

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 of Science 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 entitled Computer Science I (Fundamentals of Computer Science), Computer Science II (Data Structures, Introductory Algorithm Analysis), and "Advanced" Data Structures and Algorithm Analysis. Please consult the Rensselaer catalog for full course descriptions.
- Prerequisite requirements for all certificate courses
- 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 Communications 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

IV. Management of Technology

ITEC-6300 Business Issues for Engineers and Scientists

V. Human-Computer Interaction

COMM-6420 Foundations of HCI Usability