

<b>Georg-August-Universität Göttingen Universität</b>  <b>Master Program „Crop Protection</b>  <b>Module M.Agr. 0146: Nematology</b>	3 C 2 SWS
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<b>Lernziele/Kompetenzen:</b>  Basic knowledge of nematode biology, importance as pests; basic methods with regard to their detection, identification and measures of control, use of beneficial nematodes in biological insect control programs; their role in regulation of processes in ecosystems.	<b>Arbeitsaufwand:</b>  Präsenzzeit: 40 Stunden  Selbststudium: 50 Stunden
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<b>Lehrveranstaltung: Nematology</b> (Praktikum, Seminar) <i>Inhalte:</i> The module deals with the biology of nematodes and their importance in plant protection. The most important taxa of nematodes are presented using permanent slides and living specimen; the most important morphological characters will be identified. Interactions between plant parasitic nematodes, their host plants and antagonistic microorganisms will be discussed. The use of nematodes for inundative biological control will be discussed as well. During the course, students will become familiar with different plant parasitic nematode species and will learn basic techniques for detection and identification. Plant parasitic nematodes will be used to demonstrate effects of different compounds on activity and viability.	2 SWS
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<b>Prüfung: Written exam 45 min</b>  <b>Prüfungsanforderungen:</b> Basic knowledge of morphological characters of nematodes; species identification by DNA-barcoding ability to discriminate between different feeding types of nematodes; biological control of and biological control with nematodes; importance of nematodes for biodiversity	
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<b>Zugangsvoraussetzungen:</b>  keine	<b>Empfohlene Vorkenntnisse:</b>  Basic knowledge of molecular diagnostics
<b>Sprache:</b> Englisch	
<b>Angebotshäufigkeit:</b> Jedes WiSe	<b>Dauer:</b> 1 Semester
<b>Wiederholbarkeit:</b> zweimalig	<b>Empfohlenes Fachsemester:</b> 3. Semester
<b>Maximale Studierendenzahl:</b> 12	<b>Modulverantwortlicher:</b> Dr. Sebastian Kiewnick Dr. Birger Koopmann

<b>Bemerkungen:</b>  
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