

CERTIFICATE IN Information Technology

Rensselaer's multidisciplinary certificate in Information Technology is designed to provide a comprehensive grasp of a broad range of IT topics, ranging from software development to technical project management. Students must complete courses in four of the five areas listed below. Students with a significant background in one of the areas should complete courses in the remaining areas. A minimum of two of the four courses must be at the 6000 level.

ADMISSION REQUIREMENTS

- Bachelor's degree with a competitive academic record from an accredited undergraduate institution
- Applicants requesting admission to this certificate must have already completed a minimum of a three-semester sequence in computer science that is equivalent to Rensselaer's courses titled Computer Science I, Computer Science II, and Data Structures and Algorithm Analysis. Please consult the Rensselaer catalog for full course descriptions.
- Prerequisite requirements for all certificate courses as listed in the Rensselaer catalog
- Completed application form
- TOEFL required for all international students
- Official transcripts from bachelor's degree or highest degree earned

CREDENTIALS EARNED

- 12-14 Rensselaer graduate credits
- Certificate in Information Technology

CERTIFICATE COMPLETION REQUIREMENTS

- Status as a matriculated or non-matriculated Rensselaer student
- Completion of all four courses with a grade of "B" or better

PLAN OF STUDY

Complete one course from four of the following five areas:

I. Networking

ECSE-4670 Computer Communication Networks

II. Database Systems

CSCI-4380 Database Systems (for entry-level students)

DSES-6520 Enterprise Database Systems (for students who completed a database course)

III. Software Engineering

ECSE-6770 Software Engineering I

OR

ECSE-6780 Software Engineering II

IV. Management of Technology

DSES-6470 Global Strategic Management of Technological Innovation

V. Human-Computer Interaction

COMM-6420 Foundations of HCI Usability