

# 102-1 Preliminary Syllabus, Da-Yeh Univ

| Information       |               |                       |                |
|-------------------|---------------|-----------------------|----------------|
| Title             | 有機化學實驗        | Serial No. / ID       | 0522 / MHI2003 |
| Dept.             | 藥用植物與保健學系     | School System / Class | 大學日間部2年2班      |
| Lecturer          | 李柏憲           | Full or Part-time     | 專任             |
| Required / Credit | Required / 1  | Graduate Class        | No             |
| Time / Place      | (五)567 / J212 | Language              | Chinese        |

| Introduction  |
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| <p>Experiments in organic chemistry is the combination concept of general chemistry, the organic synthesis and the analytical chemistry. By operating the basic experiments, integrates the organic chemistry in the practical training, observation and writing report ability. In order to train the students to carry on the entire experimental concept, increases the experimental flow chart, assembles of the experimental instrument besides introducing the experimental procedures entirely. After each experimental project, attaches every test, report, result, question and the discussion.</p> |

| Outline   |
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| <p>Experiment 1. Simple distillation and calibration of the thermometer.</p> <p>Experiment 2. Fractional distillations, steam distillations and reduced pressure distillations.</p> <p>Experiment 3. Measurement of melting points, extraction and recrystallization.</p> <p>Experiment 4. Chromatography.</p> <p>Experiment 5. Chemical reaction of hydrocarbon compounds.</p> <p>Experiment 6. Chemical reaction of alkene compounds.</p> <p>Experiment 7. Chemical reaction of alkene compounds.</p> <p>Experiment 8. Chemical reaction of alcohol compounds.</p> <p>Experiment 9. Chemical reaction of aldehyde compounds.</p> <p>Experiment 10. Chemical reaction of ketone compounds.</p> <p>Experiment 11. Chemical reaction of carboxylic acid compounds.</p> <p>Experiment 12. Esterification reaction</p> <p>Experiment 13. Oils and fats</p> <p>Experiment 14. Extraction of caffeine from coffee bean.</p> <p>Experiment 15. Preparation of aspirin</p> |

| Prerequisite      |
|-------------------|
| general chemistry |