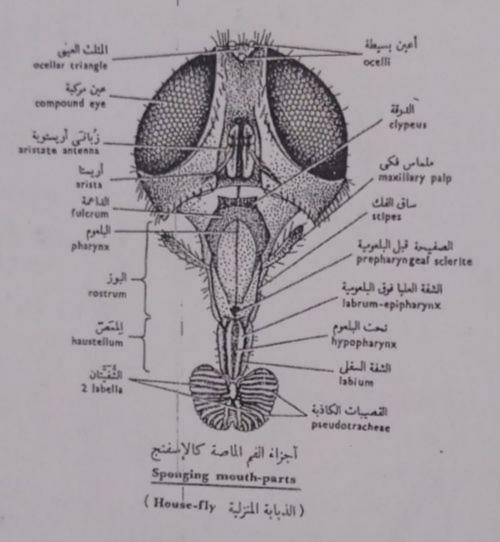


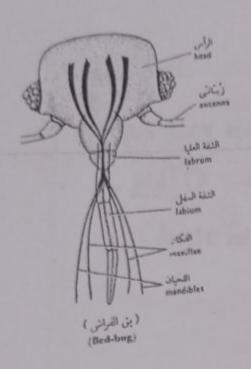


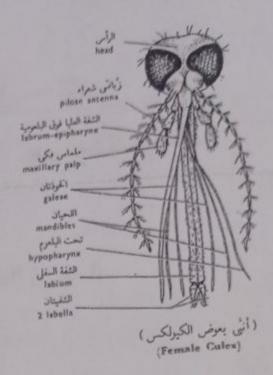
دبوس التوازن Halter

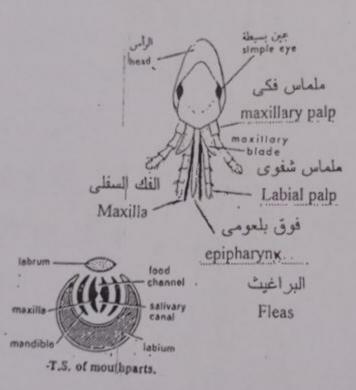
طُرز أجنحة العشرات TYPES OF INSECT WINGS



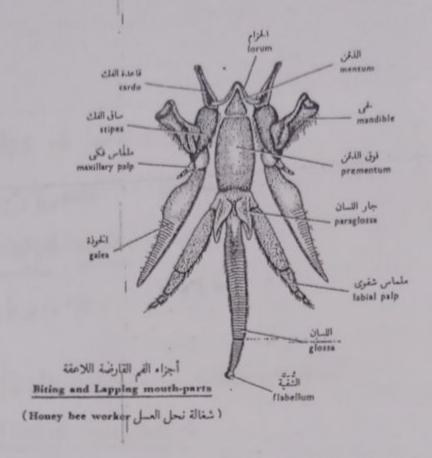


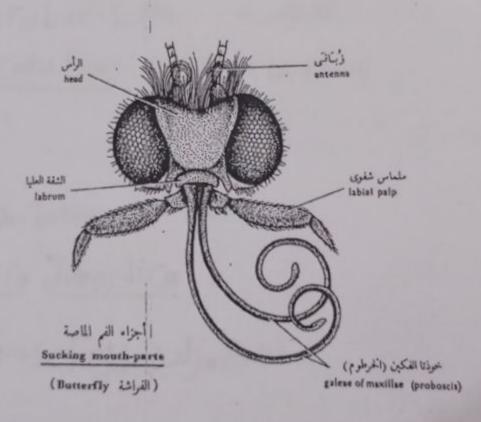


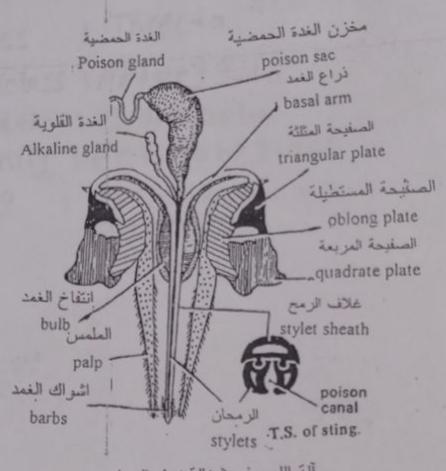




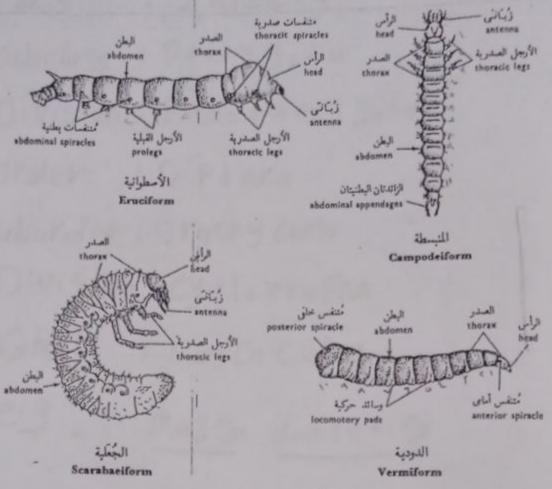
أجزاء النم الناقبة الماصة Piercing Sucking mouth-parts



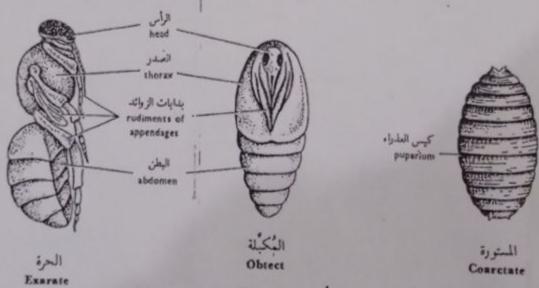




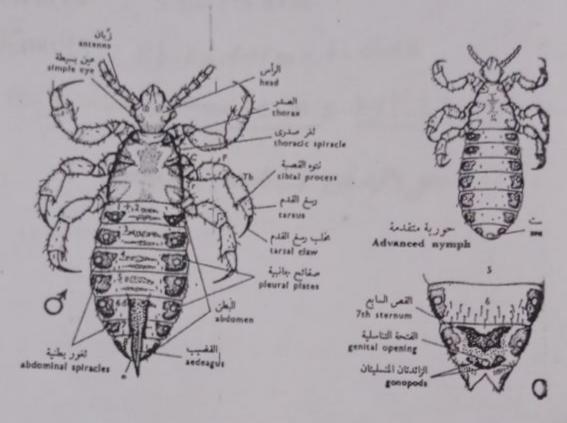
الله اللسع في شغالة نحل العسل sting apparatus of a worker honey bee آلة وضع البيض متحورة إلى آلة السع MODIFIED OVIPOSITOR INTO STING

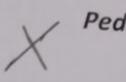


#### طُرُوز يرقانات الحشرات TYPES OF INSECT LARVAE

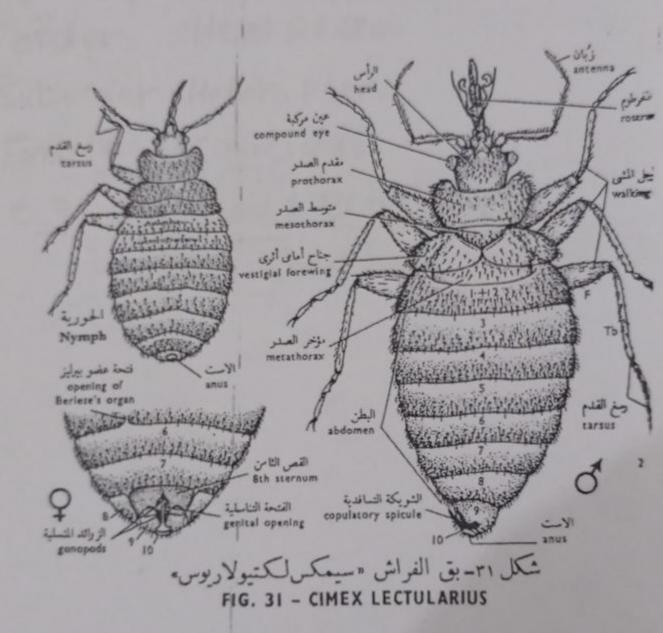


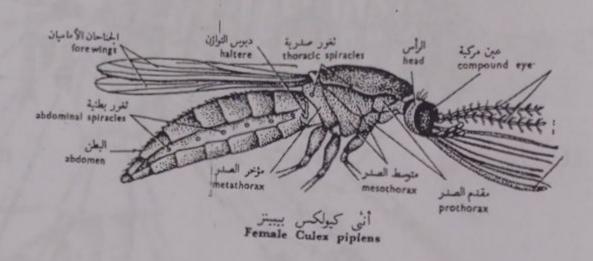
طُرُز عذاری الحشرات TYPES OF INSECT PUPAE

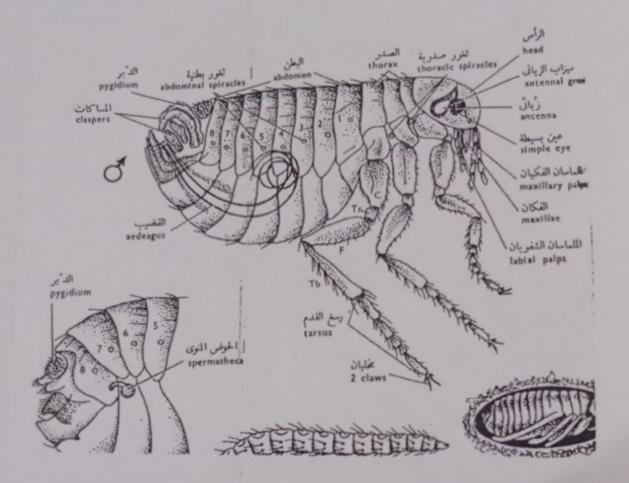




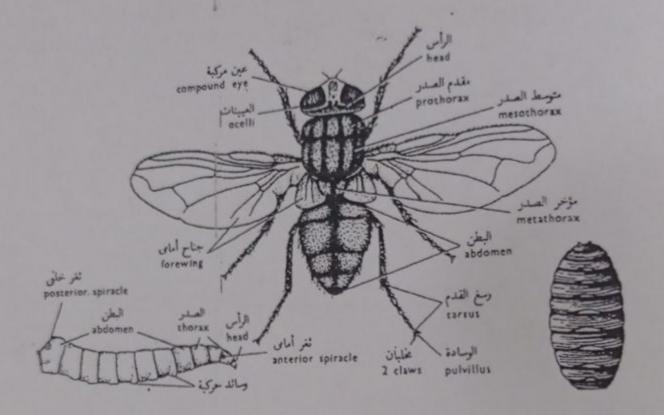
Pediculus humanas قمل الانسان







Pulex irritans برغوث الإنسان



## Musca domestica الذبابة المنزلية