

# M.S. IN COMPUTER SCIENCE, COMPUTER NETWORKS, NON-THESIS TRACK (CSCN.NTT.MS)

| Code   | Title                                       | Credits   |
|--|---|-----------|
| <b>Foundation Requirements (12 credits) <sup>1</sup></b> |   |           |
| CS-501B  | Program Development                         | 3         |
| CS-502   | Theoretical Foundations of Computer Science | 3         |
| CS-503   | Data Structures and Algorithms              | 3         |
| CS-505   | Operating Systems Concepts                  | 3         |
| <b>Program Requirement (30 credits)</b>                  |   |           |
| CS-512   | Algorithm Design                            | 3         |
| CS-514   | Networks                                    | 3         |
| CS-517   | Database Design and Management              | 3         |
| CS-520   | Introduction to Intelligent Systems         | 3         |
| CS-535   | Telecommunications                          | 3         |
| CS-635   | Wireless Network Systems and Security       | 3         |
| CS-525   | Simulation                                  | 3         |
| Select 9 credits Designated with Course*Type CISEL       |   | 9         |
| <b>Total Credits</b>                                     |   | <b>42</b> |

<sup>1</sup> Up to 12 credits may be waived upon evaluation or prior academic preparation

## Admission Requirements

1. Possession of a baccalaureate degree with a minimum 2.75 overall GPA and a 3.0 in the undergraduate major, preferably in the sciences or engineering.
2. Two letters of recommendation.
3. Two semesters of Calculus (I and II) with grades of "C" or better.
4. Two semesters of computer programming courses within the past five years (equivalent to Monmouth's CS-175 Introduction to Computer Science I (3 cr.), CS-175L Introduction to Computer Science I lab (1 cr.) and CS-176 Introduction to Computer Science II (3 cr.), CS-176L Introduction to Computer Science II Lab (1 cr.)) at a recognized institution with a grade of "B" or better. Applicants not meeting these requirements for programming experience may be required to take CS-501A Computer Programming Essentials (3 cr.) or its equivalent.