

# 98-1 Preliminary Syllabus, Da-Yeh Univ

| Information       |               |                       |                |
|-------------------|---------------|-----------------------|----------------|
| Title             | 環境工程生物原理      | Serial No. / ID       | 2871 / GEN5428 |
| Dept.             | 工學院碩士在職專班     | School System / Class | 碩士在職專班1年5班     |
| Lecturer          | 張玉明           | Full or Part-time     | 專任             |
| Required / Credit | Optinal / 3   | Graduate Class        | NO             |
| Time / Place      | (三)ABC / H569 | Language              | English        |

| Introduction  |
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| Microbial activities that occur in natural and engineered environments are scientifically analyzed. Sound microbiological principles are discussed so that students who are being trained in the environmental engineering are led to directing their works to biotechnology in environmental protection. Microbiological principles and practical technique are brought together to enhance success in their applications to environmental protection. |

| Outline  |
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| The Life-Supporting System<br>Chemical Nature of Organic Matter<br>General Microbiology<br>Quantitative Description of Growth<br>Metabolism of Microorganisms<br>Metabolism of Microorganisms (cont.)<br>Bioreactors<br>Technological Control of Water Quality |

| Prerequisite                     |
|----------------------------------|
| Microbiology, physics, chemistry |