

## Advanced Analytical Chemistry

| Date | Topic                                              | Professor            |
|------|----------------------------------------------------|----------------------|
| 2/25 | Introduction                                       | Der-Lii Tzou         |
| 3/3  | General Principles in Analytical Chemistry         | Yu-Ju Chen           |
| 3/10 | Fundamentals of Light Microscopy                   | Chau-Hwang Lee       |
| 3/17 | Super-resolution Light Microscopy                  | Chau-Hwang Lee       |
| 3/24 | Electron Microscopy                                | WeiHau Chang         |
| 3/31 | Fundamental of Mass Spectrometry (I)               | Yi-Sheng Wang        |
| 4/7  | Fundamental of Mass Spectrometry (II)              | Yi-Sheng Wang        |
| 4/14 | Application of Mass Spectrometry to Nanotechnology | Yu-Ju chen           |
| 4/21 | Application of Mass Spectrometry in Biology        | Yu-Ju chen           |
| 4/28 | Fundamental of Mass Spectrometry                   | Yi-Sheng Wang        |
| 5/5  | NMR Spectroscopy- Fundamental and Application      | Der-Lii Tzou         |
| 5/12 | Modern NMR techonology-Hand-on Experience          | Der-Lii Tzou         |
| 5/19 | Midterm Exam                                       | Yu-Ju Chen           |
| 5/26 | XPS                                                | Jing-Jong Shyue      |
| 6/2  | SIMS                                               | Jing-Jong Shyue      |
| 6/9  | No class                                           | Dragon Boat Festival |
| 6/16 | SPR Sensing                                        | Pei-Kuen Wei         |
| 6/23 | Biochip - Microarray and Microfluidic chip         | Ji-Yen Cheng         |