



**Rowan College of New Jersey  
Department of Computer Science**

**Minor Curricular Change  
Changing the Requirements for the Minor in Computer Science**

1. Details

- a. Change requested: Change requirements for the Minor degree in Computer Science.

**From:**

**REQUIRED COURSES**

0704.103 Computer Science and Programming [0701.102 or equiv. prep.]  
1703.150 Discrete Mathematics [0701.102 & 1701.121]  
0706.205 Computer Organization [0704.103 & 1703.150]  
0704.222 Data Structures & Algorithms [0704.103 & 1703.150]  
0704.315 Programming Languages [0706.205 & 0704.222]

**ELECTIVE COURSES (TWO COURSES FROM THE FOLLOWING)**

0706.310 Principles of Digital Computers [0706.205]  
0704.390 Operating Systems [0704.222 & 0706.205]  
0707.360 Computer Graphics [1701.210 & 0704.315]  
0706.412 Advanced Computer Architecture [0706.310]  
0707.422 Theory of Computing [0704.222 & 1701.131]  
1701.332 Numerical Analysis [0701.102, 1701.210, & 1701.131]

**NOTE:** A minimum grade point average of 2.0 is required in the 7 courses completed.

**To:**

**REQUIRED COURSES**

0704.103 Computer Science and Programming [0701.102 or equiv. prep.]  
1703.150 Discrete Mathematics [0701.102 & 1701.121]  
0706.205 Computer Organization [0704.103 & 1703.150]  
0704.222 Data Structures & Algorithms [0704.103 & 1703.150]  
0701.205 Computer Laboratory Techniques [0704.103]

**ELECTIVE COURSES (TWO COURSES FROM THE FOLLOWING)**

0704.315 Programming Languages [0706.205 & 0704.222]

0706.310 Principles of Digital Computers [0706.205]  
0704.390 Operating Systems [0704.222 & 0706.205]  
0707.360 Computer Graphics [1701.210 & 0704.315]  
0706.412 Advanced Computer Architecture [0706.310]  
0707.422 Theory of Computing [0704.222 & 1701.131]  
1701.332 Numerical Analysis [0701.102, 1701.210, & 1701.131]  
0707.210 Foundations of Computer Science [1701.122 & 1703.150; 0704.222 is  
corequisite]  
0707.340 Design and Analysis of Algorithms [0704.222 & 0707.210]  
0707.450 Artificial Intelligence [1703.150, 0704.222, & 0707.210]  
0706.410 Data Communications and Networking [0706.310 & 1702.360]  
0707.321 Principles of Software Engineering [0704.222 or Digital II, 1506.202 &  
1701.131]  
0704.380 Object Oriented Design [0704.222 & 0701.205]  
0707.322 Software Engineering Practicum [0707.321 & 0701.205]  
0704.392 System Programming and Operating System Internals [0704.390 & 0701.205]

**NOTE:** A minimum grade point average of 2.0 is required in the 7 courses completed.

b. Sponsor: Ganesh Baliga, Assistant Professor, Computer Science Department

## 2. Rationale

a. Statement of “need” for such a change:

The course offerings of the Computer Science department have undergone several changes in the recent past. Several new courses have been created and prerequisites for many courses have been revised. These changes are appropriately reflected in the proposed modifications to the Minor in Computer Science.

b. Statement of curricular effect

Many new courses will be available to students studying towards a Minor in Computer Science. The course *Programming Languages* moves from the required courses pool to the elective courses pool. The course *Computer Laboratory Techniques* replaces *Programming Languages* in the required courses pool. The total number of semester hours required for the Minor in Computer Science does not change.

## 3. Results of consultation.

The consultation is internal to the computer science department.