

# 100-2 Preliminary Syllabus, Da-Yeh Univ

| Information       |                          |                       |                |
|-------------------|--------------------------|-----------------------|----------------|
| Title             | 離散數學                     | Serial No. / ID       | 0708 / IFI2002 |
| Dept.             | 資訊工程學系                   | School System / Class | 大學日間部1年1班      |
| Lecturer          | 黃鈴玲                      | Full or Part-time     | 專任             |
| Required / Credit | Required / 3             | Graduate Class        | No             |
| Time / Place      | (一)56 / H562 (二)2 / H562 | Language              | Chinese        |

| Introduction   |
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| To discipline students about mathematics, algorithms, logicals of computer sciences. |

| Outline   |
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| 1. The Foundations: Logic and Proofs<br><br>2. Basic Structures: Sets, Functions, Sequences, and Sums<br><br>3. The Fundamentals: Algorithms, the Integers, and Matrices<br><br>4. Induction and Recursion<br><br>5. Counting<br><br>6. Advanced Counting Techniques<br><br>7. Relations<br><br>8. Graphs |

| Prerequisite            |
|-------------------------|
| Basic Matrix Operations |