



Department of Computer Science

College of Science and Mathematics
Montclair State University, Richardson Hall



MONTCLAIR
STATE
UNIVERSITY

Computer Science Minor

Requirements for Computer Science Minor

Students may earn a minor in computer science by satisfactorily completing a minimum 19 semester hour program which includes CMPT 183, 184, 285, 287, and at least two other approved CMPT courses. At least 9 semester hours must be taken at Montclair State University.

COMPUTER SCIENCE MINOR

Complete the following for a total of 19 semester hours:

1. Complete the following 2 requirement(s):
 1. Complete the following 4 courses:

CMPT 183 <u>Foundations of Computer Science I</u>	3
CMPT 184 <u>Foundations of Computer Science II</u>	3
CMPT 285 <u>Discrete Mathematical Structures</u>	3
CMPT 287 <u>Data Structures, File Structures and Algorithms</u>	4

2. Complete 6 semester hours from the following:

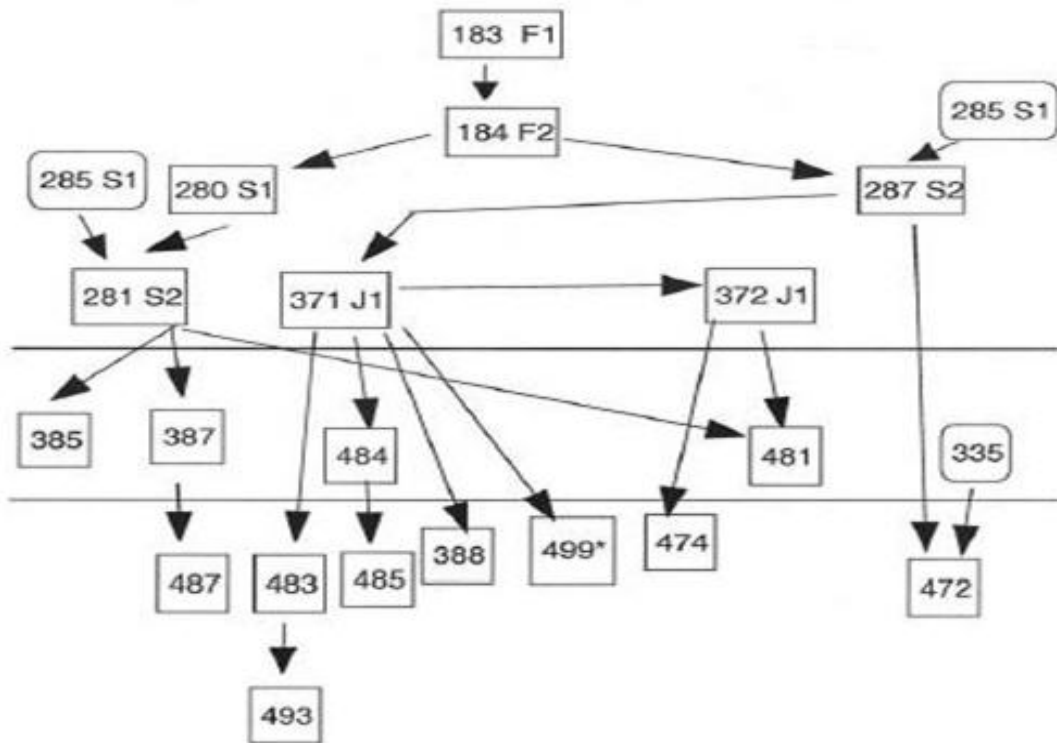
CMPT 250 <u>Web Tools</u>	3
CMPT 261 <u>Business Data Processing</u>	3
CMPT 273 <u>Introduction to Computers in Business</u>	3
CMPT 280 <u>Assembly Language and Computer Architecture</u>	3
CMPT 281 <u>Theory of Digital Machines</u>	3
CMPT 288 <u>Introduction to Cognitive Science</u>	3
CMPT 289 <u>Introduction to APL</u>	3
CMPT 296 <u>Topics in a Programming Language</u>	1
CMPT 300 <u>Introduction to Science Databases</u>	1
CMPT 320 <u>Intranet and Internet Security</u>	3

CMPT 330 <u>Network Technology</u>	3
CMPT 350 <u>Parallel and Distributed Computing</u>	3
CMPT 351 <u>Introduction to Image Processing</u>	3
CMPT 363 <u>Introduction to Numerical Computing</u>	3
CMPT 371 <u>Software Engineering I: Analysis and Design</u>	4
CMPT 372 <u>Software Engineering II: Implementation and Testing</u>	4
CMPT 381 <u>File Processing</u>	3
CMPT 382 <u>System Analysis and Design</u>	3
CMPT 384 <u>Systems Software</u>	3
CMPT 385 <u>Computer System Organization</u>	3
CMPT 387 <u>Principles of Data Communications</u>	3
CMPT 388 <u>Foundations of Artificial Intelligence</u>	3
CMPT 472 <u>Computer Graphics</u>	3
CMPT 474 <u>Software Engineering</u>	3
CMPT 481 <u>Operating Systems</u>	3
CMPT 483 <u>Database Systems</u>	3
CMPT 484 <u>Fundamentals of Programming Languages</u>	3
CMPT 485 <u>Compiler Construction</u>	3
CMPT 486 <u>Design of Computer Interfaces</u>	3
CMPT 487 <u>Local Area Networks (LAN's)</u>	3
CMPT 490 <u>Honors Seminar in Computer Science</u>	3
CMPT 493 <u>Advanced Database Theory</u>	3
CMPT 495 <u>Topics in Computer Science for Undergraduates</u>	1-3
CMPT 497 <u>Undergraduate Research in Computer Science I</u>	1-3
CMPT 498 <u>Undergraduate Research in Computer Science II</u>	1-3
CMPT 499 <u>Cooperative Education in Computer Science</u>	3-8

Students must follow the pre-requisite tree for the course they take¹

¹ See prerequisite tree on page 4

Prerequisite Tree for Computer Science Courses



Prerequisite Tree for Information Technology & Computer Science Courses

