

# LV0089 Schedule 240417

LV0089, Food Microbiology, VT2024

| w17 | Monday 22/4 2024 | Tuesday 23/4 2024 | Wednesday 24/4 2024 | Thursday 25/4 2024   | Friday 26/4 2024  |
|-----|------------------|-------------------|---------------------|--|---|
| 8   |                  |                   |                     |  |   |
| 9   |                  |                   |                     |  | 09:15<br>Lecture hall C213. Biocentre<br>Su-Lin Hedén<br>Lecture<br>Course intro, followed by lecture on Detection and identification of microbes |
| 10  |                  |                   |                     |  |   |
| 11  |                  |                   |                     |  |   |
| 12  |                  |                   |                     |  |   |
| 13  |                  |                   |                     |  | 13:20<br>Lecture hall C213. Biocentre<br>Su-Lin Hedén<br>Lecture<br>Detection and identification of microbes, cont.                               |
| 14  |                  |                   |                     | 14:00<br>BÖL 3. Biocentre<br>Su-Lin Hedén<br>Pre- and post-work<br>Teachers only |   |
| 15  |                  |                   |                     |  | 15:00<br>BÖL 3. Biocentre<br>Ludwig Lundberg<br>Su-Lin Hedén<br>Lab<br>Searching for pathogen protocols, grow own moulds                          |
| 16  |                  |                   |                     |  |   |

# LV0089 Schedule 240417

LV0089, Food Microbiology, VT2024

| w18 | Monday 29/4 2024  | Tuesday 30/4 2024 | Wednesday 1/5 2024 | Thursday 2/5 2024   | Friday 3/5 2024   |
|-----|---|-------------------|--------------------|---|---|
| 8   |   |                   |                    |   | 08:00<br>BÖL 3. Biocentre<br>Su-Lin Hedén<br>Lab<br>Begin media preparation   |
| 9   | 09:15<br>Lecture hall C213. Biocentre<br>Su-Lin Hedén<br>Lecture<br>Pathogens I   |                   |                    | 09:15<br>Lecture hall C213. Biocentre<br>Ingrid Hansson<br>Lecture<br>Campylobacter   | 09:15<br>Lecture hall C213. Biocentre<br>Su-Lin Hedén<br>Lecture<br>Pathogens II  |
| 10  |   |                   |                    |   |   |
| 11  | 11:00<br>Su-Lin Hedén<br>Planning<br>Group work, Protocol for Pathogens lab   |                   |                    | 11:00<br>Su-Lin Hedén<br>Planning<br>Group work, Protocol for Pathogens lab   |   |
| 12  |   |                   |                    | 12:00<br>BÖL 3. Biocentre<br>Su-Lin Hedén<br>Pre- and post-work<br>Teachers only  |   |
| 13  | 13:00<br>BÖL 3. Biocentre<br>Su-Lin Hedén<br>Lab<br>Feedback on pathogen protocol, first draft. 20 mins per group, from 12:00-14:00 |                   |                    | 13:00<br>BÖL 3. Biocentre<br>Ludwig Lundberg<br>Su-Lin Hedén<br>Lab<br>Feedback on Pathogen protocol, second draft. Find media & equipment. Practice pouring agar plates, streaking bacteria. | 13:00<br>BÖL 3. Biocentre<br>Su-Lin Hedén<br>Lab<br>Finish media preparation. Inoculate moulds to broth, for MALDI-TOF extraction |
| 14  | 14:15<br>Lecture hall C213. Biocentre<br>Su-Lin Hedén<br>Lecture<br>Hurdles and preservation  |                   |                    |   |   |
| 15  |   |                   |                    |   |   |
| 16  | 16:00<br>Su-Lin Hedén<br>Planning<br>Group work, Protocol for Pathogens lab   |                   |                    |   |   |
|     | 17:00   |                   |                    | 17:00   | 17:00   |

■ Lecture 
 ■ Lab 
 ■ Submission 
 ■ Examination 
 ■ Own studies, Self studies 
 ■ Presentation 
 ■ Group work 
 ■ Planning 
 ■ Mandatory 
 ■ Discussion, Exercise 
 ■ Pre- and post-work

# LV0089 Schedule 240417

LV0089, Food Microbiology, VT2024

| w19 | Monday 6/5 2024   | Tuesday 7/5 2024   | Wednesday 8/5 2024  | Thursday 9/5 2024 | Friday 10/5 2024   |
|-----|---|--|---|-------------------|--|
| 8   |   |  |   |                   |  |
| 9   | 09:15<br>Lecture hall C212. Biocentre<br>Gästföreläsare<br>Jakob Ottoson, Swedish Food Agency<br>Lecture<br>Water | 09:15<br>Lecture hall C212. Biocentre<br>Guest lecturer<br>Katalin Nemes, Swedish Food Agency<br>Lecture<br>Viruses                          | 09:15<br>Lecture hall C213. Biocentre<br>Guest lecturer<br>Anna Lundin, Swedish Veterinary Agency<br>Lecture<br>Parasites |                   | 09:15<br>Own studies<br>Work on Pathogens lab report, Introduction and Methods. Submit notes on Intro and Methods in Canvas, 17:00 |
| 10  |   |  |   |                   |  |
| 11  | 11:00<br>BÖL 3. Biocentre<br>Ludwig Lundberg<br>Su-Lin Hedén<br>Lab<br>Pathogens - Day 1, isolation               | 11:00<br>BÖL 3. Biocentre<br>Ludwig Lundberg<br>Su-Lin Hedén<br>Lab<br>Pathogens - Day 2   | 11:00<br>BÖL 3. Biocentre<br>Ludwig Lundberg<br>Su-Lin Hedén<br>Lab<br>Pathogens - Day 3                                  |                   |  |
| 12  |   |  |   |                   |  |
| 13  | 13:00<br>BÖL 3. Biocentre<br>Ludwig Lundberg<br>Su-Lin Hedén<br>Lab<br>Pathogens - Day 1, continued               | 13:00<br>BÖL 3. Biocentre<br>Ludwig Lundberg<br>Su-Lin Hedén<br>Lab<br>Pathogens - Day 2. Also, information on Pathogen report & peer review |   |                   |  |
| 14  |   |  |   |                   |  |
| 15  |   |  |   |                   |  |
| 16  |   | 16:00  |   |                   |  |
|     | 17:00   |  |   |                   | 17:00  |

# LV0089 Schedule 240417

LV0089, Food Microbiology, VT2024

| w20 | Monday 13/5 2024  | Tuesday 14/5 2024  | Wednesday 15/5 2024 | Thursday 16/5 2024  | Friday 17/5 2024   |
|-----|---|--|---------------------|---|--|
| 8   |   |  |                     |   |  |
| 9   | 09:00<br>BÖL 3. Biocentre<br>Ludwig Lundberg<br>Su-Lin Hedén<br>Lab<br>Pathogens - PCR and final day                              | 09:15<br>Lecture hall C213. Biocentre<br>Su-Lin Hedén<br>Lecture<br>Lactic acid bacteria               |                     | 09:15<br>Lecture hall C212. Biocentre<br>Su-Lin Hedén<br>Discussion<br>Practice for oral exam | 09:15<br>Lecture hall C212. Biocentre<br>Guest lecturer<br>Jakob Ottoson, Swedish Food Agency<br>Lecture<br>Mandatory<br>Predictive microbiology, lecture and exercise.<br>Bring laptop. |
| 10  |   |  |                     |   |  |
| 11  |   | 11:00<br>BÖL 3. Biocentre<br>Jonas Ohlsson<br>Su-Lin Hedén<br>Lab<br>Intro to Food production exercise |                     | 11:15<br>Su-Lin Hedén<br>Planning<br>Group work, protocol for food production                 |  |
| 12  |   |  |                     |   |  |
| 13  | 13:15<br>Lecture hall C213. Biocentre<br>Guest lecturer<br>Åsa Svanström, Swedish Food Agency<br>Lecture<br>Moulds and mycotoxins | 13:15<br>Su-Lin Hedén<br>Planning<br>Group work, planning food production and receiving feedback       |                     | 13:05<br>Own studies<br>Work on pathogen lab report, first draft due<br>17:00                 | 13:00<br>BÖL 3. Biocentre<br>Jonas Ohlsson<br>Su-Lin Hedén<br>Lab<br>Food production media preparation. Also Calc question F due, 17:00  |
| 14  |   |  |                     |   |  |
| 15  | 15:00<br>BÖL 3. Biocentre<br>Ludwig Lundberg<br>Su-Lin Hedén<br>Lab<br>Pathogens - PCR cont. and finish off                       |  |                     |   |  |
| 16  |   |  |                     |   |  |

■ Lecture 
 ■ Lab 
 ■ Submission 
 ■ Examination 
 ■ Own studies, Self studies 
 ■ Presentation 
 ■ Group work 
 ■ Planning 
 ■ Mandatory 
 ■ Discussion, Exercise 
 ■ Pre- and post-work

# LV0089 Schedule 240417

LV0089, Food Microbiology, VT2024

| w21 | Monday 20/5 2024  | Tuesday 21/5 2024   | Wednesday 22/5 2024  | Thursday 23/5 2024   | Friday 24/5 2024  |
|-----|---|---|--|--|---|
| 8   | 08:30<br>BÖL 3. Biocentre<br>Jonas Ohlsson<br>Su-Lin Hedén  |   |  |  |   |
| 9   | Lab<br>Food production - Day 1, start   | 09:00<br>BÖL 3. Biocentre<br>Jonas Ohlsson<br>Su-Lin Hedén<br>Lab<br>Food production - Day 2            | 09:00<br>BÖL 3. Biocentre<br>Jonas Ohlsson<br>Su-Lin Hedén<br>Lab<br>Food production - Day 3 | 09:00<br>BÖL 3. Biocentre<br>Jonas Ohlsson<br>Lab<br>Food production - Day 4               | 09:15<br>Group study room E202. Biocentre<br>Group study room E203 BioC. Biocentre<br>Jonas Ohlsson<br>Su-Lin Hedén<br>Discussion<br>Giving and receiving feedback on pathogen reports. (5 students 8:30-9:45, 5 students 9:15 onwards) |
| 10  |   |   |  |  |   |
| 11  |   |   | 11:00<br>11:15<br>Own studies<br>Work on two peer reviews, due 17:00. Also Quiz due 17:00.   |  | 11:00<br>BÖL 3. Biocentre<br>Jonas Ohlsson<br>Lab<br>Food production - final, cleaning. [Start time when Pathogen feedback session is over.]  |
| 12  |   |   |  |  |   |
| 13  | 13:00<br>BÖL 3. Biocentre<br>Jonas Ohlsson<br>Su-Lin Hedén<br>Lab<br>Food production - Day 1, continued | 13:15<br>Lecture hall C213. Biocentre<br>Volkmar Passoth<br>Lecture<br>Yeasts                           |  | 13:15<br>Lecture hall C213. Biocentre<br>Su-Lin Hedén<br>Mandatory<br>Exercise<br>Spoilage | 13:00<br>Self studies<br>Thesis Day (optional), own studies, improving pathogen report based on feedback  |
| 14  |   |   |  |  |   |
| 15  |   | 15:00<br>BÖL 3. Biocentre<br>Jonas Ohlsson<br>Su-Lin Hedén<br>Lab<br>Food production - Day 2, continued |  |  |   |
| 16  |   |   |  | 16:00  | 16:00   |

# LV0089 Schedule 240417

LV0089, Food Microbiology, VT2024

| w22 | Monday 27/5 2024  | Tuesday 28/5 2024   | Wednesday 29/5 2024   | Thursday 30/5 2024  | Friday 31/5 2024   |
|-----|---|---|---|---|--|
| 8   |   | 08:15<br>Lecture hall C213.<br>Biocentre<br>Su-Lin Hedén<br>Examination | 08:15<br>BÖL 3. Biocentre<br>Pre- and post-work<br>Lab cleaning in pairs,<br>20 min after oral exam |   |  |
| 9   | 09:15<br>Submission<br>Oral exam questions published at 8:15. Work<br>on own notes, submit in Canvas, 17:00.<br>Optional Zoom question time, 14:15. | Oral exam in pairs (75<br>min) or threes (105<br>min).                  | 09:15<br>Group work<br>Work on Food production presentations.<br>Mould report due 17:00             | 09:15<br>Own studies<br>Group work<br>Work on food production presentations.<br>Pathogen report final version due 17:00 | 09:15<br>Lecture hall C213. Biocentre<br>Jonas Ohlsson<br>Su-Lin Hedén<br>Mandatory<br>Presentation<br>Food production presentations, upload by<br>17:00 |
| 10  |   |   |   |   |  |
| 11  |   |   |   |   | 11:00<br>Jonas Ohlsson<br>Su-Lin Hedén<br>Other<br>Course lunch with fermented foods (optional<br>but very fun)  |
| 12  |   |   |   | 12:00   |  |
| 13  |   |   |   |   | 13:00  |
| 14  |   |   |   |   |  |
| 15  |   |   |   |   |  |
| 16  |   |   |   |   |  |